



DEPARTMENT
TECHNICAL SERVICES

DIVISION
Architecture

PROCUREMENT DOCUMENT : Infrastructure (JBCC)

Documents can be obtained, free of charge, in electronic format, from the [National Treasury's eTenders website](#) or the [eThekweni Municipality website](#)

Contract No: 36585-1B

Contract Title: [Integrated Infrastructure Maintenance And Construction For Buildings, Facilities and Engineering Systems Works For 36 Months.](#)

Estimated CIDB: Grade: **3 - 9, except for SI** Class: **GB/EB/ME/SI (for SI, from 4SI or above)**

CLARIFICATION MEETING AND QUERIES

Clarification Meeting: [Compulsory Clarification Meeting](#)

Meeting Location:
Date, Time: [27/07/2026 @11h00 Moses Mabhida Stadium, Ground Floor Foyer](#)

Queries can be addressed to: Mxolisi.Myeza@durban.gov.za & Nokuthula.Mokoape@durban.gov.za
The Employer's Agent's: [Mxolisi Myeza & Nokuthula Mokoape. Consolidated answers to questions to be uploaded by 13 August 2026.](#)
Representative:

TENDER SUBMISSION

Tender Submission: The Tender Offer (hard copy) shall be delivered to:

Delivery location: [The Tender Box in the foyer of the Municipal Building, 166 KE Masinga Road, Durban](#)

Closing Date/ Time: [21/08/2026](#) at [11h00](#)

JDE Submission: An **electronic submission** is also to be made via the eThekweni Municipality **JDE System (ESP Module)**

JDE Queries Lindo Dlamini: Tel: 031-322-7133 / 031-322-7153
Contact: Email: supplier.selfservice@durban.gov.za

Tender Offers submitted via any means other than that stated in the Tender Data will be deemed invalid

Issued by:

ETHEKWINI MUNICIPALITY

Deputy Head: [Architecture](#)

Date of Issue: [17/07/2026](#)

Version: 01/12/2025

FOR OFFICIAL USE ONLY

Tenderer Name:			VAT Registered: Yes No
	Price (excl)	VAT	Price (incl)
Submitted:	R	R	R
Corrected:	R	R	R

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PART T1: TENDERING PROCEDURES

T1.1.1: TENDER NOTICE AND INVITATION TO TENDER

Tenders are hereby invited for the works to undertake Integrated Infrastructure Maintenance And Construction For Buildings, Facilities and Engineering Systems Works For 36 Months.

This framework will be of use on an “As-and-when-required” basis for a period of three years. The intention for the establishment of the Panels is so that any scheduled and unscheduled projects can be awarded without first having to start a lengthy procurement process. The panels will be evaluated and formulated using the submitted Rates for a “basket” of items. When required, Contracts for specific Works will be issued using Works Package Orders. These will also be compiled using the submitted rates. The Works, when required, will include, inter-alia, the construction of new, maintenance, upgrades and alterations of facilities for eThekweni Municipality. This includes unscheduled, scheduled and emergency works. The establishment of the panels gives no guarantee of any quantum of works being issued. Work Package Orders may be issued on an “As-and-when-required” basis, dependant on adequate funding being sourced. The use of the panels will be on a non-exclusive basis. It will be at the Employer’s sole discretion if the panels will be used, or if projects will be facilitated through any other procurement mechanism.

Subject	Description	Tender Data
Employer	The Employer is the eThekweni Municipality as represented by: Deputy Head: Architecture	C.1.1.1
Tender Documents	Documentation is to be downloaded from the National Treasury’s eTenders website or the eThekweni Municipality Website : • https://www.etenders.gov.za/ • https://www.durban.gov.za/pages/business/procurement	C.1.2
CIDB Eligibility	It is <u>estimated</u> that Tenderers should have a CIDB contractor grading designation of 3 - 9, except for SI GB/EB/ME/SI (for SI, from 4SI or above)	C.2.1.2
Meeting Type	Compulsory Clarification Meeting	C.2.7
Meeting Details	27/07/2026	C.2.7
Seek Clarification	Queries relating to these documents are to be addressed to the Employer’s Agent’s Representative whose contact details are: Mxolisi.Myeza@durban.gov.za & Nokuthula.Mokoape@durban.gov.za Mxolisi Myeza & Nokuthula Mokoape. Consolidated answers to questions to be uploaded by 13 August 2026.	C.1.4
Submitting a Tender Offer	The Tender Offer (hard copy) shall be delivered to: The Tender Box in the foyer of the Municipal Building, 166 KE Masinga Road, Durban An electronic submission , via the eThekweni Municipality JDE System (ESP Module) , is also to be made. Refer to Part T1.1.2 and Tender Data: C.2.13. Notwithstanding the electronic submission , a tender offer will only be deemed valid if the “hard copy” submission has been made.	C.2.13
Closing Time	The Tender Offer (hard copy) shall be delivered, and the electronic submission completed, both on or before 21/08/2026 , at or before 11h00 .	C.2.15
Evaluation of Tender Offers	Either the 80/20 or 90/10 Price Preference Point System, as specified in the SCM Policy: Section 52: Preferential Procurement will be applied in the evaluation of tenders. Tender Data: C.3.11: Evaluation of Tender Offers details the awarding of Preference Points, and other related	C.3.11

evaluation requirements.

Requirements for sealing, addressing, delivery, opening, and assessment of tenders are stated in the Tender Data

CIDB B.U.I.L.D. Programme Standards

Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts	Applicable
Standard for Developing Skills through Infrastructure Contracts	Applicable

T1.1.2: NOTES TO TENDERERS

These “Notes to Tenderers” are intended to provide guidance regarding tendering obligations and requirements.

Compliance requirements are stated in the relevant parts of the Tender Data: T1.2.

GENERAL

- 1) The words BID, TENDER, QUOTATION, and REQUEST FOR QUOTATION (RFQ) are interchangeable throughout this procurement document.
- 2) **JDE-ESP Module** refers to the Supplier Self Service module on the eThekweni Municipality JDE System. Refer to Part T1.1.2.

eThekweni Supply Chain Management Policy (SCMP)

The requirements as stated in the Employer's SCM Policy include, but are not limited to, the following:

1) Section 14(4): ETM Supplier Database

The eThekweni Supply Chain Management Policy requires suppliers/ service providers/ contractors to be registered on the **eThekweni Municipality's Supplier Portal**.

In the event of the Tenderer not being registered on the eThekweni Municipality's Supplier Portal, the Tenderer must register on the internet at www.durban.gov.za by following these links:

- Business
 - Supply Chain Management (SCM)
 - Accredited Supplier and Contractor Database.

The following is to be noted:

- The information for registration as in the possession of the eThekweni Municipality will apply.
- It is the Tenderer's responsibility to ensure that the details submitted to the Municipality are correct.
- Tenderers are to register prior to the submission of tenders.

2) Section 20(1)(d)(i): Audited Financial Statements

Audited Financial Statements are required to be submitted if the value of the tender offer exceeds R10 million (incl. VAT). See **Returnable Form: MBD 5** and **Returnable Form: Contracts awarded by Organs of State** in the past 5 years.

3) Section 20(1)(d)(iii): Contracts Awarded during the past 5 Years

Tenderers are to include with their submission a listing of any contracts awarded to the Tenderer during the past 5 years, including particulars of any material non-compliance or dispute concerning the execution of the contracts. Tenderers are referred to **Returnable Form: MBD 5**

4) Section 13.1(b)(vii), 20(1)(d)(ii), 28.2(d), 29.6(a), 38.1(d), and 29.14: Municipal Rates and Taxes (Fees)

Tenderers are to refer to **Returnable Form: Declaration of Municipal Fees** to certify that they have no undisputed commitments for municipal services towards any municipality. Prior to an award, a Tenderer's municipal rates and taxes cannot be in arrears. Should a Tenderer be in arrears with respect to municipal services and has formalised an agreement with the respective municipality to offset the arrears, the agreement must be in place at time of tender closing.

5) **Section 21.2: Tender Validity**

Tenders are to remain valid for twelve (12) months after the expiry of the **original tender validity period** as stated in the **Tender Data**, unless the Municipality is notified, in writing, of anything to the contrary.

The eThekweni Municipality reserves the right to request confirmation from Tenderers of tender validity at any time during the twelve (12) month period.

6) **Section 28(2)(d), Section 28(2)(h) and Section use 29(12): Certifications and Registrations**

CIDB Registration and Status, B-BBEE Certificates, and Tax Compliance Status PINs must be valid at the time of tender closing, and before final award.

The Tenderer's Tax Compliance Status, CIDB Registration and Status (if required), and B-BBEE Level Status (if required), will be verified using the National Treasury Central Supplier Database (CSD). Tenderers are referred to **Returnable Form: Compulsory Enterprise Questionnaire**.

It is the Tenderer's responsibility to ensure that their data on the CSD is kept updated and correctly reflects the status of the tendering entity.

7) **Section 28(2)(f), and 52.5.13: Joint Ventures (JV)**

Each party of a JV must submit separate Tax Compliance Status PINs. Unless otherwise stated, the requirements for a single entity submission in terms of documentation requirements, will apply to each member of a JV making a submission.

As proof that a JV has been formalised, or that the parties to the JV agree to formalise the JV should they be successful in being recommended for the award of this tender, Tenderers are referred to **Returnable Form: Joint Venture Agreements**.

8) **Section 49.1.2: Complaints and Objections (Appeals)**

A non-refundable tariff, as per the approved Council tariffs, is payable by the Complainant to the Municipality. Proof of the payment of the Fee must be attached to the complaint.

CIDB

Regulation 25(8)

- 9) It should be noted that this contract, unless otherwise stated, is not part of a **Targeted Development Programme (TDP)**. The CIDB provisions in relation to a Contractor's **Potentially Emerging (PE) status** do not apply.

Tenderers are referred to **CIDB Inform Practice Note #32: "Application of the Potentially Emerging (PE) Status"**.

B.U.I.L.D. Programme

- 10) A programme to accelerate transformation in the construction industry, increase the capacity of the construction industry to deliver infrastructure and support the growth of emerging contractors, was launched on 14 March 2024 by the Deputy Minister of Public Works and Infrastructure and the Construction Industry Development Board.

Details of the B.U.I.L.D. Programme were published in a Government Gazette in 2020 (GG 43726) and B.U.I.L.D. has gradually been phased in at various levels of government and the private sector. The CIDB, a public entity with the mandate to promote improved performance in construction, oversees the programme and manages the B.U.I.L.D Fund.

The B.U.I.L.D programme determines that public sector entities which implement construction projects, that meet certain minimum requirements, must include developmental goals to the deliverables defined in the tenders. If applicable, Contractors are required to include these goals in the plans and pricing when they submit their tender bids.

11) CIDB Work Classification Selection

Tenderers are required to select the class of work being tendered for from the below schedule (rates submitted should be for that CIDB class selected):

Class Code	Class of Works	Tick applicable	Contractor Grade
GB	General Building		
EB	Electrical Engineering Works - Buildings		
ME	Mechanical Engineering		
SI	Lifts, escalators and travellers		

INITIAL:

T1.1.3: INFORMATION REGARDING THE ETHEKWINI JDE SYSTEM

This Part (T1.1.2) is for information purposes only.

Compliance requirements are stated in Part T1.2: Tender Data.

1) General

eThekwini Municipality Bids, Tenders and Quotations (hereafter referred to as Tenders) are going to be submitted using the JDE System.

This JDE System will be used for:

- Viewing of available (open) Tenders,
- Downloading procurement documentation for Tenders,
- Uploading completed and signed Tender documentation,
- Completion and submission of Tenders electronically,
- Viewing the Tender opening schedule.

2) Registrations

To be granted access to the **JDE System** prospective service providers must be registered on the **National Treasury's Central Supplier Database (CSD)**, the **eThekwini Municipality Supplier Portal**, and the **eThekwini Municipality JDE System**.

National Treasury: Central Supplier Database

- Registration can be made on <https://secure.csd.gov.za> .
- Service Providers will be issued a "MAAA" number when registered.

eThekwini Municipality Supplier Portal

- Registration can be made on <https://www.durban.gov.za> by following these links:
>Business >Supply Chain Management (SCM) >Accredited Supplier & Contractor Database.

eThekwini Municipality JDE System

- Service providers requiring access must send an email to supplier.selfservice@durban.gov.za
A copy of the **Director's ID** is required:
- On receipt of this email, the Procurement and Supply Chain Management (P&SCM) Directorate will respond with the login credentials and a link to the **JDE System**.

3) Assistance with using the JDE System

The following P&SCM Official(s) can be contacted in connection with the use of the **JDE System**:

General Queries:

- Lindo Dlamini Tel: 031 322 7153 or 031 322 7133
 Email: supplier.selfservice@durban.gov.za

Technical Queries:

- Jabulani Chauke Tel: 031 322 9535
 Email: Jabulani.Chauke@durban.gov.za

4) Viewing of available tenders

By following link <https://rfq.durban.gov.za/jde/E1Menu.maf> prospective Service Providers will be able to view available (open) Tender opportunities without signing into the system. However, Service Providers will not be able to respond to a Tender without being signed into the system using a JDE User ID and Password.

5) Tender documentation

By accessing the **JDE System** (using <https://rfq.durban.gov.za/>) and viewing any available Tenders, prospective Service Providers will be able to download the relevant Tender documentation.

The Tender documentation consists of the **TENDER** and **CONTRACT Parts**, as described in the INDEX, and will include any drawings and other information (if applicable). Referred to, or included in the documentation, are the **Standard Conditions of Tender (and associated Tender Data)**, and the **Conditions of Contract (and associated Contract Data)** which will govern the tendering and contract processes respectively.

6) Submission of tender offers

Reference is to be made to the **Tender Data: C.2.13** that specifies compliance requirements.

Should the **Tender Offer** be required in “hard copy” format, the submission is to be delivered to the Delivery Location as stated in the **Tender Data**.

In addition to the above, **Tender Offers are also to be SUBMITTED ELECTRONICALLY** (uploaded) on the eThekweni Municipality JDE System (Supplier Self Service (JDE-ESP) Module). Notwithstanding the **electronic submission**, a tender offer will only be deemed valid if the “hard copy” submission has been made. The “hard copy” submission will be deemed to be the ruling version.

Bidders are responsible for resolving all access rights and submission queries on the JDE System before the tender closing date/ time, as stated in the **Tender Data: C.2.15**.

7) Viewing the Tender opening schedule

Users on the **JDE System** will be able to view the **Tender Opening Schedule** for each closed Tender. The tender opening schedule will also be made available on the eThekweni Municipal website at URL: <https://www.durban.gov.za/pages/business/publication-of-received-bids>

PART T1: TENDERING PROCEDURES

T1.2: TENDER DATA

T1.2.1 STANDARD CONDITIONS OF TENDER

The conditions of tender are the **Standard Conditions of Tender** as contained in **Annex C** of the CIDB Standard for Uniformity in Construction Procurement as published in Government Gazette No 42622, Board Notice 423 of 8 August 2019, as duplicated below.

The Standard Conditions of Tender make several references to the **Tender Data** for details that apply specifically to this tender. The **Tender Data** (T1.2.2) shall have precedence in the interpretation of any ambiguity or inconsistency between it and the Standard Conditions of Tender.

Annex C

Standard Conditions of Tender

C.1 General

C.1.1 Actions

C.1.1.1 The employer and each tenderer submitting a tender offer shall comply with these conditions of tender. In their dealings with each other, they shall discharge their duties and obligations as set out in C.2 and C.3, timeously and with integrity, and behave equitably, honestly and transparently, comply with all legal obligations and not engage in anticompetitive practices.

C.1.1.2 The employer and the tenderer and all their agents and employees involved in the tender process shall avoid conflicts of interest and where a conflict of interest is perceived or known, declare any such conflict of interest, indicating the nature of such conflict. Tenderers shall declare any potential conflict of interest in their tender submissions. Employees, agents and advisors of the employer shall declare any conflict of interest to whoever is responsible for overseeing the procurement process at the start of any deliberations relating to the procurement process or as soon as they become aware of such conflict and abstain from any decisions where such conflict exists or recuse themselves from the procurement process, as appropriate.

Note:

1) A conflict of interest may arise due to a conflict of roles which might provide an incentive for improper acts in some circumstances. A conflict of interest can create an appearance of impropriety that can undermine confidence in the ability of that person to act properly in his or her position even if no improper acts result.

2) Conflicts of interest in respect of those engaged in the procurement process include direct, indirect or family interests in the tender or outcome of the procurement process and any personal bias, inclination, obligation, allegiance or loyalty which would in any way affect any decisions taken.

C.1.1.3 The employer shall not seek, and a tenderer shall not submit a tender, without having a firm intention and the capacity to proceed with the contract.

C.1.2 Tender Documents

The documents issued by the employer for the purpose of a tender offer are listed in the **Tender Data**.

C.1.3 Interpretation

C.1.3.1 The **Tender Data** and additional requirements contained in the tender schedules that are included in the returnable documents are deemed to be part of these conditions of tender.

C.1.3.2 These conditions of tender, the **Tender Data** and tender schedules which are required for tender evaluation purposes, shall form part of any contract arising from the invitation to tender.

C.1.3.3 For the purposes of these conditions of tender, the following definitions apply:

- a) **conflict of interest** means any situation in which:
 - i) someone in a position of trust has competing professional or personal interests which make it difficult to fulfil his or her duties impartially;
 - ii) an individual or tenderer is in a position to exploit a professional or official capacity in some way for their personal or corporate benefit; or
 - iii) incompatibility or contradictory interests exist between an employee and the tenderer who employs that employee.
- b) **comparative offer** means the price after the factors of a non-firm price and all unconditional **discounts** it can be utilised to have been taken into consideration;
- c) **corrupt practice** means the offering, giving, receiving or soliciting of anything of value to influence the action of the employer or his staff or agents in the tender process;
- d) **fraudulent practice** means the misrepresentation of the facts in order to influence the tender process or the award of a contract arising from a tender offer to the detriment of the employer, including collusive practices intended to establish prices at artificial levels;

C.1.4 Communication and employer's agent

Each communication between the employer and a tenderer shall be to or from the employer's agent only, and in a form that can be readily read, copied and recorded. Communications shall be in the English language. The employer shall not take any responsibility for non-receipt of communications from or by a tenderer. The name and contact details of the employer's agent are stated in the **Tender Data**.

C.1.5 Cancellation and Re-Invitation of Tenders

C.1.5.1 An employer may, prior to the award of the tender, cancel a tender if-

- a) due to changed circumstances, there is no longer a need for the engineering and construction works specified in the invitation;
- b) funds are no longer available to cover the total envisaged expenditure;

- c) no acceptable tenders are received;
- d) there is a material irregularity in the tender process.

C.1.5.2 The decision to cancel a tender invitation must be published in the same manner in which the *original* tender invitation was advertised.

C.1.5.3 An employer may only with the prior approval of the relevant treasury cancel a tender invitation for the second time.

C.1.6 Procurement procedures

C.1.6.1 General

Unless otherwise stated in the **Tender Data**, a contract will, subject to C.3.13, be concluded with the tenderer who in terms of C.3.11 is the highest ranked or the tenderer scoring the highest number of tender evaluation points, as relevant, based on the tender submissions that are received at the closing time for tenders.

C.1.6.2 Competitive negotiation procedure

C.1.6.2.1 Where the **Tender Data** require that the competitive negotiation procedure is to be followed, tenderers shall submit tender offers in response to the proposed contract in the first round of submissions. Notwithstanding the requirements of C.3.4, the employer shall announce only the names of the tenderers who make a submission. The requirements of C.8 relating to the material deviations or qualifications which affect the competitive position of tenderers shall not apply.

C.1.6.2.2 All responsive tenderers or at least a minimum of not less than three responsive tenderers that are highest ranked in terms of the evaluation criteria stated in the **Tender Data** shall be invited to enter into competitive negotiations based on the principle of equal treatment, keeping confidential the proposed solutions and associated information.

Notwithstanding the provisions of C.2.17, the employer may request that tenders be clarified, specified and fine-tuned in order to improve a tenderer's competitive position provided that such clarification, specification, fine-tuning or additional information does not alter any fundamental aspects of the offers or impose substantial new requirements which restrict or

distort competition or have a discriminatory effect.	which formed part of the qualifying requirements used by the employer as the basis in a prior process to invite the tenderer to submit a tender offer and obtain the employer's written approval to do so prior to the closing time for tenders.
C.1.6.2.3 At the conclusion of each round of negotiations, tenderers shall be invited by the employer to revise their tender offer based on the same evaluation criteria, with or without adjusted weightings. Tenderers shall be advised when they are to submit their best and final offer.	C.2.2 Cost of tendering
C.1.6.2.4 The contract shall be awarded in accordance with the provisions of C.3.11 and C.3.13 after tenderers have been requested to submit their best and final offer.	C.2.2.1 Accept that, unless otherwise stated in the Tender Data, the employer will not compensate the tenderer for any costs incurred in the preparation and submission of a tender offer, including the costs of any testing necessary to demonstrate that aspects of the offer complies with requirements.
C.1.6.3 Proposal procedure using the two stage-system	C.2.2.2 The cost of the tender documents charged by the employer shall be limited to the actual cost incurred by the employer for printing the documents. Employers must attempt to make available the tender documents on its website so as not to incur any costs pertaining to the printing of the tender documents.
C.1.6.3.1 Option 1	C.2.3 Check documents
Tenderers shall in the first stage submit technical proposals and, if required, cost parameters around which a contract may be negotiated. The employer shall evaluate each responsive submission in terms of the method of evaluation stated in the Tender Data, and in the second stage negotiate a contract with the tenderer scoring the highest number of evaluation points and award the contract in terms of these conditions of tender.	Check the tender documents on receipt for completeness and notify the employer of any discrepancy or omission.
C.1.6.3.2 Option 2	C.2.4 Confidentiality and copyright of documents
C.1.6.3.2.1 Tenderers shall submit in the first stage only technical proposals. The employer shall invite all responsive tenderers to submit tender offers in the second stage, following the issuing of procurement documents.	Treat as confidential all matters arising in connection with the tender. Use and copy the documents issued by the employer only for the purpose of preparing and submitting a tender offer in response to the invitation.
C.1.6.3.2.2 The employer shall evaluate tenders received during the second stage, in terms of the method of evaluation stated in the Tender Data, and award the contract in terms of these conditions of tender.	C.2.5 Reference documents
C.2 Tenderer's obligations	Obtain, as necessary for submitting a tender offer, copies of the latest versions of standards, specifications, conditions of contract and other publications, which are not attached but which are incorporated into the tender documents by reference.
C.2.1 Eligibility	C.2.6 Acknowledge addenda
C.2.1.1 Submit a tender offer only if the tenderer satisfies the criteria stated in the Tender Data and the tenderer, or any of his principals, is not under any restriction to do business with employer.	Acknowledge receipt of addenda to the tender documents, which the employer may issue, and if necessary apply for an extension to the closing time stated in the Tender Data, in order to take the addenda into account.
C.2.1.2 Notify the employer of any proposed material change in the capabilities or formation of the tendering entity (or both) or any other criteria	

C.2.7 Clarification meeting

Attend, where required, a clarification meeting at which tenderers may familiarize themselves with aspects of the proposed work, services or supply and raise questions. Details of the meeting(s) are stated in the **Tender Data**.

C.2.8 Seek clarification

Request clarification of the tender documents, if necessary, by notifying the employer at least five (5) working days before the closing time stated in the **Tender Data**.

C.2.9 Insurance

Be aware that the extent of insurance to be provided by the employer (if any) might not be for the full cover required in terms of the conditions of contract identified in the **Contract Data**. The tenderer is advised to seek qualified advice regarding insurance.

C.2.10 Pricing the tender offer

C.2.10.1 Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes except Value Added Tax (VAT), and other levies payable by the successful tenderer, such duties, taxes and levies being those applicable fourteen (14) days before the closing time stated in the **Tender Data**.

C.2.10.2 Show VAT payable by the employer separately as an addition to the tendered total of the prices.

C.2.10.3 Provide rates and prices that are fixed for the duration of the contract and not subject to adjustment except as provided for in the conditions of contract identified in the **Contract Data**.

C.2.10.4 State the rates and prices in Rand unless instructed otherwise in the **Tender Data**. The conditions of contract identified in the **Contract Data** may provide for part payment in other currencies.

C.2.11 Alterations to documents

Do not make any alterations or additions to the tender documents, except to comply with instructions issued by the employer, or necessary to correct errors made by the

tenderer. All signatories to the tender offer shall initial all such alterations.

C.2.12 Alternative tender offers

C.2.12.1 Unless otherwise stated in the **Tender Data**, submit alternative tender offers only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted as well as a schedule that compares the requirements of the tender documents with the alternative requirements that are proposed.

C.2.12.2 Accept that an alternative tender offer must be based only on the criteria stated in the **Tender Data** or criteria otherwise acceptable to the employer.

C.2.12.3 An alternative tender offer must only be considered if the main tender offer is the winning tender.

C.2.13 Submitting a tender offer

C.2.13.1 Submit one tender offer only, either as a single tendering entity or as a member in a joint venture to provide the whole of the works identified in the **Contract Data** and described in the scope of works, unless stated otherwise in the **Tender Data**.

C.2.13.2 Return all returnable documents to the employer after completing them in their entirety, either electronically (if they were issued in electronic format) or by writing legibly in non-erasable ink.

C.2.13.3 Submit the parts of the tender offer communicated on paper as an original plus the number of copies stated in the **Tender Data**, with an English translation of any documentation in a language other than English, and the parts communicated electronically in the same format as they were issued by the employer.

C.2.13.4 Sign the original and all copies of the tender offer where required in terms of the **Tender Data**. The employer will hold all authorized signatories liable on behalf of the tenderer. Signatories for tenderers proposing to contract as joint ventures shall state which of the signatories is the lead partner whom the employer shall hold liable for the purpose of the tender offer.

C.2.13.5 Seal the original and each copy of the tender offer as separate packages marking the packages as "ORIGINAL" and "COPY". Each package shall state on the outside the employer's address and identification details stated in the Tender Data , as well as the tenderer's name and contact address.	the requirements of these conditions of tender apply equally to the extended deadline.
C.2.13.6 Where a two-envelope system is required in terms of the Tender Data , place and seal the returnable documents listed in the Tender Data in an envelope marked "financial proposal" and place the remaining returnable documents in an envelope marked "technical proposal". Each envelope shall state on the outside the employer's address and identification details stated in the Tender Data , as well as the tenderer's name and contact address.	C.2.16 Tender offer validity
C.2.13.7 Seal the original tender offer and copy packages together in an outer package that states on the outside only the employer's address and identification details as stated in the Tender Data .	C.2.16.1 Hold the tender offer(s) valid for acceptance by the employer at any time during the validity period stated in the Tender Data after the closing time stated in the Tender Data .
C.2.13.8 Accept that the employer will not assume any responsibility for the misplacement or premature opening of the tender offer if the outer package is not sealed and marked as stated.	C.2.16.2 If requested by the employer, consider extending the validity period stated in the Tender Data for an agreed additional period with or without any conditions attached to such extension.
C.2.13.9 Accept that tender offers submitted by facsimile or e-mail will be rejected by the employer, unless stated otherwise in the Tender Data .	C.2.16.3 Accept that a tender submission that has been submitted to the employer may only be withdrawn or substituted by giving the employer's agent written notice before the closing time for tenders that a tender is to be withdrawn or substituted. If the validity period stated in C.2.16 lapses before the employer evaluating tender, the contractor reserves the right to review the price based on Consumer Price Index (CPI).
C.2.14 Information and data to be completed in all respects Accept that tender offers, which do not provide all the data or information requested completely and in the form required, may be regarded by the employer as non-responsive.	C.2.16.4 Where a tender submission is to be substituted, a tenderer must submit a substitute tender in accordance with the requirements of C.2.13 with the packages clearly marked as "SUBSTITUTE".
C.2.15 Closing time	C.2.17 Clarification of tender offer after submission
C.2.15.1 Ensure that the employer receives the tender offer at the address specified in the Tender Data not later than the closing time stated in the Tender Data . Accept that proof of posting shall not be accepted as proof of delivery.	Provide clarification of a tender offer in response to a request to do so from the employer during the evaluation of tender offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in the competitive position of tenderers or substance of the tender offer is sought, offered, or permitted.
C.2.15.2 Accept that, if the employer extends the closing time stated in the Tender Data for any reason,	<i>Note: Sub-clause C.2.17 does not preclude the negotiation of the final terms of the contract with a preferred tenderer following a competitive selection process, should the Employer elect to do so.</i>
	C.2.18 Provide other material
	C.2.18.1 Provide, on request by the employer, any other material that has a bearing on the tender offer, the tenderer's commercial position (including

notarized joint venture agreements), preferencing arrangements, or samples of materials, considered necessary by the employer for the purpose of a full and fair risk assessment. Should the tenderer not provide the material, or a satisfactory reason as to why it cannot be provided, by the time for submission stated in the employer's request, the employer may regard the tender offer as non-responsive.	
C.2.18.2 Dispose of samples of materials provided for evaluation by the employer, where required.	
C.2.19 Inspections, tests and analysis Provide access during working hours to premises for inspections, tests and analysis as provided for in the Tender Data.	C.3.1.2 Consider any request to make a material change in the capabilities or formation of the tendering entity (or both) or any other criteria which formed part of the qualifying requirements used to prequalify a tenderer to submit a tender offer in terms of a previous procurement process and deny any such request if as a consequence: a) an individual firm, or a joint venture as a whole, or any individual member of the joint venture fails to meet any of the collective or individual qualifying requirements; b) the new partners to a joint venture were not prequalified in the first instance, either as individual firms or as another joint venture; or c) in the opinion of the Employer, acceptance of the material change would compromise the outcome of the prequalification process.
C.2.20 Submit securities, bonds and policies If requested, submit for the employer's acceptance before formation of the contract, all securities, bonds, guarantees, policies and certificates of insurance required in terms of the conditions of contract identified in the Contract Data.	C.3.2 Issue Addenda If necessary, issue addenda that may amend or amplify the tender documents to each tenderer during the period from the date that tender documents are available until three (3) working days before the tender closing time stated in the Tender Data. If, as a result a tenderer applies for an extension to the closing time stated in the Tender Data, the Employer may grant such extension and, shall then notify all tenderers who collected tender documents.
C.2.21 Check final draft Check the final draft of the contract provided by the employer within the time available for the employer to issue the contract.	C.3.3 Return late tender offers Return tender offers received after the closing time stated in the Tender Data, unopened, (unless it is necessary to open a tender submission to obtain a forwarding address), to the tenderer concerned.
C.2.22 Return of other tender documents If so instructed by the employer, return all retained tender documents within twenty-eight (28) days after the expiry of the validity period stated in the Tender Data. C.2.23 Certificates Include in the tender submission or provide the employer with any certificates as stated in the Tender Data.	C.3.4 Opening of tender submissions C.3.4.1 Unless the two-envelope system is to be followed, open valid tender submissions in the presence of tenderers' agents who choose to attend at the time and place stated in the Tender Data. Tender submissions for which acceptable reasons for withdrawal have been submitted will not be opened.
C.3 The employer's undertakings C.3.1 Respond to requests from the tenderer C.3.1.1 Unless otherwise stated in the Tender Data, respond to a request for clarification received up to five (5) working days before the tender closing time stated in the Tender Data and notify all tenderers who collected tender documents.	C.3.4.2 Announce at the meeting held immediately after the opening of tender submissions, at a venue indicated in the Tender Data, the name

	of each tenderer whose tender offer is opened and, where applicable, the total of his prices, number of points claimed for its BBBEE status level and time for completion for the main tender offer only.		
C.3.4.3	Make available the record outlined in C.3.4.2 to all interested persons upon request.		
C.3.5	Two-envelope system		
C.3.5.1	Where stated in the Tender Data that a two-envelope system is to be followed, open only the technical proposal of valid tenders in the presence of tenderers' agents who choose to attend at the time and place stated in the Tender Data and announce the name of each tenderer whose technical proposal is opened.	C.3.8.1	Determine, after opening and before detailed evaluation, whether each tender offer properly received: a) complies with the requirements of these Conditions of Tender, b) has been properly and fully completed and signed, and c) is responsive to the other requirements of the tender documents.
C.3.5.2	Evaluate functionality of the technical proposals offered by tenderers, then advise tenderers who remain in contention for the award of the contract of the time and place when the financial proposals will be opened. Open only the financial proposals of tenderers, who score in the functionality evaluation more than the minimum number of points for functionality stated in the Tender Data , and announce the score obtained for the technical proposals and the total price and any points claimed on BBBEE status level. Return unopened financial proposals to tenderers whose technical proposals failed to achieve the minimum number of points for functionality.	C.3.8.2	A responsive tender is one that conforms to all the terms, conditions, and specifications of the tender documents without material deviation or qualification. A material deviation or qualification is one which, in the Employer's opinion, would: a) detrimentally affect the scope, quality, or performance of the works, services or supply identified in the Scope of Work, b) significantly change the Employer's or the tenderer's risks and responsibilities under the contract, or c) affect the competitive position of other tenderers presenting responsive tenders, if it were to be rectified. Reject a non-responsive tender offer and not allow it to be subsequently made responsive by correction or withdrawal of the non-conforming deviation or reservation.
C.3.6	Non-disclosure Not disclose to tenderers, or to any other person not officially concerned with such processes, information relating to the evaluation and comparison of tender offers, the final evaluation price and recommendations for the award of a contract, until after the award of the contract to the successful tenderer.	C.3.9	Arithmetical errors, omissions and discrepancies
C.3.7	Grounds for rejection and disqualification Determine whether there has been any effort by a tenderer to influence the processing of tender offers and instantly disqualify a tenderer (and his tender offer) if it is established that he engaged in corrupt or fraudulent practices.	C.3.9.1	Check responsive tenders for discrepancies between amounts in words and amounts in figures. Where there is a discrepancy between the amounts in figures and the amount in words, the amount in words shall govern.
C.3.8	Test for responsiveness	C.3.9.2	Check the highest ranked tender or tenderer with the highest number of tender evaluation points after the evaluation of tender offers in accordance with C.3.11 for: a) the gross misplacement of the decimal point in any unit rate; b) omissions made in completing the pricing schedule or bills of quantities; or c) arithmetic errors in: (i) line-item totals resulting from the product of a unit rate and a quantity in bills of quantities or schedules of prices; or (ii) the summation of the prices.
		C.3.9.3	Notify the tenderer of all errors or omissions that are identified in the tender offer and either

confirm the tender offer as tendered or accept the corrected total of prices.

C.3.9.4 Where the tenderer elects to confirm the tender offer as tendered, correct the errors as follows:

- a) If bills of quantities or pricing schedules apply and there is an error in the line-item total resulting from the product of the unit rate and the quantity, the line-item total shall govern and the rate shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line-item total as quoted shall govern, and the unit rate shall be corrected.
- b) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern and the tenderer will be asked to revise selected item prices (and their rates if bills of quantities apply) to achieve the tendered total of the prices.

C.3.10 Clarification of a tender offer

Obtain clarification from a tenderer on any matter that could give rise to ambiguity in a contract arising from the tender offer.

C.3.11 Evaluation of tender offers

The Standard Conditions of Tender standardize the procurement processes, methods and procedures from the time that tenders are invited to the time that a contract is awarded. They are generic in nature and are made project specific through choices that are made in developing the **Tender Data** associated with a specific project.

Conditions of tender are by definition the document that establishes a tenderer's obligations in submitting a tender and the employer's undertakings in soliciting and evaluating tender offers. Such conditions establish the rules from the time a tender is advertised to the time that a contract is awarded and require employers to conduct the process of offer and acceptance in terms of a set of standard procedures.

The CIDB Standard Conditions of Tender are based on a procurement system that satisfies the following system requirements:	
Requirement	Qualitative interpretation of goal
Fair	The process of offer and acceptance is conducted impartially without bias, providing simultaneous and timely access to participating parties to the same information.
Equitable	Terms and conditions for performing the work do not unfairly prejudice the interests of the parties.
Transparent	The only grounds for not awarding a contract to a tenderer who satisfies all requirements are restrictions from doing business with the employer, lack of capability or capacity, legal impediments and conflicts of interest.
Competitive	The system provides for appropriate levels of competition to ensure cost effective and best value outcomes.
Cost effective	The processes, procedures and methods are standardized with sufficient flexibility to attain best value outcomes in respect of quality, timing and price, and least resources to effectively manage and control procurement processes.

The activities associated with evaluating tender offers are as follows:

- a) Open and record tender offers received
- b) Determine whether or not tender offers are complete
- c) Determine whether or not tender offers are responsive
- d) Evaluate tender offers
- e) Determine if there are any grounds for disqualification
- f) Determine acceptability of preferred tenderer
- g) Prepare a tender evaluation report
- h) Confirm the recommendation contained in the tender evaluation report .

C.3.11.1 General

The employer must appoint an evaluation panel of not less than three persons conversant with the proposed scope of works to evaluate each responsive tender offer using the tender evaluation methods and associated evaluation criteria and weightings that are specified in the **Tender Data**.

C.3.12 Insurance provided by the employer

If requested by the proposed successful tenderer, submit for the tenderer's information the policies and / or certificates of insurance which the conditions of contract identified in the **Contract Data**, require the employer to provide.

C.3.13 Acceptance of tender offer

Accept the tender offer; if in the opinion of the employer, it does not present any risk and only if the tenderer:

- a) is not under restrictions, or has principals who are under restrictions, preventing participating in the employer's procurement;
- b) can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience and reputation, expertise and the personnel, to perform the contract;
- c) has the legal capacity to enter into the contract;
- d) is not; insolvent, in receivership, under Business Rescue as provided for in chapter 6 of the Companies Act No. 2008, bankrupt or being wound up, has his/her affairs administered by a court or a judicial officer, has suspended his/her business activities or is subject to legal proceedings in respect of any of the foregoing;
- e) complies with the legal requirements, if any, stated in the **Tender Data**; and
- f) is able, in the opinion of the employer, to perform the contract free of conflicts of interest.

C.3.14 Prepare contract documents

C.3.14.1 If necessary, revise documents that shall form part of the contract and that were issued by the employer as part of the tender documents to take account of:

- a) addenda issued during the tender period,
- b) inclusion of some of the returnable documents and
- c) other revisions agreed between the employer and the successful tenderer.

C.3.14.2 Complete the schedule of deviations attached to the form of offer and acceptance, if any.

C.3.15 Complete adjudicator's contract

Unless alternative arrangements have been agreed or otherwise provided for in the contract, arrange for both parties to complete formalities for appointing the selected adjudicator at the same time as the main contract is signed.

C.3.16 Registration of the award

An employer must, within twenty-one (21) working days from the date on which a contractor's offer to perform a construction works contract is accepted in writing by the employer, register and publish the award on the cidb Register of Projects.

C.3.17 Provide copies of the contracts

Provide to the successful tenderer the number of copies stated in the **Tender Data** of the signed copy of the contract as soon as possible after completion and signing of the form of offer and acceptance.

C.3.18 Provide written reasons for actions taken

Provide upon request written reasons to tenderers for any action that is taken in applying these conditions of tender but withhold information which is not in the public interest to be divulged, which is considered to prejudice the legitimate commercial interests of tenderers or might prejudice fair competition between tenderers.

T1.2.2 TENDER DATA

Each item of data given below is cross-referenced to the clause in the **Standard Conditions of Tender** to which it mainly applies.

C.1: GENERAL

C.1.1 The employer:

The Employer for this Contract is the **eThekwini Municipality** as represented by:

Deputy Head: Architecture

C.1.2 Tender documents:

The Tender Documents issued by the Employer comprise:

- 1) The Procurement Document, comprising of the PARTS as listed in the "INDEX" on page 1.
- 2) EXCEL Bill of Quantities file will be issued for ease of pricing. Tenderer is still to refer to pdf to ensure that there are no omissions.
- 3) **Drawings**, issued separately from this document, or bound in Section C3.4: "Particular Specifications".

Electronically downloaded documentation is obtainable from the National Treasury's **eTenders Website** and/ or the **eThekwini Municipality Website** at URL:

- <https://www.etenders.gov.za/>
- <https://www.durban.gov.za/pages/business/procurement>

Tenderers are to regularly check both web sites for the downloadable documentation.

C.1.4 Communication and employer's agent:

The Employer's Agent is:

Name: **Mxolisi Myeza**

Tel: **031 - 311 7856**

eMail: **Mxolisi.Myeza@durban.gov.za**

The Employer's Agent's Representative is:

Name: **Nokuthula Mokoape**

Tel: **031 – 311 7492**

eMail: **Nokuthula.Mokoape@durban.gov.za**

The Tenderer's contact details, as indicated on **Returnable Document "Compulsory Enterprise Questionnaire"**, shall be deemed as the only valid contact details for the Tenderer for use in communications between the Employer's Agent and the Tenderer during tender evaluation.

C.1.6 Procurement procedures:

The following Sections of the **Standard Conditions of Tender** are not applicable to this tender:

- **C.1.6.2: Competitive negotiation procedure**, and
- **C.1.6.3: Proposal procedure using the two-stage system**.

C.1.6.2 Procurement procedures: (NOT APPLICABLE)

The competitive negotiation procedure shall be applied. (NOT APPLICABLE)

C.2: TENDERER'S OBLIGATIONS

C.2.1 Eligibility:

Entities may only submit one (1) tender offer, either as a single tendering entity or as a partner of a joint venture. Should a tendering entity submit more than one (1) tender, **all** submissions by that tendering entity, including submissions where the entity is a partner of a joint venture, will be deemed not to be eligible.

C.2.1.1 Eligibility: General

A Tenderer will not be eligible to submit a tender if:

- (a) In the event of a Compulsory Clarification Meeting:
 - i) the Tenderer fails to attend the Compulsory Clarification Meeting, or
 - ii) the Tenderer fails to have **Returnable Document "Certificate of Attendance at Clarification Meeting / Site Inspection"** signed by the Employer's Agent or their representative at the meeting.
- (b) At the time of tender closing, the Tenderer is not registered on the **National Treasury Central Supplier Database (CSD)** and the **eThekweni Municipality Supplier Portal**. In the case of a Joint Venture, this requirement will apply individually to each party in the Joint Venture. Tenderers are to reference **Returnable Document "Compulsory Enterprise Questionnaire"** (section 1.5) and **Returnable Document "CSD Registration Report"**.
- (c) In the case of Joint Venture (JV) submissions, two or more JV entities have common directors/ shareholders or common entities tendering for the same works.
- (d) The following documentation is not completed in full, signed, and returned with the tender submission. **Failure to comply will result in the tender offer being deemed non-responsive.**
 - T2.2.1: Compulsory Enterprise Questionnaire.
 - T2.2.5: MBD 4: Declaration of Interest.
 - T2.2.6: MBD 5: Declaration for Procurement Above R10 Million.
 - T2.2.8: MBD 8: Declaration of Bidder's Past SCM Practices.
 - T2.2.9: MBD 9: Certificate of Independent Bid Determination.
 - T2.2.10: Declaration of Municipal Fees
- (e) The certificates listed in the **Tender Data: C.2.23: Certificates** are to be included with the tender submission. **Failure to comply will result in the tender offer being deemed non-responsive.**
 - T2.2.1: SARS Tax Compliance Status - PIN Issued (submitted with the Compulsory Enterprise Questionnaire).
 - T2.2.12: Central Supplier Database (CSD) Report.
 - T2.2.13: CIDB Registration and Status.

C.2.1.2 Eligibility: CIDB

Tenderers are to reference the provisions of **Tender Data: C.2.23 "Certificates**, and **Returnable Document "Verification of CIDB Registration and Status"** with respect to CIDB registration.

Only those Tenderers who are registered (as “Active”) with the CIDB (at time of tender closing), in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25(1B) or 25(7A) of the Construction Industry Development Regulations, for a **GB/EB/ME/SI** class of construction work, are eligible to have their tenders evaluated.

C.2.2.2 The cost of the tender documents:

“Documents are to be downloaded, free of charge, from the **National Treasury’s eTenders website** or the **eThekwini Municipality’s Website**.”

C.2.5 Reference documents:

Tenderers are to obtain their own copies of:

- 1) The **Conditions of Contract** identified in Section C1.2.1.1.
Tenderers/ Contractors are required to obtain their own copies.
- 2) The **Specifications** identified in Section C3.3.1.
Tenderers/ Contractors are required to obtain their own copies.
- 3) The following acts, regulations, policies, and standards referred to in this document, including but not limited to:
 - The Employer’s Supply Chain Management Policy (as at advertising date).
 - The Occupational Health and Safety Act No 85 and Amendment Act No 181 of 1993, and the Construction Regulations (2014).
 - The Construction Industry Development Board Act No 38 of 2000 and the Regulations issued in terms of the Act (July 2013 as amended).
 - The Preferential Procurement Policy Framework Act (PPPFA), and the PPPFA Regulations (November 2022).
 - The Amended Construction Sector Code (Government Gazette No.41287) applicable to B-BBEE compliance measurement.
 - CIDB Standard for Developing Skills Through Infrastructure Contracts, published in Gazette Notice No. 48491 of 28 April 2023.
 - CIDB Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts, published in Gazette Notice No. 36190 of 25 February 2013.
 - Any other eThekwini Policy documents referenced in the Tender Documents.

C.2.6 Acknowledge addenda:

Add the following paragraphs:

“Addenda will be published on the **eThekwini Municipality website** as stated in **Tender Data: C.1.2**. Tenderers are to ensure that this website is consulted for any published addenda pertaining to this tender up to three days before the tender closing time as stated in the **Tender Data**.”

“Acknowledgement of receipt of the addenda will be by the return of the relevant completed, dated, and signed portion of the addenda, to the physical or email address as specified on the addenda.”

Failure of the Tenderer to comply with the requirements of the addenda will result in the tender submission being made non-responsive.

C.2.7 Clarification meeting:

Clarification Meeting Type: [Compulsory Clarification Meeting](#)

27/07/2026

Bidders are requested to submit emailed queries related to the bid. All emailed queries are to be submitted to the **Employer's Agent's Representative** (refer to C.1.4) by **2026/08/07**. Emailed questions and answers will be consolidated and posted on the eTenders/Municipal website for the benefit of all tenderers by **2026/08/13**.

In the event of a Compulsory Clarification Meeting the Tenderer's representative(s) must be able to clearly convey the discussions at the meeting to the person(s) responsible for compiling the entity's tender offer.

If an attendance register is applicable, Tenderers must sign the attendance register and provide the name of the tendering entity.

Tenderers are referred to Clause C.2.1.1(a).

C.2.10.2 Pricing the tender offer:

The following is to be noted in terms of Tenderers being **VAT Registered**, or being a **Non-VAT Vendor** (ie. not VAT registered).

If the Tenderer is **VAT registered**, the Tenderer's Rates in the Bill of Quantities (BoQ) are to exclude VAT. VAT is to be shown separately on the BoQ summary page, and on the Form of Offer (Part C1.1.1).

If the Tenderer is a **Non-VAT Vendor**, the Tenderer's Rates in the Bill of Quantities are to include VAT. VAT is not to be shown separately on the BoQ summary page, or on the Form of Offer (Part C1.1.1). VAT will not be added to, or deducted from, rates or prices submitted from **Non-VAT Vendors**. The tendered priced will be deemed to include all VAT, taxes, and any applicable excise duties.

Tenderers are to refer to Part C2.1: PRICING ASSUMPTIONS / INSTRUCTIONS prior to pricing the tender offer.

C.2.12 Alternative tender offers:

No alternative tender offers will be considered.

C.2.13 Submitting a tender offer:

The signed Tender Offer ("hard copy") is to be sealed in an envelope, addressed to the City Manager, marked with the **identification details** and be delivered to the **delivery address**, both as stated below.

The **Tender Offer** (hard copy) is to be delivered to the following **delivery address**:
[the Tender Box in the foyer of the Municipal Building, 166 KE Masinga Road, Durban](#)

Identification details to be shown on the hard copy package are:

- Contract No. : **36585-1B**
- Contract Title : Integrated Infrastructure Maintenance And Construction For Buildings, Facilities and Engineering Systems Works For 36 Months.

Tender Offers are also to be **SUBMITTED ELECTRONICALLY** (uploaded) on the eThekweni Municipality **JDE System** (Supplier Self Service (ESP Module)). For information pertaining to the

JDE System, Tenderers are referred to **Section T1.1.2**.

Notwithstanding the **electronic submission**, a tender offer will only be deemed valid if the “hard copy” submission has been made. The “hard copy” submission will be the governing submission.

The Tender documentation, issued by the eThekweni Municipality (refer to **Tender Data: C.1.2**), is to be printed in its entirety. Printing should be done on white A4 paper, with printing on only one side of the paper. (It is suggested that the Tender documentation is not stapled, or punched for filing, prior to scanning, as this could affect the scanning process.)

After completion and signature (using **BLACK INK**), the entire Tender document is to be scanned to a single PDF (**P**ortable **D**ocument **F**ormat) document, at a resolution of 300 DPI (dots per inch). The PDF document is to be uploaded via the (Tender specific) upload option on the JDE System (ESP Module). Tenderers are responsible for resolving all access rights and submission queries on the JDE System before the tender closing date/ time (**Tender Data: C.2.15**).

Tender Offer delivery, and the electronic submission on the JDE System, are both to be completed on or before the closing date/ time stated in the **Tender Data: C.2.15**.

The submission of Tender Offers via any means other than that stated above will not be accepted, and those that are will be deemed invalid.

C.2.15 Closing date and time:

The closing time is:

- **Date : Friday, 21 August 2026**
- **Time : 11h00**

The **delivery of the hard copy AND** the completion of the requirements on the **JDE System (ESP Module)** are to be completed prior to the Tender **closing date and time** as stated above. Any Tender Offer submitted thereafter will not be considered.

C.2.16 Tender offer validity:

The Tender Offer validity period is **120 Days** (original validity period) from the closing date for submission of tenders.

In terms of the SCM Policy (Cl.21.2) tenders must remain valid for acceptance for a period of twelve (12) months after the expiry of the original validity period, unless the Municipality is notified in writing of anything to the contrary by the tenderer.

The eThekweni Municipality reserves the right to request confirmation from Tenderers of tender validity at any time during the twelve (12) month period.

C.2.23 Certificates:

Refer to **T2.1: “List of Returnable Documents”** for a listing of certificates that must be provided with the tender. All certificates must be valid at the time of tender closing.

Tenderers are to include a printout of the required documents/ certificates at the back of their tender submission.

1) SARS Tax Compliance Status – PIN Issued

Reference is to be made to **Returnable Document “Compulsory Enterprise Questionnaire”** which requires the “SARS Tax Compliance Status – PIN Issued” to be included with this returnable document.

2) Central Supplier Database (CSD)

Reference is to be made to **Returnable Document “CSD Registration Report”**.

The entities **CSD Registration Report**, obtained from the National Treasury Central Supplier Database (CSD), is to be included in the tender submission (<https://secure.csd.gov.za>).

Separate **CSD Registration Reports** are required for each party to a Joint Venture.

The date of obtaining the CSD printout is to be indicated on the printout and should be on or after the date of advertising of this tender.

3) CIDB Registration (if applicable)

Reference is to be made to **Returnable Document “Verification of CIDB Registration and Status”**.

Tenderers are to include with their submission a printout of their **CIDB Registration**, obtained from the CIDB website (<https://portal.cidb.org.za/RegisterOfContractors/>).

Separate **CIDB Registration printouts** are required for each party to a Joint Venture.

The **Joint Venture Grading Designation Calculator** printout should be included when making a submission as a Joint Venture:

(<https://registers.cidb.org.za/PublicContractors/JVGradingDesignationCalc>)

The date of obtaining the CIDB printout(s) is to be indicated on the printout and should be on or after the date of advertising of this tender. The Tenderer’s registration with the CIDB must be reflected as “Active” as at the date of tender closing.

Failure to comply with 1), 2), and 3) above will result in the tender offer being deemed non-responsive.

4) B-BBEE Status Level of Contribution Certificate

Tenderers are referred to **Returnable Document “MBD 6.1: Preference Points Claim”** for the B-BBEE Certificate requirements. **Notwithstanding the completion of Returnable Document “MBD 6.1: Preference Points Claim”, should a B-BBEE Status Level of Contribution Certificate not be returned no points for Preferential Procurement will be deemed to have been claimed.**

Any B-BBEE Certificate where the entity has been assessed using Generic Codes will not be accepted.

C.3: THE EMPLOYER'S UNDERTAKINGS

C.3.1.1 Respond to requests from the tenderer:

Replace the words “five working days” with “three working days”.

C.3.2 Issue addenda:

Add the following paragraph:

“Addenda will be published on the National Treasury’s **eTenders-Website** and/ or the **eThekwini Municipality Website**.” (Refer to **Tender Data: C.1.2**).

C.3.4 Opening of Tender Submissions:

Tenders will be opened immediately after the closing time for tenders. The public reading of tenders will take place in the P&SCM Boardroom, 6th Floor, (Municipal Building), 166 KE Masinga Road, Durban.

The tender opening schedule will also be made available on the eThekwini Municipal website at URL: <https://www.durban.gov.za/pages/business/publication-of-received-bids>

C.3.9 Arithmetical errors, omissions and discrepancies:

Add the following Clause:

“C.3.9.5 Reject a tender offer if the Tenderer does not accept the correction of the arithmetical error in the manner described in C.3.9.4.”

Any interactions between the Tenderer and the Employer in terms of this clause will be conducted through the Employer’s Agent (or Representative) as identified in **Tender Data C.1.4**.

C.3.11 Evaluation of Tender Offers:

Eligibility

Tenders will be checked for compliance with the ELIGIBILITY requirements, as specified in the **Tender Data: C.2.1**. Tenders not in compliance will be deemed non-responsive.

Functionality

FUNCTIONALITY will be used in the evaluation of tenders.

FUNCTIONALITY will be evaluated to determine the responsiveness of tenders received. The minimum score for FUNCTIONALITY is **60** points. Those tenders not achieving the minimum score will be deemed non-responsive.

The functionality Criteria, Sub-Criteria, Points per Criteria/ Sub-Criteria, Returnable Documentation and Schedules, Method of Evaluation, and Prompts for Judgement are as specified in **Part T1.2.3: Additional Conditions of Tender**.

Preference Point System

The procedure for the evaluation of responsive tenders is **PRICE AND PREFERENCE**, in accordance with the Employer’s **SCM Policy: Section 52: Preferential Procurement**.

The **80/20** preference points system, for requirements with a Rand value of up to R50,000,000 (all applicable taxes included), will be applied. The Formula used to calculate the **Price Points (max. 80)** will be according to that specified below.

The **90/10** preference points system, for requirements with a Rand value above R50,000,000 (all applicable taxes included), will be applied. The Formula used to calculate the **Price Points (max. 90)** will be according to that specified below.

It is unclear (at the time of advertising) which of the two preference point systems applies, either the **80/20 or 90/10** preference point system will apply, determined by the price offered by the lowest acceptable tender.

Price Points

The financial offer will be reduced to a comparative basis using the **Tender Assessment Schedule**.

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20 Procurement System

or

90/10 Procurement System

$$P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

$$P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

Where: Ps = Points scored for comparative price of bid under consideration
Pt = Comparative price of bid under consideration
Pmin = Comparative price of lowest acceptable bid

Preference Points

Reference is to be made to **Returnable Form: MBD 6.1: Preference Points Claim**.

Broad-Based Black Economic Empowerment (SCM Policy Section 52.5)

The provisions of the SCM Policy: **Section 52.5: Broad-Based Black Economic Empowerment** shall apply. Reference is to be made to **Returnable Form: MBD 6.1: Preference Points Claim**.

Preference Points will be derived from points claimed for their B-BBEE Status Level of Contributor, as indicated on their B-BBEE Status Level Verification Certificates, on **Returnable Form: T2.2.6: MBD 6.1**, in accordance with the table below.

80/20 Preference Points System (maximum Preference Points: 20)				
B-BBEE Level Contributor	Preference Points		B-BBEE Level Contributor	Preference Points
1	20		5	8
2	18		6	6
3	14		7	4
4	12		8	2
Non-Compliant: 0				

90/10 Preference Points System (maximum Preference Points: 10)				
B-BBEE Level Contributor	Preference Points		B-BBEE Level Contributor	Preference Points
1	10		5	4
2	9		6	3
3	7		7	2
4	6		8	1
Non-Compliant: 0				

C.3.13 Acceptance of tender offer:

In addition to the requirements of **Tender Data: C.3.13** of the **Standard Conditions of Tender**, tender offers will only be accepted if:

- (a) The Tenderer's municipal rates and taxes are not in arrears, or they have made arrangements to meet outstanding municipal fee obligations.
- (b) The Tenderer's tax compliance status has been verified, or they have made arrangements to meet outstanding tax obligations.
- (c) If applicable, the Tenderer is **registered**, and "**Active**", with the **Construction Industry Development Board** in an appropriate contractor grading designation.
- (d) The Tenderer or any of its directors/ shareholders are **not listed on the Register of Tender Defaulters**, in terms of the Prevention and Combating of Corrupt Activities Act of 2004, as a person prohibited from doing business with the public sector.
- (e) The Tenderer has not:
 - i) Abused the Employer's Supply Chain Management System; or
 - ii) Failed to perform on any previous contract and has been given a written notice to this effect.
- (f) The Employer is reasonably satisfied that the Tenderer has in terms of the Construction Regulations (2014), issued in terms of the Occupational Health and Safety Act (1993), the **necessary competencies and resources to carry out the work safely**.
- (g) Will not accept rates for Bills of Quantities where tenderer has not selected the class of work as per the Notes to Tenderer's 11) CIDB Work Classification Selection.

The Municipality does not bind itself to accept the lowest, unrealistic, non-market related tender offers. It reserves the right to accept the whole or any part of a tender to place orders. Bidders shall not bind the Municipality to any minimum quantity per order. The successful Tenderer(s) shall be bound to provide any quantities stipulated in the specification.

The municipality has a firm intention to proceed with the work, subject to funding being identified. Notwithstanding the **Standard Conditions of Tender: C.1.1.3** of, the municipality reserves the right to award or not award the tender based on the municipalities available budget.

C.3.15 Complete adjudicator's contract:

Refer to the **Conditions of Contract** and the **Contract Data**.

C.3.17 Copies of contract:

The number of paper copies of the signed contract to be provided by the Employer is **ONE (1)**.
Tenderers are referred to the requirements as stated in the **Tender Data: C.2.13**.

T1.2.3 ADDITIONAL CONDITIONS OF TENDER

T1.2.3.1 Complaints and Objections (Appeals)

Reference is to be made to Clause 49 of the eThekweni Supply Chain Management Policy.

In terms of Section 49 of the EtheKwini SCM Policy any person aggrieved by decisions taken in the implementation of the SCM System may lodge, within 14 days of notification thereof, a written objection against the decision. The objection with regard to the decision is to be directed to:

The City Manager
Attention Ms S. Pillay eMail: Simone.Pillay@durban.gov.za
P O Box 1394
DURBAN
4000

Any objection will only be processed upon receipt of a non-refundable administration fee of **R1,814.00** (including VAT), as stipulated in the Municipality's current SCM Policy. An objection will only be considered upon receipt of proof of payment of this fee which must be paid into the following bank account as a real-time payment:

EThekweni Metropolitan Municipality
First National Bank (FNB)
Account Number: 631-6574-6331
Reference Number: **36585-1B**

T1.2.3.2 Prohibition on awards to persons in the service of the state

Clause 44 of the Supply Chain Management Regulations states that the Municipality or Municipal Entity may not make any award to a person:

- (a) Who is in the service of the State;
- (b) If that person is not a natural person, of which a director, manager, principal shareholder or stakeholder is a person in the service of the state; or
- (c) Who is an advisor or consultant contracted with the municipality or a municipal entity.

Should a contract be awarded, and it is subsequently established that Clause 44 has been breached, the Employer shall have the right to terminate the contract with immediate effect.

T1.2.3.3 Code of Conduct and Local Labour

The Tenderers shall make themselves familiar with the requirements of the following policies:

- Code of Conduct;
- The Use of CLOs and Local Labour.

T1.2.3.4 Functionality Specification

Functionality Evaluation is applicable to this tender.

The following data (C.3.11.9) is used by Architecture Division.

The value of W_2 is 100. The Functionality criteria (and sub criteria if applicable) and maximum score in respect of each of the criteria are as follows:

Grading 3GB

Functionality Criteria / Sub Criteria for 3GB		Maximum Points Score
Experience of Tenderer's past projects		50
Project Organogram and Experience of Key Staff	Contracts Manager	20
	Site Agent	15
	Foremen	5
Construction Methodology & Quality Control		10
Maximum possible score for Functionality (M_s)		100

Grading 4GB to 6GB

Functionality Criteria / Sub Criteria for 4 to 6GB		Maximum Points Score
Experience of Tenderer's past projects		40
Project Organogram and Experience of Key Staff	Contracts Manager	20
	Site Agent/Project Manager	15
	Foremen	5
	Quantity Surveyor	10
Construction Methodology & Quality Control		10
Maximum possible score for Functionality (M_s)		100

Grading 7GB to 9GB

Functionality Criteria / Sub Criteria for 7 to 9GB		Maximum Points Score
Experience of Tenderer's past projects		25
Project Organogram and Experience of Key Staff	Contracts Manager	20
	Site Agent/Project Manager	15
	Foremen	5
	Quantity Surveyor	10
Construction Methodology & Quality Control		10
Submission and provision of a valid ISO9001 accreditation certificate.		15
Maximum possible score for Functionality (M_s)		100

Grading 3EB

Functionality Criteria / Sub Criteria for 3EB		Maximum Points Score
Experience of Tenderer's past projects		40
Project Organogram and Experience of Key Staff	Contracts Manager	20
	Master Installation Electrician registered with Department of Labour	15
	Registered Installation Electrician registered with Department of Labour	10
	Trade Tested Electrical Artisan	5
Construction Methodology & Quality Control		10
Maximum possible score for Functionality (M_s)		100

Grading 4EB to 6EB

Functionality Criteria / Sub Criteria for 4EB to 6EB		Maximum Points Score
Experience of Tenderer's past projects		40
Project Organogram and Experience of Key Staff	Contracts Manager	20
	Master Installation Electrician registered with Department of Labour	15
	Registered Installation Electrician registered with Department of Labour	10
	Trade Tested Electrical Artisan	5
Construction Methodology & Quality Control		10
Maximum possible score for Functionality (M_s)		100

Grading 7EB to 9EB

Functionality Criteria / Sub Criteria for 7EB to 9EB		Maximum Points Score
Experience of Tenderer's past projects		25
Project Organogram and Experience of Key Staff	Contracts Manager	20
	Master Installation Electrician registered with Department of Labour	15
	Registered Installation Electrician registered with Department of Labour	10
	Trade Tested Electrical Artisan	5
Construction Methodology & Quality Control		10
Submission and provision of a valid ISO9001 accreditation certificate.		15
Maximum possible score for Functionality (M_s)		100

Grading 3ME

Functionality Criteria / Sub Criteria for 3ME		Maximum Points Score
Experience of Tenderer's past projects		40
Project Organogram and Experience of Key Staff	Contracts Manager	20
	Traded Tested Refrigeration Mechanician/Mechanic (Commercial/Industrial) registered with SAQCC Gas and the SARACCA under the Category B: B6 or B8	20
	Refrigeration Trade Tested Artisan	10
Construction Methodology & Quality Control		10
Maximum possible score for Functionality (M_s)		100

Grading 4ME to 6ME

Functionality Criteria / Sub Criteria for 4ME to 6ME		Maximum Points Score
Experience of Tenderer's past projects		40
Project Organogram and Experience of Key Staff	Contracts Manager	20
	Traded Tested Refrigeration Mechanician/Mechanic (Commercial/Industrial) registered with SAQCC Gas and the SARACCA under the Category B: B6 or B8	20
	Refrigeration Trade Tested Artisan	10
Construction Methodology & Quality Control		10
Maximum possible score for Functionality (M_s)		100

Grading 7ME to 9ME

Functionality Criteria / Sub Criteria for ME		Maximum Points Score
Experience of Tenderer's past projects		25
Project Organogram and Experience of Key Staff	Contracts Manager	20
	Traded Tested Refrigeration Mechanician/Mechanic (Commercial/Industrial) registered with SAQCC Gas under the Category B: B6 or B8	20
	Refrigeration Trade Tested Artisan	10
Construction Methodology & Quality Control		10
Submission and provision of a valid ISO9001 accreditation certificate.		15
Maximum possible score for Functionality (M_s)		100

Grading 4SI and above

Functionality Criteria / Sub Criteria for SI		Maximum Points Score
Experience of Tenderer's past projects		40
Project Organogram and Experience of Key Staff	Contracts Manager	20
	Field Engineer	20
	Lift Technician/ Artisan	10
Construction Methodology & Quality Control		10
Maximum possible score for Functionality (M_s)		100

The minimum number of evaluation points for Functionality is **60**. Only those Tenderers who achieve the minimum number of Functionality evaluation points (or greater) will be eligible to have their tenders further evaluated.

Functionality shall be scored by not less than three evaluators and the scores of each of the evaluators will be averaged, weighted and then totalled to obtain the final score for Functionality. Each evaluation criteria will be assessed in terms of six indicators and scores allocated according to the following table:

Level 0	Level 1	Level 2	Level 3	Level 4	Level 5
0	20	40	60	80	100

Evaluation criteria will be adjudicated according to submissions made in accordance with the following schedules, which are found in T2.2: Returnable Schedules:

Functionality Criteria	Returnable Schedules
Experience of Tenderer's Past Projects	Experience of Tenderer
Proposed Organization and Experience of Key Staff	- Proposed Organization and Staffing - Key Personnel - CVs with Experience of Key Personnel
Construction Methodology & Quality Control	Construction Methodology & Quality Control and
For grade 7 to 9, provision of a valid ISO9001 accreditation certificate	ISO9001 accreditation certificate for grades 7 to 9

Unless otherwise stated, evaluation criteria will be adjudicated with respect to the contract specific Scope of Work, as specified in C.3. In this regard the following definitions apply to the evaluation criteria prompts for judgement:

- **“successfully completed”** implies a project has been completed on time and to specification;
- **“similar nature”** implies projects are of a value of at least 50% of tenderer's **upper** limit CIDB grading;
- **“experience”** implies experience on projects of a similar nature;
- **“accredited degree / diploma”** implies a minimum 3 year qualification within the built environment, from a registered University or Institute of Technology.

GB Criterion: Tenderer's Experience	
Notes: Projects of a “Similar Nature” are defined as a project with comparable scope of work in terms of technical requirements and operations	
“Successfully completed” implies a project that has been completed on time and to specification	
Note: Projects which are submitted without Letter of Award and Signed Final Completion Certificates, Signed Final Payment Certificate, at Tender, will not be considered	
Level 0	No information provided; OR submission of no substance / irrelevant information provided
Level 1	To have successfully completed <u>2 project</u> of a similar nature within the past 10 years.
Level 2	To have successfully completed <u>3 projects</u> of a similar nature within the past 10 years.
Level 3	To have successfully completed (i.e. on time and to specification) <u>6 projects</u> of a similar nature within the past 10 years.
Level 4	To have successfully completed (i.e. on time and to specification) <u>9 projects</u> of a similar nature within the past 10 years.
Level 5	To have successfully completed (i.e. on time and to specification) <u>10 + projects</u> of a similar nature within the past 10 years.

For this specific framework contract, projects of a similar nature are as follows:

- Offices, Libraries, Museums, Art Galleries, Taxi ranks, Fire stations, Schools, Multi-level residential developments, Clinics, Hospitals, Laboratories, Multi-purpose buildings, Halls, Malls, Shopping Centres, Warehouses, Auto-hubs, Showrooms, guardhouses, ablution facilities, social housing developments, electrical sub-stations, etc.
- Projects of Similar nature will be considered for projects which fall under general building (new builds, alterations and additions, renovations to heritage facilities), which comprise of scopes of work including but not limited to; earthworks and foundation, brickwork, concrete, formwork, structural steelwork, shopfronts, glazing, multi-storey construction, electrical installation and reticulation, mechanical installation and reticulation.
- Excluding RDP housing developments only.

Criterion: Project Organogram and Experience of Key Staff			
Note: Projects of a similar nature that will be considered shall be as follows: - Offices, Libraries, Museums, Art Galleries, Taxi ranks, Fire stations, Schools, Multi-level residential developments, Clinics, Hospitals, Laboratories, Multi-purpose buildings, Halls, Malls, Shopping Centres, Warehouses, Auto-hubs, Showrooms, guardhouses, ablution facilities, social housing developments, electrical sub-stations, etc. - Projects of Similar nature will be considered for projects which fall under general building, which comprise of scopes of work including but not limited to; earthworks and foundation, brickwork, concrete, formwork, structural steelwork, shopfronts, glazing, multi-storey construction, electrical installation and reticulation, mechanical installation and reticulation. - Excluding RDP housing developments only.			
	CONTRACTS MANAGER	SITE AGENT	FOREMAN
Level 0	No information provided OR submission of no substance / irrelevant information provided	No information provided OR submission of no substance / irrelevant information provided	No information provided OR submission of no substance / irrelevant information provided
Level 1	Contracts Manager: relevant accredited diploma/degree and 1 year relevant experience on a project of a similar nature.	Site Agent: relevant accredited diploma/degree and 1 year relevant experience on a project of a similar nature.	Foreman: minimum 1 year's relevant experience on projects of a similar nature.
Level 2	Contracts Manager: a relevant accredited diploma/degree and 2 years relevant experience on projects of a similar nature.	Site Agent: a relevant accredited diploma/degree and 2 year's relevant experience on projects of a similar nature.	Foreman: minimum 2 years relevant experience on projects of a similar nature.
Level 3	Contracts Manager: a relevant accredited diploma/degree and 4 years relevant experience on projects of a similar nature.	Site Agent: a relevant accredited diploma/degree and 4 year's relevant experience on projects of a similar nature.	Foreman: minimum 4 years relevant experience on projects of a similar nature.
Level 4	Contracts Manager: a relevant accredited diploma/degree and minimum 7 years relevant experience on projects of a similar nature.	Site Agent : a relevant accredited diploma/degree and minimum 7 year's relevant experience on projects of a similar nature.	Foreman: minimum 7 years relevant experience on projects of a similar nature and value.
Level 5	Contracts Manager: a relevant accredited diploma/degree and minimum 9 years relevant experience on projects of a similar nature.	Site Agent: a relevant accredited diploma/degree and minimum 9 years relevant experience on projects of a similar nature.	Foreman: minimum 9 years relevant experience on projects of a similar nature and value.

For this specific framework contract, qualification and projects of a similar nature are as follows:

- The qualification must be SAQA accredited.
 - The number of years deemed as relevant experience must be reflected on the CV and the projects listed must indicate the duration.

Unless otherwise stated, evaluation criteria will be adjudicated with respect to the contract specific Scope of Work, as specified in C.3. In this regard the following definitions apply to the evaluation criteria prompts for judgement:

- **“successfully completed”** implies a project has been completed on time and to specification;
- **“similar nature”** implies projects are of a value of at least 50% of tender upper limit CIDB grading;
- **“experience”** implies experience on projects of a similar nature;
- **“accredited degree / diploma”** implies a minimum 3 year qualification within the built environment, from a registered University or Institute of Technology.

EB Criterion: Tenderer’s Experience	
Notes: Projects of a “Similar Nature” are defined as a project with comparable scope of work in terms of technical requirements and operations	
“Successfully completed” implies a project that has been completed on time and to specification	
Note: Projects which are submitted without Letter of Award and Signed Final Completion Certificates, Signed Final Payment Certificate, at Tender, will not be considered	
“Similar nature” refers to works pertaining to <u>Electrical Building Services</u>	
Level 0	No information provided; OR submission of no substance / irrelevant information provided
Level 1	To have successfully completed <u>2 project</u> of a similar nature within the past 10 years.
Level 2	To have successfully completed <u>3 projects</u> of a similar nature within the past 10 years.
Level 3	To have successfully completed (i.e. on time and to specification) <u>6 projects</u> of a similar nature within the past 10 years.
Level 4	To have successfully completed (i.e. on time and to specification) <u>9 projects</u> of a similar nature within the past 10 years.
Level 5	To have successfully completed (i.e. on time and to specification) <u>10 + projects</u> of a similar nature within the past 10 years.

For this specific project, projects of a similar nature are as follows:

- Low Voltage electrical systems ($\leq 1000V$). The systems to be considered during evaluation are, but not limited to, Electrical Distribution boards, panels, enclosures, switchgear, standby generator, uninterrupted power, system luminaires, lamps, trenching, cabling and cable accessories, wiring, wireways, light switches, switched socket outlets, power points, power-skirting, geyser spares, hydroboils, fans, hand dryers, photovoltaic, charge controllers, DC cabling, inverters, batteries, earthing and lightning protection systems and devices, sensors, energy efficiency, demand side management and etc.
- The above-mentioned systems, in terms of the scope, entails the maintenance repairs, minor alterations, electrical installation systems and improvements as well as breakdown callouts usually outside of normal working hours.

EB Criterion: Project Organogram and Experience of Key Staff

“Similar nature” refers to works pertaining Electrical Building Services

Low Voltage electrical systems ($\leq 1000V$). The systems to be considered during evaluation are, but not limited to, Electrical Distribution boards, panels, enclosures, switchgear, standby generator, uninterrupted power, system luminaires, lamps, trenching, cabling and cable accessories, wiring, wireways, light switches, switched socket outlets, power points, power-skirting, geyser spares, hydro boils, fans, hand dryers, photovoltaic, charge controllers, DC cabling, inverters, batteries, earthing and lightning protection systems and devices, sensors, energy efficiency, demand side management and etc.

The above-mentioned systems, in terms of the scope, entail maintenance repairs, minor alterations, electrical installation systems and improvements as well as breakdown callouts usually outside of normal working hours.

	CONTRACTS MANAGER	REGISTERED INSTALLATION ELECTRICIAN	TRADE TESTED ARTISAN
Level 0	No information provided OR submission of no substance / irrelevant information provided	No information provided OR submission of no substance / irrelevant information provided	No information provided OR submission of no substance / irrelevant information provided
Level 1	Contracts Manager: relevant accredited diploma/degree and 1 year relevant experience on a project of a similar nature.	Registered Installation Electrician: NTC 3 / Matric, Registered with Department of labour and minimum 1-year post certificate relevant experience on projects of a similar nature	Trade Tested Artisan: NTC 3 / Matric, Trade test certificate and minimum 1-year post certificate relevant experience on projects of a similar nature
Level 2	Contracts Manager: a relevant accredited diploma/degree and 2 years relevant experience on projects of a similar nature.	Registered Installation Electrician: NTC 3 / Matric, Registered with Department of labour and minimum 2 years post certificate relevant experience on projects of a similar nature	Trade Tested Artisan: NTC 3 / Matric, Trade test certificate and minimum 2 years post certificate relevant experience on projects of a similar nature
Level 3	Contracts Manager: a relevant accredited diploma/degree and 4 years relevant experience on projects of a similar nature.	Registered Installation Electrician: NTC 3 / Matric, Registered with Department of labour and minimum 4 years post certificate relevant experience on projects of a similar nature	Trade Tested Artisan: NTC 3 / Matric, Trade test certificate and minimum 4 years relevant experience on projects of a similar nature
Level 4	Contracts Manager: a relevant accredited diploma/degree and minimum 7 years relevant experience on projects of a similar nature.	Registered Installation Electrician: NTC 3 / Matric, Registered with Department of labour and minimum 7 years post certificate relevant experience on projects of a similar nature and value	Trade Tested Artisan: NTC 3 / Matric, Trade test certificate and minimum 7 years post certificate relevant experience on projects of a similar nature and value
Level 5	Contracts Manager: a relevant accredited diploma/degree and minimum 9 years relevant experience on projects of a similar nature.	Registered Installation Electrician: NTC 3 / Matric, Registered with Department of labour and minimum 9 years or higher post certificate relevant experience on projects of a similar nature and value	Trade Tested Artisan: NTC 3 / Matric, Trade test certificate and minimum 9 years or higher post certificate relevant experience on projects of a similar nature and value

For this specific framework contract, qualification and projects of a similar nature are as follows:

- The trade test certificated must be Quality Control for Trades and Occupations (QCTO) accredited.
- The number of years deemed as relevant experience must be reflected on the CV and the projects listed must indicate the duration.

Unless otherwise stated, evaluation criteria will be adjudicated with respect to the contract specific Scope of Work, as specified in C.3. In this regard the following definitions apply to the evaluation criteria prompts for judgement:

- **“successfully completed”** implies a project has been completed on time and to specification;
- **“similar nature”** implies projects are of a value of at least 50% of tender upper limit CIDB respective grading;
- **“experience”** implies experience on projects of a similar nature;
- **“accredited degree / diploma”** implies a minimum 3 year qualification within the built environment, from a registered University or Institute of Technology

ME Criterion: Tenderer’s Experience	
Notes: Projects of a “Similar Nature” are defined as a project with comparable scope of work in terms of technical requirements and operations	
“Successfully completed” implies a project that has been completed on time and to specification	
Note: Projects which are submitted without Letter of Award and Signed Final Completion Certificates, Signed Final Payment Certificate, at Tender, will not be considered	
Level 0	No information provided; OR submission of no substance / irrelevant information provided
Level 1	To have successfully completed <u>2 project</u> of a similar nature within the past 10 years.
Level 2	To have successfully completed <u>3 projects</u> of a similar nature within the past 10 years.
Level 3	To have successfully completed (i.e. on time and to specification) <u>6 projects</u> of a similar nature within the past 10 years.
Level 4	To have successfully completed (i.e. on time and to specification) <u>9 projects</u> of a similar nature within the past 10 years.
Level 5	To have successfully completed (i.e. on time and to specification) <u>10 + projects</u> of a similar nature within the past 10 years.

For this specific project, projects of a similar nature are as follows:

Supply or Installation or Servicing or Repair or Retrofitting or Maintenance of HVAC&R equipment/systems including:

- Split air-conditioning
- Variable Refrigerant Flow (VRF/V) systems
- Roof-Top’s
- Ducted air conditioning
- Air-Cooled, water Cooled
- Air chiller
- Water chiller
- Fan coil
- Close Control
- Cold rooms
- Refrigeration systems or forced ventilation systems.

ME Criterion: Project Organogram and Experience of Key Staff

“Similar nature” refers to works pertaining Mechanical Building Services

Projects of a similar nature that will be considered shall be the Supply or Installation or Servicing or Repair or Retrofitting or Maintenance of HVAC&R equipment/systems including split air-conditioning units, VRV's, VRF'S, Roof-Top's, Ducted air conditioning, Air-Cooled, Water Cooled, Air chiller, Water chiller, Fan coil, Close Control, Cold rooms, Refrigeration systems or forced ventilation systems.

Work of a similar nature that will be considered shall be undertaking tasks, roles and/or activities on air-conditioning or refrigeration systems, including systems listed under projects of a similar nature.

	CONTRACTS MANAGER	REFRIGERATION MECHANICIAN / MECHANIC (COMMERCIAL/INDUSTRIAL)	ASSISTANT ARTISAN
Level 0	No information provided OR submission of no substance / irrelevant information provided	No information provided OR submission of no substance / irrelevant information provided	No information provided OR submission of no substance / irrelevant information provided
Level 1	Contracts Manager: relevant accredited diploma/degree and 1 year relevant experience on a project of a similar nature.	Refrigeration Mechanician/Mechanic: Refrigeration Mechanician/Mechanic Trade test certificate, active SAQCC B6/B8 gas licence <u>and</u> minimum 1 years post trade test experience on projects or work of a similar nature.	Assistance Artisan: Active SAQCC A/B gas licence, <u>and</u> minimum 1 years' experience on projects or work of a similar nature.
Level 2	Contracts Manager: a relevant accredited diploma/degree and 2 years relevant experience on projects of a similar nature.	Refrigeration Mechanician/Mechanic: Refrigeration Mechanician/Mechanic Trade test certificate, active SAQCC B6/B8 gas licence <u>and</u> minimum 2 years post trade test experience on projects or work of a similar nature.	Assistance Artisan: Active SAQCC A/B gas licence, <u>and</u> minimum 2 years' experience on projects or work of a similar nature
Level 3	Contracts Manager: a relevant accredited diploma/degree and 4 years relevant experience on projects of a similar nature.	Refrigeration Mechanician/Mechanic: Refrigeration Mechanician/Mechanic Trade test certificate, active SAQCC B6/B8 gas licence <u>and</u> minimum 4 years post trade test experience on projects or work of a similar nature.	Assistance Artisan: Active SAQCC A/B gas licence, <u>and</u> minimum 4 years' experience on projects or work of a similar nature
Level 4	Contracts Manager: a relevant accredited diploma/degree and minimum 7 years relevant experience on projects of a similar nature.	Refrigeration Mechanician/Mechanic: Refrigeration Mechanician/Mechanic Trade test certificate, active SAQCC B6/B8 gas licence <u>and</u> minimum 7 years post trade test experience on projects or work of a similar nature.	Assistance Artisan: Active SAQCC A/B gas licence, <u>and</u> minimum 7 years' experience on projects or work of a similar nature
Level 5	Contracts Manager: a relevant accredited diploma/degree and minimum 9 years relevant experience on projects of a similar nature.	Refrigeration Mechanician/Mechanic: Refrigeration Mechanician/Mechanic Trade test certificate, active SAQCC B6/B8 gas licence <u>and</u> minimum 9 years post trade test experience on projects or work of a similar nature.	Assistance Artisan: Active SAQCC A/B gas licence, <u>and</u> minimum 9 years' experience on projects or work of a similar nature

For this specific framework contract, qualification and projects of a similar nature are as follows:

- The trade test certificated must be Quality Control for Trades and Occupations (QCTO) accredited.
- The number of years deemed as relevant experience must be reflected on the CV and the projects listed must indicate the duration.

Unless otherwise stated, evaluation criteria will be adjudicated with respect to the contract specific Scope of Work, as specified in C.3. In this regard the following definitions apply to the evaluation criteria prompts for judgement:

- **“successfully completed”** implies a project has been completed on time and to specification;
- **“similar nature”** implies projects are of a value of at least 50% of tender upper limit CIDB respective grading;
- **“experience”** implies experience on projects of a similar nature;
- **“accredited degree / diploma”** implies a minimum 3 year qualification within the built environment, from a registered University or Institute of Technology

SI Criterion: Tenderer’s Experience	
Notes: Projects of a “Similar Nature” are defined as a project with comparable scope of work in terms of technical requirements and operations	
“Successfully completed” implies a project that has been completed on time and to specification	
Note: Projects which are submitted without Letter of Award and Signed Final Completion Certificates, Signed Final Payment Certificate, at Tender, will not be considered	
Level 0	No information provided; OR submission of no substance / irrelevant information provided
Level 1	To have successfully completed <u>2 project</u> of a similar nature within the past 10 years.
Level 2	To have successfully completed <u>3 projects</u> of a similar nature within the past 10 years.
Level 3	To have successfully completed (i.e. on time and to specification) <u>6 projects</u> of a similar nature within the past 10 years.
Level 4	To have successfully completed (i.e. on time and to specification) <u>9 projects</u> of a similar nature within the past 10 years.
Level 5	To have successfully completed (i.e. on time and to specification) <u>10 + projects</u> of a similar nature within the past 10 years.

For this specific project, projects of a similar nature are as follows:

Projects, or work of a similar nature that will be considered shall be projects, or work, or experience that involves the maintenance, or servicing, or repairs, or installation of lifts.

SI Criterion: Project Organogram and Experience of Key Staff “Similar nature” refers to works pertaining Mechanical Building Services Projects, or work of a similar nature that will be considered shall be projects, or work, or experience that involves the maintenance, or servicing, or repairs, or installation of lifts.			
	CONTRACTS MANAGER	FIELD ENGINEER	LIFT TECHNICIAN
Level 0	No information provided OR submission of no substance / irrelevant information provided	No information provided OR submission of no substance / irrelevant information provided	No information provided OR submission of no substance / irrelevant information provided
Level 1	Contracts Manager: relevant accredited diploma/degree and 1 year relevant experience on a project of a similar nature.	Field Engineer (LI): relevant accredited engineering qualification, Registered with ECSA as a Lifting Inspector and 1-year post registration relevant experience on projects/work of a similar nature.	Lift Technician/ Artisan: must have relevant accredited trade test certificate, and a minimum 1 year post qualification trade test experience on projects/work of a similar nature.
Level 2	Contracts Manager: a relevant accredited diploma/degree and 2 years relevant experience on projects of a similar nature.	Field Engineer (LI): relevant accredited engineering qualification, Registered with ECSA as a Lifting Inspector and 2-years post registration relevant experience projects/work of a similar nature.	Lift Technician/ Artisan: must have relevant accredited trade test certificate, and a minimum 2-years post qualification trade test experience on projects/work of a similar nature.
Level 3	Contracts Manager: a relevant accredited diploma/degree and 4 years relevant experience on projects of a similar nature.	Field Engineer (LI): relevant accredited engineering qualification, Registered with ECSA as a Lifting Inspector and 4-years post registration relevant experience projects/work of a similar nature.	Lift Technician/ Artisan: must have relevant accredited trade test certificate, and a minimum 4-years post qualification trade test experience on projects/work of a similar nature.
Level 4	Contracts Manager: a relevant accredited diploma/degree and minimum 7 years relevant experience on projects of a similar nature.	Field Engineer (LI): relevant accredited engineering qualification, Registered with ECSA as a Lifting Inspector and 7-years post registration relevant experience projects/work of a similar nature.	Lift Technician/ Artisan: must have relevant accredited trade test certificate, and a minimum 7-years post qualification trade test experience on projects/work of a similar nature.
Level 5	Contracts Manager: a relevant accredited diploma/degree and minimum 9 years relevant experience on projects of a similar nature.	Field Engineer (LI): relevant accredited engineering qualification, Registered with ECSA as a Lifting Inspector and 9-years post registration relevant experience projects/work of a similar nature.	Lift Technician/Artisan: must have accredited Lift trade test, and a minimum 9-years post qualification trade test experience on projects/work of a similar nature.

For this specific framework contract, qualification and projects of a similar nature are as follows:

- The trade test certificated must be Quality Control for Trades and Occupations (QCTO) accredited.
- The number of years deemed as relevant experience must be reflected on the CV and the projects listed must indicate the duration.

T1.2.3.5. NUMBER OF SERVICE PROVIDERS TO BE APPOINTED

It is intended that this contract be awarded to a maximum of service providers broken down as follows:

Grading and Classification	GB	EB	ME	SI
3	20 x 3 GB (20 in total)	12 x 3 EB (12 in total)	12 x 3ME (12 in total)	N/A
4 - 6	5 x 4GB 5 x 5GB 5 x 6GB (15 in total)	4 x 4EB 4 x 5EB 4 x 6EB (12 in total)	4 x 4ME 4 x 5ME 4 x 6ME (12 in total)	Maximum of three (3) 4SI or higher
7 - 9	8 x 7GB 4 x 8GB 3 x 9GB (15 in total)	4 x 7EB or above (4 in total)	4 x 7ME 4 x 8ME 4 x 9ME (12 in total)	

The awarded tenderers will comprise the most responsive service providers within the designated CIDB grading. eThekweni Municipality reserves the right to award the contract to fewer service providers than initially stipulated.

In the event that there is a tie between two or more service providers, the 2022 PREFERENTIAL PROCURMENT POLICY GUIDELINES will be used to break the deadlock.

EThekweni Municipality reserves the right to adjust the contractor spread based on the received tenders within different CIDB grades.

The contract rates will be determined using the average rates submitted by all responsive tenderers. This approach is considered fair, reasonable and reflective of prevailing market-related pricing received during the tender stage. Non-market related rates for any of the most responsive service provider will be adjusted in accordance with the Merkel's Software, which is used by Architecture for verification of rates.

The contract sum will be used as a notional value to check responsiveness in terms of rates only for all tenderers. It will not be applicable for responsiveness in terms of CIDB grading as it will prejudice lower grades due to the use of model bills of quantities which caters for most items per trade.

The agreed rates will then be applicable to the Contract, and Service Providers will be paid accordingly for the task orders issued under this Contract.

The contractor will only be considered for work allocation within the CIDB grading for which they were awarded for at inception of contract throughout the duration of contract.

PART T2: RETURNABLE DOCUMENTS

T2.1 LIST OF RETURNABLE DOCUMENTS

T2.1.1 General

The Tender Submission Documentation must be submitted in its entirety. All forms must be properly completed and signed as required.

The Tenderer is required to complete and sign each and every Schedule and Form listed below to the best of their ability as the evaluation of tenders and the eventual contract will be based on the information provided by the Tenderer.

Failure of a Tenderer to complete the Schedules and Forms to the satisfaction of the Employer will inevitably prejudice the tender and may lead to rejection on the grounds that the tender is non-responsive.

T2.1.2 Returnable Schedules, Forms and Certificates

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T2.2.1 COMPULSORY ENTERPRISE QUESTIONNAIRE

Ref	Description	Tenderer to Complete	
1.1	Name of enterprise		
1.2	Name of enterprise's representative		
1.3	Email address of representative		
1.4	Contact numbers of representative	Tel:	Cell:
1.5	National Treasury Central Supplier Database Registration number	MAAA	
1.6	VAT registration number, if any:		
1.7	CIDB registration number, if any:		
1.8	Department of Labour: Registration number		
1.9	Department of Labour: Letter of Good Standing Certificate number		

2.0 Particulars of sole proprietors and partners in partnerships (attach separate pages if more than 4 partners)			
	Full Name	Identity No.	Personal income tax No. *
2.1			
2.2			
2.3			

3.0 Particulars of companies and close corporations	
3.1	Company registration number, if applicable:
3.2	Close corporation number, if applicable:
3.3	Tax Reference number, if any:
3.4	* South African Revenue Service: Tax Compliance Status PIN:

4.0	MBD 4, MBD 6, MBD 8, and MBD9 issued by National Treasury <u>must be completed for each tender and be included as a tender requirement.</u>
-----	--

* Tenderers are to include, at the back of their tender submission, a printout of their SARS **"Tax Compliance Status – PIN Issued"** certificate, failing which the tender submission will be deemed non-responsive.

The undersigned, who warrants that he / she is duly authorised to do so on behalf of the enterprise:	
i) authorizes the Employer to verify the Tenderer's tax clearance status from the South African Revenue Services that it is in order.	
ii) confirms that the neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004.	
iii) confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convicted of fraud or corruption.	
iv) confirms that I / we are not associated, linked or involved with any other tendering entities submitting tender offers and have no other relationship with any of the Tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest.	
v) confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.	

NAME (Block Capitals):

Date

SIGNATURE:

T2.2.2 CERTIFICATE OF ATTENDANCE AT CLARIFICATION MEETING / SITE INSPECTION

Reference is to be made to the **Tender Data: C.2.1.1(a) and C.2.7.**

This is to certify that:

(entity name):

of (address):

was represented by the person(s) named below at the Clarification Meeting for Contract **36585-1B** held for all Tenderers, the details of which are stated in the **Tender Data: C.2.7.**

I / We acknowledge that the purpose of the meeting was to acquaint myself / ourselves with the site of the works and / or matters incidental to doing the work specified in the tender documents in order for me / us to take account of everything necessary when compiling our rates and prices included in the tender.

Particulars of person(s) attending the meeting:

Name:

Name:

Signature:

Signature:

Capacity:

Capacity:

Attendance of the above person(s) at the meeting is confirmed by the Employer's Agent's Representative, namely:

Name:

Signature:

Date:

T2.2.3 MBD 4: DECLARATION OF INTEREST

MSCM Regulations: “**in the service of the state**” means to be:

- (a) a member of:
 - (i) any municipal council.
 - (ii) any provincial legislature.
 - (iii) the national Assembly or the national Council of provinces.
- (b) a member of the board of directors of any municipal enterprise.
- (c) an official of any municipality or municipal enterprise.
- (d) an employee of any national or provincial department, national or provincial public enterprise or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999).
- (e) a member of the accounting authority of any national or provincial public enterprise.
- (f) an employee of Parliament or a provincial legislature.

“**Shareholder**” means a person who owns shares in the company and is actively involved in the management of the company or business and exercises control over the company.

- 1 No bid will be accepted from persons **in the service of the state**¹.
- 2 Any person, having a kinship with persons **in the service of the state**, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to **persons in service of the state**, it is required that the bidder or their authorised representative declare their position in relation to the evaluating/adjudicating authority and/or take an oath declaring his/her interest.
- 3 In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

3.1 Name of enterprise	
Name of enterprise’s representative	
3.2 ID Number of enterprise’s representative	
3.3 Position enterprise’s representative occupies in the enterprise	
3.4 Company Registration number	
3.5 Tax Reference number	
3.6 VAT registration number	

- 3.7 The names of all directors / trustees / shareholders / members / sole proprietors / partners in partnerships, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below. In the case of a joint venture, information in respect of each partnering enterprise must be completed and submitted.

- 3.8 Are you presently in the service of the state?

Circle Applicable	
YES	NO

If yes, furnish particulars:

.....

3.9 Have you been in the service of the state for the past twelve months?

YES

NO

If yes, furnish particulars:

3.10 Do you have any relationship (family, friend, other) with persons in the service of the state and who may be involved with the evaluation and or adjudication of this bid?

YES

NO

If yes, furnish particulars:

3.11 Are you, aware of any relationship (family, friend, other) between any other bidder and any persons in the service of the state who may be involved with the evaluation and or adjudication of this bid?

YES

NO

If yes, furnish particulars:

3.12 Are any of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state?

YES

NO

If yes, furnish particulars:

3.13 Are any spouse, child or parent of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state?

YES

NO

If yes, furnish particulars:

3.14 Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other related companies or business whether or not they are bidding for this contract?

YES

NO

If yes, furnish particulars:

4 The names of all directors / trustees / shareholders / members / sole proprietors / partners in partnerships, their individual identity numbers and state employee numbers must be indicated below. In the case of a joint venture, information in respect of each partnering enterprise must be completed and submitted

Full Name	Identity No.	State Employee No.	Personal income tax No.
Use additional pages if necessary			

Failure to complete this form in full, sign, and return with the tender submission will result in the tender offer being deemed non-responsive.

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct.

NAME (Block Capitals):

Date

SIGNATURE:

**T2.2.4 MBD 5: DECLARATION FOR PROCUREMENT ABOVE R10 MILLION
(ALL APPLICABLE TAXES INCLUDED)**

For all procurement expected to exceed R10 million (all applicable taxes included), bidders must complete the following questionnaire.

		Circle Applicable	
		YES	NO
1.0	Are you by law required to prepare annual financial statements for auditing?		
1.1	If YES, submit audited annual financial statements for the past three years or since the date of establishment if established during the past three years. The audited annual financial statements are to be included at the back of the tender submission.		
2.0	Do you have any outstanding undisputed commitments for municipal services towards any municipality for more than three months or any other service provider in respect of which payment is overdue for more than 30 days?	YES	NO
2.1	If NO, this serves to certify that the bidder has no undisputed commitments for municipal services towards any municipality for more than three months or other service provider in respect of which payment is overdue for more than 30 days.		
2.2	If YES, provide particulars.		
3.0	Has any contract been awarded to you by an organ of state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract?	YES	NO
3.1	If YES, provide particulars.		
SEE Returnable Document "Contracts Awarded by Organs of State in the Past 5 Years"			
4.0	Will any portion of goods or services be sourced from outside the Republic, and, if so, what portion and whether any portion of payment from the municipality / municipal entity is expected to be transferred out of the Republic?	YES	NO
4.1	If YES, provide particulars.		

Failure to complete this form in full, sign, and return with the tender submission will result in the tender offer being deemed non-responsive.

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct, and, if required, that the requested documentation has been included in the tender submission.

NAME (Block Capitals):

Date

SIGNATURE:

T2.2.5 CONTRACTS AWARDED BY ORGANS OF STATE IN THE PAST 5 YEARS

In terms of SCM Policy Section 20(1)(d)(iii), Tenderers are to provide details of Works undertaken for the Government or Public Sector entities/ Organs of State in the past 5 Years, including particulars of any material non-compliance or dispute concerning the execution of such contract.

Material non-compliance or dispute (Yes or No)													
Date Completed													
Value of Work													
Consulting Engineer/ Engineers representative													
Employer													
Contract Number													

I, the undersigned, who warrants that they are authorised to sign on behalf of the entity, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct.

NAME (Block Capitals):

Date

SIGNATURE:

T2.2.6 MBD 6.1: PREFERENCE POINTS CLAIM)

(SCMP 52.5: Broad-Based Black Economic Empowerment)

This form serves as a claim form for preference points for **Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution**. **Reference is to be made to the Tender Data: C.3.11.**

1.0 GENERAL CONDITIONS

- 1.1 The relevant **Preference Points System (80/20 or 90/10)** applicable to this bid is stated in the **Tender Data: C.3.11**.
- 1.2 Failure on the part of a bidder to fill in and/ or sign this form, and submit a B-BBEE Verification Certificate from a Verification Agency accredited by the South African Accreditation System (SANAS), or a Registered Auditor approved by the Independent Regulatory Board of Auditors (IRBA), or sworn affidavits in the case of Exempted Micro Enterprises or Qualifying Small Enterprises, together with the bid, will be interpreted to mean that preference points for **B-BBEE Status Level Of Contribution** are not claimed.
- 1.3 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

2.0 ADJUDICATION USING A POINT SYSTEM

- 2.1 The bidder obtaining the highest number of total points will be recommended for the award of the contract.
- 2.2 Preference points shall be calculated after prices have been brought to a comparative basis taking into account all factors of non-firm prices and all unconditional discounts.
- 2.3 Points scored will be rounded off to the nearest 2 decimal places.
- 2.4 In the event that two or more bids have scored equal total points, the successful bid must be the one scoring the highest number of preference points for B-BBEE.
- 2.5 However, when functionality is part of the evaluation process and two or more bids have scored equal points including equal preference points for B-BBEE, the successful bid must be the one scoring the highest score for functionality.
- 2.6 Should two or more bids be equal in all respects the award shall be decided by the drawing of lots.

3.0 POINTS AWARDED FOR PRICE

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20 Procurement System

or

90/10 Procurement System

$$P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

$$P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

Where:

P_s	=	Points scored for comparative price of bid under consideration
P_t	=	Comparative price of bid under consideration
$P_{\min}$	=	Comparative price of lowest acceptable bid

4.0 POINTS ALLOCATED FOR B-BBEE STATUS LEVEL OF CONTRIBUTION

- 4.1 Preference points must be claimed by a bidder for attaining the **B-BBEE Status Level of Contribution** in accordance with the applicable table below:

80/20 Preference Points System	
B-BBEE Level Contributor	Preference Points
1	20
2	18
3	14
4	12
5	8
6	6
7	4
8	2
Non-Compliant	0

90/10 Preference Points System	
B-BBEE Level Contributor	Preference Points
1	10
2	9
3	7
4	6
5	4
6	3
7	2
8	1
Non-Compliant	0

- 4.2 All bidders must submit B-BBEE Status Level of Contribution Certificates, issued by either verification agencies accredited by the South African Accreditation System (SANAS), or by registered auditors approved by the Independent Regulatory Board for Auditors (IRBA), **or sworn affidavits** in a case of an Exempted Micro Enterprise (EME) or a Qualifying Small Enterprise (QSE).
- 4.3 Any enterprise with an annual Total Revenue of R 10 million or less qualifies as an Exempted Micro-Enterprise.
- 4.4 Exempted Micro-Enterprises are deemed to have B-BBEE Status of "Level Four Contributor" having a B-BBEE procurement recognition of 100% in terms of the Codes of Good Practice.
- 4.5 An Exempted Micro Enterprise (EME) with at least 51% black ownership qualifies as a Level 2 contributor with BBBEE level of 125% in terms of the Codes of Good Practice.
- 4.6 An Exempted Micro Enterprise with 100% black ownership qualifies as a Level 1 contributor with BBBEE level of 135% in terms of the Codes of Good Practice.
- 4.7 An Exempted Micro Enterprise that is regarded as a specialized enterprise with at least 75% black beneficiaries qualifies as a Level 1 contributor with BBBEE level of 135% in terms of the Codes of Good Practice.
- 4.8 An Exempted Micro Enterprise that is regarded as a specialized enterprise with at least 51% black beneficiaries qualifies as a Level 2 contributor with BBBEE level of 125% in terms of the Codes of Good Practice.
- 4.9 A Qualifying Small Enterprise (QSE) with at least 51% black ownership qualifies as a Level 2 contributor.
- 4.10 A QSE with 100% black ownership qualifies as a Level 1 contributor.
- 4.11 A QSE that is regarded as a specialized enterprise with at least 51% black beneficiaries qualifies as a Level 2 contributor with BBBEE level of 125% in terms of the Codes of Good Practice.
- 4.12 A QSE with less than 51% black ownership is required to submit a BBBEE level verification certificate issued by a BBBEE verification professional.
- 4.13 A Trust, consortium or joint venture:
- must submit a B-BBEE status level certificate in order to qualify for points;
 - may qualify for points as an unincorporated entity provided, that they submit their consolidated scorecard is prepared for separate tender; and
 - where no consolidated scorecard exists, the weighted average (in accordance with participation percentages) must be used and rounded off to the nearest status level.
- 4.14 Gazetted Sector Codes supersede Generic Codes.

5.0 SUB-CONTRACTING

- 5.1 B-BBEE points must not be awarded to a tenderer who intends sub-contracting more than 25% of the value of the contract to an enterprise that does not qualify for at least the points that such contractor qualifies for, unless the intended sub-contractor is an EME who has the ability and capability to execute the contract.
- 5.2 A person awarded a contract may not sub-contract more than 25% of the value of the contract to an enterprise that does not have an equal or higher B-BBEE status level, unless the intended sub-contractor is an EME who has the ability and capability to execute the contract.
- 5.3 A person awarded a contract in relation to a designated sector may not sub-contract in such a manner that the **Local Production and Content** of the overall value of the contract is reduced to below the prescribed minimum threshold.

6.0 BID DECLARATION

- 6.1 Bidders who wish to claim points in respect of **B-BBEE Status Level of Contribution** must complete the following:

B-BBEE Status Level of Contribution	Tenderer's Preference Points Claim (maximum of 10 or 20 points)

Points claimed must be in accordance with the relevant table reflected in paragraph 4.1 and must be substantiated by means of a B-BBEE Status Level of Contribution Certificate issued by a verification agency accredited by the South African Accreditation System (SANAS), or by registered auditors approved by the Independent Regulatory Board for Auditors (IRBA), or sworn affidavits in a case of an Exempted Micro Enterprise (EME) or a Qualifying Small Enterprise (QSE).

Tenderers are to include, at the back of their tender submission, their B-BBEE Status Level of Contribution Certificate, or sworn affidavits, failing which no Preference Points will be deemed to have been claimed.

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct, and, if required, that the requested documentation has been included in the tender submission.

NAME (Block Capitals):

Date

SIGNATURE:

T2.2.8 MBD 8: DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

- 1.0 This Municipal Bidding Document must form part of all bids invited.
- 2.0 It serves as a declaration to be used by municipalities and municipal entities in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- 3.0 The bid of any bidder may be rejected if that bidder, or any of its directors have:
- a) abused the municipal entity's supply chain management system or committed any improper conduct in relation to such system.
 - b) been convicted for fraud or corruption during the past five years.
 - c) wilfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years.
 - d) been listed in the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004).
- 4.0 In order to give effect to the above, the following questions must be completed and submitted with the bid.

- 4.1 Is the bidder or any of its directors listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector?

(Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer / Authority of the institution that imposed the restriction after the audi alteram partem rule was applied.)

The Database of Restricted Suppliers now resides on the National Treasury's website (www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.

Circle Applicable	
YES	NO

- 4.1.1 If YES, provide particulars.

.....

.....

- 4.2 Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)?

The Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the home page.

YES	NO
-----	----

- 4.2.1 If YES, provide particulars.

.....

.....

- 4.3 Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?

YES	NO
-----	----

- 4.3.1 If YES, provide particulars.

.....

.....

- 4.4 Does the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?

Circle Applicable	
YES	NO

4.4.1 If YES, provide particulars.

.....

.....

- 4.5 Was any contract between the bidder and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?

YES	NO
-----	----

4.5.1 If YES, provide particulars.

.....

.....

Failure to complete this form in full, sign, and return with the tender submission will result in the tender offer being deemed non-responsive.

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct.

I accept that, in addition to cancellation of a contract, action may be taken against me should this declaration prove to be false.

NAME (Block Capitals):

Date

SIGNATURE:

T2.2.9 **MBD 9: CERTIFICATE OF INDEPENDENT BID DETERMINATION**

NOTES

- ¹ Includes price quotations, advertised competitive bids, limited bids and proposals.
- ² Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.
- ³ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

- 1.0 This Municipal Bidding Document (MBD) must form part of all **bids**¹ invited.
- 2.0 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or **bid rigging**).² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
- 3.0 Municipal Supply Regulation 38 (1) prescribes that a supply chain management policy must provide measures for the combating of abuse of the supply chain management system, and must enable the accounting officer, among others, to:
- take all reasonable steps to prevent such abuse;
 - reject the bid of any bidder if that bidder or any of its directors has abused the supply chain management system of the municipality or municipal entity or has committed any improper conduct in relation to such system; and
 - cancel a contract awarded to a person if the person committed any corrupt or fraudulent act during the bidding process or the execution of the contract.
- 4.0 This MBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid rigging.
- 5.0 In order to give effect to the above, the below **Certificate of Independent Bid Determination** must be completed and submitted with the bid.

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid for: Contract **36585-1B**

Integrated Infrastructure Maintenance And Construction For Buildings, Facilities and Engineering Systems Works For 36 Months.

in response to the invitation for the bid made by: ETHEKWINI MUNICIPALITY

do hereby make the following statements that I certify to be true and complete in every respect.

I certify, on behalf of:

that:

(continued on next page)

1. I have read and I understand the contents of this Certificate.
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect.
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign, the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
 - (a) has been requested to submit a bid in response to this bid invitation.
 - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience.
 - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder.
6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement, or arrangement with any competitor. However, communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices.
 - (b) geographical area where product or service will be rendered (market allocation).
 - (c) methods, factors or formulas used to calculate prices.
 - (d) the intention or decision to submit or not to submit, a bid.
 - (e) the submission of a bid which does not meet the specifications and conditions of the bid.
 - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements, or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

Failure to complete this form in full, sign, and return with the tender submission will result in the tender offer being deemed non-responsive.

NAME (Block Capitals): _____

Date

SIGNATURE: _____

T2.2.10 DECLARATION OF MUNICIPAL FEES

Reference is to be made to the **Tender Data: C.2.23 and C.3.13(a)**.

I, the undersigned, do hereby declare that the Municipal fees of:

.....
(full name of Company / Close Corporation / partnership / sole proprietary/Joint Venture)

(hereinafter referred to as the TENDERER) are, as at the date hereunder, fully paid or an Acknowledgement of Debt has been concluded with the Municipality to pay the said charges in instalments.

The following account details relate to property of the said TENDERER:

<u>Account</u>	<u>Account Number: to be completed by Tenderer</u>											
Consolidated Account												
Electricity												
Water												
Rates												
JSB Levies												
Other												

- If applicable, a copy of a recent (within the past 3 months) Metro Bill is to be provided.

I acknowledge that should the aforesaid Municipal charges fall into arrears, the Municipality may take such remedial action as is required, including termination of any contract, and any payments due to the Contractor by the Municipality shall be first set off against such arrears.

- Where the Tenderer's place of business or business interests are outside the jurisdiction of eThekweni municipality, a copy of the accounts/ agreements from the relevant municipality are to be provided.
- Where the Tenderer's Municipal Accounts are part of their lease agreement, then a copy of the agreement, or an official letter to that effect, is to be provided.
- Where a Tenderer's place of business or business interests are carried out from premises as part of any other agreement, then a copy of the agreement, or an official letter to that effect, is to be provided.

Tenderers are to include, at the back of their tender submission, copies of the above-mentioned account's, agreements signed with the municipality, lease agreements, or official letters.

Failure to complete this form in full, sign, and return the required documents with the tender submission will result in the tender offer being deemed non-responsive.

*I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct, **and that the requested documentation has been included in the tender submission.***

NAME (Block Capitals):

Date

SIGNATURE:

T2.2.11 CONTRACTOR'S HEALTH AND SAFETY DECLARATION

Reference is to be made to Clauses C.2.1(e) and C.2.23 of the Tender Data.

In terms of Clause 5(1)(h) of the OHSA 1993 Construction Regulations 2014 (referred to as "the Regulations" hereafter), a Principal Contractor may only be appointed to perform construction work if the Client is satisfied that the Principal Contractor has the necessary competencies and resources to carry out the work safely in accordance with the Occupational Health and Safety Act No 85 of 1993 and the OHSA 1993 Construction Regulations 2014.

To that effect, a person duly authorised by the Tenderer, must complete and sign the declaration hereafter in detail.

Declaration by Tenderer

- 1 I, the undersigned, hereby declare and confirm that I am fully conversant with the Occupational Health and Safety Act No 85 of 1993 (as amended by the Occupational Health and Safety Amendment Act No 181 of 1993), and the OHSA 1993 Construction Regulations 2014.
- 2 I hereby declare that my company has the competence and the necessary resources to safely carry out the construction work under this contract in compliance with the Construction Regulations and the Employer's Health and Safety Specifications.
- 3 I propose to achieve compliance with the Regulations by one of the following **(Tenderers are to Circle Applicable - Yes or No)**:

(a) From my own competent resources as detailed in 4(a) hereafter.

(b) From my own resources still to be appointed or trained until competency is achieved, as detailed in 4(b) hereafter:

(c) From outside sources by appointment of competent specialist Subcontractors as detailed in 4(c) hereafter:

Circle Applicable	
Yes	No
Yes	No
Yes	No

- 4 Details of resources I propose:

(Note: Competent resources shall include safety personnel such as a construction supervisor and construction safety officer as defined in Regulation 8, and competent persons as defined in Regulations 9, 10, 11, 12, 13, 14, 16, 17, 20, 21, 22, 23(1), 24, 25, 26, 27, 28 and 29, as applicable).

- (a) Details of the competent and qualified key persons from my company's own resources, who will form part of the contract team:

NAMES OF COMPETENT PERSONS	POSITIONS TO BE FILLED BY COMPETENT PERSONS

(b) Details of training of persons from my company's own resources (or to be hired) who still have to be trained to achieve the necessary competency:

(i) By whom will training be provided?

(ii) When will training be undertaken?

(iii) Positions to be filled by persons to be trained or hired:

(c) Details of competent resources to be appointed as subcontractors if competent persons cannot be supplied from own company:

Name of proposed subcontractor:

Qualifications or details of competency of the subcontractor:

5 I, the undersigned, hereby undertake, if this tender is accepted, to provide, before commencement of the works under the contract, a suitable and sufficiently documented Health and Safety Plan in accordance with Regulation 7(1) of the Construction Regulations, which plan shall be subject to approval by the Client.

6 I, the undersigned, confirm that copies of this company's approved Health and Safety Plan, the Client's Safety Specifications as well as the OHSA 1993 Construction Regulations 2014 will be provided on site and will at all times be available for inspection by the Principal Contractor's personnel, the Client's personnel, the Employer's Agent, visitors, and officials and inspectors of the Department of Labour.

7 I, the undersigned, hereby confirm that adequate provision has been made in the tendered rates and prices in the Bill of Quantities to cover the cost of all resources, actions, training and all health and safety measures envisaged in the OHSA 1993 Construction Regulations 2014, and that I will be liable for any penalties that may be applied by the Client in terms of the said Regulations (Regulation 33) for failure on the Principal Contractor's part to comply with the provisions of the Act and the Regulations.

8 I, the undersigned, agree that failure to complete and execute this declaration to the satisfaction of the Client will mean that this company is unable to comply with the requirements of the OHSA 1993 Construction Regulations (2014) and accept that this tender will be prejudiced and may be rejected at the discretion of the Client.

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct.

NAME (Block Capitals):

Date

SIGNATURE:

T2.2.12 CSD REGISTRATION REPORT

Reference is to be made to **Tender Data: C.2.1.1(b) and C.2.23.**

The **Tender Data: C.2.1: Eligibility**, requires a Tenderer to be registered, at the time of tender closing, on the **National Treasury Central Supplier Database (CSD)** as a service provider.

CSD Registration Reports can be obtained from the National Treasury's CSD website at
<https://secure.csd.gov.za/Account/Login>.

The following is an example of the printout obtained from the above website.
Note: the printout will contain more than one page.



CENTRAL SUPPLIER DATABASE FOR GOVERNMENT

Report Date:

Report Ran By:

CSD REGISTRATION REPORT

SUPPLIER IDENTIFICATION

Supplier number		Have Bank Account	
Is supplier active?		Total annual turnover	
Supplier type		Financial year start date	
Supplier sub-type		Registration date	
Legal name		Created by	
Trading name		Created date	
Identification type		Edit by	
Government breakdown		Edit date	
Business status		Restricted Supplier	
Country of origin		Restriction Last Verification Date	
South African company/CC registration number			

Tenderers are to include, at the back of their tender submission, a printout of their CSD Registration Report. The date of obtaining the CSD printout is to be indicated on the printout and should be on or after the date of advertising of this tender.

Failure to comply will result in the tender offer being deemed non-responsive.

*I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct, **and that the requested documentation has been included in the tender submission.***

NAME (Block Capitals): _____

Date

SIGNATURE: _____

T2.2.13 CIDB REGISTRATION AND STATUS

Reference is to be made to the **Tender Data: C.2.1.2, C.2.23, and C.3.13(c).**

The **Tender Data: C.2.1.1: Eligibility**, requires a Tenderer to be registered, as “Active”, with the CIDB (at time of tender closing), in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations.

The required class of construction work is specified in the **Tender Data: C.2.1.2.**

CIDB Registrations can be obtained from the CIDB website at:

<https://portal.cidb.org.za/RegisterOfContractors/>

The following is an example of the printout obtained from the above website using the provided “Print” button.

Note: the printout may contain more than one page.

The screenshot shows the CIDB (Construction Industry Development Board) logo at the top left, with the tagline 'DEVELOPMENT THROUGH PARTNERSHIP'. Below the logo is a header bar with the text 'construction industry development board'. The main form area is titled 'Contractor Details' and contains several input fields: 'CRS Number', 'Contractor Name *', 'Trading Name', 'Current Contractor Grading Designation', 'Enterprise Status', 'Type of Enterprise', 'Expiry Date', 'Contractor Grades', 'Approved Grade', 'Class of Work Type', and 'Active From'. There is a 'Print' button at the bottom left of the form.

Tenderers are to include, at the back of their tender submission, a printout of their CIDB Registration and Status. The date of obtaining the CIDB Registration and Status printout is to be indicated on the printout and should be on or after the date of advertising of this tender.

Failure to comply will result in the tender offer being deemed non-responsive.

*I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct, **and that the requested documentation has been included in the tender submission.***

NAME (Block Capitals):

Date

SIGNATURE:

T2.2.14 JOINT VENTURES AGREEMENTS

If this tender submission is to be made by an established Joint Venture, the Joint Venture Agreements and Power of Attorney Agreements are to be attached here.

Should the Joint Venture, at the time of submission, not yet be formalised, this form is to be completed in full and signed by all parties to the proposed Joint Venture.

The Lead Partner of the Joint Venture is to sign the **Form of Offer** in Section **C1.1.1**.

INTENT TO FORM A JOINT VENTURE

Should our submission for CONTRACT: **36585-1B** be successful, a Joint Venture will be established by the parties as listed below, as an unincorporated association, with the purposes of securing and executing the Contract, for the benefit of the Members.

Proposed Joint Venture

Joint Venture Title (name):

Represented by (name):

Tel:

Lead Partner/ Member 1

Entity Name:

Ownership Interest in JV %:

CSD Registration:

CIDB #:

Represented by (name):

Signature:

Partner/ Member 2

Entity Name:

Ownership Interest in JV %:

CSD Registration:

CIDB #:

Represented by (name):

Signature:

Partner/ Member 3

Entity Name:

Ownership Interest in JV %:

CSD Registration:

CIDB #:

Represented by (name):

Signature:

Note: All requirements for Joint Ventures, as stated elsewhere in this procurement document, must be complied with in full.

T2.2.15 RECORD OF ADDENDA TO TENDER DOCUMENTS

Reference is to be made to the **Tender Data: C.2.6.**

I / We confirm that the following communications received from the Employer or his representative before the date of submission of this tender offer, amending the tender documents, have been taken into account in this tender offer.

ADD.No	DATE	TITLE OR DETAILS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct.

It is also confirmed that the requirements, as stated on the Addenda, have been complied with.

NAME (Block Capitals):

Date

SIGNATURE:

T2.2.17 PROPOSED ORGANISATION and STAFFING

Refer to Additional Conditions of Tender: T1.2.3.4 for Functionality Points evaluation prompts (if applicable).

The Tenderer should propose the structure and composition of their team i.e. the main disciplines involved, the key staff member / expert responsible for each discipline, and the proposed technical and support staff and site staff.

The roles and responsibilities of each key staff member / expert should be set out as job descriptions. In the case of an association / joint venture / consortium, it should, indicate how the duties and responsibilities are to be shared.

The Tenderer must attach their organization and staffing proposals to this page. (this is to include both the on-site and off-site staffing resources used for this project)

In addition to any lists, this information should also be shown in an organogram format (flow chart) clearly indicating the staff hierarchy and reporting lines, again for on- and off-site resources.

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct.

NAME (Block Capitals):

Date

SIGNATURE:

T2.2.18 KEY PERSONNEL

Refer to Additional Conditions of Tender: T1.2.3.4 for Functionality Points evaluation prompts (if applicable).

The Tenderer shall list below the personnel which he intends to utilize on the Works, including key personnel (Contract's Manager, Site Agent, and Foremen) which may have to be brought in from outside if not available locally.

CATEGORY OF EMPLOYEE	NUMBER OF PERSONS	
	KEY PERSONNEL, PART OF THE CONTRACTOR'S ORGANISATION	KEY PERSONNEL TO BE IMPORTED IF NOT AVAILABLE LOCALLY
Contracts Manager		
Site Agent		
Foremen		
Quantity Surveyor		
Master Installation Electrician registered with Department of Labour		
Registered Installation Electrician registered with Department of Labour		
Trade Tested Electrical Artisan		
Traded Tested Refrigeration Mechanician: SAQCC Gas under the Category B: B6 or B8		
Refrigeration Trade Tested Artisan		
Field Engineer		
Lift Technician/ Artisan		

Note: CVs of key personnel may be requested during the contract period.

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct.

NAME (Block Capitals):

Date

SIGNATURE:

T2.2.19 EXPERIENCE OF KEY PERSONNEL

Refer to Additional Conditions of Tender: T1.2.3.4 for Functionality Points evaluation prompts (if applicable).

The experience of assigned staff member in relation to the Scope of Work will be evaluated from three different points of view:

- 1) General experience (total duration of professional activity), level of education and training and positions held of each discipline specific team leader.
- 2) The education, training, skills and experience of the Assigned Staff in the specific sector, field, subject, etc which is directly linked to the scope of work.
- 3) The key staff members' / experts' knowledge of issues which the Tenderer considers pertinent to the project e.g. local conditions, affected communities, legislation, techniques etc.

A CV of the contract manager, site agent(s) and general foreman of not more than 2 pages should be attached to this schedule:

Each CV should be structured under the following headings:

- a) Personal particulars
 - name
 - date and place of birth
 - place (s) of tertiary education and dates associated therewith
 - professional awards
- b) Qualifications (degrees, diplomas, grades of membership of professional societies and professional registrations)
- c) Skills
- d) Name of current employer and position in enterprise
- e) Overview of post-graduate / diploma experience (year, organization and position)
- f) Outline of recent assignments / experience that has a bearing on the scope of work

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct.

NAME (Block Capitals):

Date

SIGNATURE:

T2.2.19.1 EXPERIENCE OF KEY PERSONNEL(Continued.....)

Refer to Clause F3.11.9 for Functionality Points evaluation prompts

Tenderers to complete below curriculum vitae template by hand for all key staff:

CURRICULUM VITAE OF KEY PERSONNEL									
DESIGNATION:									
Name:					Date of birth:				
Profession:					Nationality:				
Formal Qualifications:									
Qualifications		Name of Institutions / Training Centre			Year Obtained				
1									
2									
3									
4									
5									
6									
Professional Registrations/Designation:									
Professional Registrations / Designation		Professional Body / Council			Registration Number				
1									
Name of Employer (firm):				Full Time:		Yes		No	
Current Position:				Years of Experience:					
Employment Record:									
1.									
2.									
3.									
4.									
5.									
6.									
7.									
8.									
Specific Experience Record Pertinent to Required Service, Value, Reference and Duration of Works per Projects Undertaken:									
1.									
2.									
3.									
4.									
5.									
6.									
7.									
8.									
9.									
10.									
<i>I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct.</i>									

NAME (Block Capitals):

Date

SIGNATURE:

T2.2.21 MAINTENANCE IMPLEMENTATION METHODOLOGY & QUALITY CONTROL

Refer to Additional Conditions of Tender: T1.2.3.4 for Functionality Points evaluation prompts

Construction and Maintenance Approach and Methodology

The construction approach and methodology must respond to the Scope of Work and outline the proposed approach to undertake the work showing a detailed plant equipment's, vehicles, key staff, reactive and proactive, reporting, including health and safety aspects to be used for Infrastructure Maintenance And Construction For Buildings, Facilities and Engineering Systems Works For 36 Months

Quality Control

The quality control statement must discuss contractor work distribution procedures/strategies and turn-around time to complete works. Discuss what tests and control measures are to be employed on site to attain the specified results and the associated activities. Ascertain the reliability of materials to be SANS, International Electrotechnical Commission (IEC), South African Burro of Standards (SABS), International Standard Organisation (ISO) and OHSA compliant.

The Tenderer must attach their Construction Methodology and Quality Control information to this page.

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct.

NAME (Block Capitals):

Date

SIGNATURE:

The following firms have been identified as possible subcontractors for work in this contract.

[illegible]

Attach additional pages if more space is required

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct.

Date _____

T2.2.23 PLANT and EQUIPMENT

Refer to Additional Conditions of Tender: T1.2.3.4 for Functionality Points evaluation prompts (if applicable).

The following are lists of major items of relevant equipment that I / we presently own or lease and will have available for this contract if my / our tender is accepted.

(a) **Details of major equipment that is owned by me / us and immediately available for this contract.**

DESCRIPTION (type, size, capacity etc)	QUANTITY	YEAR OF MANUFACTURE

Attach additional pages if more space is required

(b) **Details of major equipment that will be hired, or acquired for this contract if my / our tender is accepted**

DESCRIPTION (type, size, capacity etc)	QUANTITY	HOW ACQUIRED	
		HIRE/ BUY	SOURCE

Attach additional pages if more space is required

The Tenderer undertakes to bring onto site without additional cost to the Employer any additional plant not listed but which may be necessary to complete the contract within the specified contract period.

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct.

NAME (Block Capitals):

Date

SIGNATURE:

T2.2.24 CONTRACTOR'S HEALTH AND SAFETY PLAN

Refer to Additional Conditions of Tender: T1.2.3.4 for Functionality Points evaluation prompts (if applicable).

At tender stage only a brief overview (**to be attached to this page**) of the Tenderers perception on the safety requirements for this contract will be adequate.

Only the successful Tenderer shall submit separately the Contractor's Health and Safety Plan as required in terms of Regulation 7 of the Occupational Health and Safety Act 1993 Construction Regulations 2014.

The detailed safety plan will take into consideration the site specific risks as mentioned under C.3: Project Specification. A generic plan will not be acceptable.

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct.

NAME (Block Capitals):

Date

SIGNATURE:

PART C1: AGREEMENT AND CONTRACT DATA

C1.1: FORM OF OFFER AND ACCEPTANCE

C1.1.1: OFFER



Form of Tender

submitted in terms of the enquiry
by the Principal Agent or Agent

Principal Contract

X

Client ETHEKWINI MUNICIPALITY

Contract No. CSA3600

Description Integrated Infrastructure Maintenance And Construction For Buildings, Facilities and Engineering
Systems Works For 36 Months.

Name of Tenderer _____

Postal Address _____

Tel. _____

Fax. _____

E-Mail _____

VAT Registration No. _____

THE TENDER SUM

1.0 Tenderer's Work (Amount to be inserted by the Tenderer)

2.0 Provisional Sums

3.0 SUB-TOTAL

4.0 Add: V.A.T. (15%) on 3.0

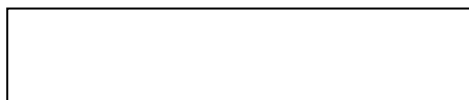
5.0 TOTAL TENDER SUM INCLUSIVE OF V.A.T.

Tender Sum in Words: _____

The Tenderer selects:

Preliminaries Payment:	Alternative A	☐	Adjustment:	Alternative A	☐	Security: Fixed Construction Guarantee	☐
	Alternative B	☐		Alternative B	☐	10% Retention	☐
	Not Applicable	☐		Not Applicable	☐		

Thus done and signed at _____ on _____



for and on behalf of the Tenderer who by signature hereof warrants authorisation hereto

**FAILURE OF A TENDERER TO SIGN AND FULLY COMPLETE THIS FORM OF TENDER WILL RENDER
THIS TENDER UNRESPONSIVE AND THE TENDERER WILL THEREFORE BE DISQUALIFIED**

C1.1: FORM OF OFFER AND ACCEPTANCE

C1.1.2: FORM OF ACCEPTANCE

This Form will be completed by the Employer

By signing this part of the Form of Offer and Acceptance, the Employer identified below accepts the Tenderer's Offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the Conditions of Contract identified in the Contract Data. Acceptance of the Tenderer's Offer shall form an agreement between the Employer and the Tenderer upon the terms and conditions contained in this Agreement and in the Contract that is the subject of this Agreement.

The terms of the contract are contained in:

- Part C1 : Agreement and Contract Data, (which includes this Agreement)
- Part C2 : Pricing Data, including the Bill of Quantities
- Part C3 : Scope of Work
- Part C4 : Site Information

and the schedules, forms, drawings and documents or parts thereof, which may be incorporated by reference into Parts C1 to C4 above.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Tender Schedules as well as any changes to the terms of the Offer agreed by the Tenderer and the Employer during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Agreement. No amendments to or deviations from said documents are valid unless contained in this Schedule, which must be duly signed by the authorised representatives of both parties.

The Tenderer shall within two weeks after receiving a completed copy of this Agreement, including the Schedule of Deviations (if any), contact the Employer's agent (whose details are given in the Contract Data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the Conditions of Contract identified in the Contract Data at, or just after, the date this Agreement comes into effect. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this Agreement.

Notwithstanding anything contained herein, this Agreement comes into effect on the date when the Tenderer receives one fully completed original copy of this document, including the Schedule of Deviations (if any). Unless the Tenderer (now Contractor) within five days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this Agreement, this Agreement shall constitute a binding contract between the parties.

Signature (*person authorized to sign the acceptance*) :

Name (*of signatory in capitals*) :

Capacity (*of Signatory*) :

Name of Employer (*organisation*) :

Address :

:

Witness:

Signature : **Date** :

Name(*in capitals*) : :

C1.1: FORM OF OFFER AND ACCEPTANCE
C1.1.3: SCHEDULE OF DEVIATIONS

This form will be completed by THE EMPLOYER and ONLY THE SUCCESSFUL TENDERER

1. **Subject** :
- Details** :
- :
2. **Subject** :
- Details** :
- :
3. **Subject** :
- Details** :
- :

By the duly authorised representatives signing this Schedule of Deviations, the Employer and the Tenderer agree to and accept the foregoing Schedule of Deviations as the only deviations from and amendments to the documents listed in the Tender Data and addenda thereto as listed in the Tender Schedules, as well as any confirmation, clarification or change to the terms of the offer agreed by the Tenderer and the Employer during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the Tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this Agreement.

FOR THE TENDERER

FOR THE EMPLOYER

.....	Signature	
.....	Name (<i>in capitals</i>)	
.....	Capacity	
.....	Name and Address of	
.....	Organisation	
.....		
.....		
.....	Witness Signature	
.....	Witness Name	
.....	Date	

C1.2: CONTRACT DATA

C1.2.1 CONDITIONS OF CONTRACT

JBCC PRINCIPAL BUILDING AGREEMENT (EDITION 6.2 OF MAY 2018)

This Contract will be based on the “JBCC Principal Building Agreement (May 2018 edition 6.2)” prepared by the Joint Building Contracts Committee.

Copies may be obtained from the Association of South African Quantity Surveyors (011 315 4140, 021 462 6431), Master Builders Association (011 205 9000; 021 685 2625) South African Association of Consulting Engineers (011 463 2022) or South African Institute of Architects (011 486 0684; 021 424 7128)

The Contract Data is the JBCC Principal Building Agreement - Contract Data for Organs of State and other Public Sector Bodies, Edition 6.2 May 2018. This document is obtainable separately from the JBCC and Tenderers shall obtain their own copies.

The Errata listed under the Table of Contents on page 3 of the JBCC Principal Building Agreement are deemed to be included in the agreement.

The JBCC Principal Building Agreement makes several references to the Contract Data for specific data, which together with these conditions collectively describe the risks, liabilities and obligations of the contracting parties and the procedures for the administration of the Contract. The Contract Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the JBCC Principal Building Agreement.

The JBCC Principal Building Agreement contract data form an integral part of this agreement.

DATA PROVIDED BY THE EMPLOYER

The Contract Data hereafter are the requirements applicable to the project and the variables referred to in the Principal Building Agreement provided for tender purposes.

The Contract Data, Preliminaries and related Notes, contained hereunder, (including variations and additions) shall amplify, modify or supersede, as the case may be, the JBCC 2000, to the extent specified below, and shall take precedence and shall govern.

C1.2.2 CONTRACT DATA

C1.2.2.1 DATA TO BE PROVIDED BY THE EMPLOYER

A PROJECT INFORMATION

A 1.0 Works [1.1]

Project name	
Reference number	
Works description	

A 2.0 Site [1.1]

Erf / stand number	
Township / Suburb	
Site address	
Local authority	

A 3.0 Employer [1.1]

Official Name of Organ of State / Public Sector Body			
Business registration number			
VAT/GST number			
Country			
Employer's representative:Name			
E-mail		Telephone number	
Mobile number			
Postal address			
		Postal code	
Physical address			
		Postal code	

A 4.0 Principal agent [1.1]

Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
		Mobile number	
Country		E-mail	
Postal address			
		Postal code	
Physical address			
		Postal code	

A 5.0 Agent [1.1; 6.2]

Discipline

Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
		Mobile number	
Country		E-mail	
Postal address			
		Postal code	
Physical address			
		Postal code	

A 6.0 Agent [1.1; 6.2]

Discipline

Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
		Mobile number	
Country		E-mail	
Postal address			
		Postal code	
Physical address			
		Postal code	

A 7.0 Agent [1.1; 6.2]

Discipline

Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
		Mobile number	
Country		E-mail	
Postal address			
		Postal code	
Physical address			
		Postal code	

A 8.0 Agent [1.1; 6.2] Discipline

Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
		Mobile number	
Country		E-mail	
Postal address			
		Postal code	
Physical address			
		Postal code	

A 9.0 Agent [1.1; 6.2] Discipline

Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
		Mobile number	
Country		E-mail	
Postal address			
		Postal code	
Physical address			
		Postal code	

A 10.0 Agent [1.1; 6.2] Discipline

Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
		Mobile number	
Country		E-mail	
Postal address			
		Postal code	
Physical address			
		Postal code	

A 11.0 Agent [1.1; 6.2] Discipline

Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
		Mobile number	
Country		E-mail	
Postal address			
		Postal code	
Physical address			
		Postal code	

A 12.0 Agent [1.1; 6.2]

Discipline

Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
		Mobile number	
Country		E-mail	
Postal address			
		Postal code	
Physical address			
		Postal code	

B CONTRACT INFORMATION

B 1.0 Definitions [1.1]

Bills of quantities: System/Method of measurement	Seventh Edition 2015 of the Standard System of Measuring Builder's Work
---	---

B 2.0 Law, regulations and notices [2.0]

Law applicable to the works, state country [2.1]	South Africa
--	--------------

B 3.0 Offer and acceptance [3.0]

Currency applicable to this agreement [3.2]	ZAR
---	-----

B 4.0 Documents [5.0]

The original signed agreement is to be held by the principal agent [5.2], if not, indicate by whom	Employer
Number of copies of construction information issued to the contractor at no cost [5.6]	

Documents comprising the agreement	Page numbers
The JBCC® Principal Building Agreement, Edition 6.2 May 2018	1 to 30
The JBCC® Principal Building Agreement - Contract Data for Organs of State and other Public Sector Bodies, Edition 6.2 May 2018	1 to 14
The JBCC® General Preliminaries for use with the JBCC® Principal Building Agreement, Edition 6.2 May 2018	1 to 7
Bills of Quantities	

Contract drawings – description	Number	Revision	Date

B 5.0 Employer's agents [6.0]

Authority is delegated to the following agents to issue contract instructions and perform duties for specific aspects of the works [6.2]

Principal Agent [6.1, 6.2]

Delegations to other agents will be confirmed in writing during contract execution [6.2]

Principal agent's and agents' interest or involvement in the works other than a professional interest [6.3]

B 6.0 Insurances [10.0]

Insurances by contractor			Amount including tax	Deductible amount including tax
Yes/no?				
	New works [10.1.1] (contract sum or amount)		Contract sum+30%	With a deductible to be determined by the insurance company issuing the policy
or	Works with practical completion in sections [10.2] (contract sum or amount)		Contract sum+30%	With a deductible to be determined by the insurance company issuing the policy
or	Works with alterations and additions [10.3] (reinstatement value of existing structures with or including new works)			
	Direct contractors [10.1.1; 10.2] where applicable, to be included in the contract works insurance			
	Free issue [10.1.1; 10.2] where applicable, to be included in the contract works insurance			
	Escalation, professional fees and reinstatement costs if not included above			
Total of the above contract works insurance amount				
Supplementary insurance [10.1.2]			Contract sum+30%	With a deductible to be determined by the insurance company issuing the policy
Public liability insurance [10.1.3]			R10 million	With a deductible to be determined by the insurance company issuing the policy
Removal of lateral support insurance [10.1.4]				
Other insurances [10.1.5]: Refer B17.0				
Yes/no?	Yes	If yes, description 1		
Hi Risk Insurance [10.1.5.1]				
Yes/no?		If yes, description 2		

B 7.0 Obligations of the employer [12.1]

Existing premises will be in use and occupied [12.1.2]	Yes/no?	
If yes, description		
Restriction of working hours [12.1.2]	Yes/no?	
If yes, description		
Natural features and known services to be preserved by the contractor [12.1.3]	Yes/no?	
If yes, description		
Restrictions to the site or areas that the contractor may not occupy [12.1.4]	Yes/no?	
If yes, description		
Supply of free issue [12.1.10]	Yes/no?	
If yes, description		

B 8.0 Nominated subcontractors [14.0]

Yes/no?		If yes, description of specialisation
Specialisation 1		
Specialisation 2		
Specialisation 3		
Specialisation 4		
Specialisation 5		

B 9.0 Selected subcontractors [15.0]

Yes/no?		If yes, description of specialisation
Specialisation 1		
Specialisation 2		
Specialisation 3		
Specialisation 4		
Specialisation 5		

B 10.0 Direct contractors [16.0]

Yes/no?		If yes, description of extent of work

B 11.0 Description of sections [20.1]

Section 1	
Section 2	
Section 3	
Section 4	
Section 5	
Section 6	
Section	Remainder of the works

B 12.0 Possession of site [12.1.5], practical completion [19.0; 20.0] and penalty [24.0]

Practical completion for the works as a whole	Intended date of possession of the site Refer B17.0 [12.1.5; 12.2.22]	Period for inspection by the principal agent [19.3]	The date for practical completion shall be the period as indicated below from the date of possession of the site by the contractor [12.2.7; 24.1]	Penalty for late completion [24.1]
		working days	Period in months	Penalty amount per calendar day

or where **sections** are applicable

Practical completion of a section of the works	Intended date of possession of a section Refer B17.0 [12.1.5; 12.2.22]	Period for inspection by the principal agent [19.3]	The date for practical completion shall be the period as indicated below from the date of possession of the site by the contractor [12.2.7; 24.1]	Penalty for late completion [24.1]
		working days	Period in months	Penalty amount per calendar day
Section 1				
Section 2				
Section 3				
Section 4				
Section 5				
Section 6				
Section 7				
Section 8				
Remainder of the works				

Criteria to achieve practical completion not covered in the definition of practical completion

B 13.0 Defects liability period [21.0]

Extended defects liability period: Refer B17.0 [21.13]	Yes/no?	
If yes, description of applicable elements	eg: Electrical reticulation / Air conditioning system / Landscaping 13.1 13.2 13.3 13.4 13.5 13.6	

B 14.0 Payment [25.0]

Date of month for issue of regular payment certificates [25.2]	TBC		
Contract price adjustment / Cost fluctuations [25.3.4; 26.9.5]	Yes/no?		
If yes, method to calculate	CPAP		
Employer shall pay the contractor within: [25.10]	Fourteen (14) calendar days		

B 15.0 Dispute resolution [30.0]

Adjudication [30.6.1; 30.10]			
Name of nominating body			
Applicable rules for adjudication [30.6.2]			
Arbitration [30.7.4; 30.10]	Yes/no? *		
If Yes, name of nominating body	Association of Arbitrators (South Africa)		
* If No, then dispute will be referred to litigation			
Applicable rules for arbitration [30.7.5]			

B 16.0 JBCC® General Preliminaries - selections

Provisional bills of quantities [P2.2]		Yes/no?		
Availability of construction information [P2.3]		Yes/no?		
Previous work - dimensional accuracy - details of previous contract(s) [P3.1]				
Previous work - defects - details of previous contract(s) [P3.2]				
Inspection of adjoining properties - details [P3.3]				
Handover of site in stages - specific requirements [P4.1]				
Enclosure of the works - specific requirements [P4.2]				
Geotechnical and other investigations - specific requirements [P4.3]				
Existing premises occupied - details [P4.5]				
Services - known - specific requirements [P4.6]				
Water [P8.1]	By contractor	Yes/no?	Yes	
	By employer	Yes/no?	No	
	By employer – metered	Yes/no?		
Electricity [P8.2]	By contractor	Yes/no?	Yes	
	By employer	Yes/no?	No	
	By employer – metered	Yes/no?		
Ablution and welfare facilities [P8.3]	By contractor	Yes/no?	Yes	
	By employer	Yes/no?	No	
Communication facilities - specific requirements [P8.4]				
Protection of the works - specific requirements [P11.1]				
Protection / isolation of existing works and works occupied in sections - specific requirements [P11.2]				
Disturbance - specific requirements [P11.5]				

Environmental disturbance - specific requirements[P11.6]

B 17.0 Changes made to JBCC® documentation

1.1 Definitions

AGREEMENT: The completed Form of Offer and Acceptance, the completed **JBCC®** Principal Building Agreement and **JBCC® contract data for organs of state and other public sector bodies**, the **contract drawings**, the **priced document** and any other documents reduced to writing and signed by the authorized representatives of the **parties**

CONSTRUCTION PERIOD: The period commencing on the date of possession of the **site** by the **contractor** and ending on the date of **practical completion**

CONTRACT DATA FOR ORGANS OF STATE AND OTHER PUBLIC SECTOR BODIES: The document listing the Organs of State and other Public Sector Bodies' requirements and the project specific information

INTEREST: The interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No 1 of 1999), calculated as simple interest, in respect of debts owing to the State, and will be the rate as determined by the Minister of Justice and Constitutional Development from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No 55 of 1975), calculated as simple interest, in respect of debts owing by the State

PRINCIPAL AGENT: The person or entity appointed by the **employer** and named in the **contract data for organs of state and other public sector bodies**. In the event of a **principal agent** not being appointed, then all the duties and obligations of a **principal agent** as detailed in the **agreement** shall be fulfilled by the employer's representative as named in the **contract data for organs of state and other public sector bodies**

3.0 OFFER AND ACCEPTANCE

Amend 3.3 to read as follows:

This **agreement** shall come into force on the date as stated on the Form of Offer and Acceptance and continue to be of force and effect until the end of the **latent defects'** liability period [22.0] notwithstanding termination [29.0] or the certification of **final completion** [21.0] and final payment [25.0]

6.0 EMPLOYER'S AGENTS

Add the following as 6.7:

In terms of the clauses listed hereunder, the **employer** has retained its authority and has not given a mandate to the **principal agent**. The **employer** shall sign all documents in relation to clauses 4.2, 14.1.2, 14.1.4, 14.4.1, 14.6, 23.1, 23.2, 23.3, 23.7, 23.8, 26.1, 26.7, 26.12 and 28.4

9.0 INDEMNITIES

9.2.7: Add the following to the end of the first sentence: “.... due to no fault of the **contractor**”

10.0 INSURANCES

Add the following as 10.1.5.1:

Hi RISK INSURANCE

In the event of the project being executed in a geological area classified as a “High Risk Area”, that is an area which is subject to highly unstable sub-surface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:

10.1.5.1.1 DAMAGE TO THE WORKS

The contractor shall, from the date of possession of the **site** until the date of the **certificate of practical completion**, bear the full risk of and hereby indemnifies and holds harmless the **employer** against any damage to and/or destruction of the **works** consequent upon a catastrophic ground movement as mentioned above. The **contractor** shall take such precautions and security measures and other steps for the protection of the **works** as he may deem necessary

When so instructed to do so by the **principal agent**, the **contractor** shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**, at the **contractor's** own costs

10.1.5.1.2 INJURY TO PERSONS OR LOSS OF OR DAMAGE TO PROPERTY

The **contractor** shall be liable for and hereby indemnifies and holds harmless the **employer** against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above

The **contractor** shall be liable for and hereby indemnifies the **employer** against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable property, or personal property, or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract

10.1.5.1.3

It is the responsibility of the **contractor** to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.1.5.1.1 and 10.1.5.1.2. Without limiting the **contractor's** obligations in terms of the contract, the **contractor** shall, within twenty-one (21) **calendar days** of the date of possession of the site, but before commencement of the **works**, submit to the **employer** proof of such insurance policy, if requested to do so

10.1.5.1.4

The **employer** shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the **contractor's** default of his obligations as set out in 10.1.5.1.1;

10.1.5.1.2 and 10.1.5.1.3. Such losses or damages may be recovered from the **contractor** or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the **employer** and the **contractor** and for this purpose all these contracts shall be considered one indivisible whole

11.0 SECURITIES

Amend 11.10 to read as follows:

There shall be no lien or right of retention held by any **contractor** in respect of the **works** executed on **site**

12.0 Obligations of the Parties

Amend 12.1.5 to read as follows:

Give possession of the **site** to the **contractor** within ten (10) **working days** of the **contractor** complying with the terms of 12.2.22

12.2.2: Not applicable

Add the following as 12.2.22:

Within fifteen (15) **working days** of the date of the **agreement** submit to the **principal agent** an acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)

19.0 PRACTICAL COMPLETION

19.5: Delete the words "subject to the **contractor's** lien or right of continuing possession of the **works**

where this has not been waived"

21.0 DEFECTS LIABILITY PERIOD AND FINAL COMPLETION

Add the following as 21.13:

The ninety (90) **working days** defects liability period for the **works** [21.1] is replaced with a period of three hundred and sixty-five (365) **calendar days** in respect of the listed applicable elements

25.0 PAYMENT

25.7.5: Not applicable

25.10: Delete the words "and/or **compensatory interest**"

25.14: Change the **notice** period from five (5) **working days** to ten (10) **working days** in order to lineup with the **notice** period in 28.1

25.14.2: Not applicable

27.0 RECOVERY OF EXPENSE AND/OR LOSS

27.1.5: Not applicable

29.0 TERMINATION

Add the following after 29.1.3:

or where ...

29.1.4 : The **contractor's** estate has been sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa

29.1.5 : The **contractor** has engaged in corrupt or fraudulent practices in competing for or in executing the contract

C TENDERER'S SELECTIONS

C 1.0 Securities [11.0]

Guarantee for construction: Select Option B or C ☐

Option A	Guarantee for construction (variable) by contractor [11.1.1] (Not Applicable- SCM Policy clause 20.3)
----------	--

Option B	Guarantee for construction (fixed) by contractor [11.1.2]
----------	---

Option C	Retention
----------	------------------

Guarantee for payment by employer [11.5.1; 11.10]	Not applicable
--	----------------

Advance payment, subject to a guarantee for advance payment [11.2.2; 11.3]	Not applicable
---	----------------

C 2.0 Contractor's annual holiday periods during the construction period

Year 1 contractor's annual holiday period	start date		end date	
Year 2 contractor's annual holiday period	start date		end date	
Year 3 contractor's annual holiday period	start date	TBC	end date	

C 3.0 Payment of preliminaries [25.0]

Contractor's selection

Select Option A or B ☐

Where the **contractor** does not select an option, Option A shall apply

Payment methods

Option A	The preliminaries shall be paid in accordance with an amount prorated to the value of the work executed in the same ratio as the amount of the preliminaries to the contract sum , which contract sum shall exclude the amount of preliminaries . Contingency sum(s) and any provision for cost fluctuations shall be excluded for the calculation of the aforesaid ratio
Option B	The preliminaries shall be paid in accordance with an amount agreed by the principal agent and the contractor in terms of the priced document to identify an initial establishment charge, a time-related charge and a final dis-establishment charge. Payment of the time-related charges shall be assessed by the principal agent and adjusted from time to time as may be necessary. to take into account the rate of progress of the works

Lump sum contract

Where the amount of **preliminaries** is not provided it shall be taken as 7.5% (seven and a half per cent) of the

contract sum, excluding contingency sum(s) and any provision for cost fluctuations

C 4.0 Adjustment of preliminaries [26.9.4]

Contractor's selection

Select Option A or B ☐

Where the **contractor** does not select an option, Option A shall apply

Provision of particulars

The **contractor** shall provide the particulars for the purpose of the adjustment of **preliminaries** in terms of his selection. Where completion in **sections** is required, the **contractor** shall provide an apportionment of **preliminaries** per **section**

Option A	An allocation of the preliminaries amounts into Fixed, Value-related and Time-related amounts as defined for adjustment method Option A below, within fifteen (15) working days of the date of acceptance of the tender
Option B	A detailed breakdown of the preliminaries amounts within fifteen (15) working days of possession of the site . Such breakdown shall include, inter alia, the administrative and supervisory staff, the use of construction equipment , establishment and dis-establishment charges, insurances and guarantees, all in terms of the programme

Adjustment methods

The amount of **preliminaries** shall be adjusted to take account of the effect which changes in time and/or value have on **preliminaries**. Such adjustment shall be based on the particulars provided by the **contractor** for this purpose in terms of Options A or B, shall preclude any further adjustment of the amount of **preliminaries** and shall apply notwithstanding the actual employment of resources by the **contractor** in the execution of the **works**

Option A	The preliminaries shall be adjusted in accordance with the allocation of preliminaries amounts provided by the contractor, apportioned to sections where completion in sections is required. Fixed - An amount which shall not be varied. Value-related - An amount varied in proportion to the contract value as compared to the contract sum. Both the contract sum, and the contract value shall exclude the amount of preliminaries, contingency sum(s) and any provision for cost fluctuations Time-related - An amount varied in proportion to the number of calendar days extension to the date of practical completion to which the contractor is entitled with an adjustment of the contract value [23.2; 23.3] as compared to the number of calendar days in the initial construction period [26.9.4]
Option B	The adjustment of preliminaries shall be based on the number of calendar days extension to the date of practical completion to which the contractor is entitled with an adjustment of the contract value [23.2; 23.3] as compared to the number of calendar days in the initial construction period [26.9.4]

The adjustment shall take into account the resources as set out in the detailed breakdown of the **preliminaries** for the period of construction during which the delay occurred

Failure to provide particulars within the period stated

Option A	Where the allocation of preliminaries amounts for Option A is not provided, the following allocation of preliminaries amounts shall apply: Fixed - Ten per cent (10%) Value-related - Fifteen per cent (15%) Time-related - Seventy-five per cent (75%) Where the apportionment of the preliminaries per section is not provided, the categorized amounts shall be prorated to the cost of each section within the contract sum as determined by the principal agent
Option B	Where the detailed breakdown of preliminaries amounts for Option B is not provided, Option A shall apply

Lump sum contract

Where the amount of **preliminaries** is not provided it shall be taken as 7.5% (seven and a half per cent) of the **contract**.

C1.2.3 ADDITIONAL CONDITIONS OF CONTRACT

C1.2.3.1 COMMUNITY LIAISON OFFICER

The Ward Councillor(s) in whose ward(s) work is to be done will, collectively, identify a community liaison officer (CLO) for the project and make the person known to the Contractor within two days of being requested to do so. The selected CLO shall be accountable to the Contractor. The Contractor will be required to enter a written contract with the CLO that specifies:

- The hours of work and the wage rate of the CLO (200% of the Civil Engineering Industry minimum wage). **The maximum hours of work per day is eight hours. No payment will be made for public holidays and weekends.**
- The duration of the appointment.
- The duties to be undertaken by the CLO which could include:
 - Assisting in all respects relating to the recruitment of local labour.
 - Acting as a source of information for the community and councillors on issues related to the contract.
 - Keeping the Contractor advised on community issues and issues pertaining to local security.
 - Assisting in setting up any meetings or negotiations with affected parties.
 - Keeping a written record of any labour or community issue that may arise.
 - Any other duties that may be required by the Contractor.

Responsibility for the identification of a pool of suitable labour shall rest with the CLO, although the Contractor shall have the right to choose from that pool. The Contractor shall have the right to determine the total number labourers required at any one time and this may vary during the contract. The Contractor shall have the right to replace labour that is not performing adequately. Should such occasion arise, it must be done in conjunction with the CLO.

The primary role of the CLOs shall be liaison and facilitation of communication. This could include inter alia:

- assisting in all aspects related to the recruitment of local labour, and advise them of their rights
 - acting as a source of information for the community and Councillors on issues related to the contract
 - keeping the contractor advised on community issues
 - keeping the contractor advised on any issues pertaining to local security
 - assisting in setting up any meetings/ negotiations with affected parties
 - keeping a site diary and recording details of any labour/community issues that may arise
 - monitoring and reporting on general Health & Safety issues on site
 - assisting in HIV/AIDS awareness programmes
- it must be noted that the CLO has no authority to issue any instructions to the Contractor

The CLO needs to be seen as neutral by all parties and should therefore endeavour not to take sides should a conflict arise. Should the CLO function not involve a full day's work, the CLO will be expected to undertake other work allocated by the Contractor for the balance of each day.

The minimum skills for a CLO shall include:

- An ability to work with others
- An ability to communicate in Zulu and English
- An ability to communicate in writing
- Sound Interpersonal skills

Previous experience in community facilitation, and knowledge of construction work and relevant labour legislation would be an advantage.

Payment: The CLO will be reimbursed from the Budgetary Allowance Section of the Bill of Quantities. A budgetary allowance has been made for the CLO in this Bills of

Quantities/Specification under the Section – Budgetary Allowances.

C1.2.3.2 EMPLOYMENT OF LOCAL LABOUR

It is a condition of contract that the contractor will be required to employ local labour as specified in eThekweni Council Policy “The use of CLOs and Local Labour”. The contractor will be required to ensure that a minimum of 50% of the labour force is made up of local labour. For the purposes of this contract and associated work order packages, “Local labour” will be deemed to be any **persons who resides within Ward(s)** in which the Works is situated. The contractor will be required to provide proof of authenticity of local labour. Signed confirmation by the appointed CLO will suffice for this.

No additional costs will be entertained due to this Particular Specification. The contractor will remain responsible for providing proper supervision of all labour and will be responsible for the quality of work produced.

Local labour shall be paid in accordance with the Civil Engineering Industry minimum wage rate. (See www.labour.gov.za or www.safcec.co.za), and all statutory conditions of employment shall be met.

C1.2.3.3 SUB-CONTRACTING (Applicable at task stage)

It is a condition of contract that the contractor must allow for a minimum of the contract value (excluding PC Sum items and Fixed Cost allowances) to be subcontracted to contractors who are **>51%** owned by Black People. Proof of payment to the subcontractors will be required to verify that the minimum has been achieved.

The penalty for not achieving the specified Sub-Contracting Goal will be 0.5% of the contract value (excluding PC Sum items and Fixed Cost allowances) for every 1% not achieved.

Subcontracting percentages will be determined on a **Work Package Order** specific basis, depending on the nature of works and Subcontracting potential. The following provisions shall generally apply to issued **Work Package Orders**:

- Value greater than R750k, up to R1m: Minimum 5% subcontracting.
- Value greater than R1m, up to R3m: Minimum 10% subcontracting.
- Value greater than R3m, up to R5m: Minimum 20% subcontracting.
- Value greater than R5m: Minimum 30% subcontracting.

The Contractor shall sub-contract to an EME or QSE which is at least 51% owned by black people. These Enterprises must be from the ward(s) where work is taking place in the first instance and, if the Contractor cannot procure such enterprises from the ward(s), this may be achieved by sub- contracting with such qualifying Enterprises located within adjacent wards, failing which the Sub- Contractors may be sourced within the jurisdiction of eThekweni Municipality.

Sub-contracting may be to:

- Contractors who are registered with the Construction Industry Development Board in the Grades ranging from 1 to 4,
- Material and equipment suppliers who meet the requirements of an EME or QSE as detailed above.

Payment certificates (where applicable), Tax invoices, Proof of payment to the subcontractors and equipment and material suppliers will be required to verify that this has been achieved.

The contractor shall be fully responsible for the management of all appointed Sub-Contractors. The contractor shall ensure that a suitable quality monitoring process is in place for each element of the works and that the Sub-Contractors are conversant on the requirements thereof.

For any work being sub-contracted, documents of the relevant sub-contractor must be submitted to the Employer's Agent in writing for approval well in advance before commencement of any of the activities on the programme. Subcontractors shall be approved by the Employer. The Employer is under no obligation to accept the proposed Subcontractor, and rejection by the Employer does not absolve the Contractor of their subcontracting responsibilities in terms of this contract.

No additional costs will be entertained for compliance with this requirement

C1.2.3.3 SUBMISSION OF SUBCONTRACTING PLAN

At the commencement of each **Work Package Order**, the Contractor shall provide a subcontracting plan for the Sub-Contracting using the Scope of Work and its related cost to demonstrate how the stipulated subcontracting targets will be achieved.

Prior to commencement of works, as per Clause 5.3.1 of the Contract Data, the Contractor shall provide such comprehensive subcontracting Plan for approval by the Employer's Agent. Should the Sub- Contractors be allocated work that exceeds their CIDB grading, then the work allocated to these Sub-Contractors shall be reduced to the upper limit of their CIDB Grading, and the Main Contractor shall be required to source additional Sub-Contractors to achieve the tendered Sub-Contract Value. The Primary Contractor shall be required to update the subcontracting plan for approval by the Employer's Agent before work commences. This plan may be updated during the contract period but shall still be for the approval of the Employer's Agent. The subcontracting plan shall ensure an adequate and acceptable distribution of works across the identified CIDB Grading range (viz. 1 CE to 4 CE); the plan shall be subject to approval by the Employer, (taking into consideration the scope of works risk profile and associated allocation of works), and any amendments required to achieve an acceptable distribution of works shall be implemented by the Contractor at no additional cost to the contract.

Rates of works allocated to subcontracting Sub-Contractors shall be evaluated to ensure they are market related. The Contractor will be required to demonstrate that the rates provided are fair and reasonable, taking into consideration the limitations that subcontracting contractors may face to procure materials and equipment at discounted rates. Where it is found that the rates provided are unrealistic/not market related and the subcontracting contractor cannot undertake the works at the rates tendered by the main contractor, the main contractor will be required to balance their rates, at no additional cost to the contract, to address the non-market related rates tendered by the main contractor; (market related rates

will be based on cost structures applicable to the level of subcontracting company undertaking the works). The approval of the subcontracting plan shall not absolve the main contractor of his contractual responsibility or for any rates dispute that may arise during the implementation of the contract, based on the rates tendered or adjusted during the award process.

The penalty for not achieving the specified subcontracting will be 0.5% of the **Work Package Order** value (excluding PC Sum items and Fixed Cost allowances) for every 1% of subcontracting not achieved.

C1.2.3.4 FTE (Full Time Equivalent) EMPLOYMENT INFORMATION

It is a condition of contract that the Contractor supplies the Employer's Agent's Representative with information in respect of the employment of all foremen, artisans and Labour (skilled and unskilled) employed to work on this contract. The information required is:

- Initials (per ID doc)
- Last Name (per ID doc)
- ID Number
- Disability (y / n)
- Education Level

Level 1 Unknown	Level 2 No Schooling	Level 3 Grade 1-3	Level 4 Grade 4	Level 5 Grade 5-6
Level 6 Grade 7-8	Level 7 Grade 9	Level 8 Grade 10-11	Level 9 Grade 12	Level 10 Post Matric

- Category of Employment

Category A: Employed as Local Labour for this contract only Category B: Temporarily employed by the Contractor Category C: Permanently employed by the Contractor
--

In addition, the following information is required in respect of each person listed above, on a monthly basis:

- Number of days worked during the month;
- Daily wage rate;
- Number of training days during the month.

The information is to be forwarded in a format acceptable to the Employer's Agent's Representative, but preferably in the form of an emailed EXCEL file (an original file, to be used as a template, will be issued to the Contractor). Contractors without computer facilities will be required to submit a hard copy of the information in a format as agreed to between the Contractor and the Employer's Agent's Representative.

In addition to the tax invoice, to be submitted by the Contractor with his monthly statement, mentioned in Clause 25 of JBCC Principal Building Agreement May 2018 Edition, the Employer reserves the right to withhold payment until the monthly FTE information has been forwarded to the Employer's Agent's Representative. No additional payment for complying with the above will be made and the Contractor is to make allowance for complying through the time related P & G items (sum) under Part AA: Preliminaries, of the Bill of Quantities.

C1.2.3.5 PERFORMANCE MONITORING OF SERVICE PROVIDERS

[For all task awards] The Contractor shall be subjected to "Performance Monitoring" assessments in terms of the applicable Section (S.53) of the Employer's Supply Chain Management Policy.

Key Performance Indicators (KPIs) are specified in the C3: Scope of Works, or will be discussed and agreed with the Contractor before commencement of the contract.

The Contractor shall be subjected to "Performance Monitoring" assessments in terms of the

applicable Section (S.53) of the Employer's Supply Chain Management Policy.

Appropriate key performance indicators (KPIs) for the contract will be set by the Municipality as a yardstick for measuring performance. Key Performance Indicators (KPIs) will be discussed and agreed with the Contractor before commencement of the contract.

The following KPIs may be applicable to this contract:

- (a) Time Management
- (b) Financial Management
- (c) Quality Management
- (d) Occupational Health and Safety Management
- (e) Environmental Management
- (f) Meeting subcontracting Targets

C1.2.3.6. NON-EXCLUSIVE APPOINTMENT

The Contractor must note that, whilst this contract is intended to execute Infrastructure projects, there is no guarantee of works being allocated via this appointment. The Employer may elect, at any time, to implement projects using other available procurement mechanisms as to ensure necessary expenditure and service delivery timeframes are met. The works undertaken for this contract are on a non-exclusive basis and the Contractor shall have no recourse against the Employer for any works allocated to other parties through other Employer procurement mechanisms.

C1.2.3.7. WORKS ALLOCATION – ALL WORKS

A works allocation strategy for this framework will be structured to ensure compliance with the Constitution, MFMA, CIDB prescripts, SCM Policy, fairness, transparency, contractor development, and service delivery efficiency. The allocation will be multipronged, not limited to, but taking into consideration (1) CIDB grading, (2) rotation, (3) workload availability, (4) contractor performance, (5) client priority in line with service delivery targets, (6) contractors site familiarity/mitigation of liability, (7) regionalised allocation, (8) service provider overall compliance.

This is to ensure the following:

- equitable distribution of work opportunities, where practical
- Promote contractor development and transformation
- Improve turnaround times for maintenance and emergency works
- Maintain quality and contractor accountability
- Prevent monopolisation of work by a few contractors
- Align allocations with CIDB grading and contractor capability
- Ensure compliance with SCM legislation and audit requirements

The Employer reserves the right to issue Work Package Orders to any of the Framework Contractors.

C1.2.3.8. TEMPORAL SUSPENSION DUE TO NON-PERFORMANCE/DEFAULT

Should a contractor consistently demonstrate poor performance in the execution of two consecutive allocated tasks, undertakes works without formal written instruction or issuance of task, eThekweni Municipality reserves the right to temporarily suspend the contractor from the framework for a minimum period of three (3) to six (6) months.

INITIAL:

C1.2.3.9. TERMINATION

Any contractor who is suspended from the framework more than twice, or for an aggregate period of not less than six (6) to twelve (12) months, shall be subject to immediate termination from the framework. Further to that, the terminated service provider will be blacklisted as per SCM policy.

Any intimidation, threats, harassment, stalking, unreasonable demands, or abuse directed at municipal employees by the service provider shall constitute grounds for immediate termination from the 36585-1B contract and blacklisting.

Any extortion related behaviour on 36585-1B will be regarded as a criminal offence and reported both within and outside the Municipality. Such conduct will result in immediate termination and the contractor being blacklisted from participating in or tendering for any contracts within eThekweni Municipality and other government sectors.

C1.2.3.10. DUTIES AND RESPONSIBILITIES OF A CONTRACTS MANAGER

The Contracts Manager, as a minimum, shall undertake the following requirements:

- Be the link between the employer's Agent and the Contractor.
- Always be available during the execution of any **Work Package Orders** and be immediately physically available when requested.
- Always be up to date with the activities and problems on all projects within the Contract.
- Monitor **Work Package Order** progress and performance to ensure goods and services conform to the **Work Package Order** requirements.
- Ensure proper co-ordination of all **Work Package Orders** within the Contract.
- Ensure that sufficient human resources are available to function adequately, for example Construction Managers.
- Ensure that sufficient constructional plant and equipment resources are available to complete all projects allocated.
- Ensure that the proper sub-contracting resources are arranged on time for the timeous completion of all projects.
- Prepare and submit the combined monthly programme of works of **Work Package Orders** to the Employer's Agent's Representative.
- Prepare and submit the combined monthly cashflow of all **Work Package Orders** to the Employer's Agent's Representative.
- Prepare and submit the combined monthly progress report of all **Work Package Orders** to the Employer's Agent's Representative.
- Prepare and submit the combined monthly quality report of **Work Package Orders** to the Employer's Agent's Representative.
- Oversee and ensure that construction managers are carrying out all **Work Package Orders** to the required specification.
- Ensure that all sites are compliant with the Health and Safety specifications.
- Resolve disputes in a timely manner.
- Establish control of correspondence, data and reports.

Establish a procedure, identifying a responsible person and establish a timeframe for handling non-compliance.

C1.2.3.11 SYSTEM OF MEASUREMENT

These Bills of Quantities, unless otherwise stated, shall be deemed to have been prepared in accordance with the SEVENTH EDITION of the Standard System of Measuring Builders' Work issued by the Association of South African Quantity Surveyors.

INITIAL:

C1.2.3.12 CONTRACT PRICE ADJUSTMENT PROVISIONS

The Contract Rates shall be fixed for the first 12 months.

The Contract Rates shall then be adjusted at month 12, applicable for months 13 to 24 and then adjusted at month 24, applicable for months 25 to 36; all in accordance with the Contract Price Adjustment Provisions, Haylett Formula Work Group 181.

C1.2.3.13 APPLICATIONS FOR SERVICE CONNECTIONS

The Contractor is to be responsible for all timeous applications for service connections, including electricity, water, sewerage, etc. The Department is responsible for payment of these connection fees, where Departmental Sums have been included in the Tender Summary.

C1.2.3.14 MARKET RELATED WAGE RATES

When pricing this document, Tenderers are to allow for wages which are not less than the BCCEI recommended minimum rates applicable at any time during the duration of the contract.

C1.2.3.15 TENDER PRICES AND CONTINGENCY SUM:

All Tenders are to be firmly priced in South African currency.

C1.2.3.16 CONTRACTS RATES

The contract rates applicable will be as determined using the average rates submitted by all responsive tenderers. This approach is considered fair, reasonable and reflective of prevailing market-related pricing received during the tender stage.

The contract sum will be used as a notional value to check responsiveness in terms of rates only for all tenderers. It will not be applicable for responsiveness in terms of CIDB grading as it will prejudice lower grades due to the use of model bills of quantities which caters for most items per trade.

C1.2.3.17 VALUE-ADDED TAX (VAT):

All prices and or rates tendered shall be deemed to be EXCLUSIVE of Value-Added Tax. Value-Added Tax shall be added as a lump sum where provided on the SUMMARY/ FINAL SUMMARY page and as shown in the Tender Form.

Tenderers shall state, where provided on the Tender Form, their VAT Registration Number.

C1.2.3.18 OCCUPATIONAL HEALTH AND SAFETY ACT:

The Contractor's particular attention is drawn to the Occupational Health & Safety Specification as an Annexure to this document at task order assignment. The Contractor will be required to submit with his tender an Occupational Health & Safety Plan for this project indicating what steps he is going to take to comply with this Occupational Health & Safety Specification and indeed that

he has made allowance for compliance with this document within his Tender Price. Failure to do so will render his Tender liable for disqualification.

The principle health and safety risks involved on this specific site will include:

Excavation Works – Deep excavations

Working at heights

- Working in an occupied built environment.
- The environment has a “live” electrical supply.
- The buildings have an existing electrical infrastructure and systems.
- Work would need to be done under normal circumstances without causing power interruptions, downtime or affect other services to other equipment, machinery, etc.
- Where necessary to minimize downtime and/or shut down works. These works shall entail adequate scheduled notice to the occupants.
- The sites have other existing mechanical, electrical, civil, etc. services on site that may require co-ordination.
- Potential of systems being aged and non-compliant to SANS regulations.
- Potential for no existing “as-built” drawings and documentation being available for the electrical infrastructure and systems
- Requirement for working in ceilings, roof voids, basements and/or trenches.
- Work required may be on ladders and/or scaffolding.
- Work requires light electrical machinery and tools.

Other general applicable health and safety risks associated with electrical building services works

- Working at heights
- Working on Electrical Plant
- Working on mechanical Pressure Vessels
- Working in noisy environment
- Working with welding torch
- Working on different refrigerants (R22, R134A, R507, R404, R717 and R410A)
- Working with cutting tools
- Demolishing of old plants

C1.2.3.19 CONTRACTOR'S DOMESTIC SUBCONTRACTORS FOR PLUMBING INSTALLATION AND ELECTRICAL INSTALLATION

The tenderers attention is drawn to the requirement that the appointment of any sub-contractor to carry out electrical or plumbing installation under this contract, is subject to such sub-contractor being registered on the databases of eThekwini Electricity and Water Services respectively, as an accredited contractor.

C1.2.3.20 CONTRACTOR'S DOMESTIC SUBCONTRACTORS FOR WATER CONNECTION AND ELECTRICAL CONNECTION

The Contractor shall appoint a domestic subcontractor for the water connection who is on the eThekwini Water Services database.

The Contractor shall appoint a domestic subcontractor for the electrical connection who is on the eThekwini Electricity database.

C1.2.3.21 USE OF PROPRIETARY PRODUCTS

The tenderers attention is drawn to the fact that where in this document a proprietary product is specified, he may use a similar or equal approved product to the Architect's or Engineer's satisfaction.

C1.2.3.22 SCHEDULE OF DRAWINGS (applicable at task stage)

Refer to C3.5.1 or Annexure xx for a complete list of the drawings included with this tender.

C1.2.3.23 CONTRACT PERIOD (applicable at task stage)

This is a 36 months framework contract

C1.2.3.24 DAMAGE TO PERSONS OR PROPERTY

The successful Contractor shall indemnify and keep indemnified Council against any claim for death, injury, damage, or loss to any person or property whatsoever in respect thereof or in relation thereto.

The successful Contractor enters into this contract as an independent Contractor and shall be solely liable in respect of any claim for death, injury, damage, or loss to any person or property whatsoever in respect thereof or in relation thereto.

C1.2.3.25 SECURITY (RETENTION OR JBCC FIXED CONSTRUCTION GUARANTEE)

Clause 11.1.1 is deleted, ie. the selection of a Variable Construction Guarantee is deleted to conform to eThekweni Municipality's Supply Chain Management Policy Clause 20.3.

The Contractor shall either choose Retention or provide a JBCC Fixed Construction Guarantee to the Employer.

Where Security as Retention has been selected, the amount deducted shall be 10% of such value to the date of practical completion up to a limit of 10% of the contract sum.

Upon Practical Completion, the amount deducted shall be 2,5% of such value.

The 2,5% retention will be released with the Final Payment Certificate.

Interest will not be paid on retention or on the payment reduction amount by the Employer.

C1.2.3.26 CIDB B.U.I.L.D. PROGRAMME

a) CIDB Skills Standard

It will be a condition of contract that the Contractor shall, in the performance of the contract, achieve the **Contract Skills Development Goal** (CSDG) established in the below referenced standard:

- CIDB Standard for Developing Skills Through Infrastructure Contracts, published in Gazette Notice No. 48491 of 28 April 2023.

b) CIDB Indirect Targeting Standard

It will be a condition of contract that the Contractor shall, in the performance of the contract, achieve the **Subcontracting Goal** relating to the engagement of targeted enterprises as established in the below referenced standard:

- CIDB Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts, published in Gazette Notice No. 36190 of 25 February 2013.

C2.1 PRICING ASSUMPTIONS / INSTRUCTIONS

C2.1.1 GENERAL

- C2.1.1.1 A word or phrase in bold type in the Pricing Data shall have the meaning assigned to it in the definitions listed in the Conditions of Contract, Contract Data, and the JBCC Principal Building Agreement Edition 6.2 May 2018, JBCC Series 2000 May 2018 Preliminaries and the Model Preambles for Trades 2017 as issued by the Association of South African Quantity Surveyors. A word or phrase not in bold type shall be interpreted in the context of its usage.
- C2.1.1.2 Tenderers are to allow for wages which are not less than the Bargaining Council for the Civil Engineering Industry (BCCEI) agreed wage rates.
- C2.1.1.3 The agreement is based on the Conditions of Contract as specified in Part C1.2.1. Additions, deletions and alterations to the Conditions of Contract, as well as the contract specific variables, are as stated in the Contract Data as specified in Part C1.2.2 and Additional Conditions of Contract as specified in Part C1.2.3
- C2.1.1.4 Bills of Quantities: Except where indicated otherwise, the quantities of and classes and kinds of works set out in these Bills of Quantities are provisional and do not purport to represent the final quantities of and classes and kinds of work eventually required to be done. The quantities of and classes and kinds of work contained herein have been set down solely in order to form a basis for obtaining competitive tenders.

The Bills of Quantities are not to be used for ordering materials under any circumstances whether this be with regard to description or specification of materials or goods required, or with regard to quantities. Failure to comply with this condition is entirely at the Contractor's own risk. The Contractor shall be obliged upon instruction of the Principal Agent to execute such quantities of and classes and kinds of work as the Principal Agent in his sole discretion may deem necessary or which, in the Principal Agent's opinion, become expedient from time to time or which may be required to meet the Employer's requirements, whether or not such quantities of and classes or kinds of work may appear in these Bills of Quantities or the contract drawings.

The consideration payable to the Contractor in respect of the works shall be determined by the Agent by the application of the rates contained in the priced Bill of Quantities to the quantities of and classes and kinds of work executed, which quantities of and classes and kinds of work shall be determined by the Agent. The rates contained in the priced Bills of Quantities shall apply irrespective of the final quantities of the different classes and kinds of work executed. No claims for extras, loss of profit, variation of rates or other similar claims will be entertained as a result of any variations whatsoever between the quantities of work set out in these Bills of Quantities and the quantities of work actually executed, nor as a result of any variation whatsoever between the contract sum and the final value of works.

- C2.1.1.5 Budgetary Allowances and Provisional Sums: All items described as "Budgetary Allowance" shall be used as directed by the Employer and measured and valued and paid for.

No work for which "Budgetary Allowance" items are allowed shall be commenced without written instructions from the Principal Agent. The contractor is duly informed in this document that the Budgetary Allowance Items are completely subject to the discretion of the employer and will only form part of the contract value once duly authorised by the employer and executed by the contractor to the full satisfaction of the principal agent, irrespective of the fact that the Budgetary Allowance formed part of the contract sum.

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- C2.1.1.6 Prime Cost Amounts: Prime cost amounts are a net allowance (excluding VAT), for materials only, and the tenderer should allow for the necessary labour, wastage, profit, etc in pricing these items.
- C2.1.1.7 Value Added Tax: The tendered price must include for Value Added Tax (VAT). All rates, provisional sums, etc in these Bills of Quantities must however be net with VAT calculated and added to the total value thereof as provided for in the Final Summary.

C2.2: BILL OF QUANTITIES

The Bill of Quantities follows and comprises of 557 pages.

NOTE: TENDERERS ARE REQUIRED TO PRICE FOR THE APPLICABLE CLASS OF WORK BEING TENDERED FOR

- Section 1 – Preliminaries – 26 pages **(Not to be priced but a maximum of 15% of the contract value will be applicable at task level)**
- General Building Works – 316 pages
- Electrical – 97 pages
- Mechanical – 94 pages
- Lifts, Escalators, etc - 48 pages

NOTES:

- 1) The **TOTAL** of the Bill of Quantities will be used as a **Tender Assessment Schedule Value** for comparison and assessment purposes only. It is not related to any CIDB Grading Range, or Contract Sum.
- 2) **Section 1: Part 0102** and **Section 1: Part 0105** each have a **PC Sum item** at the end of the Parts.

This value is a **LARGE NEGATIVE VALUE** to remove the PC Sum item Amounts in the Part, leaving the Percentage (%) Rate Amounts unaffected.

This value is to be included in the summation of the item Amounts in the Part.

PART C3: SCOPE OF WORK

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C3.1: PROJECT DESCRIPTION AND SCOPE OF CONTRACT

C3.1.1 Client's / employer's objectives

The Employer seeks to undertake and deliver maintenance and capital works throughout the City through a suitable implementation mechanism which will allow for substantial works to be undertaken by contractors.

It is the intention of the **Architecture Division** to appoint contractor(s) in the eThekwin Municipality area, for Works to be issued on an “**as-and-when-required**” basis, with no guarantee on the quantum of works.

The establishment of Panels, of varying CIDB Grades, is so that works for any unscheduled projects can be executed without first having to start a lengthy procurement process.

The appointment will be for a period of three (3) years from the date of the issue of the “Letter of Award”.

C3.1.1.1 MTREF Budget Projects

The MTREF (medium term revenue expenditure framework) is a three-year overview of expected revenue and expenditure trends for local government in South Africa. This budget is approved prior to the commencement of a financial year (FY) but is subject to adjustments.

Unexpected events such as economic downturns, changes in grant allocations, updated forecasts, policy changes, or unforeseen expenditure can necessitate budget adjustments.

C3.1.1.2 Work Order Package and Agreements

Work Package Orders are to be executed, on an “**as-and-when-required**” basis, in terms of **Work Package Order and Agreement** documentation signed by the Employer and the Contractor.

The **Work Package Order and Agreement** will include information specific to the Work Package, inter-alia the relevant Contract Data, Schedule of Quantities, Scope, Specifications, and relevant drawings. It must be read in combination with this document and shall have precedence in the interpretation of any ambiguity or inconsistency between it and the contents of this document.

The **Work Package Order and Agreement** will be based on the “basket of items” and their associated rates (as submitted in **Part C2: Pricing Data**). Works will be identified from projects on the Department’s **Medium Term Revenue and Expenditure Framework Budget (MTREF)** (as may be adjusted), or from funding secured for other similar Works that may arise.

C3.1.1.3 Issuing of Work Package Orders

Work Package Orders will be issued, on an as-and-when-required basis. They will be limited to the approved contract/ project authority.

The appointed **Contractor**, in terms of the applicable Bill of Quantities, and on acceptance

by the Contractor, will be issued a **Work Package Order**.

The approval by the Senior Manager, Deputy Head, Directorate Director and Executive Director, where applicable, will be required prior to the issuing of **Work Package Orders**,

Should a Contractor be unable to undertake more works, OR their CIDB grading value (of incomplete works) has been reached, then any further **Work Package Orders** will be issued to one of the other appointed contractor(s), at the sole discretion of the Employer.

Depending on unscheduled disaster workload, all the Contractors may be used, after approval of the Directorate Director, to increase available resources.

C3.1.1.4 Unscheduled/ Emergency Works

For unscheduled/emergency Works, the Employer reserves the right to issue **Work Package Orders** to the most suited of the Contractors.

The Employer also reserves the right not to use any of the Contractors should the Employer deem it so necessary.

C3.1.2 Description of Works

The works will take place in all the regions within eThekweni Municipality to cover all wards.

C3.1.3 Description of the Framework Process

The Employer will enter into a number of Framework Contracts with Contractors following a functionality selection process, for services for a term of three (3) years.

The value of works Package Orders will vary according to the scope of works included within and will be within the following **CIDB 3 GB/EB/ME and above, 4SI and above** contractor grading categories.

Package Order shall be issued in accordance with the latest edition of the CIDB Standard Conditions of Tender and the Package Order shall be issued to the Contractor whose submission scores the highest number of tender evaluation points.

Contractors can only be issued with Package Orders to provide the services within the term of the Framework Contract. Package Orders may, however, have a completion date which extends beyond the term of the Framework Contract.

The Package Orders shall indicate who the Employer's Agent is. The Employer's Agent is fully empowered to act on behalf of the Employer for the services covered by the Package Order. The Employer's Agent will accept, or not accept, the Contractor's assessment of the amount due in terms of the contract.

The Package Orders will provide details of the precise nature of the services required and any task specific requirements. Additional Quality Criteria relevant to nature of the services required may be included in the call for quotations for a Package Order.

Values of Package Orders will be determined by the scope of the works contained within.

C3.1.4 Scope of Works in Package Orders

The following will be covered in detail as part of the Scope of Works for each individual Package Order:

- Scope of Work
- Programme, Method of Work
- Services (general)
- Services (specific)
- Management of the Environment
- Occupational Health and Safety
- Preferential Procurement

C3.1.3 Description of Site and Access

The sites will be made indicated in the **Work Package Order and Agreement** documentation.

C3.1.4 Nature of Ground and Subsoil Conditions

Specific information regarding the nature of the ground and subsoil conditions will be made available in the **Work Package Order and Agreement** documentation.

C3.1.5 Programming of Works

The contractor shall programme the identified works so as to ensure that the full scope of the works are undertaken within the three (3) financial years.

The Employer's has an appointed Consultant Team, (comprising of Engineers, Architects and Quantity Surveyors) through a professional services panel, to provide professional services associated with the above works.

C3.1.6 Key Personnel

Due to the nature of the work, key personnel allocated must have sufficient skill and competency to implement the work; personnel must further be able to project manage and including being able to deal with socio-economic and related conditions arising from such works. The key personnel at task stage must match the competencies of the key personnel at tender stage.

C3.1.7 Co-operation with other services providers / Stakeholders

In undertaking the works, the appointed contractor will be required to work closely with, but not limited to:

- Consultant team
- Employer's Departmental representative, (such being determined based on the scope of works and responsible department);
- Ward councillor
- Local ward based contractors / subcontracting targeted contractors
- Business Interest Groups
- Materials and equipment suppliers

C3.1.8 Quality Management

The contractor shall be fully responsible for the management of all sub-contractors appointed. The contractor shall therefore ensure that a suitable quality monitoring process is in place for each element of the works and that the appointed sub-contractors is conversant on the requirements thereof.

The Contractor shall keep relevant records of all tests and inspections undertaken and will be responsible for submission of all test results as may be required in terms of the Project Specification.

C3.1.10 Management Meetings

Requirements for meetings will be specified upon commencement of the project; monthly management meetings will be held with the Employer, Programme Manager, Consultant and Contractor. Such will be held at venues provided by the Employer or Programme Manager.

The Contractor shall report on the over-all progress of the contract to date and task order specific issues requiring further Client engagement will be addressed at the above meeting.

Site meetings, as and where necessary, will be held specific to each task order awarded. So far as reasonably possible, site and task order specific issues are to be resolved at site meetings. Items/issues that cannot be resolved by the parties at these meetings may be escalated to the management meeting.

C3.1.11 Payment Certificates

Interim payment certificates will be submitted monthly. Such payment certificate will be subject to approval by the Architecture Department.

The contractor must ensure full reporting (i.e. subcontracting beneficiaries, etc) accompanies the consolidated payment certificate.

Monthly payments are to include 100% of the value of materials for permanent work delivered onto the site but not incorporated in the works. The materials must be adequately stored and protected to the satisfaction of the Principal Agent and proof of payment needs to be provided to the Principal Agent and that the materials and goods are the Contractor's bona fide property BEFORE payment can be made for them. A cession of rights in favour of eThekweni Municipality in respect of unfixed materials on site shall be filled in and signed by the Contractor whenever a claim for materials on site is made. A copy of the materials on site cession form is included in this document as an annexure.

C3.1.12 Proof of compliance with the law

The Contractor shall ensure full compliance with all applicable laws for the duration of the Contract; such requirement shall extend to all sub-contractors appointed by the Contractor. The Contractor shall further ensure compliance with gazetted labour rates for the duration of the contract

C3.1.13 Variations to Scope

Where the items specified in the Bill of Quantities do not reasonably satisfy the requirements in the Scope of a Work Package Order, the Scope of Works and related items will be handled as a variation, with rates to be reviewed by the Employer's Agent, and approved by the Employer.

C3.1.3.14 Design / Supervision by Employer

All works will be designed and supervised by the Employer, or any identified representative of the Employer.

C3.2: PROJECT SPECIFICATION

PREAMBLE

In the event of any discrepancy between a part or parts of the Standard or Particular Specifications and the Project Specification, the Project Specification shall take precedence. In the event of a discrepancy between the Specifications, (including the Project Specifications) and the drawings and / or the Bill of Quantities, the discrepancy shall be resolved by the Employer's Agent before the execution of the work under the relevant item.

- 1) The words **CONTRACT** and **WORK PACKAGE ORDER** refer to either the formation of the various **PANELS**, or the **WORKS** to be executed through the Contract using **WORK PACKAGE ORDERS** respectively. The words take on the meaning within the context in which they are used.
- 2) Works, when required, will be executed by the issuing a **Work Package Order and Agreement**. The **Work Package Order** documentation will contain **PROJECT SPECIFICATIONS** specific to the Works included in the **Work Package Order**. The **Work Package Order** Project Specification is to be read together with the Project Specification below. Should there be any ambiguity then the Project Specification in the **Work Package Order** shall take precedence.
- 3) At **Panel formation stage**, no Works have been identified. The following Project Specifications will, in general, be largely applicable **Work Package Orders**.

The following is to be read in combination with the Specifications contained in the Work Package Documentation.

C3.2.1 GENERAL

Insert project specifications here.

Preliminary Programme

The Contractor shall include with his approval of the **Work Package Order Agreement** documentation, a preliminary programme. The programme shall be in the form of a simplified bar chart with sufficient details to clearly show how the works will be performed within the time for completion as stated in the **Work Package Order** Contract Data.

The Contractor's attention is drawn to the fact that a number of factors will affect the programming of and method of carrying out the works. These will be documented in the **Work Package Order Agreement** documentation. These may include, but are not limited to:

- Proving or relocation of Services
- Time required for service relocations.
- Time allowances to be made for the ordering of special items.
- Notification required by service organisations.
- Any special sequence in which work must be carried out. Must certain areas of work be finished before work commences on others?
- If delays are anticipated with service relocations the contractor should be asked to allow time.

- Those known, existing services in the area of the works will be depicted on the contract drawings. It is evident, however, that the status of existing service records as far as can be ascertained might not reflect the actual situation in the field. As such, due allowance has been made in the Bill of Quantities for the proving of services, where directed by the Employer's Agent's Representative.
- Is work required out of normal hours? (eg. to accesses).
- Vehicular access to private property is to be maintained.
- Traffic restrictions: Minimum lanes of traffic open to traffic at all times.
- Community and Labour Disruptions.
- Work stoppages
- Business and associated Forum Disruptions

The programme will be reviewed at the monthly site meetings at which the contractor shall provide sufficient details that will allow the comparison of completed work per activity against the original approved programme. The contractor shall indicate what resources and programme changes he intends to implement in order to remedy any activity that has fallen behind. The Employer's Agent's Representative may demand from the Contractor a major revision of the programme. Such a revision shall be submitted for approval within fourteen days of the demand.

C3.2.2 Integrated Framework Task Allocation Committee

- The Integrated Framework Task Allocation Committee (IFTAC) will be established to oversee the task allocation, comprising of various members from the Architecture division.

C3.3: STANDARD SPECIFICATIONS

C3.3.1 The Specifications on which this contract is based are the **Model Preambles to Trades 2017 issued by the Association of South African Quantity Surveyors**. This document is obtainable separately, and Tenderers shall obtain their own copies at their own cost.

C3.3.2 AMENDMENTS TO THE STANDARD SPECIFICATIONS

INTRODUCTION

In certain clauses the standard, standardized and particular specifications allow a choice to be specified in the project specifications between alternative materials or methods of construction and for additional requirements to be specified to suit a particular contract. Details of such alternative or additional requirements applicable to this contract are contained in this part of the project specifications. It also contains additional specifications required for this particular contract.

C3.4: PARTICULAR SPECIFICATIONS

In addition to the Standardized and Project Specifications the following Particular Specifications / Policies shall apply to this contract and are available on web address:

<ftp://ftp.durban.gov.za/cesu/StdContractDocs/>:

C3.4.1 Part AH - OHS Act 1993 Safety Specification – Baseline Risk Assessment
(27 Pages)

C3.4.2 OHS Act Site Specific Health and Safety Specifications in terms of 2014 Construction Regulations
5.1(b)
(27 Pages)



E3.3.12. Performance Monitoring of Service Providers

General information			
Contract Title			
Contract Number		Department	
Service Provider's name			
Sector		Unit	
Contract description			
Contract Period (months)		Original Due Date for Practical Completion	
Start date (e.g. on site)		Original Contract Sum	

Reason for report	Financial Year:
Practical Completion	Assessment Report ☐
Final Completion	Assessment Report ☐

Contract progress			
Extended Date for Practical Completion		Total Extensions of Time Approved (days)	
Percentage of Work Completed at Report Date		Actual Date of Practical Completion	
Contract Sum as Varied at Report Date			

Service Provider's performance			
	Poor	Accepted	Outstanding
Assessment Criteria	☐	☐	☐
IF ASSESSMENT OUTCOME IS POOR, KINDLY : - provide reasons for underperformance - report on remedial action undertaken or to be undertaken - report on current performance			
KPIs	Achieved	Not Achieved	
	☐	☐	
Overall comments (<i>attach separate sheets if necessary</i>)			
 Reporting Officer			
In my opinion:			
Name (<i>please print</i>)		Contact Number	
Signature		Date	

 Reviewing Officer			
I concur ☐ I do not concur ☐ with the Reporting Officer's assessment detailed in the report.			
In my opinion:			
Name (<i>please print</i>)		Contact Number	
Signature		Date	
 Service Provider			
The report has been forwarded to the Service Provider ☐ Yes ☐ No			
Recommended for further work (to be answered on completion of contract)		☐ Yes ☐ No	
If the recommendation is No, the unsatisfactory performance aspects have been discussed with:			
Minutes of meeting and Service Provider's response attached ☐ Yes ☐ No			
Name of Service Provider's representative (<i>please print</i>)			
Contact number		Date of Discussion	
Signature		Date	

C3.5: CONTRACT AND STANDARD DRAWINGS

C3.5.1 CONTRACT DRAWINGS / DETAILS

Applicable at task level.

C3.6: ANNEXURES

C3.6.1 Applicable at task level

PART C4: SITE INFORMATION

C4.1 LOCALITY PLAN

Applicable at task level

C4.2 CONDITIONS ON SITE

Applicable at task level

C4.3 TEST RESULTS

Applicable at task level

Health and Safety Specification



**Construction Health and Safety Specification in terms of the
Occupational Health and Safety Act, Act 85 of 1993 and the
Construction Regulations of 2014.**

Document Number	SSHSS547/06/26CSA 3600/36585-1B
Document Title	Construction Health and Safety Specification
Client	E Thekwini Municipality
Project	CSA 3600/36585-1B (Integrated Infrastructure Maintenance and Construction for Buildings, Facilities and Engineering Systems Works For 36 Months.
Contract Number	CSA3600/36585-1B
Revision	00
Date	11-06-2026

Total Pages	50
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1. INTRODUCTION AND DEFINITIONS

This specification is compiled to ensure that the Principal Contractor and any other Contractors working for Ethekwini Municipality directly or through a Principal Contractor, are aware of the Occupational Health and Safety requirements when working on a ETHEKWINI MUNICIPALITY contract, as well as to make them aware of their legal liabilities and responsibilities as per the Occupational Health & Safety Act, Act 85 of 1993, and its Regulations.

The Occupational Health and Safety Act, Act 85 of 1993 and its Regulations together with SANS Codes set out minimum standards with regards to Occupational Health and Safety. eThekwini Municipality has developed this Occupational Health and Safety Specifications with these minimum standards in mind and in certain stages the requirements of eThekwini Municipality exceed the minimum legal requirements to follow best practices and to ensure a healthy and safe workplace for all.

Ethekwini Municipality in no way assumes the Principal Contractors legal liabilities and responsibilities. The Principal Contractor is and remains accountable for the quality and execution of his health and safety programme for his employees. This Health and Safety Specification reflects minimum legal and Ethekwini Municipality requirements and should not be construed as all encompassing.

It is realized that The Principal Contractor has its own Health and Safety Management system and safe work practices. The intention of this Health and Safety Specification is not to change The Principal Contractors Health and Safety management system, but for The Principal Contractor to use its current Health and Safety management system to draw up a project specific Health and Safety Plan according to these specifications as well as to legally comply with the Construction Regulations, GNR.84 of 2014.

It is the responsibility of the Principal Contractor and other Contractors to make themselves conversant and comply with the requirements and conditions contained in the various legislation pertaining to their profession and scope of works at all times.

This specification is not exhaustive of all duties imposed by the Occupational Health and Safety Act, Act 85 of 1993 and its Regulations, governing the duties and obligations, of a Designer, Principal Contractor and Contractor performing duties in terms of an agreement with the client (ETHEKWINI MUNICIPALITY). These duties are fully described in the Occupational Health and Safety Act, Act 85 of 1993 and its

Regulations and it is the duty of every Designer, Principal Contractor and Contractor to acquaint themselves therewith before commencing work

For the purpose of this Construction Health and Safety Specification, all definitions in the Occupational Health and Safety Act and Regulations, the abbreviations and the definitions given hereunder shall apply; where definitions may overlap, the most onerous requirement shall apply:

Acronym or Definition	Meaning
Agent	Refer to the Agent appointed by the Client to act on its behalf, and who is appointed in writing
CHSS	Refers to this document as the Construction Health and Safety Specification
Client	Refers to eThekweni Municipality
COIDA	Means Compensation for Occupational Injuries and Diseases Act 130 of 1993
Construction Site	Means the premises and grounds where construction work is being performed
Principal Contractor	Means an employer appointed by the Client to perform construction works
CR	Refers to the Construction Regulations of 2014
DSTI	Refer to a documented daily safe task instruction compiled and issued by a contractor and trained to all relevant employees
H&S	Refers to Health and Safety
Medical Certificate of Fitness	Means a valid medical certificate of fitness issued by an occupational medicine practitioner, such medical testing shall be relevant to the risks of the construction work on the construction site and shall conform to the Occupational Health and Safety Act and Regulations and to the requirement of this Health and Safety Specification
Method Statement	Refer to a document detailing the key activities to be performed in order to reduce as reasonably as practicable the hazards identified in the Risk Assessment
OHSA	Refer to the Occupational Health and Safety Act
Regulations	Refer to the Regulations stipulated in the OHSA

S	Refer to a section in the OHSA
SACPCMP	Means the South African Council for the Project and Construction Management Professions
Sub-Contractor	Means an employer appointed by a contractor of the Principal Contractor

2. PROJECT DESCRIPTION AND CONSTRUCTION HEALTH AND SPECIFICATION

This project Contract no. CSA 3600/36585-1B (Integrated Infrastructure Maintenance and Construction for Buildings, Facilities and Engineering Systems Works For 36 Months.

The Architect department identify the need to undertake the Integrated Infrastructure Maintenance and Construction for Buildings, Facilities and Engineering Systems Works For 36 Months.

This Construction Health and Safety Specification is published in terms of the Ce Occupational Health and Safety Act of 1993 (OHS Act), Construction Regulations 2014, Regulation 5(1) (b)

The CHSS does not replace the Construction Regulations, 2014, but is a supplementary specification as required in terms of the Regulations. The Principal Contractor is at all times required to and will remain responsible to fully address all requirements and standards of the Occupational Health and Safety Act, Regulations and the Construction Regulations. Inclusive of the Health and Safety Plan and implementation thereof.

The Client has appointed an Agent who will (inter alia) be responsible for the approval of all Principal Contractors H&S Plans, for the auditing and monitoring of the Principal Contractor implementation thereof and for maintaining the document control associated with the CHSS.

3. LIMITATIONS OF LIABILITY

The Client or its Agent shall not be responsible for any acts or omissions of any contractor which may directly or indirectly result from the application of the CHSS or any project specific version thereof.

All contractors must ensure that articles, work, equipment, machinery, plant and work practices are, at all times compliant to the legal requirements as these apply.

The Client or its Agent shall limit its responsibility to the application of the Construction Regulations Clients Requirements only.

The Principal Contractor shall enter into a Mandatory Agreement with the Client, as defined in Section 37(2) of the Occupational Health and Safety ACT.

The Principal Contractor shall ensure that each contractor appointed by the Principal Contractor and each sub-contractor appointed by a contractor also into a Mandatory Agreement with the Principal Contractor, as defined in Section 37(2) of the Occupational Health and Safety ACT. These agreements shall be included in the Principal Contractor's H&S File on site and be valid for the duration of the contractors' work on the construction site.

4.PURPOSE OF THE CONSTRUCTION H&S SPECIFICATION

The purpose of the CHSS is for the specification to be used as the standard on which Principal Contractors H&S Planning and safe work execution must be based

This CHSS will be applicable to all construction work and shall be implemented for the complete project until project close out.

This CHSS defines the client's standard by which all occupational health and safety risks shall be controlled at the construction site.

All employers working on the construction site shall conform to the standard in the CHSS. All the duties of a Principal Contractor in this CHSS equally apply, in full, to contractors of such Principal Contractor and sub-contractors of such contractors...

5. IMPLEMENTATION OF THE CONSTRUCTION H&S SPECIFICATION

This CHSS forms an integral part of the Contract, and Principal Contractors H&S Planning and safe work execution must be based.

The Principal Contractor shall ensure that the H&S Plan contain sufficient evidence of:

- Adequate provision for the cost of safety measures
- The Principal Contractor access to and intention to appoint persons with the necessary competencies to carry out the construction work safely.
- The Principal Contractors access to the necessary resources to carry out the construction work safely and without risk to the health of the workers.
- The Principal Contractor's planning of construction activities within the special requirement emanating from personnel deployment, time constraints and language barriers.

The Principal Contractor shall allow in their cost provision for complying with the requirements of this CHSS; resources for the following H&S controls shall be in place.

6.PROJECT HEALTH AND SAFETY COST

The Client must ensure that potential Principal Contractor submitting tenders have made adequate provision for the cost of health and safety measures.

The Principal Contractor shall allow in their cost provision for complying with the requirements of this CHSS; resources for the following H&S controls shall be in place.

	H&S cost item	Description
1.	Full time safety officer /part safety officer	Full time attendance on site of a SACPCMP registered safety officer from the start of construction until the end of project handover
2.	Competent H&S Design	Services of competent designers for temporary works, scaffolding, fall arrest and recovery systems
3.	First Aiders	Standard first aid training Special (additional) fall recovery first aid training
4.	Competent inspectors (trained, certified, competent)	Statutory inspections of height work, temporary works, fire extinguishers, lifting equipment, lifting machinery, ladders, construction vehicles and mobile plant, portable electrical equipment, etc.
5.	Mandatory training in site legal register and risk assessments	Training of all employees holding statutory appointments as competent persons ensuring that they are familiar with the Occupational Health and Safety Act and Regulations. H&S induction and Risk Assessment training all employees in Daily Safe Task Instructions
6.	Training of employees in H&S	Occupational Health and Safety Training in accordance with the skills matrix included in the approved H&S Plan.
7	Medical certificate of fitness	Medical examination of all employees and certification of fitness by an Occupational Medicine Practitioner Pre- employment, annual and exit medical examination is required

8	Supply and training for PPE	Standards set for all employees Special sets including: fall arrest, special respiratory, adapted hearing protection, adapted hand protection, adapted eye and face protection
9	Dust mitigation	To reduce dust exposure to the employees and the public
10	Public protection and barricading	To reduce risk exposure to the employees and members of the public
11	Employee facilities	Refer to the Facilities Regulations (drinking water, change facility, personal lockers, and wash facilities, eating facilities.
12	Underlying services	Relocation of underlying services
14	Other	Items not indicated in the Specification

7.SCOPE OF WORK

The scope addresses legal compliance, hazard identification and risk assessment and the promotion of a health and safety culture amongst those working on the project. This CHSS covers the client's requirements for addressing, mitigating and controlling Occupational Health and safety related risks, problems, incidents and injuries during the construction work. The CHSS contains clauses that are generally applicable to construction and imposes controls associated with activities that impact on human health and safety. The Principal Contractor is required to comply with the provisions of the OHSA, all applicable Regulations and this CHSS. The client Agent will monitor the Principal Contractor's compliance with the requirements of the OHSA and the approved H&S Plan.

This project Contract no CSA3600/36585-1B

Scope of work:

General Building

- Construction and maintenance of Offices, Libraries, Museums, Art Galleries, Taxi ranks, Fire stations, Schools, Multi-level residential developments, Clinics, Hospitals, Laboratories, Multi-purpose buildings, Halls, Malls, Shopping Centres, Warehouses, Auto-hubs, Showrooms, guardhouses, ablution facilities, social housing developments, electrical sub-stations, etc.
- Projects of Similar nature will be considered for projects which fall under general building (new builds, alterations and additions, renovations to

heritage facilities), which comprise of scopes of work including but not limited to; earthworks and foundation, brickwork, concrete, formwork, structural steelwork, shopfronts, glazing, multi-storey construction, electrical installation and reticulation, mechanical installation and reticulation.

- Excluding RDP housing developments only.

Electrical Engineering Works - Buildings

- Supply, installation and maintenance of Low Voltage electrical systems ($\leq 1000V$). The systems to be considered during evaluation are, but not limited to, Electrical Distribution boards, panels, enclosures, switchgear, standby generator, uninterrupted power, system luminaires, lamps, trenching, cabling and cable accessories, wiring, wireways, light switches, switched socket outlets, power points, power-skirting, geyser spares, hydroboils, fans, hand dryers, photovoltaic, charge controllers, DC cabling, inverters, batteries, earthing and lightning protection systems and devices, sensors, energy efficiency, demand side management and etc.
- The above-mentioned systems, in terms of the scope, entails the maintenance repairs, minor alterations, electrical installation systems and improvements as well as breakdown callouts usually outside of normal working hours.

Mechanical Engineering

Supply or Installation or Servicing or Repair or Retrofitting or Maintenance of HVAC&R equipment/systems including:

- Split air-conditioning
- Variable Refrigerant Flow (VRF/V) systems
- Roof-Top's
- Ducted air conditioning
- Air-Cooled, water Cooled
- Air chiller
- Water chiller
- Fan coil
- Close Control
- Cold rooms
- Refrigeration systems or forced ventilation systems.

8. COMPENSATION FOR OCCUPATIONAL INJURIES AND DISEASES ACT

The Principal Contractor, each contractor and each sub-contractor shall submit proof of Good Standing with COIDA Commissioner, or a Mutual Association licensed in terms of Section 30 of COIDA, prior to starting any work on site.

A copy of the Letter of Good Standing with COIDA Commissioner must be included in the H&S Plan of each contractor working on the site and must remain updated for the duration of the construction work.

9. MANAGEMENT AND SUPERVISION OF CONSTRUCTION WORK

9.1 Construction Manager

The Principal Contractor shall appoint a full-time competent person as the construction manager with the duty of managing all construction on the site including the duty of ensuring occupational health and safety compliance.

The Construction Manager must demonstrate competence in relation to work being performed and the ability to manage construction work which may include making all statutory appointments in terms of health and safety.

9.2. Construction Safety Officer

The Principal Contractor shall appoint a competent Construction Safety Officer for the construction work. The Construction Safety Officer shall be full/part time on the construction site for this project.

The Safety Officer shall be registered with the South African Council for the Projects and Construction Management Professions. Proof of competence and registration of the appointed Construction Safety Officer must be included in the H&S Plan.

9.3. Construction Supervisor

A Construction Manager must appoint construction supervisors responsible for construction activities and ensuring occupational health and safety compliance on the construction site.

A contractor must, upon having considered the size of the project, in writing appoint one or more competent employees for different sections thereof to assist the construction supervisor contemplated in sub regulation (7), and every such employee has, to the extent clearly defined by the contractor in the letter of appointment, the same duties as the construction supervisor:

Provided that the designation of any such employee does not relieve the construction supervisor of any personal accountability for failing in his or her supervisory duties in terms of this regulation.

9.4 ORGANOGRAM

Contractor shall submit an organogram outlining the site safety, health and environmental management structure as per appointment. The organogram must reflect the project and the company name and must have legal references

It is a requirement that The Principal Contractor shall provide Ethekewini Municipality with an organogram of all subcontractors that he/she has appointed or intends to appoint and keep this list updated and prominently displayed on site.

10. PRINCIPAL CONTRACTOR'S HEALTH AND SAFETY PLAN

The Principal Contractor shall submit a suitable, sufficiently documented and coherent specific health and safety plan and start-up H&S file for this construction project, in accordance with the legal requirement prior to work starting.H&S file

This H&S plan and file must be presented to and approved by the Agent prior to the site being handed over to the Principal Contractor prior to the Principal Contractor being allowed on site. No work may start by any Principal or other Contractor unless the relevant health and safety plan is approved.

The H&S plan shall be presented as part of the start-up H&S file; all evidence of controls which are documented in the H&S plan must be placed in the H&S file

The H&S file and plan must follow index: The health and safety plan shall include but not limited to the following

- Objectives
- Scope of work
- Notification of construction work
- Management of construction and supervision
- Monitoring and review plan
- Sub-Contractor Management
- Risk Assessment & Written Safe Working Procedures
- Roof work planning/method statement
- Structural procedure
- Electrical services as per scope of work
- Incident Management & First Aid
- Fall Protection Plan/ Working at elevated position
- Emergency Evacuation Plan/Procedures
- Fire Prevention & Protection
- Public Safety
- PPE Provision
- Health & Safety Signage

- Construction Vehicles and Mobile Plants
- Hand & Electrical Tool Management
- Construction Employees Facilities
- Health & Safety Policies
- Health and Safety Training & Competencies
- Housekeeping
- Site Barricading
- Traffic Accommodation/Management
- Induction
- Medicals
- Site Security
- Stacking and Storage
- Heat stress
- Transportation of Employees
- Internal Audit
- Inspection Registers
- Toolbox Talks
- SHE Meetings and Committees

Besides the legal requirements, the site-specific health and safety plan for approval shall include:

A cover page indicating:

- The contract reference
- The name and address of the Contractor and the name of the CEO
- The name and signature of the designated person in terms of Section 16(2)
- The name and signature of the Construction manager
- A space for the Client Agent to sign for final approval.

The Principal Contractor's Occupational Health and Safety Policy signed by the CEO.

A detailed site-specific overview of the scope and activities of the project; this overview must include all work controlled by the Principal Contractor

This project Contract CSA3600/36585-1B

Scope of work:

General Building

- Construction and maintenance of Offices, Libraries, Museums, Art Galleries, Taxi ranks, Fire stations, Schools, Multi-level residential developments, Clinics, Hospitals, Laboratories, Multi-purpose buildings, Halls, Malls, Shopping Centres, Warehouses, Auto-hubs, Showrooms, guardhouses, ablution facilities, social housing developments, electrical sub-stations, etc.
- Projects of Similar nature will be considered for projects which fall under general building (new builds, alterations and additions, renovations to heritage facilities), which comprise of scopes of work including but not limited to; earthworks and foundation, brickwork, concrete, formwork, structural steelwork, shopfronts, glazing, multi-storey construction, electrical installation and reticulation, mechanical installation and reticulation.
- Excluding RDP housing developments only.

Electrical Engineering Works - Buildings

- Supply, installation and maintenance of Low Voltage electrical systems ($\leq 1000V$). The systems to be considered during evaluation are, but not limited to, Electrical Distribution boards, panels, enclosures, switchgear, standby generator, uninterrupted power, system luminaires, lamps, trenching, cabling and cable accessories, wiring, wireways, light switches, switched socket outlets, power points, power-skirting, geyser spares, hydroboils, fans, hand dryers, photovoltaic, charge controllers, DC cabling, inverters, batteries, earthing and lightning protection systems and devices, sensors, energy efficiency, demand side management and etc.
- The above-mentioned systems, in terms of the scope, entails the maintenance repairs, minor alterations, electrical installation systems and improvements as well as breakdown callouts usually outside of normal working hours.

Mechanical Engineering

Supply or Installation or Servicing or Repair or Retrofitting or Maintenance of HVAC&R equipment/systems including:

- Split air-conditioning
- Variable Refrigerant Flow (VRF/V) systems
- Roof-Top's
- Ducted air conditioning
- Air-Cooled, water Cooled
- Air chiller

- Water chiller
- Fan coil
- Close Control
- Cold rooms
- Refrigeration systems or forced ventilation systems.

11. HAZARD IDENTIFICATION AND RISK ASSESSMENT

The Principal Contractor shall appoint competent person(s) to perform a sitespecific baseline risk assessment and thereafter, ongoing issue-based hazard identification and risk assessments. There may be more than one risk assessor appointed if this is required.

The competent risk assessor(s) shall form part of the team working on the site

The risk assessment must be based on the scope of work, the site-specific materials required, and the site-specific machinery, equipment and structures applied during the construction.

Risk Assessments of all sites specific risk activities identified in the scope of work, including those performed by contractors and sub-contractors, shall form an integral part of the H&S Plan and all risks controls (including those executed by contractors and sub-contractors) shall be documented. The baseline assessment will be included in the H&S Plan

Additional risk assessments shall be conducted when:

- A new machine is introduced on the site
- A system for work is changed or operations altered
- After an accident or near miss has occurred
- New knowledge comes to light and information is received which may influence the level of risk to employees onsite.

Issue based risk assessment, risk monitoring and risk review shall be done at the hand of pre task risk assessment communicated to all employees; a system of daily safe task instructions may be used. The risk assessment must include:

- A daily documented listing of hazardous events
- A daily documented listing of H&S risk controls
- Proof of communication of the above to all employees, the Client requires that the Principal Contractor shall ensure that all employees on site are

conversant with the content of all relevant risk assessments, the appropriate measures to either eliminate or reduce the identified risk. The Principal Contractor shall outline to employees what role they are expected to play in the risk assessment and control measure process.

Continuous risk assessment

In order to maintain a safe and risk-free environment continuous risk assessments (e.g. Daily Safety Task Instructions (DSTIs) must be undertaken on a daily basis for all activities undertaken

The Principal Contractor shall include a method for risk review ensuring that all the risks on site are adequately managed

All risk assessments must document all H&S controls which any contractor plans to put in place.

12. HEALTH AND SAFETY FILE

The Client must discuss and negotiate with a Principal Contractor the content of the Health and Safety Plan and thereafter finally approve the Health and Safety plan for implementation. The recommended Health and Safety file shall include the following:

- Client Health & Safety Specification
- Principal Contractor Health & Safety Plan
- Updated letter of good standing with Commissioner
- Section 37.2 Mandatory Agreement
- Contractor appointment letter in terms of CR 5.1(k)
- Risk Assessments
- Written Safe Working Procedures
- Applicable Inspection Registers
- Incident/Accident Management
- Award letter from SCM
- Organogram
- Copy of OHS Act and COID Act
- Environmental Management Plan if applicable
- Health and Safety Induction programme
- Site Emergency Evacuation Plan
- Key Personnel contact numbers
- Site Safety Rules
- Medical Records – Medical Fitness Certificate
- Toolbox Talks Programme
- HIV/AIDS Awareness Programme
- Fall Protection Plan
- Material Safety Data Sheets

- SHE Policy
- First Aid box and competent first aider
- Appointment letters and competencies
- Application for construction work

The Principal Contractor shall provide and maintain an H&S File, containing all relevant documents as prescribed in the OHSA and applicable Regulations and all forms or records referred to in the H&S Plan.

The startup H&S File shall be presented together with the H&S Plan for approval prior to work starting.

The H&S File shall be kept on the construction site and available for inspection by the Client Agent or the Department of Labor Inspectors

The H&S File becomes the property of the Client after completion of the project. The Principal Contractor is also required to scan the file in an electronic format and hand over the electronic format.

13. LEGAL COMPLIANCE AND DOCUMENT CONTROL

The Principal Contractor is required to implement systems and procedures to ensure legal compliance through:

- Identification of all relevant HSE legislation, standards and codes applicable to its operations
- Have available copies of all relevant HSE legislation, standards and codes for reference purposes
- Update legislation, standards and codes with any changes
- Communicate to all employees any changes that may affect their accountabilities and conformances
- Incorporate any legal requirements into their HSE management system □ Monitor and review their HSE management system for effectiveness

The Principal Contractor shall, as a minimum, comply with:

- The Occupational Health and Safety Act and Regulations (Act 85 of 1993), an up-to-date copy of which shall be available on site at all times.
- The Compensation for Occupational Injuries and Diseases Act (Act 130 of 1993), an up-to-date copy of which shall be available on site at all times.

Wherever in the Construction Regulations or this specification there is reference to other regulations (e.g. Construction Regulation 24: Electrical Installations and Machinery on Construction Sites) The Principal Contractor shall be conversant with and shall comply with these regulations.

All legal appointments of The Principal Contractor regarding the Health and Safety of his employees who are to work on the project are addressed and governed by the OHS Act and applicable Regulations. Legal appointments must be in place and must reflect in the project safety file before work commences.

a) Overall Supervision and Responsibility for OH&S

ETHEKWINI MUNICIPALITY will appoint the Principal Contractor in terms of Construction Regulation 5(1)(k). A Mandatory Agreement as per Section 37.2 of the OHS Act, shall be signed between ETHEKWINI MUNICIPALITY and the Principal Contractor.

It is a requirement that the Principal Contractor, when he appoints other Contractors in terms of Construction Regulations 7(1)(c), 7(1)(d), 7(1)(f) and 7(3) includes in his agreement with such Contractors the following:

- OH&S Act (85 of 1993), Section 37(2) agreement: "Agreement with Mandatory".
- OH&S Act (85 of 1993), Section 16(2) appointee(s) as detailed in his/her/their respective appointment forms. (Where applicable).

The signed Mandatory Agreements shall be placed in the project file for reference and for audit trail purposes.

(b) Specific Supervision Responsibilities for OH&S

The Principal Contractor shall appoint designated competent employees and/or other competent persons as required by the OHS Act and Regulations, as well as this specification. Appointments shall be in writing and the responsibilities clearly stated together with the period for which the appointment is made. This information shall be communicated to and agreed with the appointees. Where applicable, the training certificate must be attached to the appointment. Notice of appointments shall be submitted to the Employer. All changes shall also be communicated to the Employer.

Below is a list of possible appointments for the project, which is not an all-inclusive list, but for reference purposes only:

Appointment description	Appointment required in terms of
Assistant construction manager	Construction Regulation 8(2)
Assistant construction supervisor	Construction Regulation 8(8)
Construction health and safety officer	Construction Regulation 8(5)
Construction manager	Construction Regulation 8(1)
Construction supervisor	Construction Regulation 8(7)
Construction vehicle, mobile plant and machinery supervisor	Construction Regulation 23
Drivers of construction vehicles and operators of plant	Construction Regulation 23
Electrical installation and appliances inspector	Construction Regulation 24
Emergency, security and fire coordinator	Construction Regulation 29

Excavation supervisor	Construction Regulation 13
Fall risk protection supervisor	Construction Regulation 10
First-aiders	General Safety Regulation 3
Firefighting equipment inspector	Construction Regulation 29
Hazardous chemical substances supervisor	Hazardous Chemicals Substances Regulations 10
Incident investigator	General Administrative Regulation 9
Ladder inspector	General Safety Regulation 13(a)
Lifting machines and equipment inspector	Construction Regulation 22
Occupational health and safety committee	OHSACT Section 19
Occupational health and safety representatives	OHSACT Section 17
Person responsible for machinery	General Machinery Regulation 2
Risk assessor	Construction Regulation 9(1)
Scaffolding supervisor	Construction Regulation 16
Stacking and storage supervisor	Construction Regulation 28
Structure's supervisor	Construction Regulation 11
Temporary works supervisor	Construction Regulation 12
Traffic management supervisor	OHSACT Section 9(1)
Traffic safety officer	OHSACT Section 9(1)

Pressure equipment supervisor	Pressure Equipment Regulations
Welding supervisor	General Safety Regulation 9

c) **Designation of OH&S Representatives (Section 17 of the OH&S Act)**

Where The Principal Contractor employs more than 20 persons (including the employees of sub- contractors) he has to appoint 1 (one) OH&S representative for every 50 employees or part thereof. This is a minimum (legal) requirement. The Principal Contractor may at his own discretion or based on the recommendations of the Client's Construction H&S Agent appoint more OH&S representatives according to site specific requirements. General Administrative Regulation 6 requires that the appointment or election of the OH&S representatives be conducted in consultation with employee representatives or employees (Section 17 of the Act and General Administrative Regulation 6 & 7). OH&S representatives shall be designated in writing, and the designation shall include the area of responsibility of the person and term of the designation. OH&S representatives must be experienced, permanently employed by The Principal Contractor or his sub-contractors, formally trained and able to move freely within their designated area of responsibility.

Duties and Functions of the OH&S Representatives (Section 18 of the OH&S Act)

The Principal Contractor shall ensure that the designated OH&S representatives perform their functions in respect of the workplace or section of the workplace for which they have been appointed. These functions include conduct continuous monitoring and monthly inspections of their respective areas of responsibility, focusing on unsafe acts and unsafe conditions and report thereon to The Principal Contractor. OH&S representatives shall participate in accident or incident investigations. OH&S representatives shall attend all OH&S committee meetings. The complete list of functions can be found in Section 18 of the OHS Act.

Appointment of OH&S Committee (Sections 19 and 20 of the OH&S Act)

The Principal Contractor shall establish an OH&S committee, which shall meet at least once a month, where two or more Health and Safety Representatives

have been appointed. OH&S representatives must be appointed as OH&S committee members. The number of managements appointed members may not exceed the number of OH&S representatives on the committee.

14. CLOSE- OUT CONSOLIDATED HEALTH AND SAFETY FILE

The Principal Contractor shall compile a consolidated H&S file and hand over to the Agent at the end of the project handover this shall be applicable to all contractors and sub-contractors as well.

The Principal Contractor shall therefore submit a consolidated close out file inclusive of all contractor information

The consolidated H&S File shall be in hard copy and in CD format The consolidated file shall include:

- A copy of the approved H&S Plan of the Principal Contractor
- Project H&S management plans, H&S Plan, Fall Protection Plan, Emergency Plan, Storm Water Management, Traffic Management
- Project baseline risk assessment
- Designer inspections/assessments and confirmation of conformance
- Monthly risk and Incident reports
- Incident registers & IOD investigation record
- COIDA Claim incidents and supporting medical treatment record
- The completed final register required in the Staffing on Site chapter of this CHSS
- Monthly H&S performance report
- Monthly H&S audit reports from the Agent and the enjoining corrective action reports
- Endorsed minutes of H&S committee meetings □ Employee list as required in this CHSS □ Records of exit medical records.

A reference record of all drawings, designs and materials used

A reference record of H&S statutory certificates required by the owner; this reference record shall indicate the designated person at the Principal Contractor, who is responsible for the document and the client-designate to whom the document has been handed.

The comprehensive list of all the contractors on site accountable to the Principal Contractor

An index of all inspections and reference to the inspection registers on site

A list of responsible persons appointed in statutory positions for the duration of the project

A list of all occupational injuries and diseases including the name of the injured, the reference number of the Annexure 1 document and the reference number of the COIDA notification of the injury (if any)

All documents relating to any reportable injury disease during the construction work, as defined in Section 24 and 25, of the Occupational Health and Safety Act, Act 85 of 1993.

15. INDUCTION AND HEALTH AND SAFETY AWARENESS

Each employee working on site shall be inducted in Health and Safety and the operating rules on site.

The Principal Contractor shall develop project specific induction training programme in Health and Safety for the site, to ensure that all employees are conversant with:

- The risk of the Construction project
- The controls documented in the H&S Plan
- The role of employees in ensuring health and safety on the construction site
- The emergency arrangements on site
- The general health and safety rules applicable to the site, considering the works is being performed with great exposure to any member of the public.

The Principal Contractor shall ensure that all employees have gone through the induction training before commencing duties on site.

The induction must include exposure to snakes while working in a greenfield site, adequate control mitigation must be implemented by the Principal Contractor. Control measures must be pro-active such as animal and plant search and rescue, active monitoring of animal movement on site. Wearing of appropriate personal protective equipment and sourcing the services of the snake catcher if required.

16.HEALTH AND SAFETY TRAINING

Competency of employees and ongoing training in H&S matters shall be documented by including a training and competency matrix in the H&S Plan.

The matrix in the H&S Plan shall be a training needs matrix and shall indicate competency requirements safe working processes:

- Each applicable safe work instruction must be included in the H&S Plan
- The method of training and ensuring competence must be included in the H&S Plan

The Principal Contractor shall ensure that specific pre-task health and safety instructions are given to all employees.

The methods for ensuring that training in safe work instructions and that pre-task instructions occur shall be described in the H&S Plan.

17.INSPECTION, MONITORING AND REPORTING

The Principal Contractor shall carry out regular safety planned task observations on high-risk activities and planned H&S inspections on the site and shall take steps to rectify any unsafe acts or condition.

The appointed Construction Manager and the Safety Officer shall perform regular inspections and document these in the H&S File.

The relevant inspection templates and the frequency of inspections shall be included in the H&S Plan.

The H&S Plan shall contain a list of all the inspection registers which shall be on site and templates of such must be available in the H&S File:

- The templates must correlate with the machinery and equipment listed on the site
- The inspector responsible for the inspection and maintenance of the register must be appointed in writing. Proof of training and competency in the performance of the inspections must be documented.

18.INCIDENTS, ACCIDENTS, NEAR MISSES AND EMERGENCIES

All incidents and accidents as per Section of the Act must be reported, recorded and investigated as per General Administration Regulation 8 & 9

Where a fatality or permanent disabling injury or incident occurs on the Construction site, the Client must ensure that the Principal Contractor provides the Provincial Director with a report contemplated in Section 24 of the Act and the report includes the measures that the Principal Contractor intends to implement to ensure a safe construction site.

(a) Incidents and Accidents

The Principal Contractor and his Contractors shall coordinate their investigation of all accidents/incidents where employees and non-employees were injured to the extent that he had to be referred for medical treatment by a doctor, hospital or clinic. The results of the investigation shall be entered into an accident/incident register, which must be updated with each accident/incident.

The Principal Contractor shall notify the relevant ETHEKWINI MUNICIPALITY Project Manager and or ETHEKWINI MUNICIPALITY OHS Specialist of any incident/accident within the Principal Contractors or his Contractors area of responsibility in writing as soon as possible.

Although the accident/incident is reported to the Client, the Principal Contractor has a responsibility and is required by law to report any Section 24 accidents and incidents to the Department of Labour. Any road traffic accident must be reported to the relevant authorities.

It is essential that The Principal Contractor demonstrate that corrective and preventative action has been taken to prevent a similar incident in future and that it is communicated to all The Principal Contractors affected staff. A copy of the investigation, corrective and preventative action taken as well as the attendance register of the employees who attended the discussion of the incident and the action implemented to prevent a similar incident, must be forwarded to the ETHEKWINI MUNICIPALITY Project Manager and or the ETHEKWINI MUNICIPALITY OHS Specialist.

Investigations must be completed for:

- (a) Near Miss Incidents (To prevent it from becoming an incident)
- (b) First Aid case Incidents

- (c) Medical treatment case Incidents
- (d) Fatalities

(b) Incident Reporting

The Principal Contractor shall provide the Employer with copies of all statutory reports required in terms of the Act within 7 days of the incident occurring. In addition, The Principal Contractor shall update monthly the Disabling Injury Frequency Ratio (DIFR) and display this information on a signboard at the site office.

The Principal Contractor is responsible for collecting, recording, calculating, and reporting his and his sub-contractors Health & Safety statistics to the ETHEKWINI MUNICIPALITY OHS Specialist.

The statistics should contain at least the following for all employees of all contractors working on the project:

- Total Number of workers
- Total Number of hours worked (on the ETHEKWINI MUNICIPALITY project)
- Total Number of Near Miss Incidents
- Total Number of First Aid case Incidents
- Total Number of Medical Treatment case Incidents (Excluding Section 24 type incidents)
- Total Number of Section 24 type Incidents
- Preventative actions taken on incidents that have occurred.
- Communication to employees and contractors of incidents and preventative actions.

19. AUDITS AND INSPECTIONS

The Client must ensure that periodic health and safety audits are conducted at intervals mutually agreed upon between the Principal Contractor and the Client at least every 30 days, the copy of the health and safety audit report must be provided to the Principal Contractor within seven days after the audit.

20. HOT WORK, FIRE RISKS, FIRE EXTINGUISHERS AND FIRE FIGHTING EQUIPMENT

No open fires are allowed on the site

No smoking is allowed on site, except in designated smoke areas, identified by the Principal Contractor. The H&S Plan shall include the Principal Contractor's arrangements for managing smoking on site.

All flammable products must be stored in an adequate storage facility; this process shall be documented in a method statement in the H&S Plan

The Principal Contractor shall provide suitable fire extinguishers which shall be serviced regularly in accordance with the manufacture's recommendations.

Safety signage shall be prominently displayed in all areas where fire extinguishers are located. The Principal Contractor shall arrange for training of the relevant personnel, in the use of fire extinguishers.

The fire extinguisher inspection registers and the letter of appointment of the competent inspector shall be included in the H&S Plan.

No hot work is permitted on site unless appropriate screens, fire prevention, fire extinguishing and documented safe work permit system are all in place to prevent risk of veld fires and other related fires on the site.

The Principal Contractor shall include a hot work method statement in the H&S Plan for approval. Each person that performs hot work shall be trained in the use of a fire extinguisher and this training shall be documented in the H&S File.

21. LIVE ENERGY WORK AND ELECTRICAL RETICULATIONS AND MACHINERY.

The Principal Contractor shall appoint a competent electrician who shall ensure zero potential of all electrical reticulations worked on and who shall ensure that dedicated power sources are safely installed for the use during construction. A registered competent electrician shall also be responsible to ensure safe and compliant electrical installations

The Principal Contractor shall appoint a competent person to identify and inspect all exposed underground cables, overhead cables or any other electrical installations to ensure that these are not a hazard to any person.

The competent person shall certify and inspect all temporary electrical installations and machinery the frequency shall be determined in the H&S PLAN

The letters of appointment, proof of competency and registers applicable to these inspections shall be included in the H&S Plan

All electrical cables shall be assumed “alive” and where applicable, the Principal Contractor shall take adequate steps to ensure that all persons are prevented from accessing any electrical installations.

All existing electrical services must be assumed live at all times.

No live energy work shall be performed. Contractors will ensure that all energy is brought to zero potential that residual energy is purged that energy sources are switched off and locked out by all employees working in the danger zone and are tagged, prior to any work being performed on the energy source or reticulation

The Contractor shall include a zero Potential Lock out Tag Out method statement and safe instruction(s) in the H&S Plan.

The Principal Contractor shall ensure that all electrical testing equipment to be used on site has a valid calibration and that the calibration sticker is affixed to the equipment, clearly indicating the calibration date and the next due date.

Any unsafe condition shall be reported immediately to the Client and the Principal Contractor shall take immediate steps to prevent employees or members of the public from gaining access to the dangerous installation and the area surrounding it.

The Principal Contractor shall appoint a competent person to inspect all portable electrical tools including the leads. The letter of appointment and template of this inspection register shall be included in the H&S Plan

The Principal Contractor shall include a method statement for the safe use of portable electrical tools including the management of the hazards of extension leads

Where temporary installations are installed a C.O.C for these installations shall be included in the H&S File.

Where applicable the contractor shall include any electrical dangerous work procedure in the H&S Plan

Wayleave or permits must be obtained in those work sections whereby works are executed close to railway lines, underground service lines where applicable

Works is located between the PRASA and Transnet railway lines, the driveway access lies between the two existing rail bridges on Sea Cow Lake Road.

22. WORKING UNDER OR CLOSE TO OVERHEAD POWER LINES

The principal contractor shall ensure that the following requirements are duly considered and adhere to:

Passing underneath overhead lines to access the site

Some construction work and movement on site (i.e., employees and construction vehicles) may require work close to or passing under the overhead power line feeding to and from the adjacent electric sub- station. To ensure that vehicles passing under do not damage these lines and to reduce the risk of accidental contact the principal contractor should erect ground-level barriers to establish a safety zone to keep employees, other persons as well as construction vehicles and plant away from the wires.

These barriers should be constructed out of large steel drums filled with rubble, concrete blocks, wire fence earthed at both ends, or earth banks marked with posts.

- a) If steel drums are used, they should be highlight by painting them with red and white horizontal stripes.
- b) If a wire fence is used, put red and white flags on the fence wire posts.
- c) Make sure the barriers can be seen at night, by using white or fluorescent paint or attaching reflective strips.

The principal contractor has to –

- a) keep the number of passageways to a minimum.
- b) define the route of the passageway using fences and erect goalposts at each end to act as gateways using a rigid, non- conducting material, for example timber or plastic pipe, for the goalposts, highlighted with, for example, red and white stripes. If the passageway is too wide to be spanned by a rigid non- conducting goalpost, the principal contractor has to use tensioned steel wire, earthed at each end, or plastic ropes with bunting attached. These should be positioned further away from the overhead line to prevent them being stretched and the safety clearances being reduced by plant moving towards the line;
- c) ensure the surface of the passageway is levelled, firmed up and well maintained to prevent undue tilting or bouncing of the vehicles and/or equipment.
- d) put warning notices at either side of the passageway, on or near the goalposts and on approaches to the crossing giving the crossbar clearance height and instructing

measures should be put in place to ensure these restraints are effective and cannot be altered or tampered with.

-  Operators of high machinery should be instructed not carry out any work on top of the machinery near overhead power lines.
-  Make sure that employees, including any sub-contractors, understand the risks and are provided with instructions about the risk prevention measures.
-  Arrange for the work to be directly supervised by a competent person at all times who is familiar with the risks and can make sure that the required safety precautions are observed.

23. PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

The Principal Contractor shall ensure that every employee is issued with, and wears SANS-approved P.P.E. as per the conducted risk assessment.

Failure to use protective equipment as per the risk assessment shall require disciplinary intervention and this process shall be documented in the induction.

No employer shall in respect of anything which he is in terms of this Act required to provide or to do in the interest of health or safety of an employee make any deductions from any employee's remuneration or require or permit any employee to make any payment to him or to any other person

The H&S Plan shall contain an outline of the PPE to be used and the management of such PPE on site including the issuing of PPE, overnight storage and all disposal of PPE.

Disposal of PPE must conform to the Environmental Regulations.

24.OCCUPATIONAL HEALTH AND SAFETY SIGNAGE

The Principal Contractor shall erect and maintain quality safety signage The signage shall include but is not limited to:

- The construction work permit number displayed at the entrance
- Access restrictions
- A sign indicating that all visitors must report to the site office and must be accompanied by the Principal Contractor when accessing the site

- The name and telephone number of the responsible person(s)
- Emergency telephone number(s)
- PPE to be worn at the particular site
- When falling objects may occur, relevant barricading and warning signs must be erected
- Excavations, heights structures, temporary structures and all risk areas must be indicated as per the specific methods defined in the H&S Plan.

25. DUTIES OF PRINCIPAL CONTRACTORS AND SUB-CONTRACTORS

Contractors and sub-contractors must be given a copy of the H&S specification and any additional specification issued by the Client and shall comply with these specifications integrally. All employers working on the site shall conform to the standard in the CHSS. All the duties of the Principal Contractor in this CHSS equally apply, in full, to contractors of such Principal Contractor and to sub-contractors of such contractors.

The Principal Contractor shall ensure that the comprehensive and updated list of all the contractors and sub-contractors on site includes:

- A reference to the agreements between the parties, including all contractors Section 37(2) agreements with the Principal Contractor
- The type of work being done
- The date of the approval of the H&S Plan
- The date of expiry of the COIDA certificate of good standing
- The date of the last monthly audit

The provisions of Regulation 7 of the Construction Regulations shall be followed in every detail.

26.FALL PROTECTION / FALL RISK WORK AND ROOF WORK

The construction work includes fall risk work

The Principal Contractor shall submit the name and curriculum vitae of the competent person who has been appointed to prepare the fall protection plan together with the signed letter of appointment in the H&S Plan.

The fall protection plan shall strictly comply with the requirements of the OHSA and the planning shall be commensurate with the fall risk work.

The fall protection plan shall include all fall risk work which is planned to be performed by contractors or sub-contractors

The Principal Contractor and any sub-contractor shall ensure that:

- a. All risk work is planned and forms part of the safe task instructions; note that:
 - 1. Work from a ladder or where ladders are used as access tool are potential exposures of employees to falling from, off or into and such work is considered 'heights work'
 - 2. There is no minimum or maximum height defining fall risk
 - 3. Fall risk work done on an ad hoc basis of which or which form part of abnormal, or emergency processes shall be risk assessed, and employees shall be instructed in the safe work process prior to work commencing.
- b. Only trained and competent persons with a valid certificate of fitness are permitted to perform fall risk work.
- c. All medical certificates for fall risk work are issued by a registered occupational practitioner and are included in the H&S File.
- d. Where the use of harnesses is indicated in the fall protection plan, the H&S Plan shall include the following:

The need for the use of fall prevention – or fall arrest harness

The safe application, attachment and maintenance process for harnesses

The type of harness and the type of hook to be used

The specific attachments point applicable to the fall risk work; any safety attachment shall be risk assessed by a competent person appointed in writing who shall also inspect and finally approve the attachment

The method of storing the harness when not in use

The method and register for the safety inspection and harness. A fall recovery method statement.

- e. A method statement shall be included to control the safe placement of sheeting on the roof structure during construction; the number of sheets per pack, the method of strapping packs for lifting and for the placement on site and the attachment of packs to the roof structure in such a manner that inclement weather risk is mitigated.

26.(a)LADDERS

- f. Ladders shall be compliant to statutory requirements
- g. Ladders shall only be used for the purpose for which they are designed for.
- h. Ladders shall be inspected regularly, and the record of the inspection shall be kept in the H&S File
- i. A-Frame ladders shall have a patent spreader bar system
- j. Ladders shall extend at least 900mm above any level or opening accessed with a ladder.
- k. No vertical ladders shall be accessed by any person unless firmly attached at the bottom or top or held in place by a fixed installation or buddy.

27. PUBLIC HEALTH AND SAFETY

The site shall at all times be secured to prevent the unauthorized access of persons to construction risk areas and processes taking in consideration the -----proposed alignment

Appropriate health and safety signage shall be posted and access control to site must be exercised via a single access point.

All members entering the site must indicate in what capacity they are visiting the site.

The access point must be designed and constructed to allow for temporary parking, entry of construction vehicles, entry of personnel transport vehicles and entry of individual workers and other persons.

The principal Contractor shall ensure that each person visiting the site shall be inducted to the site and such abridged induction shall outline the hazards from onsite activities and the precautions to be observed to avoid or minimize those risks

Visitors must only enter when accompanied by a responsible person designated by the Principal Contractor.

28. NIGHT; WEEK –END WORK AND FATIGUE

No night or weekend work shall be performed unless authorized by the Principal Agent or Lead Engineers

Where weekend work is planned the Principal Contractor shall ensure that its construction supervisor is on site, this applies even if only contractors or subcontractors are working on the site

Where weekend work is planned each contractor or sub-contractor shall ensure that its construction supervisor is on site, this applies even if the Principal Contractor's manager or supervisor is on the site.

The site risk assessment shall include a fatigue risk assessment. Abnormal working hours shall be included in the risk assessment. A fatigue management procedure shall be defined in the H&S Plan

29.CRANES AND LIFTING OPERATIONS

The following shall be applied to any crane used on the site, including truck mounted cranes on delivery vehicles:

Each shall have (in the cab or operating are) the following legal documents on site at all times:

- The latest and up-to-date load certificate of the crane
- A record of the 6 monthly inspection of the crane by a registered inspector
- The crane operator(s) current crane licence
- The crane operator(s) medical certificate of fitness, issued by an occupational medical practitioner
- The inspection registers or certification of 3 monthly inspections of all lifting equipment used with the crane.

Where applicable, the H&S Plan shall include the method statement for each erection, maintenance, inspection and dismantling of the crane.

The H&S Plan shall include the method statement for safe use of the crane, including the method of communication, the protection of fall zones and the method of determining whether the weather permits safe crane work.

Any fixed crane's load test certificate shall be included in the H&S File

All lifting equipment and gear used on site shall be identified, SWL-indicated and listed in the register contained in the H&S File

A template inspection register of the lifting gear shall be included in the H&S Plan

The H&S Plan shall include a specific method statement listing the planned lifts and the planned methods of attachment and rigging

Where man-lift equipment is used, the Principal Contractor shall ensure compliance with Driven Machinery Regulation 18 and that competent persons are appointed in writing to ensure:

- That all scissors lifts, cherry pickers, forklift with man- cage or any other lifting machine used to lift personnel are used only by a trained and competent operator in possession of a competency certificate issued by an accredited provider who holds a valid accreditation issued by an authorised body, in terms of the SAQA Act, and is approved by the Chief Inspector in terms of the Driven Machinery Regulation 18
- That all lifting machines are load tested and inspected as required in the Driven Machinery Regulation 18 and that the records thereof are either with the machine or in the Principal Contractor's H&S File.

The Principal Contractor shall ensure that deliveries using cranes comply with the above requirements and that all legal documents are kept in the cab of the delivery truck whilst on the Client's site.

Complex lifting or heavy lifts may require a documented lifting plan.

30.STORAGE AND USE OF FLAMMABLE LIQUIDS

No flammable substances must be stored on site unless these are stored in a flammable store or cabinet approved by the Municipal Chief Fire Officer, no other materials shall be stored in the flammable store or cabinet

Where required the H&S Plan shall include a method statement detailing the safe use, storage, decanting and spill controls for all flammable liquids used and stored on site.

31. EXPLOSIVE FASTENING DEVICE

The principal Contractor shall submit proof of competency and the appointment letter of the person in charge of explosives actuating fastening devices and of the person in charge of the issuing and collection of cartridges and nails. This shall be placed in the H&S Plan.

The H&S Plan shall include the method statement for the safe use of explosives actuating fastening devices including the type PPE, barricading and warning notice which the Contractor intends to use and the method of accounting for cartridges and nails.

The H&S Plan shall include proof of training and competency of all operators using explosive actuating fastening devices.

A template inspection register of explosive actuating fastening device shall be included in the H&S Plan.

A template record for the issuing and collection of cartridges and nails shall be included in the H&S Plan.

For the purpose of acquisition / transport of the cartridges the Principal Contractor is required to hold a permit in terms of the Explosive's Act. This permit for the transportation of Blank cartridges used in Power-Actuated Tools shall be placed in the H&S Plan:

- Application for registration, licenses and permits must be submitted by the Chief Inspectors Office in Pretoria.
- The Principal Contractor is required to be in possession of a continuous transport license but is not required in terms of the Explosives Act to hold a permit for the use of the blank cartridges.
- Once the cartridges are delivered to the appointed responsible person is then required to ensure that the Regulations governing the safe use of explosive powered tools in terms of the Construction Regulation 21 of the Occupational Health and Safety Act, Act 85 of 1993 are complied with.

32. STRUCTURES

A contractor must ensure that all reasonably practicable steps are taken to prevent the uncontrolled collapse of any new or existing structure or any part thereof, which may become unstable or is in a temporary state of weakness or instability due to the carrying out of construction work.

No structure or part of a structure is loaded in a manner which would render it unsafe. All drawings pertaining to the design of the relevant structure are kept on site and are available on request to an inspector, other contractors, the client and the client's agent or employee.

33. OCCUPATIONAL HEALTH AND HYGIENE

The H&S Plan shall include:

- The Occupational Hygiene surveys which are planned as a result of the baseline risk assessment if required
- All medical certificates of fitness for all employees working on the site.

- All placements of medical surveillance records of employees who are or required to be under medical surveillance, the record may be the latest periodical medical examination report.

Medical fitness for duty

A Principal Contractor must ensure that all his or her employees have a valid medical certificate of fitness specific to the construction work to be performed and issued by an Occupational Health Practitioner in the form of Annexure 3.

All contractor employees shall undergo medical examinations and be certified fit for duty by an Occupational Health Practitioner before they are allowed to work on site.

It is recommended and in the best interest of The Principal Contractor to implement pre- employment as well as exit medical surveillance, especially with regards to Section 8 of the Noise Induced Hearing Loss Regulation.

First Aid

According to GSR 3(4), where more than 10 employees are employed at a workplace/worksites, The Principal Contractor shall ensure that there is at least one trained first aider for every group of 50 employees at the workplace/site. First Aid boxes must be provided where more than 5 employees are employed and must be readily available and accessible for the treatment of injured persons at the workplace.

To ensure immediate treatment of an injured person, it is recommended that all work crews have at least one trained level 1 First Aider, with a fully stocked first aid box, irrespective of the number of people in the work crew. This is especially important when contractors work at great distances from the nearest emergency facility or town. These people shall be appointed in writing as the First Aiders with their certificates attached as proof of competency.

The minimum contents of the first aid box shall be as per the list supplied in the General Safety Regulations.

All treatments done must be recorded on a register and kept with the first aid box. A trained and appointed First Aider must be responsible for the first aid box and its content. Used content must be replenished as soon as possible.

In order to ensure prompt response at the emergency facility it is recommended that the W.CI 2 forms be partially completed with the Employers' details.

Hygiene Facilities

The Principal Contractor and his Contractors shall ensure compliance to Section 30 of the Construction Regulations with regards to facilities on the construction site as well as where accommodation is provided to employees on remote sites. The Principal Contractor shall ensure that the facilities are kept clean at all times, either through a service provider or self-employed persons. The Principal Contractor shall provide employees with at least one sanitary facility for each sex and for every 30 workers, changing facilities for each sex and sheltered eating areas. The sheltered eating areas shall be suitably constructed and in close proximity to the workforce. Under no circumstances will workers be allowed to eat or rest in bushy areas or under poorly constructed make-shift shelter.

34. STACKING AND STORAGE ON CONSTRUCTION SITE

A Principal Contractor must, in addition to compliance with the provisions for the stacking of articles in the General Safety Regulations, 2003, ensure that—

A competent person is appointed in writing with the duty of supervising all stacking and storage on a construction site;

Adequate storage areas are provided; There are demarcated storage areas; and storage areas are kept neat and under control.

35. Weather conditions

The principal contractor shall implement an early warning system to identify inclement weather and to prevent such weather from posing negative implications on the safety of employees and other persons visiting.

The early warning system shall as a minimum provide for the following:
Construction work done during electrical storms

- a. The principal contractor shall ensure that all employees are removed from heights, and all employees are as safe as possible, in inclement weather conditions.
- b. No work is allowed on the construction site during electric storms where employees cannot be protected from it. Protection involves employees being restricted to:
 - c. eating area fitted with a lightning mast workshops
 - d. inside buildings

- e. No work is allowed in electrical storms on top of open structural steel, even when earthed.
- f. No work is allowed on heights when the lightning is within a 10-kilometer radius.
- g. After inclement weather on-site risk assessments will be reviewed to include wet conditions.

Lifting equipment operations during inclement weather

- a) Lifting operations will stop during lightning within a 10 kilometre radius and wind above 28 km/h, and the lifting equipment operator will not be allowed to leave the lifting equipment with the booms extended.
- b) Lifting operations will stop during rain, rigging and hand lifts.
- c) Booms on all lifting equipment will be retracted.
- d) All rigging operations will stop and employees will be removed from site.

Construction work done during rain

- ❖ During rainy conditions all work on steel structures will stop.
- ❖ No electrical tools will be used during rainy weather in open areas.
- ❖ Work can be done in waterproof areas where there is a zero risk for electrocution.
- ❖ Areas that may be cleared for work during rain includes workshops offices work on ground level with the provision that the area is maintained in a safe dry condition

Scaffolding activities during inclement weather conditions

During inclement weather only limited scaffolding actions will be permitted i.e. erecting and dismantling activities.

Guidelines for safe choices:

Weather type	Building and dismantling of scaffolding
Lightning	Stop all activities
Light rain	Stop all activities

Heavy rain	Stop all activities
Wind <28 km/h	Full use
Wind >40 km/h	Stop all activities
Light mist	Full use
Heavy mist	Full use
Hail	Stop all activities

All scaffold users will:

- a) Ensure that scaffolding is inspected immediately after inclement weather conditions.
- b) Ensure that the risks associated with working at heights during inclement weather are identified and reasonably mitigated.
- c) Be cautious of slip/trip hazards when performing activities during inclement weather.
- d) Take note of the weather when completing the daily safe task instructions on site, where applicable.

Driving in inclement weather

The principal contractor shall ensure that the danger of driving in wet conditions is adequately covered in a risk assessment.

The risk assessment will include, but not limited to:

1. route planning
2. speed reduction
3. planning for emergencies
4. driving precautions for slippery surfaces
5. visibility hazards

Heat Stress

Working in very hot conditions can cause illness when heat stress overcome the body's temperatures regulatory system resulting in heat strokes, heat exhaustion, dehydration, heat syncope, heat cramps and heat rash.

Considering the elevated temperatures experienced in the KwaZulu Natal region and the arid and drought like conditions, it is imperative that the PC develop a Heat Stress Management Plan in order to reduce the risk associated with heat stress

36. WASTE MANAGEMENT

The Principal Contractor shall comply with all applicable and relevant Waste management legislation, as well as municipal bylaws applicable to waste management.

The Principal Contractor shall remove all waste generated at the construction site on a daily basis or as soon as possible after generation to ensure good housekeeping at all times. The Principal Contractor shall have a Waste Management Plan which must be implemented on the construction site and which will have the objective to ensure that waste is managed according to the Waste Management Hierarchy: o Reduce what you can. If you cannot reduce then, o Re-use what you can. If you cannot re-use then, o Recycle what you can. What you cannot recycle, o Convert into energy sources. If it cannot be converted to an energy source, o Dispose of in a landfill – this is only to be done as a last resort and disposed without endangering human health and without using processes or methods which could harm the environment.

37.ACCESS, TRAFFIC MANAGEMENT AND CAMP SITE

All employees of all contractors working at the construction site shall access the site in vehicles which have seats firmly secured and adequate for the number of employees to be transported this means personnel may be transported in the load body of a LDV or a truck and that all construction personnel must be brought to site in a bus, taxi or inside the cab of a vehicle.

No employee shall be transported together with goods or tools.

Each vehicle shall have a serviced portable fire extinguisher at all times

The Principal Contractor shall ensure that all employees and visitors are aware and comply with the sites safe speed restriction defined by the Principal Contractor at the hand of the risk assessment.

All activities planned to occur in the campsite shall be risk assessed and planned, this include risk controls for the parking of staff and visitors' vehicles parking of mobile plant and machinery dedicated storage areas, planned and compliant stacking practices, traffic controls, including the safe separation of pedestrians (employee) transport from risk areas...

When working in or near the road where change of traffic of flow or warning of motorist is needed in SADC Road Traffic Signs Manual Volume 2 Part 13 must be used, in order to warn oncoming traffic with the appropriate display of signage. The contractor shall

submit a Traffic Management Plan and Pedestrian Control Plan indicating relevant measures for all construction work areas. Such Plan must be approved before any road works may commence. Specific emphasis to be placed on vehicle as well as pedestrian traffic signage.

Prior to commencement of road works the contractor shall have all the required road traffic warning signage available as stipulated in his approved Traffic Management Plan. Such measures shall also include warning signage, reflectors and signals at night. Where needed water filled yellow Jersey Barriers / steel barriers or concrete shall be used. Where required flag person(s) to be trained and appointed. The implementation of the Traffic Management Plan must be monitored continuously, and daily inspections need to be carried out by a competent appointed person.

38.STAFFING ON SITE

The Principal Contractor shall compile a list of all employees on site indicating:

- Name and ID number
- Designation (job title)
- Date of OHS Induction on site
- Date of expiry of medicals

The employee list shall be included in the start-up H&S File and maintained thereafter.

The H&S Plan shall include a method statement on communication on site this shall address:

- Language and any transition methods
- Communication methods within and between teams (radio controls and permits)
- Emergency communication methods
- Regular planned meeting and communication sessions planned by the Principal Contractor.

39. DESIGN RISK MANAGEMENT

The PC must ensure that they have the latest designs on file i.e. Drawings, Loadings, Specifications. The PC must further ensure that a competent temporary works designer is appointed to inspect and approve the temporary works.

Design – in relation to any structure, includes drawings, calculations, design detail and specifications'

Temporary works must be properly designed and signed off by a competent person who has sufficient experience in the design of the type of temporary work in question to be able to assess the design. The competent person/(s) appointed must either be a registered professional engineer or technologist. The appropriate competent person is to be appointed to manage and monitor such works to the satisfaction of the engineer and the H&S Agent. Records and registers are to be kept properly completed and kept in the H&S file. If temporary works are to be erected by a Contractor, this must be notified to the Engineer / H&S Agent.

As per the Government Gazette, 2 June 2017, no. 40883, guidelines, Regulation 12 (1) is three functions competent person(s) appointment. The temporary works designer could be one person or different persons to design, inspect and or approve [read with Regulation 6 (g); (h) and (i). Temporary works designer(s) must be mandated by the Contractor to perform any or all the three functions. A risk bases methodology should be applied in respect of competencies for temporary works.

Failure to do so will be considered serious offence

40. ENVIRONMENTAL MANAGEMENT

A Project Environmental Management Plan (EMP) shall be developed which must be adhered to. The objective of the EMP is to manage the impacts of construction identified during the course of the Environmental Impact Assessment (EIA) process, as well as during the course of construction. This is document and will be continuously updated in order to reflect current site conditions and address any issues identified during the course of construction. The EMP therefore serves as an action plan for the implementation of mitigation measures proposed for the construction work.

41. NOTIFICATION OF CONSTRUCTION WORK

The Principal Contractor must at least 7 days before that work is to be carried out notify the provincial director in writing in a form similar to Annexure 2 if the intended construction work will—

Include excavation work.

Include working at a height where there is risk of falling.

Include the demolition of a structure; or

Include the use of explosives to perform construction work.

A contractor who intends to carry out construction work that involves construction of a single storey dwelling for a client who is going to reside in such dwelling upon completion, must at least 7 days before that work is to be carried out notify the provincial director in writing in a form similar to Annexure 2

42.LIFT, ESCALATOR AND PASSENGER CONVEYOR

South African legal framework (mandatory)Lift, Escalator and Passenger Conveyor Regulations, 2010 (OHS Act) These regulations:

- Require safe design, installation, operation, maintenance, and inspection
- Define competent persons, inspections, and certification requirements
- Make compliance with SANS standards compulsory

These are the following Key SANS Safety Standards (MANDATORY IN SA)

The 2022 Government Gazette formally incorporates the following:

Lifts (Elevators)

- SANS 1545-1 → Electric lifts (passenger & goods)
- SANS 1545-2 → Hydraulic lifts
- SANS 1545-3 → Lifts for persons with disabilities
- SANS 1545-5 → Goods-only lifts
- SANS 1545-6 → Rack and pinion lifts
- SANS 1545-9 → Fire resistance of landing doors
- SANS 50081-20 & 50081-50 → Modern safety requirements & testing for lifts

◆ Escalators & Passenger Conveyors (Moving Walks)

- SANS 1543 → Escalators and passenger conveyors
- SANS 21-1 → Safety rules for construction & installation

These standards are legally enforceable under OHS regulations., Contractor must follow all above requirements

Key International Standards (Best Practice / Referenced)

Even in South Africa, these are widely used for design and auditing:

Lifts

- EN 81 series
 - EN 81-20 → Passenger & goods passenger lifts

- EN 81-50 → Design rules, calculations, testing
- EN 81-70 → Accessibility for disabled persons
 - Covers design, installation, safety devices, and accessibility
- **ISO 22201-1**
 - Safety-related programmable electronic systems (SIL compliance)

Escalators & Passenger Conveyors

- EN 115 (series)
 - EN 115-1 → Construction and installation
 - EN 115-2 → Safety improvement for existing units
 - Includes emergency stops, sensors, load limits, structural integrity
- ISO 8103-1
 - Safety requirements and hazard identification

Energy & Performance

- **ISO 25745**
 - Energy performance of lifts and escalators

Core Safety Requirements (Practical Summary)

Across all these standards, the following must be ensured:

Design & Installation

- Adequate structural strength and load capacity
- Safe access, guarding, and emergency exits
- Fire protection (doors, shafts, materials)
- Accessibility (disabled-friendly design)

Safety Devices

- Emergency stop buttons (escalators & conveyors)
- Overspeed governors (lifts)
- Door interlocks and safety edges
- Obstruction sensors and automatic shutdown systems
- Alarm and communication systems

Electrical Safety

- Proper earthing and insulation
- Protection against electrical faults
- Compliance with wiring codes (e.g., SANS 10142)

Operation & Maintenance

- Routine inspections and testing
- Preventive maintenance programme
- Use of competent lift service providers
- Record keeping (logbooks, inspection reports)

Inspection & Certification

- Initial commissioning inspection
- Periodic inspection (typically every 12 months)
- Load testing and safety verification
- Issuing of a Certificate of Compliance

Employer / User Responsibilities

As per OHS regulations:

- Ensure equipment is safe and maintained
- Appoint a competent lift service provider
- Ensure regular inspections and tests
- Keep records and certificates on-site
- Report incidents / failures that may endanger safety

Safety Officer Focus (Important for Your Role)

Valid inspection certificates displayed

Maintenance contract in place

No overdue inspections

Emergency systems functional

Safe access to machine rooms

Lock-out / isolation procedures during maintenance

Incident reporting and investigation procedures

In Conclusion

To comply legally and ensure safe operation:

- Follow OHS Act + Lift Regulations (2010, amended 2022)
- Apply SANS 1545, SANS 1543, SANS 21-1 (mandatory)
- Align with EN 81 and EN 115 (best practice)
- Implement strict inspection, maintenance, and certification system as per client requirements

Builder's Work

SECTION NO. 1
PRELIMINARIES

Amount

SECTION NO. 1

PRELIMINARIES

PRELIMINARIES

BUILDING AGREEMENT AND PRELIMINARIES

The JBCC Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described

The **JBCC** Principal Building Agreement contract data form an integral part of this **agreement**

The JBCC General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the JBCC Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these bills of quantities, amended as hereinafter described

The **contractor** is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause

The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only.

Where any item is not relevant to this **agreement** such item is marked N/A (signifying not applicable)

The following paragraph should in addition be inserted

Where standard clauses or alternatives are not entirely applicable to this agreement such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents.

PREAMBLES FOR TRADES

The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated descriptions utilised in these bills of quantities by inter alia referring to SANS construction standards. Where such preambles are not applicable (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the Standard System of Measuring Building Work (seventh edition) for works within South Africa or the Standard Method of Measuring Building Work for Africa 2015 (first edition) for works elsewhere in Africa, represent the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications.

Note that the text of the Standard System of Measuring Building Work (seventh edition) and that of the Standard Method of Measuring Building Work for Africa 2015 (first edition) is the same.

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The latest version of the General Preambles for Trades should be referred to should the General Preambles for Trades 2017 be revised in future.

The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained.

Supplementary preambles and/or specifications are incorporated in these **bills of quantities** to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the Model Preambles

The **contractor's** prices for all items throughout these **bills of quantities** shall take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles and/or specifications

Note that the text of the Standard System of Measuring Building Work (seventh edition) and that of the Standard Method of Measuring Building Work for Africa 2015 (first edition) is the same

STRUCTURE OF THIS PRELIMINARIES BILL

Section A : A recital of the headings of the individual clauses of the aforementioned JBCC Principal Building Agreement.

Section B : A recital of the headings of the individual clauses of the aforementioned JBCC General Preliminaries document.

Section C : Any special clauses to meet the particular circumstances of the project.

PRICING OF PRELIMINARIES

Should the **contractor** select Option A in the contract data for the adjustment of **preliminaries**, the amounts entered against the relevant items in these **preliminaries** are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)

SECTION A: PRINCIPAL BUILDING AGREEMENT

Interpretation (A1 - A7)

Clause 1.0 - Definitions and interpretation

Pricing of Bills of Quantities

The contractor is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this agreement. Value Added Tax (VAT) is to be separately stated on the summary page of these bills of quantities.

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	Items left unpriced will be deemed to be covered in prices against other items throughout these bills of quantities and no claim for any extras arising out of the contractor's omission to price any item will be entertained. Prices for all construction equipment, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary. Abbreviated descriptions The items in these bills of quantities utilise abbreviated descriptions. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the contractor shall, before submission of his tender, call for a written directive from the principal agent, failing which it shall be assumed that the contractor has allowed in his pricing for materials and workmanship in terms of international best practice. Legal status of contractor. If the contractor constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then: - These persons are deemed to be jointly and severally liable to the employer for the performance of this agreement. - These persons shall notify the employer of their leader who has assigned authority to bind the contractor and each of these persons. - The contractor shall not alter its composition or legal status without the prior written consent of the employer. F: V: T:	
1	Clause 2.0 - Law, regulations and notices F: V: T:	Item
2	Clause 3.0 - Offer and acceptance F: V: T:	Item
3	Clause 4.0 - Assignment and cession F: V: T:	Item
4	Clause 5.0 - Contract documents Value Added Tax Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT) 'Clause 3.3 is deleted and substituted with: 'The principal agent shall complete the schedule and arrange for formal signing of the agreement once the priced bill of quantities/lump sum document, security, insurances and waiver of lien, where acceptable, have been provided and effected'. F: V: T:	Item
5	Clause 6.0 - Employer's agents Delegated authority	
	Carried To Section Summary	R
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The authority of the principal agent to issue contract instructions (17.1) and perform duties for specific aspects of the works is delegated to agents as follows [6.2]. This does not preclude the principal agent from issuing such contract instructions.	
1. Architect	
Note that the contract instructions hereinafter are those listed in clause 17.1 of the JBCC PBA	
1.1 Duties [6.2] : The architect is responsible for the architectural design, functional design and quality inspection of the works	
1.2 Contract instructions [6.2; 17.1] :	
1.2.1 Rectification of discrepancies, errors in descriptions or omissions in the agreement other than in the JBCC Principal Building Agreement	
1.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works	
1.2.3 The site [13.0]	
1.2.4 Compliance with the law , regulations and bylaws [2.1]	
1.2.5 Provision and testing of samples of materials and goods , of finishes and assemblies of elements of the works	
1.2.6 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]	
1.2.7 Removal or re-execution of work	
1.2.8 Removal or substitution of any materials and goods	
1.2.9 Protection of the works	
1.2.10 Making good physical loss and repairing damage to the works [23.2.2]	
1.2.11 Rectification of defects [21.2]	
1.2.12 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion and a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion	
1.2.13 Expenditure of budgetary allowances , prime cost amounts and provisional sums	
1.2.14 Appointment of a subcontractor [14.0; 15.0]	
1.2.15 Work by direct contractors [16.0]	
1.2.16 On suspension or termination, protection of the works , removal of construction equipment and surplus materials and goods [29.0]	
2. Quantity surveyor	
2.1 Duties [6.2] : The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the works.	
Carried To Section Summary	R
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2.2.1 No contract instructions delegated to the quantity surveyor	
3. Civil and structural engineer	
3.1 Duties [6.2] : The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality inspection of the works	
3.2 Contract instructions [6.2; 17.1] :	
3.2.1 Rectification of discrepancies, errors in descriptions or omissions of items in the agreement other than in the JBCC Principal Building Agreement	
3.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works	
3.2.3 The site [13.0]	
3.2.4 Compliance with the law , regulations and bylaws [2.1]	
3.2.5 Provision and testing of samples of materials and goods , of finishes and assemblies of elements of the works	
3.2.6 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]	
3.2.7 Removal or re-execution of work	
3.2.8 Removal or substitution of any materials and goods	
3.2.9 Protection of the works	
3.2.10 Making good physical loss and repairing damage to the works [23.2.2]	
3.2.11 Rectification of defects [21.2]	
3.2.12 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion and a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion	
4. Mechanical engineer	
4.1 Duties [6.2]: The mechanical engineer is responsible for all aspects of mechanical engineering design and quality inspection of the works and, for all measurements, valuations, financial assessments.	
4.2 Contract instructions [6.2; 17.1] :	
4.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement	
4.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works	
4.2.3 Compliance with the law , regulations and bylaws [2.1]	
4.2.4 Provision and testing of samples of materials and goods , of finishes and assemblies of elements of the works	
Carried To Section Summary	R
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4.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]		
4.2.6 Removal or re-execution of work		
4.2.7 Removal or substitution of any materials and goods		
4.2.8 Protection of the works		
4.2.9 Making good physical loss and repairing damage to the works [23.2.2]		
4.2.10 Rectification of defects [21.2]		
4.2.11 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion and a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion		
4.2.12 Expenditure of budgetary allowances , prime cost amounts and provisional sums		
5. Electrical engineer		
5.1 Duties [6.2] : TThe electrical engineer is responsible for all aspects of electrical engineering design and quality inspection of the works and, for all measurements, valuations, financial assessments.		
5.2 Contract instructions [6.2; 17.1] :		
5.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement		
5.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works		
5.2.3 Compliance with the law , regulations and bylaws [2.1]		
5.2.4 Provision and testing of samples of materials and goods , of finishes and assemblies of elements of the works		
5.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]		
5.2.6 Removal or re-execution of work		
5.2.7 Removal or substitution of any materials and goods		
5.2.8 Protection of the works		
5.2.9 Making good physical loss and repairing damage to the works [23.2.2]		
5.2.10 Rectification of defects [21.2]		
5.2.11 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion and a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion.	Item	
F: V: T:		
7 Clause 7.0 - Design responsibility	Item	
F: V: T:		
Carried To Section Summary	R	
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		Amount
<u>Insurance and security (A8 - A11)</u>		
8	Clause 8.0 - Works risk F: V: T:	Item
9	Clause 9.0 - Indemnities 'Clause 9.1.1 is deleted and substituted with: 'Claims from other parties consequent upon death or bodily injury or illness of any person or physical loss or damage to any property, other than the works, arising out or due to the execution of the works or occupation of the site by the contractor or his sub-contractors. Should such an event occur, the contractor shall forthwith give notice to the principal agent.' F: V: T:	Item
10	Clause 10.0 - Insurances F: V: T:	Item
11	Clause 11.0 - Security Clause 11.1.1 is deleted, ie. the selection of a Variable Construction Guarantee is deleted in order to conform to eThekweni Municipality's Supply Chain Management Policy Clause 21.1(g). The Contractor shall either choose 10% Retention or provide a JBCC Fixed Construction Guarantee as per clause 11.1.2 to the Employer. F: V: T:	Item
<u>Execution (A12 - A17)</u>		
12	Clause 12.0 - Obligations of the parties Office accommodation The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18] Notice board The contractor shall erect in a position approved by the principal agent , maintain and remove on practical completion a notice board recommended by the South African Institute of Architects and as approved by the principal agent listing the names and logos of the employer , the contractor , and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the principal agent for such notice boards to be erected [12.2.18] Statutory and other notices The contractor shall submit and/or comply with all statutory and other notices that may be required by any local or other authority in order not to cause any delay to the commencement of the works by the contractor . The contractor shall pay all deposits or fees in this regard.	
Carried To Section Summary		R
Section No. 1		
Bill No. 1		
Preliminaries		

		Amount	
	It is, however, specifically recorded that the employer shall be responsible for the timeous approval of building plans by any local or other authorities and the payment of any fees or charges related thereto.	Item	
	F: V: T:		
13	Clause 13.0 - Setting out The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc., exist in order that the necessary arrangements may be made for the rectification of any such encroachments.	Item	
	F: V: T:		
14	Clause 14.0 - Nominated subcontractors	Item	
	F: V: T:		
15	Clause 15.0 - Selected subcontractors	Item	
	F: V: T:		
16	Clause 16.0 - Direct contractors Attendance on direct contractors In respect of direct contractors the contractor shall: 1. Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials 2. Allow the use of personnel welfare facilities, where provided 3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation 4. Permit the direct contractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right while it remains erected on the site [16.1]	Item	
	F: V: T:		
17	Clause 17.0 - Contract instructions Site instructions Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor .	Item	
	F: V: T:		
	<u>Completion (A18 - A24)</u>		
18	Clause 18.0 - Interim completion	Item	
	F: V: T:		
19	Clause 19.0 - Practical completion	Item	
	F: V: T:		
20	Clause 20.0 - Sectional completion	Item	
	F: V: T:		
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21	Clause 21.0 - Defects liability period and final completion F: V: T:	Item	
22	mClause 22.0 - Latent defects liability period Clause 22.0 is amended by the addition of the following clauses: "22.4 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations". "22.5 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects". F: V: T:	Item	
23	Clause 23.0 - Revision of the date for practical completion. Substitution of materials and goods. The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8; 23.1 & 2] F: V: T:	Item	
24	Clause 24.0 - Penalty for late or non-completion F: V: T:	Item	
	<u>Payment (A25 - A27)</u>		
25	Clause 25.0 - Payment Prices submitted Where prices are submitted by the contractor or subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of this agreement and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion, it shall be in writing. Where prices are submitted by the contractor or nominated/selected sub contractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing. Clause 25.5 is deleted and substituted with :		
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	The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 25.2 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank. Clause 25.10 is amended as follows: 'Payment shall be subject to the Employer giving the Contractor a Tax Invoice for the amount due. The Employer undertakes to ensure compliance with the administrative requirements of Sections 20 (2) and 21 (4) of the Value Added Tax Act (Act 89 of 1991). The Contractor agrees to the adoption of the self invoicing procedures and undertakes not to issue any tax invoices, debit or credit notes in respect of any transaction included in the Tax Invoices issued by the Employer. The above clauses shall constitute a written agreement between the parties as required in terms of the Value Added Tax Act (Act 89 of 1991).' Clause 25.7.4 is deleted. Clause 25.7.5 is deleted. Clause 25.10 and clause 25.11 - no default interest or compensatory interest will be paid. F: V: T:	
	26 Clause 26.0 - Adjustment of the contract value and final account Cost of claims All costs incurred by the contractor in the preparation of claims shall be borne by the contractor. This provision shall not preclude an adjudicator or an arbitrator appointed in terms of this agreement [30.6,7] from making a determination on costs The contractor shall review, assess and adjudicate any claims received by him from any subcontractor and thereafter submit same to the principal agent with a recommendation in order to assist the principal agent in adjudicating the claim [26.6] Clause 26.10 is amended as follows: 'The principal agent shall prepare a final account for submission to the contractor within one hundred and eighty (180) calendar days.' F: V: T:	Item
	27 Clause 27.0 - Recovery of expense and/or loss F: V: T:	Item
	<u>Suspension and termination (A28 - A29)</u>	
	28 Clause 28.0 - Suspension by the contractor F: V: T:	Item
	29 Clause 29.0 - Termination F: V: T:	Item
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<u>Dispute resolution (A30)</u>		
30	Clause 30.0 - Dispute resolution F: V: T:	Item
31	Agreement The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties. F: V: T:	Item
32	Contract data Tenderer's selection Before submission of his tender the contractor is to complete the tenderer's selection in the contract data . F: V: T:	Item
<u>SECTION B: PRELIMINARIES</u>		
<u>Interpretation (B1)</u>		
33	Clause 1.1 - Definitions F: V: T:	Item
34	Clause 1.2 - Interpretation F: V: T:	Item
<u>Documents (B2)</u>		
35	Clause 2.1 - Checking of documents The items in these Bills of Quantities are to be read and priced in conjunction with, and the descriptions regarded as amplified by the "Model Preambles for all Trades 2017" as published by the Association of South African Quantity Surveyors, and no claim arising from brevity of description of items fully described in the said General Preambles and Supplementary documentation will be entertained. Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc. F: V: T:	Item
36	Clause 2.2 - Provisional bills of quantities "Except where indicated otherwise, the quantities of and classes and kinds of works set out in these Bills of Quantities are provisional and do not purport to represent the final quantities of and classes and kinds of work eventually required to be done. The quantities of and classes and kinds of work contained herein have been set down solely in order to form a basis for obtaining competitive tenders.	
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The consideration payable to the Contractor in respect of the works shall be determined by the Agent by the application of the rates contained in the priced Bill of Quantities to the quantities of and classes and kinds of work actually executed, which quantities of and classes and kinds of work shall be determined by the Agent. The rates contained in the priced Bills of Quantities shall apply irrespective of the final quantities of the different classes and kinds of work actually executed. No claims for extras, loss of profit, variation of rates or other similar claims will be entertained as a result of any variations whatsoever between the quantities of work set out in these Bills of Quantities and the quantities of work actually executed, nor as a result of any variation whatsoever between the contract sum and the final value of works. Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., or loss of profit related thereto.		
	F: V: T:	Item
37	Clause 2.3 - Availability of construction information	Item
	F: V: T:	
38	Clause 2.4 - Ordering of materials and goods The Bills of Quantities are not to be used for ordering materials under any circumstances whether this be with regard to description or specification of materials or goods required, or with regard to quantities. Failure to comply with this condition is entirely at the Contractor's own risk. The Contractor shall be obliged upon instruction of the Principal Agent to execute such quantities of and classes and kinds of work as the Principal Agent in his sole discretion may deem necessary or which, in the Principal Agent's opinion, become expedient from time to time or which may be required to meet the Employer's requirements, whether or not such quantities of and classes or kinds of work may appear in these Bills of Quantities or the contract drawings.	Item
	F: V: T:	
	<u>Previous work and adjoining properties (B3)</u>	
39	Clause 3.1 - Previous work - dimensional accuracy	Item
	F: V: T:	
40	Clause 3.2 - Previous work - defects	Item
	F: V: T:	
41	Clause 3.3 - Inspection of adjoining properties The Tenderer shall inspect access roads, etc and shall be responsible for any damage evident at the end of the contract which has not been pointed out.	Item
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<u>The Site (B4)</u>		
The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site.		
The Tenderer shall ascertain any other restrictions to the area that may be occupied by the Contractor including any restrictions imposed by any buildings, etc. And any limitations or restrictions that may be imposed by any Authorities.		
Workmen employed on the site are to be restricted to the immediate area of the site and access thereto.		
Space on the pavement areas for the storage of building materials, etc., must be arranged with the Local Authorities by the Tenderer who will be responsible for all charges in connection therewith.		
42	Clause 4.1 - Defined works area F: V: T:	Item
43	Clause 4.2 - Enclosure of the works The contractor shall erect, maintain and remove at completion, hoardings, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others. F: V: T:	Item
44	Clause 4.3 - Geotechnical and other investigations F: V: T:	Item
45	Clause 4.4 - Encroachments F: V: T:	Item
46	Clause 4.5 - Existing premises occupied F: V: T:	Item
47	Clause 4.6 - Services - known F: V: T:	Item
<u>Management of Contract (B5)</u>		
a) Programming;		
b) Scheduling;		
c) Reporting;		
d) Production of shop drawings and samples;		
e) Procurement and expediting;		
f) Liaison and co-ordinating of construction;		
g) Commissioning, instruction, handover and follow up;		
h) Monitoring and reporting on building activities taking place off site.		
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	The names and CV's on the contractor's site management team shall be submitted to the principal agent prior to commencement on site and, after the principal agent's agreement on the composition thereof has been obtained. No changes shall be made nor shall any member of the said team be removed from site while remaining in employ of the contractor without the principal agent's express written approval. F: V: T:	Item
48	Clause 5.1 - Management of the works Clause 5.1 shall be deemed to be amended by the addition of the following: The contractor shall, to the satisfaction of the principal agent, provide the services of an experienced and competent Construction Manager and Site Agent supported by a management team who shall inter alia be responsible for all activities of the contractor and all sub-contractors and in particular:-	
49	Clause 5.2 - Progress meetings F: V: T:	Item
50	Clause 5.3 - Technical meetings F: V: T:	Item
	<u>Samples, shop drawings and manufacturer's instructions (B6)</u>	
51	Clause 6.1 - Samples of materials F: V: T:	Item
52	Clause 6.2 - Workmanship samples F: V: T:	Item
53	Clause 6.4 - Compliance with manufacturer's instructions F: V: T:	Item
54	Clause 6.3 - Shop drawings F: V: T:	Item
	<u>Deposits and fees (B7)</u>	
55	Clause 7.1 - Deposits and fees F: V: T:	Item
	<u>Temporary services (B8)</u>	
56	Clause 8.1 - Water Alternative A shall apply (ie. it is to be provided by the Contractor). Alternative B shall apply (ie. it is to be provided by the Employer). Alternative C shall apply (ie. it is to be provided by the Employer for the Contractor who shall make a metered connections to the existing water supply. The Employer shall meter the consumption for which the Contractor will be responsible) F: V: T:	Item
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57	Clause 8.2 - Electricity Alternative A shall apply (ie. it is to be provided by the Contractor). Alternative B shall apply (ie. it is to be provided by the Employer). Alternative C shall apply (ie. it is to be provided by the Employer for the Contractor who shall make a metered connections to the existing electricity supply. The Employer shall meter the consumption for which the Contractor will be responsible) F: V: T:	Item
58	Clause 8.3 - Ablution and welfare facilities Alternative A shall apply (ie. it is to be provided by the Contractor who shall maintain such facilities in an thoroughly clean and tidy condition). Alternative B shall apply (ie. the Employer who shall permit the use of such existing facilities. The Contractor shall maintain such facilities in an thoroughly clean and tidy condition and make good any damage thereto at his own expense). F: V: T:	Item
59	Clause 8.4 - Communication facilities F: V: T: <u>Prime cost amounts (B9)</u>	Item
60	Clause 9.1 - Responsibility for prime cost amounts F: V: T: <u>Attendance on subcontractors (B10)</u>	Item
61	Clause 10.1 - General attendance Clause 10.1 shall be amended by the addition of the following: a) Provide every assistance necessary for the due performance by all sub-contractors of their work and to enable them to execute their work in a like manner, in a proper order and sequence. b) Supervise and administer the sub-contractors and arrange and monitor programmes with each sub-contractor and supplier and co-ordinate the work of all sub-contractors and deliveries by suppliers. c) Attendance on Nominated/Selected sub-contractors simona Sun includes co-operating to the fullest extent with all parties and providing facilities for general attendance. F: V: T:	Item
62	Clause 10.2 - Special attendance F: V: T: <u>General (B11)</u>	Item
63	Clause 11.1 - Protection of the works F: V: T:	Item
64	Clause 11.2 - Protection/isolation of existing/sectionally occupied works F: V: T:	Item
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65	Clause 11.3 - Security of the works F: V: T:	Item	
66	Clause 11.4 - Notice before covering work F: V: T:	Item	
67	Clause 11.5 - Disturbance F: V: T:	Item	
68	Clause 11.6 - Environmental disturbance F: V: T:	Item	
69	Clause 11.7 - Works cleaning and clearing F: V: T:	Item	
70	Clause 11.8 - Vermin F: V: T:	Item	
71	Clause 11.9 - Overhand work F: V: T:	Item	
72	Clause 11.10 - Tenant installations by direct contractors F: V: T:	Item	
73	Clause 11.11 - Advertising F: V: T:	Item	
	<u>SECTION C: SPECIFIC PRELIMINARIES</u>		
	<u>Specific Preliminaries</u>		
74	Warranties for materials and workmanship Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer , from the entity supplying the materials and/or doing the work and shall deliver same to the principal agent on the final completion of the contract The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of final completion and that any defects that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written notice to do so. The warranty will not be enforced if the work is damaged by defects in the execution of the works , in which case the responsibility for replacement shall rest entirely with the contractor F: V: T:	Item	
75	Overtime Should overtime be required to be worked for any reason whatsoever, the costs of such overtime is to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer F: V: T:	Item	
76	Co-operation of the contractor for cost management		
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	It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget F: V: T:	Item
77	Overloading The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works eg scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc to the principal agent for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agent's requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense F: V: T:	Item
78	Propping of floors below The contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the principal agent and the cost thereof shall be borne by the contractor F: V: T:	Item
79	Health and Safety Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specification [2.1] F: V: T:	Item
80	Testing of flat roof waterproofing for watertightness Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept 'ponde for at least forty (40) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing F: V: T:	Item
81	Green star building certification F: V: T:	Item
82	Broad based black economic empowerment (BBBEE)	
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	Tenders submitted will be evaluated taking into account their empowerment rating The employer will be monitoring the black economic empowerment status of the contractor throughout the execution of the works The contractor is to submit to the principal agent on an annual basis a schedule of spend, split into vendors engaged as subcontractors and suppliers indicating their BBBEE rating including proof of the said rating F: V: T:	Item
83	Advertising rights The employer may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The contractor shall not prevent such an arrangement and will assist in the facilitation of same. Position and type of advertising structure to be agreed with the principal agent so as not to hinder the contractor in the meeting of his obligations under this agreement F: V: T:	Item
84	Confidentiality The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. Such information shall not be used in any way except in connection with the execution of the works No information regarding this project shall be published or disclosed without the prior written consent of the employer F: V: T:	Item
85	Media releases All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the employer The contractor together with his subcontractors shall not, without the prior written consent of the employer, cause any statement or advertisement to be printed, screened or aired by the media F: V: T:	Item
86	Proprietary branded products The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative. F: V: T:	Item
87	Trade Names, etc.	
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	All materials, fittings, finishings, etc., specified hereinafter under a trade name, catalogue number or reference, must be exactly as described. The Architect's approval in writing must be obtained for the use of any alternative to the specification before the submission of tenders otherwise the specified materials, fittings, finishings, etc., will be assumed to have been allowed for in the tender. The Contractor must take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative. F: V: T:		Item
88	Contractors responsibility The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved. F: V: T:		Item
89	As- built drawings The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records. Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion. F: V: T:		Item
90	Construction Instructions Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books: a) Construction Instruction Book: Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book. Only instructions issued in such book shall be recognised. b) Daily Record Book: The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor. F: V: T:		Item
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91	Labour record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day. F: V: T:	Item
92	Plant record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works. F: V: T:	Item
93	Encroachment During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor. F: V: T:	Item
94	Method Statement The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works. F: V: T:	Item
95	Unauthorised Persons/Workmen on Premises The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect. No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer. F: V: T:	Item
96	Mode of Procedure	
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	Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited. Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost. F: V: T:		
97	Shop Drawings The term 'shop drawings' shall mean drawings, layout drawings, diagrams, illustrations, schedules, performance charts, brochures, operating manuals and other data which are prepared by the Contractor or any Sub-Contractor, manufacturer, supplier or distributor and which illustrate the specified portion of the work. (a) Three prints of shop drawings of all fabricated work, working or setting out drawings, shop details and schedules shall be submitted to the Principal Agent, for approval. Such work shall not be carried out until such approval has been given. (b) Shop drawings shall be submitted to the Principal Agents for approval at least two weeks prior to the date on which such approval is required in order to comply with the Contract Programme. (c) All submissions shall be prepared in accordance with the Contract drawings and specifications and/or any Principal Agents instructions and any deviation shall be specifically highlighted in writing, with a detailed explanation of the reason for such deviation, together with any cost and/or time implications. Delays in approval of shop drawings due to non-compliance with drawings, specifications and/or Principal Agents instruction shall not constitute grounds for any claims for delay, extension of time and the like. (d) When the Principal Agent advises that shop drawings have been approved, the original transparencies of such drawings shall immediately be submitted to the Principal Agent so that the Principal Agent's stamp of approval may be appended thereto. Thereafter, four prints of the approved shop drawings, setting out drawings and schedules shall be furnished to the Principal Agent. As many prints of the approved shop drawings and schedules as required shall also be furnished to the Works. No work shall be performed in accordance with drawings and/or catalogues not stamped with the Principal Agent's approval. (e) The Contractor, Sub-Contractor or Supplier, as the case may be, shall be responsible for ensuring that all dimensions affecting shop drawings conform to the dimensions of built work. (f) The Architects approval of shop drawings is limited to checking conformity with specification and shall not relieve the Contractor, Sub-Contractor or Supplier of his responsibility for design, erection or installation fit, nor does it vary his contractual or delictual obligations and liabilities.		
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98	(g) Should the Contractor, Sub-Contractor or Supplier be of the opinion that corrections to shop drawings made by the Architect constitute a change to the scope of work, then he shall immediately advise the Architect in writing of this, together with the cost and/or programme implications thereof, in order to obtain the Architects directive.	
	(h) One additional copy of the final approved set of 'Shop drawings' is to be submitted to the Quantity Surveyors for purposes of valuation remeasurement.	
	F: V: T:	
98	Commodities to be New	Item
99	All commodities, goods, articles or materials throughout the building are to be new except where re-use of existing is specified and are to be handled, stored, used, and/or fixed with care to ensure that they are in perfect condition when incorporated into the Works and thereafter properly protected so as to ensure that they are likewise in perfect condition when handed over at completion of the Work.	
	F: V: T:	Item
99	Standard of Workmanship and Materials	
100	In the absence of detailed specifications for any item or items, National Building Regulations, the latest applicable South African Bureau of Standards Specification, or where such does not exist, then the latest applicable British Standard Specification shall apply.	
	F: V: T:	Item
100	Making Good	
101	All materials and workmanship in building up, making good, etc., are to match existing and where new materials abutt existing, they are to be neatly jointed to same. 'Making good' existing work where disturbed or damaged shall mean the provision of the necessary new material to match existing and the necessary workmanship so that a complete restoration is achieved to the satisfaction of the Principal Agent. 'Making good' where abutting walls, etc., are removed, shall mean the provision of the necessary material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, continuous with surrounding surfaces and matching of same, is obtained to the Architect's satisfaction.	
	F: V: T:	Item
101	Location of Temporary Buildings and Temporary Services	
	The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period. There is no guarantee given or implied that site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.	
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102	Removal and Making Good of Temporary Works, etc, on Completion The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom. F: V: T:	Item
103	Overloading The Tenderer shall prior to submitting his tender determine from the Engineers any constraints and limitations in respect of Works to be executed, which have load limitations. The Contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the Works. The Contractor shall submit details of his proposed loading, storage, plant erection, etc., to the Principal Agents for their approval prior to proceeding with such loading, storing, erecting or executing work and shall comply with and pay for the Engineers requirements in connection with the provision of temporary support work, etc. Any damage caused by the Works by overloading shall be made good by the Contractor at his sole expense. Notwithstanding any approval given by the Principal Agent or Engineer, the Contractor shall be entirely responsible for damage caused to the Works by overloading which damage shall be made good by the Contractor at his sole expense. F: V: T:	Item
104	Tender Sum to be Fully Inclusive The Tender Sum is deemed to be the fully inclusive price for the finished work described and is deemed to include inter alia for: - The supply of all materials. - Labour of every description including additional costs incurred in working overtime, weekends, public holidays, etc., to meet the stipulated programme dates. - All making, transport, conveying, cartage, carriage and delivery, etc. - Taking delivery, unloading, storing, unpacking, hoisting or lowering, settings, fixing and building into positions, cutting and waste, templates, patterns and models. - Provision and maintenance of all plant, equipment, machines, trucks and other vehicles, tackle, tools, staging, sheds, stores and temporary works necessary for the due and proper performance of the Contract Works, establishment charges and all fuel, operating costs and depreciation pertaining to plant, equipment, etc. - All applicable import taxes and duties. - Overheads and profit - All obligations arising out of the Bills of Quantities, and all costs and charges deemed necessary for complying with the terms and conditions herein. All charges required by the Contractor in connection with Preliminary and General, site establishment and the like. F: V: T:	Item
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		Amount
105	Cost of Claims All costs incurred by the Contractor in the preparation of claims to the satisfaction of the Principal Agent and/or Quantity Surveyor shall be borne by the Contractor. F: V: T:	Item
106	Guarantees and Maintenance Manuals The Contractor shall obtain and hand over to the Principal Agent on Practical Completion, all relevant guarantees, any operating and maintenance instruction manuals, data or instructions required by the Principal Agent or provided by manufacturer's, suppliers or Sub-Contractors. The Contractor shall ensure that all warranties and guarantees received are fully ceded to the Employer on Final Completion, failing which the release of the Construction Guarantee will be withheld until this is satisfactorily completed. F: V: T:	Item
107	Occupational Health and Safety Act The Contractor shall for the duration of this contract be deemed to be the mandatory of the Council for the purposes of the Occupational Health and Safety Act, Act 85 of 1993, and he shall prior to taking occupation of the site satisfy the Council by means of written representations that he has fully complied with the relevant requirements of the said Act. Acceptance by the Council of the Contractors written representations in terms of the above shall constitute an agreement in writing to the arrangements and procedures between the parties to ensure compliance by the Contractor with the provisions of the Act referred to therein, for the purposes of Section 37(2) of the said Act. The Council shall at all times have the right to summarily suspend the performance of the Contractor hereunder pending compliance by the Contractor with any requirement, regulation and/or direction referred to. The Council shall be entitled to set-off against any amount owed by the Council to the Contractor hereunder any loss or damage suffered by it as a result of the suspension of the Contractor's performance in the circumstances envisaged above. The Tenderer shall price for all necessary items to comply with the Occupational Safety and Health Specification contained in the Annexure at the back of these Bills of Quantities. F: V: T:	Item
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SECTION NO. 2

ALTERATIONS

		Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>					
<u>ALTERATIONS</u>					
<u>BILL NO. 1</u>					
<u>DEMOLITIONS</u>					
<u>DEMOLITIONS</u>					
1	200mm Thick reinforced concrete surface beds, paving, etc	m ²	1		
2	50mm Thick concrete block paving on sand bedding	m ²	1		
3	100mm Thick brick paving with mortar joints on sand bedding	m ²	1		
4	230 x 125mm Unreinforced concrete kerbs	m	1		
5	220 x 75mm Brick kerbs with mortar joints and concrete bedding	m	1		
<u>Taking down and removing</u>					
6	Steel diamond mesh fence 1800mm high with steel posts and droppers	m	1		
7	Mesh Fence 1800mm high with 75mm x 75mm x 3000mm posts and 2400mm droppers	m	1		
8	Steel diamond mesh security fence with steel posts and droppers and 45 degree barbed wire overhang 2400mm high overall	m	1		
<u>Demolishing and removing</u>					
9	Half brick boundary or yard walls 3000mm high	m	1		
10	Half brick boundary or yard walls 3000mm high with pilasters at 600mm centres	m	1		
11	One brick boundary or yard walls 3000mm high	m	1		
<u>Breaking up and removing</u>					
12	Single storey building with pitched roof, 12m x 10m on plan and 3m high at eaves, comprising unreinforced concrete surface bed, 220mm external walls, 110mm internal walls and 20 degree roof covering on timber trusses including fascias, barge boards, gutters and rainwater pipes.	No	1		
Carried to Collection				R	
Section No. 2					
Bill No. 1					
Demolitions					

		Unit	Quantity	Rate	Amount
13	Double storey building with flat roof, 15m x 10m on plan and 3m high overall, comprising unreinforced concrete surface bed, reinforced concrete intermediate and roof slabs, 220mm external walls and 110mm internal walls including fascias,barge boards,gutters and rainwater pipes.	No	1		
14	Single storey building with pitched roof, 15m x 15m on plan and 3.5m high at eaves, comprising unreinforced concrete surface bed, 220mm external walls, 110mm internal walls and concrete roof tiles on timber trusses including fascias,barge boards,gutters and rainwater pipes.	No	1		
15	Excavation in earth not exceeding 2m deep to remove foundations	m ³	1		
16	Extra over for removal of brickwork	m ³	1		
17	Extra over for removal of reinforced concrete	m ³	1		
18	100mm Thick unreinforced concrete surface beds, paving, etc	m ²	1		
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Demolitions					

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Section No. 2
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Demolitions

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>ALTERATIONS</u>				
<u>BILL NO. 2</u>				
<u>ALTERATIONS</u>				
<u>TEMPORARY BARRICADES, SCREENS, ETC</u>				
<u>Temporary barricades, screens, roofs, etc including removal</u>				
1 Half brick barrier wall 1200mm high, including cement plaster and two coats interior quality PVA emulsion paint on one side	m	1		
2 Dust screen 2000mm high between concrete floor and ceiling ,of suitable timber framing with 375 micron polyethylene sheeting stapled on on one side ,including corners, ends, etc	m	1		
3 Drywall barricade 2700mm high of galvanised steel channel section rails and studs covered on one side with 12,7mm gypsum plaster board and finished with two coats interior quality PVA emulsion paint , including corners, ends, etc	m	1		
4 Extra over preceding item for hollow core single door 813 x 2032mm high, including steel frame, two-lever mortice lock, primer and two coats paint	No	1		
5 Protection roof 2000mm x 3000mm over main entrance formed of troughed sheet metal on timber bearers and posts etc	No	1		
<u>REMOVAL OF EXISTING WORK</u>				
<u>Breaking up and removing unreinforced concrete</u>				
6 Steps	m ³	1		
7 100mm Thick surface beds or pavings	m ²	1		
<u>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement</u>				
8 Stairs and landings	m ³	1		
9 Beams	m ³	1		
10 Columns	m ³	1		
11 150mm Thick surface beds	m ²	1		
12 200mm Thick slabs	m ³	1		
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Alterations				

		Unit	Quantity	Rate	Amount
13	1500mm x 1500mm Portion of 200mm thick slab	m ³	1		
14	1500mm x 2000mm Opening through 200mm thick slab	m ³	1		
	<u>Breaking down and removing brickwork etc</u>				
15	Mass brickwork	m ³	1		
16	Half brick walls	m ²	1		
17	One brick walls	m ²	1		
18	270mm Hollow walls of two half brick skins	m ²	1		
	<u>Taking out and removing doors, windows, etc from brickwork to be demolished</u>				
19	Timber single door and frame not exceeding 2,5m ²	No	1		
20	Timber double door and frame exceeding 2,5m and not exceeding 5m	No	1		
21	Timber single door and steel frame not exceeding 2,5m	No	1		
22	Timber double door and steel frame exceeding 2,5m and not exceeding 5m	No	1		
23	Glazed timber window not exceeding 2,5m	No	1		
24	Glazed timber window exceeding 2,5m and not exceeding 5m	No	1		
25	Glazed timber window exceeding 5m and not exceeding 7.5m	No	1		
26	Glazed steel window not exceeding 2,5m	No	1		
27	Glazed steel window exceeding 2,5m and not exceeding 5m	No	1		
28	Glazed steel window exceeding 5m and not exceeding 7.5m	No	1		
29	Roller shutter door 2400mm x 2100mm high	No	1		
	<u>Taking out and removing doors, windows, etc, including thresholds, sills, etc (building up openings and making good finishes elsewhere)</u>				
30	Timber single door and frame 900 x 2100mm high overall from one brick wall	No	1		
31	Timber double door and frame 1600 x 2100mm high overall from one brick wall	No	1		
32	Timber single door and steel frame 900 x 2100mm high overall from one brick wall	No	1		
	Carried to Collection			R	
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	Alterations				

		Unit	Quantity	Rate	Amount
33	Timber double door and steel frame 1600 x 2100mm high overall from one brick wall	No	1		
34	Glazed timber window 1000mm x 1000mm high from one brick wall	m²	1		
35	Glazed steel window 1000mm x 1000mm high from one brick wall	m²	1		
	<u>Taking out and removing doors, windows, etc, including thresholds, sills, etc., setting aside for re-use and later refixing in similar new position</u>				
36	Timber single door and frame 900 x 2100mm high overall including setting up and building in frame in new brickwork, rehanging door on new 2 x 100mm brass hinges and replacing lock with two lever mortice lockset	No	1		
37	Glazed steel window 1000mm x 1000mm high including setting up and building in in new brickwork and replacing any broken glass panes with 4mm clear float glass	No	1		
	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>				
38	Corrugated sheet steel roof covering and timber purlins	m²	1		
39	Pitched roof 10m x 5m x 3m high overall, of timber trusses and purlins, corrugated sheet steel covering, ceilings and cornices, eaves soffit covering, fascias, barge boards, gutters and rainwater pipes	No	1		
40	Tongued and grooved timber suspended floors, including timber joists, bearers, skirtings, etc	m²	1		
41	Slatted timber panelling, including timber grounds, beads, etc	m²	1		
42	Tongued and grooved timber panelling, including timber grounds, beads, etc	m²	1		
43	Gypsum plasterboard ceilings, including timber bandering, cornices, etc	m²	1		
44	Flush plastered gypsum plasterboard suspended ceilings, including suspension grid, hangers, cornices, etc	m²	1		
45	Acoustic tile suspended ceilings, including suspension grid, hangers, cornices, etc	m²	1		
46	Drywall partitions 3m high, including doors, glazed borrowed lights, etc	m	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
	<u>Taking out and removing sundry joinery work, fittings, etc</u>				
47	Timber cornices	m	1		
48	Timber skirtings	m	1		
49	Timber sills	m	1		
50	Timber wall cupboard 2000 x 600 x 900mm high	No	1		
51	Timber floor cupboard 1500 x 600 x 1200mm high	No	1		
52	Timber sink cupboard 1500 x 600 x 900mm high, including sink and disconnecting waste pipe	No	1		
53	Timber counter 3000 x 600 x 900mm high	No	1		
	<u>Taking out and removing sundry joinery work, fittings, etc, setting aside for re-use and later refixing in similar new position</u>				
54	Timber cornices	m	1		
55	Timber skirtings	m	1		
56	Timber sills	m	1		
	<u>Taking up and removing wood block floor coverings, vinyl floor coverings, carpets, etc and preparing screeds for new floor coverings</u>				
57	Wood block floor covering	m ²	1		
58	Vinyl tile floor covering	m ²	1		
59	Vinyl sheet floor covering with welded joints	m ²	1		
60	Carpet tile floor covering	m ²	1		
	<u>Taking out and removing ironmongery</u>				
61	Mortice lockset from timber door	No	1		
62	Door closer from timber door and frame	No	1		
63	Towel rail not exceeding 1000mm long from wall	No	1		
64	Toilet paper holder from wall	No	1		
65	Hat and coat hook from wall	No	1		
	<u>Taking out/off and removing sundry metalwork</u>				
66	Steel pipe handrails from walls, including brackets, and making good plaster finish	m	1		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 2				
	Alterations				

		Unit	Quantity	Rate	Amount
67	Steel balustrades 1200mm high from concrete stairs, including making good granolithic finish	m	1		
68	Steel staircase comprising two flights and one landing 6000mm x 1000mm overall on plan and rising 3000mm, including supporting columns, balustrades, etc	No	1		
69	Steel wire mesh burglar proofing with frame 1000mm x 1000mm high bolted to brickwork, including making good face brickwork	No	1		
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u>				
70	40mm Granolithic from floors	m ²	1		
71	30mm Granolithic from treads and risers of stairs	m ²	1		
72	Granolithic skirtings 100mm high	m	1		
73	40mm Screed from floors	m ²	1		
74	80mm Screed from floors, including vinyl floor covering	m ²	1		
75	Internal plaster from walls and columns	m ²	1		
76	Internal plaster from ceilings and beams	m ²	1		
77	External plaster from walls, columns and beams	m ²	1		
	<u>Hacking up/off and removing ceramic tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc</u>				
78	Tiles to floors	m ²	1		
79	Tiles to treads and risers of stairs	m ²	1		
80	Tiles to walls	m ²	1		
81	Tile skirtings 100mm high	m	1		
	<u>Taking out and removing piping, including cutting off as necessary, holderbats and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>				
82	PVC / Copper / Steel piping not exceeding 50mm nominal diameter	m	1		
83	PVC /Copper / Steel /Cast iron piping exceeding 50mm and not exceeding 100mm nominal diameter	m	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
84	PVC /Copper /Steel/ Cast iron piping exceeding 100mm and not exceeding 150mm nominal diameter	m	1		
	<u>Taking out and removing sanitary fittings, tanks, geysers, etc, including disconnecting from pipes, traps, etc and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>				
85	Stainless steel wash hand basin	No	1		
86	Stainless steel sink and drainer including timber cupboard 1000 x 600 x 900mm high	No	1		
87	Vitreous china wash hand basin	No	1		
88	Vitreous china WC pan with cistern and flush pipe	No	1		
89	Vitreous china WC pan with flush valve and flush pipe	No	1		
90	Vitreous china wall hung urinal with flush valve and flush pipe	No	1		
91	Stainless steel slab urinal 1200 x 1500mm high, including breaking up and removing 500mm wide concrete urinal step	No	1		
92	150 Litre geyser from wall or ceiling	No	1		
	<u>Taking out/off and removing glass and mirrors</u>				
93	Glass from timber windows with beads, including cleaning out rebates and preparing for new glass	m ²	1		
94	Glass from aluminium windows with beads, including cleaning out rebates and preparing for new glass	m ²	1		
95	Glass from steel windows, including cleaning out rebates and preparing for new glass	m ²	1		
96	Mirror 1000 x 1000mm high from wall	m ²	1		
	<u>CUTTING THROUGH FLOORS AND CEILINGS</u>				
	<u>Cutting through:</u>				
97	100mm Thick unreinforced concrete surface bed for 900mm wide concrete wall footings and making good concrete on both sides of new brick walls (making good floor finishes elsewhere)	m	1		
98	150mm Thick unreinforced concrete surface bed for 50mm nominal diameter pipe and making good concrete (making good floor finishes elsewhere)	m	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
99	100mm Thick unreinforced concrete surface bed for 1000 x 1000mm concrete column base and making good concrete all round (making good floor finishes elsewhere)	m	1		
100	Gypsum plasterboard ceilings and timber bandering for half brick walls ,including making good on both sides of walls, necessary additional bandering etc (new cornices elsewhere)	m	1		
	<u>BUILDING UP OPENINGS</u>				
	<u>Brickwork in NFP bricks in class II mortar in building up openings</u>				
101	Half brick walls	m ²	1		
102	One brick walls	m ²	1		
103	270mm Hollow walls of two half brick skins	m ²	1		
	<u>Brickwork in NFP bricks in class II mortar in building up openings, including bonding new to existing and making good cement plaster on both side (making good paintwork elsewhere)</u>				
104	Opening 500 x 500mm high overall in half brick wall	No	1		
	<u>Sundries</u>				
105	Cutting toothings and bonding new brickwork to existing	m ²	1		
	<u>'Corobrik Firelight Satin FBX' Face bricks pointed with flush or recessed horizontal and vertical joints</u>				
106	Extra over brickwork for face brickwork in patches	m ²	1		
107	Cutting toothings and bonding new face brickwork to existing	m	1		
108	220mm Wide brick-on-edge header course sills set sloping and slightly projecting	m	1		
	<u>PREPARATORY WORK TO EXISTING SURFACES</u>				
109	Hacking faces of existing concrete columns, beams, etc to receive plaster	m ²	1		
110	Raking out joints of existing face brickwork to receive plaster finish	m ²	1		
111	Hacking existing face brickwork to receive plaster finish	m ²	1		
112	Hacking existing face brickwork and raking out joints to receive plaster finish	m ²	1		
	Carried to Collection			R	
	Section No. 2				
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	Alterations				

		Unit	Quantity	Rate	Amount
113	Making good defects in existing screeded floors with 'Pavlite'	m ²	1		
	<u>MAKING GOOD OF FINISHES ETC</u>				
	<u>Making good face brickwork</u>				
114	Ends of half brick walls	m	1		
115	Ends of one brick walls	m	1		
116	Faces of walls where half brick one brick cross walls removed	m	1		
	<u>Making good gypsum plasterboard ceilings and timber branderling</u>				
117	Ceilings in patches	m ²	1		
118	Ceilings where half brick walls removed	m	1		
119	Ceilings where one brick walls removed	m	1		
	<u>Making good 300 x 300 x 3mm semi-flexible vinyl floor tiles</u>				
120	Floors in patches	m ²	1		
121	Floors where 65mm partitions removed	m	1		
122	Floors where half brick walls removed	m	1		
123	Floors where one brick walls removed	m	1		
	<u>Making good untinted granolithic</u>				
124	40mm Thick on floors in patches	m ²	1		
125	Floors where half brick walls removed	m	1		
126	Floors where one brick walls removed	m	1		
	<u>Making good cement screeds</u>				
127	40mm Thick on floors in patches	m ²	1		
128	Floors where half brick walls removed	m	1		
129	Floors where one brick walls removed	m	1		
	<u>Making good internal cement plaster</u>				
130	Walls in patches	m ²	1		
131	Concrete ceilings in patches	m ²	1		
132	Walls where half brick walls removed	m ²	1		
133	Walls where one brick walls removed	m ²	1		
	Carried to Collection			R	
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	Alterations				

		Unit	Quantity	Rate	Amount
134	Concrete ceilings where half brick walls removed	m	1		
135	Concrete ceilings where one brick walls removed	m	1		
<u>OPENINGS THROUGH EXISTING WALLS ETC</u>					
<u>Altering openings</u>					
136	Altering opening in one brick wall where 1000mm x 1000mm high steel window removed to form opening for new double door and frame 900 x 1600mm high overall by breaking out brickwork on both sides and bottom, including prestressed concrete lintels, making good cement plaster on one side and into reveals and face brickwork on other side and into reveals and with 20 MPa concrete threshold with steel trowelled finish (new door and frame and making good paintwork elsewhere)	No	1		
<u>Breaking out for and forming plain openings through brick walls, including prestressed concrete lintels, making good cement plaster on both sides and into reveals and with 20 MPa concrete thresholds with steel trowelled finish (making good paintwork elsewhere)</u>					
137	Opening 1000 x 1000mm high through one brick wall	No	1		
<u>Breaking out for and forming openings through brick walls for new doors and frames, including prestressed concrete lintels, making good cement plaster on both sides and into reveals and with 20 MPa concrete thresholds with steel trowelled finish (new doors and frames and making good paintwork elsewhere)</u>					
138	Opening for door with timber frame 900 x 2100mm high overall through half brick wall	No	1		
139	Opening for door with steel frame 900 x 2100mm high overall through half brick wall	No	1		
<u>Breaking out for and forming openings through brick walls for new doors and frames, including brick lintels, making good cement plaster on one side and into reveals and face brickwork on other side and into reveals and with 20 MPa concrete thresholds with steel trowelled finish (new doors and frames and making good paintwork elsewhere)</u>					
140	Opening for door with timber frame 900 x 2100mm high overall through one brick wall	No	1		
141	Opening for door with steel frame 900 x 2100mm high overall through one brick wall	No	1		
Carried to Collection				R	
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Alterations					

		Unit	Quantity	Rate	Amount
	<u>Breaking out for and forming openings through brick walls for new windows, including prestressed concrete lintels, making good cement plaster on both sides and into reveals and with sloping fibre-cement sills on outside and flat fibre-cement sills on inside (new windows and making good paintwork elsewhere)</u>				
142	Opening for window 1000 x 1000mm high through one brick wall	No	1		
143	Opening for window 1000 x 1000mm high through 270mm hollow wall of two half brick skins, including building cavity solid	No	1		
	<u>Breaking out for and forming openings through brick walls for new windows, including brick lintels, making good cement plaster on one side and into reveals and face brickwork on other side and into reveals and with sloping quarry tile sills on outside and flat quarry tile sills on inside (new windows and making good paintwork elsewhere)</u>				
144	Opening for window 1000 x 1000mm high through one brick wall	No	1		
145	Opening for window 1000 x 1000mm high through 270mm hollow wall of two half brick skins, including building cavity solid	No	1		
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SECTION NO. 3
EXCAVATIONS

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>EXCAVATIONS</u>				
<u>BILL NO. 1</u>				
<u>EARTHWORKS</u>				
<u>EARTHWORKS (PROVISIONAL)</u>				
<u>Nature of ground</u>				
The nature of the ground is assumed to be loose sandy material, therefore earth, but possibly interspersed with soft rock or hard rock				
<u>Carting away of excavated material</u>				
<u>Filling and layer work materials</u>				
<u>Testing</u>				
Prices for filling are to include for all necessary density and other tests				
<u>SITE CLEARANCE</u>				
<u>Site clearance</u>				
1 Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m ²	1		
<u>REMOVAL OF TREES ETC</u>				
<u>Taking out and removing, grubbing up roots and filling in holes</u>				
2 Tree stump not exceeding 1m high, exceeding 200mm and not exceeding 500mm girth	No	1		
3 Tree stump not exceeding 1m high, exceeding 500mm and not exceeding 1000mm girth	No	1		
4 Tree stump exceeding 1m high, exceeding 1000mm and not exceeding 2000mm girth	No	1		
<u>Taking out and removing, grubbing up roots, filling in holes and compacting to 95% Mod AASHTO density</u>				
5 Tree stump not exceeding 1m high, exceeding 200mm and not exceeding 500mm girth	No	1		
6 Tree stump not exceeding 1m high, exceeding 500mm and not exceeding 1000mm girth	No	1		
7 Tree stump exceeding 1m high, exceeding 1000mm and not exceeding 2000mm girth	No	1		
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Earthworks				

		Unit	Quantity	Rate	Amount
	<u>Cutting down and removing, grubbing up roots and filling in holes</u>				
8	Hedge not exceeding 1000mm high	m	1		
9	Hedge exceeding 1000mm and not exceeding 2000mm high	m	1		
10	Tree exceeding 200mm and not exceeding 500mm girth	No	1		
11	Tree exceeding 500mm and not exceeding 1000mm girth	No	1		
	<u>Cutting down and removing, grubbing up roots, filling in holes and compacting to 98% Mod AASHTO density</u>				
12	Hedge not exceeding 500mm high	m	1		
13	Hedge exceeding 500mm and not exceeding 1000mm high	m	1		
14	Tree exceeding 200mm and not exceeding 500mm girth	No	1		
15	Tree exceeding 500mm and not exceeding 1000mm girth	No	1		
	<u>BULK EXCAVATION, FILLING, ETC</u>				
	<u>EXCAVATIONS ETC</u>				
	<u>Digging up topsoil</u>				
16	Digging up topsoil to an average depth of 100mm and preserving for use as filling	m ²	1		
	<u>Open face excavation in earth over sloping site</u>				
17	Open face excavation	m ³	1		
	<u>Excavation in earth for basement</u>				
18	Not exceeding 2m deep	m ³	1		
19	Exceeding 2m and not exceeding 4m deep	m ³	1		
20	Exceeding 4m and not exceeding 6m deep	m ³	1		
21	Exceeding 6m and not exceeding 8m deep	m ³	1		
	<u>Excavation in earth within basement level exceeding 1m and not exceeding 2m deep below ground level</u>				
22	Not exceeding 2m deep to reduce levels to final levels under floors etc	m ³	1		
23	To remove sloping banks	m ³	1		
24	To remove sloping banks in 2m alternating sections	m ³	1		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 1				
	Earthworks				

		Unit	Quantity	Rate	Amount
	<u>Extra over bulk excavations in earth for excavation in</u>				
25	Soft rock	m ³	1		
26	Hard rock	m ³	1		
	<u>Extra over bulk excavations in earth for breaking up and removing</u>				
27	Brickwork	m ³	1		
28	Unreinforced concrete	m ³	1		
29	Reinforced concrete	m ³	1		
	<u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 95% Mod AASHTO density</u>				
30	Not exceeding 500mm deep for placing and removing formwork to walls etc, 1000mm away from excavated face	m ²	1		
31	Extra over for excavation in soft rock	m ²	1		
32	Extra over for excavation in hard rock	m ²	1		
33	Exceeding 1m and not exceeding 2m deep for placing and removing formwork to walls etc, 1000mm away from excavated face	m ²	1		
34	Extra over for excavation in soft rock	m ²	1		
35	Extra over for excavation in hard rock	m ²	1		
	<u>Extra over all excavations for carting away</u>				
36	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	1		
37	Surplus material from excavations and/or stock piles on site to a dumping site situated approximately 10km from the building site	m ³	1		
	<u>Risk of collapse of excavations</u>				
38	Sides of bulk excavations not exceeding 1,5m deep	m ²	1		
39	Sides of bulk excavations exceeding 1,5m deep	m ²	1		
	<u>Keeping excavations free of water</u>				
40	Keeping excavations free of water other than subterranean water	Item			
Carried to Collection				R	
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Earthworks					

		Unit	Quantity	Rate	Amount
	<u>De-watering of seepage water and water from other subterranean sources in excavations</u>				
41	Provide pump with minimum 60 litres/hour capacity at 10m head, including maintenance and removal	No	1		
42	Provide necessary hoses for the above, including couplings etc	m	1		
43	Allow for pumping (one pump)	Hrs	1		
	<u>FILLING ETC</u>				
	<u>Earth filling obtained from the excavations (not compacted)</u>				
44	In prescribed stock piles on site	m ³	1		
45	Over site to make up levels	m ³	1		
46	In landscape mounds, berms, etc	m ³	1		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density</u>				
47	Over site to make up levels	m ³	1		
48	Over site to form platforms	m ³	1		
	<u>Compaction of surfaces</u>				
49	Compaction of natural or excavated ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density	m ²	1		
	<u>TESTS</u>				
	<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>				
50	Modified AASHTO Density test	No	1		
51	Field Density test including Optimum Moisture Content test (four readings per test)	No	1		
	<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>				
	<u>Digging up topsoil</u>				
52	Digging up topsoil to an average depth of 100mm and preserving for use of filling	m ²	1		
	<u>Open face excavation in earth over sloping site</u>				
53	Open face excavation	m ³	1		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 1				
	Earthworks				

	Unit	Quantity	Rate	Amount
<u>Excavation in earth not exceeding 2m deep</u>				
54	Basements	m ³	1	
55	Reduced levels under floors	m ³	1	
56	Trenches	m ³	1	
57	Holes	m ³	1	
58	Thickening under surface beds etc	m ³	1	
59	Underpinning in 1m alternating sections under existing foundations	m ³	1	
60	Underpinning in 2m alternating sections under existing foundations	m ³	1	
<u>Excavation in earth exceeding 2m and not exceeding 4m deep</u>				
61	Basements	m ³	1	
62	Reduced levels under floors	m ³	1	
63	Trenches	m ³	1	
64	Holes	m ³	1	
<u>Extra over bulk excavations in earth for excavation in</u>				
65	Soft rock	m ³	1	
66	Hard rock	m ³	1	
<u>Extra over bulk excavations in earth for breaking up and removing</u>				
67	Brickwork	m ³	1	
68	Unreinforced concrete	m ³	1	
69	Reinforced concrete	m ³	1	
<u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 98% Mod AASHTO density</u>				
70	Not exceeding 500mm deep for placing and removing formwork to walls etc, 500mm away from excavated face	m ²	1	
71	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m ³	1	
Carried to Collection				R
Section No. 3				
Bill No. 1				
Earthworks				

		Unit	Quantity	Rate	Amount
72	Surplus material from excavations and/or stock piles on site, to a dumping site situated approximately 10km from the building site	m ³	1		
	<u>Risk of collapse of excavations</u>				
73	Sides of bulk excavations not exceeding 1,5m deep	m ²	1		
74	Sides of bulk excavations exceeding 1,5m deep	m ²	1		
75	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	1		
76	Sides of trench and hole excavations exceeding 1,5m deep	m ²	1		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 98% Mod AASHTO density</u>				
77	Over site to make up levels	m ³	1		
78	In landscape mounds, berms, etc	m ³	1		
79	Under floors, steps, pavings, etc	m ³	1		
80	Backfilling behind retaining walls	m ³	1		
81	Backfilling to trenches, holes, etc	m ³	1		
	<u>Filling of gravel-soil material G7 supplied by the contractor, compacted to 98% Mod AASHTO density</u>				
82	Over site to make up levels	m ³	1		
83	In landscape mounds, berms, etc	m ³	1		
84	Under floors, steps, pavings, etc	m ³	1		
85	Backfilling behind retaining walls	m ³	1		
86	Backfilling to trenches, holes, etc	m ³	1		
	<u>Filling of natural gravel material G5 supplied by the contractor, compacted to 98% Mod AASHTO density</u>				
87	Over site to make up levels	m ³	1		
88	In landscape mounds, berms, etc	m ³	1		
89	Under floors, steps, pavings, etc	m ³	1		
90	Backfilling behind retaining walls	m ³	1		
91	Backfilling to trenches, holes, etc	m ³	1		
	Carried to Collection			R	
	Section No. 3				
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	Earthworks				

		Unit	Quantity	Rate	Amount
	<u>Selected topsoil filling obtained from the excavations and/or prescribed stock piles on site, lightly consolidated</u>				
92	Over site	m ³	1		
93	In landscape mounds, berms, etc	m ³	1		
94	In plant boxes	m ³	1		
	<u>Well sifted topsoil filling supplied by the contractor, lightly consolidated</u>				
95	Over site	m ³	1		
96	In landscape mounds, berms, etc	m ³	1		
97	In plant boxes	m ³	1		
	<u>Filling of coarse river sand supplied by the contractor, consolidated</u>				
98	Under floors etc	m ³	1		
99	Behind retaining walls	m ³	1		
100	In floor ducts	m ³	1		
	<u>Filling of hardcore, consolidated</u>				
101	Under floors etc	m ³	1		
	<u>Filling of graded crushed stone G2 consolidated</u>				
102	Under floors etc	m ³	1		
103	Behind retaining walls	m ³	1		
104	In subsoil drain trenches around pipes	m ³	1		
	<u>LAYER WORK</u>				
	<u>Selected earth filling obtained from the excavations and/or prescribed stock piles on site</u>				
105	Subbase course under parking areas etc, compacted to 98% Mod AASHTO density	m ³	1		
106	Base course under parking areas etc, compacted to 98% Mod AASHTO density	m ³	1		
	<u>Filling supplied by the contractor under parking areas, roadways, etc</u>				
107	G7 gravel-soil material compacted to 98% Mod AASHTO density	m ³	1		
	Carried to Collection			R	
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	Earthworks				

		Unit	Quantity	Rate	Amount
108	Subbase course of G5 natural gravel material, compacted to 98% Mod AASHTO density	m³	1		
109	Base course of G6 natural gravel material, compacted to 98% Mod AASHTO density	m³	1		
	<u>Filling with suitable imported rockfill material (200mm thick loose) supplied and carted onto site by the contractor, deposited in 150mm thick layers and compacted to a density of at least 95% Mod.AASHTO maximum density:</u>				
110	Under surface beds, trenches, etc	m³	1		
	<u>GABIONS AND INTERLOCKING BLOCK RETAINING STRUCTURES</u>				
	<u>Gabions of galvanised wire boxes laced together and filled with broken stone</u>				
111	500mm Thick retaining wall of 3000 x 2000 x 500mm boxes properly bonded (total height not exceeding 5m) (total height exceeding 5m and not exceeding 7m)	m³	1		
112	300mm Thick embankment protection of 3000 x 3000 x 300mm mattresses with diaphragm divisions at 1m centres, butt jointed (total height not exceeding 5m)	m³	1		
	<u>FILTER FABRIC</u>				
	<u>"Bidim U14" filter fabric blanket with 250mm laps</u>				
113	Under stone filled gabion mattresses including preparing ground surface under	m²	1		
114	Vertically behind stone filled gabion retaining walls	m²	1		
115	Over stone percolation beds in flower boxes	m²	1		
116	Around stone filling in subsoil drain trenches	m²	1		
	<u>WEED KILLERS, INSECTICIDES, ETC</u>				
	<u>Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrisien 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m</u>				
117	Under paving etc	m²	1		
	<u>Soil insecticide in accordance with SANS 5859</u>				
118	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m²	1		
119	To bottoms and sides of trenches etc	m²	1		
Carried to Collection				R	
Section No. 3					
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Amount

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EARTHWORKS
COLLECTION

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EXCAVATIONS
SECTION SUMMARY

Bill No.

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SECTION SUMMARY

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SECTION NO. 4

CONCRETE, FORMWORK AND REINFORCEMENT

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>BILL NO. 1</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>Cost of tests</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 Tests of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests for approval . The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately) <u>Breeze concrete</u> Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (1:12); the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated <u>Lightweight concrete</u> Lightweight concrete shall have a density of 600kg/ m3 for the top 50mm and 400kg/ m3 for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 50mm <u>Formwork</u> Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described				
Carried to Collection			R	
Section No. 4				
Bill No. 1				
Concrete, Formwork And Reinforcement				

	Unit	Quantity	Rate	Amount
Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described				
Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks				
<u>LIGHTWEIGHT CONCRETE</u>				
<u>Breeze concrete</u>				
1 Grading to slabs	m ³	1		
2 Finishing smooth top surfaces of grading to falls for waterproofing including 1:8 monolithic cement plaster screed as necessary	m ²	1		
3 Finishing smooth top surfaces of grading to falls and currents for waterproofing including 1:8 monolithic cement plaster screed as necessary	m ²	1		
4 75 x 75mm Cement plaster (1:8) triangular fillets against walls etc	m	1		
<u>Lightweight concrete</u>				
5 Grading to slabs	m ³	1		
6 Finishing smooth top surfaces of grading to falls for waterproofing	m ²	1		
7 Finishing smooth top surfaces of grading to falls and currents for waterproofing	m ²	1		
8 75 x 75mm Triangular fillets against walls etc	m	1		
<u>UNREINFORCED CONCRETE CAST ON/IN FORMWORK</u>				
<u>15Mpa/19mm concrete</u>				
9 Surface blinding under surface beds	m ³	1		
10 Surface blinding under footings and bases	m ³	1		
11 Drainage columns behind retaining walls	m ³	1		
12 Strip footings	m ³	1		
13 Surface beds	m ³	1		
14 Surface beds cast in panels	m ³	1		
Carried to Collection			R	
Section No. 4				
Bill No. 1				
Concrete, Formwork And Reinforcement				

		Unit	Quantity	Rate	Amount
15	Surface beds on waterproofing	m ³	1		
16	Surface beds cast in panels on waterproofing	m ³	1		
17	Pavings	m ³	1		
18	Pavings cast in panels	m ³	1		
19	Ramps	m ³	1		
20	Bottoms and sides of floor ducts	m ³	1		
21	Machine bases	m ³	1		
22	Steps, urinal steps, cupboard platforms, etc	m ³	1		
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
<u>20Mpa/19mm concrete</u>					
23	Surface blinding under surface beds	m ³	1		
24	Surface blinding under footings and bases	m ³	1		
25	Drainage columns behind retaining walls	m ³	1		
26	Strip footings	m ³	1		
27	Surface beds	m ³	1		
28	Surface beds cast in panels	m ³	1		
29	Surface beds on waterproofing	m ³	1		
30	Surface beds cast in panels on waterproofing	m ³	1		
31	Pavings	m ³	1		
32	Pavings cast in panels	m ³	1		
33	Ramps	m ³	1		
34	Bottoms and sides of floor ducts	m ³	1		
35	Machine bases	m ³	1		
36	Steps, urinal steps, cupboard platforms, etc	m ³	1		
<u>25Mpa/19mm concrete</u>					
37	Surface blinding under surface beds	m ³	1		
38	Surface blinding under footings and bases	m ³	1		
39	Drainage columns behind retaining walls	m ³	1		
40	Strip footings	m ³	1		
Carried to Collection				R	
Section No. 4					
Bill No. 1					
Concrete, Formwork And Reinforcement					

		Unit	Quantity	Rate	Amount
41	Surface beds	m ³	1		
42	Surface beds cast in panels	m ³	1		
43	Surface beds on waterproofing	m ³	1		
44	Surface beds cast in panels on waterproofing	m ³	1		
45	Pavings	m ³	1		
46	Pavings cast in panels	m ³	1		
47	Ramps	m ³	1		
48	Bottoms and sides of floor ducts	m ³	1		
49	Machine bases	m ³	1		
50	Steps, urinal steps, cupboard platforms, etc	m ³	1		
	<u>30Mpa/19mm concrete</u>				
51	Surface blinding under surface beds	m ³	1		
52	Surface blinding under footings and bases	m ³	1		
53	Drainage columns behind retaining walls	m ³	1		
54	Strip footings	m ³	1		
55	Surface beds	m ³	1		
56	Surface beds cast in panels	m ³	1		
57	Surface beds on waterproofing	m ³	1		
58	Surface beds cast in panels on waterproofing	m ³	1		
59	Pavings	m ³	1		
60	Pavings cast in panels	m ³	1		
61	Ramps	m ³	1		
62	Bottoms and sides of floor ducts	m ³	1		
63	Machine bases	m ³	1		
64	Steps, urinal steps, cupboard platforms, etc	m ³	1		
	<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>				
	<u>25MPa/19mm concrete</u>				
65	Strip footings	m ³	1		
66	Bases	m ³	1		
	Carried to Collection			R	
	Section No. 4				
	Bill No. 1				
	Concrete, Formwork And Reinforcement				

		Unit	Quantity	Rate	Amount
67	Pile caps	m ³	1		
68	Foundation beams	m ³	1		
69	Surface beds	m ³	1		
70	Surface beds cast in panels	m ³	1		
71	Surface beds on waterproofing	m ³	1		
72	Surface beds cast in panels on waterproofing	m ³	1		
73	Pavings	m ³	1		
74	Pavings cast in panels	m ³	1		
75	Ramps	m ³	1		
76	Bottoms and sides of floor ducts	m ³	1		
77	Slabs including beams and inverted beams	m ³	1		
78	Slabs including beams and inverted beams to be post-tensioned	m ³	1		
79	Stepped slabs including beams and inverted beams	m ³	1		
80	Raking slabs including beams and inverted beams	m ³	1		
81	Coffered slabs including beams and inverted beams	m ³	1		
82	Troughed slabs including beams and inverted beams	m ³	1		
83	Composite hollow block slabs including beams and inverted beams	m ³	1		
84	Composite prefabricated beam and trough slabs including beams and inverted beams	m ³	1		
85	Hood slabs	m ³	1		
86	Vanity slabs, cupboard slabs, cover slabs, etc	m ³	1		
87	Isolated beams	m ³	1		
88	Bottoms and sides of isolated gutter beams	m ³	1		
89	Lintels	m ³	1		
90	Stairs including landings, beams and inverted beams	m ³	1		
91	Retaining walls in foundations (Provisional)	m ³	1		
92	Retaining walls	m ³	1		
93	Walls in foundations (Provisional)	m ³	1		
Carried to Collection				R	
Section No. 4					
Bill No. 1					
Concrete, Formwork And Reinforcement					

		Unit	Quantity	Rate	Amount
94	Walls	m ³	1		
95	Walls in sliding/climbing formwork	m ³	1		
96	Balustrade walls	m ³	1		
97	Columns in foundations (Provisional)	m ³	1		
98	Columns	m ³	1		
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
<u>30MPa/19mm concrete</u>					
99	Strip footings	m ³	1		
100	Bases	m ³	1		
101	Pile caps	m ³	1		
102	Foundation beams	m ³	1		
103	Surface beds	m ³	1		
104	Surface beds cast in panels	m ³	1		
105	Surface beds on waterproofing	m ³	1		
106	Surface beds cast in panels on waterproofing	m ³	1		
107	Pavings	m ³	1		
108	Pavings cast in panels	m ³	1		
109	Ramps	m ³	1		
110	Bottoms and sides of floor ducts	m ³	1		
111	Slabs including beams and inverted beams	m ³	1		
112	Slabs including beams and inverted beams to be post-tensioned	m ³	1		
113	Stepped slabs including beams and inverted beams	m ³	1		
114	Raking slabs including beams and inverted beams	m ³	1		
115	Coffered slabs including beams and inverted beams	m ³	1		
116	Troughed slabs including beams and inverted beams	m ³	1		
117	Composite hollow block slabs including beams and inverted beams	m ³	1		
118	Composite prefabricated beam and trough slabs including beams and inverted beams	m ³	1		
Carried to Collection				R	
Section No. 4					
Bill No. 1					
Concrete, Formwork And Reinforcement					

		Unit	Quantity	Rate	Amount
119	Hood slabs	m ³	1		
120	Vanity slabs, cupboard slabs, cover slabs, etc	m ³	1		
121	Isolated beams	m ³	1		
122	Bottoms and sides of isolated gutter beams	m ³	1		
123	Lintels	m ³	1		
124	Stairs including landings, beams and inverted beams	m ³	1		
125	Retaining walls in foundations (Provisional)	m ³	1		
126	Retaining walls	m ³	8		
127	Walls in foundations (Provisional)	m ³	1		
128	Walls	m ³	1		
129	Walls in sliding/climbing formwork	m ³	1		
130	Balustrade walls	m ³	1		
131	Columns in foundations (Provisional)	m ³	1		
132	Columns	m ³	1		
	<u>TEST CUBES</u>				
	<u>Test Cubes</u>				
133	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	1		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
134	Surface beds, slabs, etc	m ²	1		
135	Surface beds, slabs, etc to falls	m ²	1		
136	Surface beds, slabs, etc to falls and currents	m ²	1		
137	Pavings to falls	m ²	1		
138	Pavings to falls and currents	m ²	1		
139	Tops of beams, walls, etc	m ²	1		
140	Sloping and splayed tops of beams, walls, etc	m ²	1		
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>				
141	Surface beds, slabs, etc	m ²	1		
	Carried to Collection			R	
	Section No. 4				
	Bill No. 1				
	Concrete, Formwork And Reinforcement				

		Unit	Quantity	Rate	Amount
142	Surface beds, slabs, etc to falls	m ²	1		
143	Surface beds, slabs, etc to falls and currents	m ²	1		
144	Pavings to falls	m ²	1		
145	Pavings to falls and currents	m ²	1		
146	Tops of beams, walls, etc	m ²	1		
147	Sloping and splayed tops of beams, walls, etc	m ²	1		
	<u>Finishing top surfaces of concrete smooth with a power float</u>				
148	Surface beds, slabs, etc	m ²	1		
149	Surface beds, slabs, etc to falls	m ²	1		
150	Surface beds, slabs, etc to falls and currents	m ²	1		
151	Pavings to falls	m ²	1		
152	Pavings to falls and currents	m ²	1		
153	Tops of beams, walls, etc	m ²	1		
154	Sloping and splayed tops of beams, walls, etc	m ²	1		
	<u>Finishing top surfaces of concrete to an evenly ribbed non-slip surface</u>				
155	Surface beds, slabs, etc	m ²	1		
156	Surface beds, slabs, etc to falls	m ²	1		
157	Surface beds, slabs, etc to falls and currents	m ²	1		
158	Pavings to falls	m ²	1		
159	Pavings to falls and currents	m ²	1		
160	Tops of beams, walls, etc	m ²	1		
161	Sloping and splayed tops of beams, walls, etc	m ²	1		
	<u>Wire brushing of concrete surfaces to expose aggregate</u>				
162	Sides of walls	m ²	1		
163	Sides of columns	m ²	1		
164	Soffits of slabs	m ²	1		
165	Sides and soffits of beams	m ²	1		
	Carried to Collection			R	
	Section No. 4				
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	Concrete, Formwork And Reinforcement				

		Unit	Quantity	Rate	Amount
	<u>Grooves, channels, mortices, sinkings, etc in concrete</u>				
166	40 x 40mm Grooves in top	m	1		
167	150 x 100mm Channels in top	m	1		
168	300 x Average 80mm segmental channels in top	m	1		
169	Mortice in top, side, etc not exceeding 150mm deep	No	1		
170	80 x 80 x 150mm Sinking in top	No	1		
	<u>30 MPa non-shrink grout</u>				
171	Bedding approximately 30mm thick under 200 x 200mm steel base plate	No	1		
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>				
	<u>Rough formwork to sides</u>				
172	Strip footings (Provisional)	m ²	1		
173	Bases (Provisional)	m ²	1		
174	Pile caps (Provisional)	m ²	1		
175	Steps	m ²	1		
176	Retaining walls with total height exceeding 1,5m and not exceeding 3,5m above bearing level	m ²	1		
177	Retaining walls with total height exceeding 3,5m and not exceeding 5m above bearing level	m ²	1		
178	One face of retaining walls (other face against excavated/existing surfaces) exceeding 3,5m and not exceeding 5m high above bearing level	m ²	1		
179	Walls in foundations (Provisional)	m ²	1		
180	Walls	m ²	1		
181	Walls circular not exceeding 1m radius	m ²	1		
182	Walls with total height not exceeding 3,5m high above bearing level	m ²	1		
183	Walls with total height exceeding 3,5m and not exceeding 5m above bearing level	m ²	1		
184	Stair walls stepped over treads and risers	m ²	1		
185	Rectangular stub columns in foundations (Provisional)	m ²	1		
186	Rectangular columns in foundations (Provisional)	m ²	1		
	Carried to Collection			R	
	Section No. 4				
	Bill No. 1				
	Concrete, Formwork And Reinforcement				

		Unit	Quantity	Rate	Amount
187	Rectangular columns	m ²	1		
188	Rectangular columns with total height not exceeding 3,5m above bearing level	m ²	1		
189	Rectangular columns with total height exceeding 3,5m and not exceeding 5m above bearing level	m ²	1		
190	Rectangular columns with one face against excavated/existing surfaces	m ²	1		
191	Rectangular columns with one face against excavated/existing surfaces in foundations (Provisional)	m ²	1		
192	Inverted beams above concrete	m ²	1		
193	Inverted beams above concrete circular not exceeding 1m radius	m ²	1		
194	Wall beams	m ²	1		
195	Hood slabs	m ²	1		
196	Isolated wall beams	m ²	1		
197	Isolated wall beams circular not exceeding 1m radius	m ²	1		
198	Isolated wall beams circular exceeding 1m radius	m ²	1		
199	Edges, risers, ends and reveals exceeding 300mm high or wide	m ²	1		
200	Edges of post-tensioned slabs exceeding 300mm high	m ²	1		
201	Reveals of openings in sliding/climbing formwork exceeding 300mm wide	m ²	1		
202	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	1		
203	Retaining walls circular exceeding 1m radius	m ²	1		
204	Edges, risers, ends and reveals not exceeding 300mm high or wide circular exceeding 1m radius	m	1		
205	Sloping and stepped outer edges of stairs not exceeding 300mm high extreme	m	1		
206	Sloping and stepped outer edges of stairs	m ²	1		
	<u>Rough formwork to circular and partly circular columns</u>				
207	600mm Diameter column 3m high	No	1		
208	300mm Diameter column 3m high	No	1		
	Carried to Collection			R	
	Section No. 4				
	Bill No. 1				
	Concrete, Formwork And Reinforcement				

		Unit	Quantity	Rate	Amount
	<u>Rough formwork to soffits</u>				
209	Slabs	m ²	1		
210	Slabs propped up not exceeding 1,5m high	m ²	1		
211	Slabs propped up exceeding 1,5m and not exceeding 3m high	m ²	1		
212	Slabs propped up exceeding 3,5m and not exceeding 5m high	m ²	1		
213	Slabs with sloping soffits	m ²	1		
214	Slabs with sloping soffits propped up exceeding 1,5m and not exceeding 3,5m high	m ²	1		
215	Slabs with sloping soffits propped up exceeding 3,5m and not exceeding 5m high	m ²	1		
216	Cantilever slabs	m ²	1		
217	Cantilever slabs propped up exceeding 1,5m and not exceeding 3,5m high	m ²	1		
218	Cantilever slabs propped up exceeding 3,5m and not exceeding 5m high	m ²	1		
219	Hood slabs	m ²	1		
220	Vanity slabs, cupboard slabs, cover slabs, etc propped up not exceeding 1,5m high	m ²	1		
221	Landings	m ²	1		
222	Stairs with sloping soffits	m ²	1		
223	Wall beams over openings	m ²	1		
224	Wall beams over openings propped up not exceeding 1,5m high	m ²	1		
225	Wall beams over openings propped up exceeding 1,5m and not exceeding 3,5m high	m ²	1		
	<u>Rough formwork to sides and soffits</u>				
226	Beams	m ²	1		
227	Beams propped up not exceeding 1,5m high	m ²	1		
228	Beams propped up exceeding 1,5m and not exceeding 3,5m high	m ²	1		
229	Beams propped up exceeding 3,5m and not exceeding 5m high	m ²	1		
	Carried to Collection			R	
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	Concrete, Formwork And Reinforcement				

		Unit	Quantity	Rate	Amount
230	Isolated beams	m ²	1		
231	Isolated beams propped up exceeding 1,5m and not exceeding 3,5m high	m ²	1		
232	Isolated beams propped up exceeding 3,5m and not exceeding 5m high	m ²	1		
233	Isolated beams circular not exceeding 1m radius, propped up exceeding 3,5m and not exceeding 5m high	m ²	1		
234	Isolated beams circular exceeding 1m radius, propped up exceeding 1,5m and not exceeding 3,5m high	m ²	1		
235	Isolated gutter beams	m ²	1		
236	Isolated gutter beams propped up exceeding 1,5m and not exceeding 3,5m high	m ²	1		
237	Lintels	m ²	1		
238	Lintels propped up exceeding 1,5m and not exceeding 3m high	m ²	1		
	<u>Rough formwork to form</u>				
239	Opening not exceeding 1m girth through not exceeding 300mm slab	No	1		
240	Opening not exceeding 1m girth through 300mm slab	No	1		
241	Opening exceeding 1m and not exceeding 2m girth through 300mm slab	No	1		
242	Opening exceeding 1m and not exceeding 2m girth through 500mm slab	No	1		
243	300mm Diameter opening through 300mm slab	No	1		
244	Rebated opening not exceeding 1m girth overall through 300mm slab	No	1		
245	Rebated opening exceeding 1m and not exceeding 2m girth overall through 300mm slab	No	1		
246	Opening not exceeding 1m girth through not exceeding 300mm wall or beam	No	1		
247	Opening not exceeding 1m girth through 300mm wall or beam	No	1		
248	Opening exceeding 1m and not exceeding 2m girth through not exceeding 300mm wall or beam	No	1		
249	Opening exceeding 1m and not exceeding 2m girth through 300mm wall or beam	No	1		
	Carried to Collection			R	
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	Concrete, Formwork And Reinforcement				

		Unit	Quantity	Rate	Amount
250	300mm Diameter opening through 300mm wall or beam	No	1		
	<u>Boxing in/out rough formwork to form</u>				
251	30 x 30mm Chamfers along top or bottom edges	m	1		
252	30 x 30mm Chamfers along top or bottom edges, circular not exceeding 1m radius	m	1		
253	30 x 30mm Vertical chamfers at corners	m	1		
254	30 x 30mm Horizontal chases or grooves in sides	m	1		
255	30 x 30mm Horizontal chases or grooves in sides, circular not exceeding 1m radius	m	1		
256	30 x 30mm Vertical chases or grooves in sides	m	1		
257	30 x 30mm Raking chases or grooves in sides	m	1		
258	30 x 30mm Vertical rebates	m	1		
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II) (CPAP WORK GROUP NO. 111)</u>				
	<u>Smooth formwork to sides</u>				
259	Inverted beams	m ²	1		
260	Steps	m ²	1		
261	Beams	m ²	1		
262	Retaining walls	m ²	1		
263	Retaining walls with total height exceeding 3,5m and not exceeding 5m above bearing level	m ²	1		
264	One face of retaining walls (other face against excavated/existing surfaces)	m ²	1		
265	One face of retaining walls (other face against excavated/existing surfaces) circular exceeding 1m radius	m ²	1		
266	Walls in foundations (Provisional)	m ²	1		
267	Walls	m ²	1		
268	Walls circular not exceeding 1m radius	m ²	1		
269	Walls with total height not exceeding 3,5m above bearing level	m ²	1		
270	Walls with total height exceeding 3,5m and not exceeding 5m above bearing level	m ²	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
271	Stair walls stepped over treads and risers	m ²	1		
272	Rectangular stub columns in foundations (Provisional)	m ²	1		
273	Rectangular columns in foundations (Provisional)	m ²	1		
274	Rectangular columns	m ²	1		
275	Rectangular columns with total height not exceeding 3,5m above bearing level	m ²	1		
276	Rectangular columns with one face against excavated/existing surfaces in foundations (Provisional)	m ²	1		
277	Rectangular columns with one face against excavated/existing surfaces	m ²	1		
278	Rectangular fins	m ²	1		
279	L-shaped columns in foundations (Provisional)	m ²	1		
280	L-shaped columns	m ²	1		
281	L-shaped columns with total height not exceeding 3,5m above bearing level	m ²	1		
282	Outer sides of inverted edge beams	m ²	1		
283	Outer sides of inverted edge beams circular to not exceeding 1m radius	m ²	1		
284	Inverted beams above concrete	m ²	1		
285	Inverted beams above concrete circular not exceeding 1m radius	m ²	1		
286	Battered outer sides of inverted edge beams	m ²	1		
287	Battered sides of inverted beams above concrete	m ²	1		
288	Wall beams	m ²	1		
289	Isolated wall beams	m ²	1		
290	Isolated wall beams circular to not exceeding 1m radius	m ²	1		
291	Sides of gutter beams above concrete	m ²	1		
292	Wallholds	m ²	1		
293	Edges, risers, ends and reveals exceeding 300mm high or wide	m ²	1		
294	Edges, risers, ends and reveals exceeding 300mm high or wide circular not exceeding 1m radius	m ²	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
295	Edges of post-tensioned slabs exceeding 300mm high	m ²	1		
296	Reveals of openings in sliding/climbing formwork exceeding 300mm wide	m ²	1		
297	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	1		
298	Edges, risers, ends and reveals not exceeding 300mm high or wide circular exceeding 1m radius	m	1		
299	Edges of post-tensioned slabs not exceeding 300mm high	m	1		
300	Reveals of openings in sliding/climbing formwork not exceeding 300mm wide	m	1		
301	Sloping and stepped outer edges of stairs not exceeding 300mm high extreme	m	1		
302	Sloping and stepped outer edges of stairs 500mm high extreme	m	1		
	<u>Smooth formwork to circular and partly circular columns</u>				
303	300mm Diameter column 3m high	No	1		
304	450mm Diameter column 3m high	No	1		
305	600mm Diameter column 3m high	No	1		
	<u>Smooth formwork to soffits</u>				
306	Post-tensioned slabs	m ²	1		
307	Post-tensioned slabs propped up exceeding 3,5m and not exceeding 5,0m high	m ²	1		
308	Slabs	m ²	1		
309	Slabs propped up not exceeding 1,5m high	m ²	1		
310	Slabs propped up exceeding 1,5m and not exceeding 3,5m high	m ²	1		
311	Slabs propped up exceeding 3,5m and not exceeding 5m high	m ²	1		
312	Slabs propped up exceeding 5m and not exceeding 6,5m high	m ²	1		
313	Solid slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 1,5m and not exceeding 3,5m high	m ²	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
314	Solid slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 3,5m and not exceeding 5m high	m ²	1		
315	Solid slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 5m and not exceeding 6,5m high	m ²	1		
316	Slabs with sloping soffits propped up not exceeding 1,5m high	m ²	1		
317	Slabs with sloping soffits propped up exceeding 1,5m and not exceeding 3,5m high	m ²	1		
318	Cantilever slabs propped up not exceeding 1,5m high	m ²	1		
319	Cantilever slabs propped up exceeding 1,5m and not exceeding 3,5m high	m ²	1		
320	Cantilever slabs propped up exceeding 3,5m and not exceeding 5m high	m ²	1		
321	Hood slabs	m ²	1		
322	Cupboard slabs, cover slabs, etc	m ²	1		
323	Vanity slabs, cupboard slabs, cover slabs, etc propped up not exceeding 1,5m high	m ²	1		
324	Beams	m ²	1		
325	Landings	m ²	1		
326	Landings exceeding 250mm and not exceeding 500mm thick	m ²	1		
327	Stairs with sloping soffits	m ²	1		
328	Stairs with sloping soffits propped of stairs below	m ²	1		
	<u>Smooth formwork to coffered slabs</u>				
329	Soffits of coffered slabs with 150mm wide ribs at 900mm centres in both directions propped up not exceeding 1,5m high	m ²	1		
330	Soffits of coffered slabs with 150mm wide ribs at 900mm centres in both directions propped up exceeding 1,5m and not exceeding 3,5m high	m ²	1		
331	Soffits of coffered slabs with 150mm wide ribs at 900mm centres in both directions propped up exceeding 5m and not exceeding 6,5m high	m ²	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
332	Soffits of adjacent flush surfaces of coffered slabs exceeding 500mm and not exceeding 750mm thick	m ²	1		
	<u>Smooth formwork to sides and soffits</u>				
333	Beams	m ²	1		
334	Beams propped up not exceeding 1,5m high	m ²	1		
335	Beams propped up exceeding 1,5m and not exceeding 3,5m high	m ²	1		
336	Beams propped up exceeding 3,5m and not exceeding 5m high	m ²	1		
337	Beams circular not exceeding 1m radius, propped up exceeding 1,5m and not exceeding 3,5m high	m ²	1		
338	Beams with sloping soffits and tapering sides	m ²	1		
339	Beams with sloping soffits and tapering sides propped up not exceeding 1,5m high	m ²	1		
340	Beams with sloping soffits and tapering sides propped up exceeding 1,5m and not exceeding 3,5m high	m ²	1		
341	Isolated beams	m ²	1		
342	Isolated beams propped up not exceeding 1,5m high	m ²	1		
343	Isolated beams propped up exceeding 1,5m and not exceeding 3,5m high	m ²	1		
344	Lintels	m ²	1		
345	Lintels propped up exceeding 1,5m and not exceeding 3,5m high	m ²	1		
	<u>Smooth formwork to form</u>				
346	Opening not exceeding 1m girth through not exceeding 300mm slab	No	1		
347	Opening not exceeding 1m girth through 300mm slab	No	1		
348	Opening exceeding 1m and not exceeding 2m girth through not exceeding 300mm slab	No	1		
349	Opening exceeding 1m and not exceeding 2m girth through 300mm slab	No	1		
	<u>Boxing in smooth formwork to form</u>				
350	30 x 30mm Chamfers along top or bottom edges	m	1		
351	30 x 30mm Vertical chamfers at corners	m	1		
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		Unit	Quantity	Rate	Amount
	<u>Boxing out smooth formwork to form</u>				
352	30 x 30mm Vertical splays at internal corners	m	1		
	<u>PERMANENT FORMWORK</u>				
	<u>1,2mm galvanised steel permanent decking system to soffits</u>				
353	Decking for slabs with ends laid on brick walls	m ²	1		
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Two layers of 375 micron dampproof course (One layer of 0,6mm galvanised steel sheet) in slip joints between horizontal concrete and brick surfaces including cement mortar bed</u>				
354	Exceeding 300mm wide	m ²	1		
355	Not exceeding 300mm wide	m	1		
	<u>Expansion joints with 10mm softboard (bitumen impregnated softboard) between vertical concrete and brick surfaces</u>				
356	Not exceeding 300mm high to edges of surface beds	m	1		
	<u>Expansion joints with 10mm softboard (bitumen impregnated softboard) between vertical concrete surfaces, including necessary formwork</u>				
357	Exceeding 300mm wide through columns	m ²	1		
358	Not exceeding 300mm wide through columns	m	1		
359	Exceeding 300mm high through slabs and beams	m ²	1		
360	Not exceeding 300mm high through slabs	m	1		
	<u>Saw-cut joints</u>				
361	6 x 10mm Saw-cut joints in top of concrete	m	1		
	<u>Vertical construction joints through concrete including thick cement slurry to one face</u>				
362	Surface beds not exceeding 300mm thick	m	1		
363	Slabs not exceeding 300mm thick	m	1		
364	Slabs 300mm thick	m	1		
365	Walls not exceeding 300mm thick	m	1		
366	Walls 300mm thick	m	1		
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		Unit	Quantity	Rate	Amount
	<u>Horizontal construction joints through concrete including thick cement slurry to one face</u>				
367	Surface beds not exceeding 300mmm thick	m	1		
368	Slabs not exceeding 300mm thick	m	1		
369	Slabs 300mm thick	m	1		
370	Walls not exceeding 300mm thick	m	1		
371	Walls 300mm thick	m	1		
	<u>REINFORCEMENT</u>				
	<u>Mild steel reinforcement to structural concrete work</u>				
372	Bars of varying lengths and diameters	Tonnes	1.00		
	<u>High tensile steel reinforcement to structural concrete work</u>				
373	Bars of varying lengths and diameters	Tonnes	1.00		
	<u>High tensile steel dowel bars</u>				
374	16mm Diameter dowel bar 300mm long with one end embedded 100mm deep in side of concrete at expansion joint and other end greased and wrapped in polythene sheeting, including hole through formwork	No	1		
	<u>Fabric reinforcement</u>				
375	Type 193 fabric reinforcement in concrete surface beds etc	m ²	1		
376	Type 245 fabric reinforcement in concrete slabs etc	m ²	1		
377	Type 395 fabric reinforcement in concrete slabs, walls, etc	m ²	1		
378	Type 888 fabric reinforcement in concrete slabs, walls, etc	m ²	1		
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SECTION NO. 5
PRECAST CONCRETE

	Unit	Quantity	Rate	Amount
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<u>PRECAST CONCRETE</u>				
<u>BILL NO. 1</u>				
<u>PRECAST CONCRETE</u>				
<u>PRECAST CONCRETE</u>				
<u>Sizes</u>				
Blocks, sills, etc measured linear shall be made in suitable lengths. Large size setting out drawings shall be prepared where necessary and submitted to the principal agent for approval before moulds are made				
<u>General</u>				
Where kerbstones, blocks, etc are laid in ground descriptions shall be deemed to include necessary excavation, filling in and ramming				
<u>PRECAST CONCRETE PAVING</u>				
<u>Paving of 450 x 450 x 50mm precast concrete paving slabs with non-slip finish including bedding, jointing and pointing</u>				
1 Paving of slabs laid on 25mm thick mortar bed on concrete with butt joints	m ²	1		
2 Paving of slabs laid on 25mm thick mortar bed on concrete with butt joints, to falls	m ²	1		
3 Paving of slabs laid on 25mm thick mortar bed on concrete with 12mm wide joints flush pointed	m ²	1		
4 Paving of slabs laid on 25mm thick mortar bed on concrete with 12mm wide joints flush pointed, to falls	m ²	1		
5 Circular cutting	m	1		
6 Finished edges	m	1		
<u>Paving of 500 x 500 x 50mm precast concrete paving slabs with non-slip finish, laid on 25mm thick river sand bed including preparation of ground or filling</u>				
7 Paving of slabs laid with 12mm open joints in both directions	m ²	1		
8 Paving of slabs laid with butt joints	m ²	1		
9 Paving of slabs laid with butt joints, to falls	m ²	1		
10 Paving of slabs laid with 12mm wide joints flush pointed with class I mortar	m ²	1		
Carried to Collection			R	
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Bill No. 1				
Precast Concrete				

		Unit	Quantity	Rate	Amount
11	Paving of slabs laid with 12mm wide joints flush pointed with class 1 mortar, to falls	m ²	1		
12	Circular cutting	m	1		
13	Finished edges	m	1		
	<u>Paving of 500 x 500 x 50mm precast concrete paving slabs with wood float finish</u>				
14	Paving on waterproofing to roofs etc, of slabs laid loose with open joints on polythene bags filled with stabilised sand/cement mixture under corners and centre of slabs	m ²	1		
15	Finished edges	m	1		
16	Circular cutting	m	1		
	<u>PRECAST CONCRETE SLABS ETC</u>				
	<u>Precast concrete left rough from the mould including bedding, jointing and pointing</u>				
17	1000 x 50mm Thick duct cover slabs in suitable lengths, closely butted at ends including bedding edges along both sides	m	1		
18	1000 x 50mm Thick seat slabs in 1000mm lengths closely butted at ends including bedding edges at ends and along one side	m	1		
19	1000 x 50mm Thick counter slabs in 1000mm lengths closely butted at ends including bedding edges at ends and along one side (reinforcement elsewhere)	m	1		
20	12mm Diameter hole through 50mm thick unit	No	1		
21	20 x 20mm Hole through 50mm thick unit	No	1		
	<u>PRECAST CONCRETE COPINGS, SILLS, ETC</u>				
	<u>Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing</u>				
22	300 x 100mm Thick overall copings weathered on top to 60mm thick along one edge, with drip groove in bottom along one edge, (LG Green code CCB2)	m	1		
23	300 x 85mm Thick overall copings twice weathered on top to 60mm thick along both edges, with drip groove in bottom along both edges, (LG Green code CCB1)	m	1		
24	Extra over for fair returned stopped end block	No	1		
25	Extra over for mitred angle block	No	1		
	Carried to Collection			R	
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	Precast Concrete				

		Unit	Quantity	Rate	Amount
26	225 x 90mm Thick overall window sills weathered on top for a width of 130mm to 40mm thick along front edge, with drip groove in bottom, (LG Green code C2)	m	1		
27	245 x 100mm Thick overall window sills weathered on top for a width of 120mm to 40mm thick along front edge, with drip groove in bottom, (LG Green code C1)	m	1		
28	245 x 135mm Thick overall window sills weathered on top for a width of 140mm to 50mm thick along front edge, with drip groove in bottom, (LG Green code C3)	m	1		
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SECTION NO. 6
MASONRY

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 6</u> <u>MASONRY</u> <u>BILL NO. 1</u> <u>MASONRY</u> <u>BRICKWORK</u> <u>Sizes in descriptions</u> Where sizes in descriptions are given in brick units, one brick shall represent the length and half brick the width of a brick <u>Bagged and sealed walls</u> Walls in two skins described as bagged and sealed shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating <u>Face bricks</u> Bricks shall be ordered timeously to obtain uniformity in size and colour <u>Pointing</u> Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc <u>BLOCKWORK</u> <u>Concrete masonry units</u> Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7MPa <u>Wall ties for blockwork</u> Wall ties shall be polypropylene ties complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other <u>Blockwork</u> Blockwork shall comply with SA N S 1 0145 Concrete Masonry Construction				
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	Unit	Quantity	Rate	Amount
Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole <u>Standard complementary blocks</u> Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary <u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u> <u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>				
1	Mass brickwork	m ³	1	
2	Rectangular shaped piers	m ³	1	
3	L-shaped piers	m ³	1	
4	H-shaped piers	m ³	1	
5	Irregular shaped piers	m ³	1	
6	70mm Cut linings to concrete, including wire wall ties	m ²	1	
7	70mm Cut linings to concrete, circular on plan, including wire wall ties	m ²	1	
8	Brick-on-edge walls	m ²	1	
9	Half brick walls	m ²	1	
10	Half brick walls circular on plan	m ²	1	
11	Half brick walls in hollow columns	m ²	1	
12	Half brick walls against existing surfaces	m ²	1	
13	Half brick walls against waterproofing	m ²	1	
14	Half brick walls against waterproofing, circular on plan	m ²	1	
15	Half brick walls in beam filling	m ²	1	
16	Half brick walls in beam filling, circular on plan	m ²	1	
17	Half brick linings tied to concrete	m ²	1	
18	Half brick linings tied to concrete, circular on plan	m ²	1	
19	Half brick linings tied to concrete, including wire wall ties	m ²	1	
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		Unit	Quantity	Rate	Amount
20	Half brick linings tied to concrete, including wire wall ties, circular on plan	m ²	1		
21	Half brick linings 70mm away from and tied to concrete, including wire wall ties	m ²	1		
22	Half brick linings 70mm away from and tied to concrete, including wire wall ties, circular on plan	m ²	1		
23	One brick walls	m ²	1		
24	One brick walls circular on plan	m ²	1		
25	One brick walls in hollow columns	m ²	1		
26	One brick walls against existing surfaces	m ²	1		
27	One brick walls in beam filling	m ²	1		
28	One brick walls in beam filling, circular on plan	m ²	1		
29	One brick walls of two half brick skins with inner skin bagged and sealed	m ²	1		
30	270mm Hollow walls of two half brick skins (no ties)	m ²	1		
31	270mm Hollow walls of two half brick skins	m ²	1		
32	270mm Hollow walls of two half brick skins, circular on plan	m ²	1		
33	270mm Hollow walls of two half brick skins, including butterfly wall ties	m ²	1		
34	270mm Hollow walls of two half brick skins, including butterfly wall ties, circular on plan	m ²	1		
35	One and a half brick walls	m ²	1		
36	One and a half brick walls circular on plan	m ²	1		
37	390mm Hollow walls of one half brick and one one brick skins	m ²	1		
38	390mm Hollow walls of one half brick and one one brick skins , circular on plan	m ²	1		
39	390mm Hollow walls of one half brick and one one brick skins, including butterfly wall ties	m ²	1		
40	390mm Hollow walls of one half brick and one one brick skins, including wire wall ties, circular on plan	m ²	1		
41	Two brick walls	m ²	1		
42	Two brick walls circular on plan	m ²	1		
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		Unit	Quantity	Rate	Amount
43	Half brick kerbs 150mm high	m	1		
44	Half brick kerbs 150mm high, circular on plan	m	1		
45	One brick kerbs 150mm high	m	1		
46	One brick kerbs 150mm high, circular on plan	m	1		
47	230mm brick x 230mm brick piers	m ³	1		
<u>BRICKWORK IN SUPERSTRUCTURE</u>					
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>					
48	Mass brickwork	m ³	1		
49	Rectangular shaped piers	m ³	1		
50	L-shaped piers	m ³	1		
51	H-shaped piers	m ³	1		
52	Irregular shaped piers	m ³	1		
53	70mm Cut linings to concrete, including wire wall ties	m ²	1		
54	70mm Cut linings to concrete, circular on plan, including wire wall ties	m ²	1		
55	Brick-on-edge walls	m ²	1		
56	Half brick walls	m ²	1		
57	Half brick walls circular on plan	m ²	1		
58	Half brick walls in hollow columns	m ²	1		
59	Half brick walls against existing surfaces	m ²	1		
60	Half brick walls against waterproofing	m ²	1		
61	Half brick walls against waterproofing, circular on plan	m ²	1		
62	Half brick walls in beam filling	m ²	1		
63	Half brick walls in beam filling, circular on plan	m ²	1		
64	Half brick linings tied to concrete	m ²	1		
65	Half brick linings tied to concrete, circular on plan	m ²	1		
66	Half brick linings tied to concrete, including wire wall ties	m ²	1		
67	Half brick linings tied to concrete, including wire wall ties, circular on plan	m ²	1		
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		Unit	Quantity	Rate	Amount
68	Half brick linings 70mm away from and tied to concrete, including wire wall ties	m ²	1		
69	Half brick linings 70mm away from and tied to concrete, including wire wall ties, circular on plan	m ²	1		
70	One brick walls	m ²	1		
71	One brick walls circular on plan	m ²	1		
72	One brick walls in hollow columns	m ²	1		
73	One brick walls against existing surfaces	m ²	1		
74	One brick walls in beam filling	m ²	1		
75	One brick walls in beam filling, circular on plan	m ²	1		
76	One brick walls of two half brick skins with inner skin bagged and sealed	m ²	1		
77	270mm Hollow walls of two half brick skins (no ties)	m ²	1		
78	270mm Hollow walls of two half brick skins	m ²	1		
79	270mm Hollow walls of two half brick skins, circular on plan	m ²	1		
80	270mm Hollow walls of two half brick skins, including butterfly wall ties	m ²	1		
81	270mm Hollow walls of two half brick skins, including butterfly wall ties, circular on plan	m ²	1		
82	One and a half brick walls	m ²	1		
83	One and a half brick walls circular on plan	m ²	1		
84	390mm Hollow walls of one half brick and one one brick skins	m ²	1		
85	390mm Hollow walls of one half brick and one one brick skins , circular on plan	m ²	1		
86	390mm Hollow walls of one half brick and one one brick skins, including butterfly wall ties	m ²	1		
87	390mm Hollow walls of one half brick and one one brick skins, including wire wall ties, circular on plan	m ²	1		
88	Two brick walls	m ²	1		
89	Two brick walls circular on plan	m ²	1		
90	Half brick kerbs 150mm high	m	1		
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		Unit	Quantity	Rate	Amount
91	Half brick kerbs 150mm high, circular on plan	m	1		
92	One brick kerbs 150mm high	m	1		
93	One brick kerbs 150mm high, circular on plan	m	1		
94	230mm brick x 230mm brick piers	m ³	1		
	<u>Brickwork of NFP bricks in class II mortar</u>				
95	Mass brickwork	m ³	1		
96	Rectangular shaped piers	m ³	1		
97	L-shaped piers	m ³	1		
98	H-shaped piers	m ³	1		
99	Irregular shaped piers	m ³	1		
100	70mm Cut linings to concrete, including wire wall ties	m ²	1		
101	70mm Cut linings to concrete, circular on plan, including wire wall ties	m ²	1		
102	Brick-on-edge walls	m ²	1		
103	Half brick walls	m ²	1		
104	Half brick walls circular on plan	m ²	1		
105	Half brick walls in hollow columns	m ²	1		
106	Half brick walls against existing surfaces	m ²	1		
107	Half brick walls against waterproofing	m ²	1		
108	Half brick walls against waterproofing, circular on plan	m ²	1		
109	Half brick walls in beam filling	m ²	1		
110	Half brick walls in beam filling, circular on plan	m ²	1		
111	Half brick linings tied to concrete	m ²	1		
112	One brick walls	m ²	1		
113	One brick walls circular on plan	m ²	1		
114	One brick walls in hollow columns	m ²	1		
115	One brick walls against existing surfaces	m ²	1		
116	One brick walls in beam filling	m ²	1		
117	One brick walls in beam filling, circular on plan	m ²	1		
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		Unit	Quantity	Rate	Amount
118	One brick walls of two half brick skins with inner skin bagged and sealed	m ²	1		
119	270mm Hollow walls of two half brick skins (no ties)	m ²	1		
120	270mm Hollow walls of two half brick skins	m ²	1		
121	270mm Hollow walls of two half brick skins, circular on plan	m ²	1		
122	270mm Hollow walls of two half brick skins, including butterfly wall ties	m ²	1		
123	270mm Hollow walls of two half brick skins, including butterfly wall ties, circular on plan	m ²	1		
124	One and a half brick walls	m ²	1		
125	One and a half brick walls circular on plan	m ²	1		
126	390mm Hollow walls of one half brick and one one brick skins	m ²	1		
127	390mm Hollow walls of one half brick and one one brick skins , circular on plan	m ²	1		
128	390mm Hollow walls of one half brick and one one brick skins, including butterfly wall ties	m ²	1		
129	390mm Hollow walls of one half brick and one one brick skins, including butterfly wall ties, circular on plan	m ²	1		
130	Two brick walls	m ²	1		
131	Two brick walls circular on plan	m ²	1		
132	Half brick kerbs 150mm high	m	1		
133	Half brick kerbs 150mm high, circular on plan	m	1		
134	One brick kerbs 150mm high	m	1		
135	One brick kerbs 150mm high, circular on plan	m	1		
136	230mm brick x 230mm brick piers	m	1		
<u>BLOCKWORK IN SUPERSTRUCTURE</u>					
<u>Blockwork in approved concrete masonry blocks (7 Mpa) to SABS 1215 in cement mortar:</u>					
137	90mm Block walls	m ²	1		
138	230mm Thick hollow wall formed of two 90mm skins	m ²	1		
139	190mm Block walls	m ²	1		
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		Unit	Quantity	Rate	Amount
140	90mm Walls in hollow columns	m ²	1		
141	90mm Walls against existing surfaces	m ²	1		
142	90mm Walls against waterproofing	m ²	1		
143	90mm Walls against waterproofing, circular on plan	m ²	1		
144	90mm Walls in beam filling	m ²	1		
145	90mm Walls in beam filling, circular on plan	m ²	1		
146	90mm Walls linings tied to concrete	m ²	1		
147	90mm Walls linings tied to concrete, circular on plan	m ²	1		
148	90mm Walls linings tied to concrete, including wall ties	m ²	1		
149	90mm Walls linings tied to concrete, including wall ties, circular on plan	m ²	1		
150	One brick walls	m ²	1		
151	190mm Block walls circular on plan	m ²	1		
152	190mm Block walls in hollow columns	m ²	1		
153	190mm Block walls against existing surfaces	m ²	1		
154	190mm Block walls in beam filling	m ²	1		
155	190mm Block walls in beam filling, circular on plan	m ²	1		
156	230mm Block walls of two 90mm skins with inner skin bagged and sealed	m ²	1		
	<u>Brickwork of calcium silicate bricks in class II mortar</u>				
157	Mass brickwork	m ³	1		
158	Rectangular shaped piers	m ³	1		
159	L-shaped piers	m ³	1		
160	H-shaped piers	m ³	1		
161	Irregular shaped piers	m ³	1		
162	90mm Cut linings to concrete, including wall ties	m ²	1		
163	90mm Cut linings to concrete, circular on plan, including wall ties	m ²	1		
164	Brick-on-edge walls	m ²	1		
165	Half brick walls	m ²	1		
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		Unit	Quantity	Rate	Amount
166	Half brick walls circular on plan	m ²	1		
167	Half brick walls in hollow columns	m ²	1		
168	Half brick walls against existing surfaces	m ²	1		
169	Half brick walls against waterproofing	m ²	1		
170	Half brick walls against waterproofing, circular on plan	m ²	1		
171	Half brick walls in beam filling	m ²	1		
172	Half brick walls in beam filling, circular on plan	m ²	1		
173	Half brick linings tied to concrete	m ²	1		
174	Half brick linings tied to concrete, circular on plan	m ²	1		
175	Half brick linings ?mm away from and tied to concrete, circular on plan	m ²	1		
176	Half brick linings tied to concrete, including wall ties	m ²	1		
177	Half brick linings tied to concrete, including wall ties, circular on plan	m ²	1		
178	One brick walls	m ²	1		
179	One brick walls circular on plan	m ²	1		
180	One brick walls in hollow columns	m ²	1		
181	One brick walls against existing surfaces	m ²	1		
182	One brick walls in beam filling	m ²	1		
183	One brick walls in beam filling, circular on plan	m ²	1		
184	One brick walls of two half brick skins with inner skin bagged and sealed	m ²	1		
185	270mm Hollow walls of two half brick skins (no ties)	m ²	1		
186	270mm Hollow walls of two half brick skins	m ²	1		
187	270mm Hollow walls of two half brick skins, circular on plan	m ²	1		
188	270mm Hollow walls of two half brick skins, including wall ties	m ²	1		
189	270mm Hollow walls of two half brick skins, including wall ties, circular on plan	m ²	1		
190	One and a half brick walls	m ²	1		
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		Unit	Quantity	Rate	Amount
191	One and a half brick walls circular on plan	m ²	1		
192	270mm Hollow walls of one half brick and one one brick skins	m ²	1		
193	270mm Hollow walls of one half brick and one one brick skins , circular on plan	m ²	1		
194	270mm Hollow walls of one half brick and one one brick skins, including wall ties	m ²	1		
195	270mm Hollow walls of one half brick and one one brick skins, including wall ties, circular on plan	m ²	1		
196	Two brick walls	m ²	1		
197	Two brick walls circular on plan	m ²	1		
198	Half brick kerbs 150mm high	m	1		
199	Half brick kerbs 150mm high, circular on plan	m	1		
200	One brick kerbs 150mm high	m	1		
201	One brick kerbs 150mm high, circular on plan	m	1		
202	Horizontal projecting bands two courses high x 30mm projection	m	1		
	<u>Brickwork of NFX bricks in class 1 mortar in lintels</u>				
203	Half brick walls	m ²	1		
204	One brick walls	m ²	1		
205	One and a half brick walls	m ²	1		
206	Two brick walls	m ²	1		
	<u>Brickwork Sundries</u>				
207	Forming toothings and bonding new brickwork to existing	m ²	1		
208	Raking out joints of existing face brickwork to receive plaster finish	m ²	1		
209	Hacking existing face brickwork to receive plaster finish	m ²	1		
210	Hacking existing face brickwork and raking out joints to receive plaster finish	m ²	1		
211	Splayed mortar fillets one course high in 40mm cavities	m	1		
212	Splayed mortar fillets two courses high in 40mm cavities	m	1		
213	Closing 40mm cavities of hollow walls vertically with brickwork half brick wide	m	1		
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		Unit	Quantity	Rate	Amount
214	Closing 40mm cavities of hollow walls horizontally with two courses of brickwork	m	1		
215	Closing 40mm cavities at raking tops of hollow walls with two courses of brickwork	m	1		
	<u>Fair face to brickwork of selected building bricks in horizontal stretcher bond pointed with flush horizontal and vertical joints</u>				
216	Extra over for fair face	m ²	1		
217	Half brick walls built fair and pointed on both sides	m ²	1		
	<u>Fair face to brickwork of selected building bricks in horizontal stretcher bond, pointed with recessed horizontal and flush vertical joints</u>				
218	Extra over for fair face	m ²	1		
219	Half brick walls built fair and pointed on both sides	m ²	1		
	<u>Fair face to brickwork of selected building bricks in horizontal stretcher bond, pointed with recessed horizontal and vertical joints</u>				
220	Half brick walls built fair and pointed on both sides	m ²	1		
	<u>Bagging of 1:3 cement and sand mixture</u>				
221	On brick walls, piers, etc	m ²	1		
222	On concrete walls, columns, etc including removing ridges , irregularities, etc	m ²	1		
223	On concrete ceilings, beams, etc including removing ridges , irregularities, etc	m ²	1		
	<u>Cement wash of 1:3 liquid cement and sand mixture applied with a brush</u>				
224	On brick walls, piers, etc	m ²	1		
225	On concrete walls, columns, etc including removing ridges , irregularities, etc	m ²	1		
226	On concrete ceilings, beams, etc including removing ridges , irregularities, etc	m ²	1		
	<u>Joint forming material in movement joints</u>				
227	12mm Fibre board built in vertically between brick skins	m ²	1		
228	12mm Fibre board built in vertically through brick walls	m ²	1		
229	12mm Bitumen impregnated fibre board built in vertically between brick skins	m ²	1		
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		Unit	Quantity	Rate	Amount
230	12mm Bitumen impregnated fibre board built in vertically through brick walls	m ²	1		
231	12mm Expanded polystyrene (density 33kg per m3) built in vertically between brick skins	m ²	1		
232	12mm Expanded polystyrene (density 33kg per m3) 230mm wide with one tear-off strip, built in vertically through brick walls	m	1		
	<u>Steel bar reinforcement</u>				
233	10mm Diameter mild steel bars built in horizontally	Tonnes	1.00		
234	12mm Diameter high tensile steel bars built in horizontally	Tonnes	1.00		
	<u>2,5mm Brickwork reinforcement</u>				
235	75mm Wide reinforcement built in horizontally	m	1		
236	150mm Wide reinforcement built in horizontally, circular on plan	m	1		
	<u>2,5mm Galvanised brick reinforcement</u>				
237	75mm Wide reinforcement built in horizontally	m	1		
238	150mm Wide reinforcement built in horizontally, circular on plan	m	1		
	<u>Prestressed fabricated concrete lintels including necessary temporary supports</u>				
239	110 x 75mm Lintels in lengths not exceeding 3m	m	1		
240	110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	1		
241	110 x 75mm Lintels in lengths exceeding 4,5m and not exceeding 6m	m	1		
	<u>Turning pieces to lintels etc</u>				
242	220mm Wide turning pieces	m	1		
	<u>Galvanised wire ties etc</u>				
243	4mm Diameter roof tie 2m girth bent double, with one end built into brickwork and other end fixed to timber	No	1		
244	4mm Diameter roof tie 2m girth bent double, with one end cast into concrete and other end fixed to timber	No	1		
	<u>Galvanised hoop iron cramps, ties, etc</u>				
245	40 x 1,6mm Wall tie strips shot pinned to concrete and with ties bent out and built into brickwork	m	1		
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		Unit	Quantity	Rate	Amount
246	30 x 1,6mm Cramp 500mm long with one end fixed to timber and other end built into brickwork	No	1		
247	30 x 1,6mm Wall tie 500mm long with one end cast into concrete and other end built into brickwork	No	1		
248	30 x 1,6mm Wall tie 500mm long with one end shot pinned to concrete and other end built into brickwork	No	1		
249	30 x 1,6mm Roof tie 1,5m long with one end built into brickwork and other end fixed to timber	No	1		
250	30 x 1,6mm Roof tie 1,5m long with one end cast into concrete and other end fixed to timber	No	1		
251	30 x 1,6mm Ceiling hanger 1m long with one end shot pinned to concrete and other end fixed to timber	No	1		
	<u>Air bricks etc</u>				
252	229 x 76mm Clay vermin proof air brick	No	1		
253	229 x 152mm Clay vermin proof air brick	No	1		
254	Set of 8 x 229 x 152mm clay vermin proof air bricks	No	1		
255	233 x 175mm Foam plastic air vent	No	1		
256	262 x 185mm Fibrous plaster air vent	No	1		
	<u>Brickwork of Cape Brick 7MPa Hollow Maxi recycled concrete brick (Code: HOLLOWMAXI7MPA), overall size 220mm x 90 x 115mm high with 47mm diameter holes, manufactured in accordance with SANS 1215:2008, laid in Class II mortar with 10mm joints in accordance with SANS 10145, SANS 10400 and the current edition of CMA Concrete Masonry Manuals.</u>				
257	Mass brickwork	m ³	1		
258	Rectangular shaped piers	m ³	1		
259	L-shaped piers	m ³	1		
260	H-shaped piers	m ³	1		
261	Irregular shaped piers	m ³	1		
262	Brick-on-edge walls	m ²	1		
263	Half brick walls	m ²	1		
264	Half brick walls circular on plan	m ²	1		
265	Half brick walls in hollow columns	m ²	1		
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		Unit	Quantity	Rate	Amount
266	Half brick walls against existing surfaces	m ²	1		
267	Half brick walls against waterproofing	m ²	1		
268	Half brick walls against waterproofing, circular on plan	m ²	1		
269	Half brick walls in beam filling	m ²	1		
270	Half brick walls in beam filling, circular on plan	m ²	1		
271	Half brick linings tied to concrete	m ²	1		
272	Half brick linings tied to concrete, circular on plan	m ²	1		
273	Half brick linings tied to concrete, including wall ties	m ²	1		
274	Half brick linings tied to concrete, including wall ties, circular on plan	m ²	1		
275	One brick walls	m ²	1		
276	One brick walls circular on plan	m ²	1		
277	One brick walls in hollow columns	m ²	1		
278	One brick walls against existing surfaces	m ²	1		
279	One brick walls in beam filling	m ²	1		
280	One brick walls in beam filling, circular on plan	m ²	1		
281	One brick walls of two half brick skins with inner skin bagged and sealed	m ²	1		
282	270mm Hollow walls of two half brick skins (no ties)	m ²	1		
283	270mm Hollow walls of two half brick skins	m ²	1		
284	270mm Hollow walls of two half brick skins, circular on plan	m ²	1		
285	270mm Hollow walls of two half brick skins, including wall ties	m ²	1		
286	270mm Hollow walls of two half brick skins, including wall ties, circular on plan	m ²	1		
287	One and a half brick walls	m ²	1		
288	One and a half brick walls circular on plan	m ²	1		
289	Two brick walls	m ²	1		
290	Two brick walls circular on plan	m ²	1		
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	Unit	Quantity	Rate	Amount
<u>Fair face to brickwork of selected building bricks in horizontal stretcher bond pointed with flush horizontal and vertical joints</u>				
291	m ²	1		
292	m ²	1		
<u>Fair face to brickwork of selected building bricks in horizontal stretcher bond, pointed with recessed horizontal and flush vertical joints</u>				
293	m ²	1		
294	m ²	1		
<u>Fair face to brickwork of selected building bricks in horizontal stretcher bond, pointed with recessed horizontal and vertical joints</u>				
295	m ²	1		
<u>FACE BRICKWORK</u>				
<u>"Corobrik Bergendal Blend Satin FBS" face bricks pointed with recessed horizontal and vertical joints</u>				
296	m ²	1		
297	m ²	1		
298	m ²	1		
299	m ²	1		
300	m ²	1		
301	m ²	1		
302	m ²	1		
303	m ²	1		
304	m ²	1		
305	m ²	1		
306	m ²	1		
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		Unit	Quantity	Rate	Amount
307	90mm Cut linings to concrete, including wall ties	m ²	1		
308	90mm Cut linings to concrete, circular on plan to exceeding 2m radius , including wall ties	m ²	1		
309	90mm Cut linings to concrete, circular on plan to not exceeding 2m radius , including wall ties	m ²	1		
310	Half brick walls pointed on both sides	m ²	1		
311	One brick walls in English bond pointed on both sides	m ²	1		
312	Extra over brickwork for brick-on-flat header course bands one course high	m	1		
313	Extra over brickwork for brick-on-edge header course bands two courses high	m	1		
314	Extra over brickwork for brick-on-end soldier course bands one course high	m	1		
315	Extra over brickwork for brick-on-edge header course lintels one course high, pointed on face and 230mm soffit	m	1		
316	Extra over brickwork for brick-on-end soldier course lintels two courses high, pointed on face and 230mm soffit	m	1		
317	Fair raking cutting	m	1		
318	Fair splay cutting	m	1		
319	Fair stepped cutting and fitting over treads and risers	m	1		
320	Fair circular cutting	m	1		
321	Fair cutting at squint quoins or birdsmouth angles	m	1		
322	Cutting toothings and bonding new face brickwork to existing	m	1		
323	Fair cutting and fitting around pipe not exceeding 100mm external diameter	No	1		
324	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm external diameter	No	1		
	<u>"Corobrik Firelight Satin FBX" face bricks pointed with recessed horizontal and flush vertical joints</u>				
325	Extra over brickwork in foundations for face brickwork (Provisional)	m ²	1		
326	Extra over brickwork for face brickwork	m ²	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
327	Extra over brickwork to beamfilling for face brickwork	m ²	1		
328	Extra over brickwork in NFX bricks for face brickwork	m ²	1		
329	Extra over brickwork for face brickwork , circular on plan to exceeding 2m radius.	m ²	1		
330	Extra over brickwork for face brickwork , circular on plan to not exceeding 2m radius	m ²	1		
331	Extra over brickwork for face brickwork in header courses, circular on plan to not exceeding 2m radius	m ²	1		
332	Extra over brickwork for face brickwork in soldier courses	m ²	1		
333	Extra over brickwork for face brickwork in soldier courses , circular on plan to exceeding 2m radius	m ²	1		
334	Extra over brickwork for face brickwork in soldier courses , circular on plan to not exceeding 2m radius	m ²	1		
335	Extra over brickwork to piers and pilasters for face brickwork	m ²	1		
336	90mm Cut linings to concrete, including wall ties	m ²	1		
337	90mm Cut linings to concrete , circular on plan to exceeding 2m r adius , including wall ties	m ²	1		
338	90mm Cut linings to concrete , circular on plan to not exceeding 2m radius , including wall ties	m ²	1		
339	Half brick walls pointed on both sides	m ²	1		
340	One brick walls in English bond pointed on both sides	m ²	1		
341	Extra over brickwork for brick-on-flat header course bands one course high	m	1		
342	Extra over brickwork for brick-on-edge header course bands two courses high	m	1		
343	Extra over brickwork for brick-on-end soldier course bands one course high	m	1		
344	Extra over brickwork for brick-on-edge header course lintels one course high , pointed on face and 230mm soffit	m	1		
345	Extra over brickwork for brick-on-end soldier course lintels two courses high , pointed on face and 230mm soffit	m	1		
346	Fair raking cutting	m	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
347	Fair splay cutting	m	1		
348	Fair stepped cutting and fitting over treads and risers	m	1		
349	Fair circular cutting	m	1		
350	Fair cutting at squint quoins or birdsmouth angles	m	1		
351	Cutting toothings and bonding new face brickwork to existing	m	1		
352	Fair cutting and fitting around pipe not exceeding 100mm external diameter	No	1		
353	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm external diameter	No	1		
	<u>"Corobrik Roan Travertine FBX" face bricks pointed with recessed horizontal and vertical joints</u>				
354	Extra over brickwork in foundations for face brickwork (Provisional)	m ²	1		
355	Extra over brickwork for face brickwork	m ²	1		
	<u>"Corobrik Roan Satin FBX" face bricks pointed with recessed horizontal and vertical joints</u>				
356	Extra over brickwork in foundations for face brickwork (Provisional)	m ²	1		
357	Extra over brickwork for face brickwork	m ²	1		
358	Extra over brickwork to beamfilling for face brickwork	m ²	1		
359	Extra over brickwork in NFX bricks for face brickwork	m ²	1		
360	Extra over brickwork for face brickwork , circular on plan to exceeding 2m radius.	m ²	1		
361	Extra over brickwork for face brickwork , circular on plan to not exceeding 2m radius	m ²	1		
362	Extra over brickwork for face brickwork in header courses, circular on plan to not exceeding 2m radius	m ²	1		
363	Extra over brickwork for face brickwork in soldier courses	m ²	1		
364	Extra over brickwork for face brickwork in soldier courses , circular on plan to exceeding 2m radius	m ²	1		
365	Extra over brickwork for face brickwork in soldier courses , circular on plan to not exceeding 2m radius	m ²	1		
	Carried to Collection			R	
	Section No. 6				
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	Masonry				

		Unit	Quantity	Rate	Amount
366	Extra over brickwork to piers and pilasters for face brickwork	m ²	1		
367	90mm Cut linings to concrete, including wall ties	m ²	1		
368	90mm Cut linings to concrete , circular on plan to exceeding 2m radius , including wall ties	m ²	1		
369	90mm Cut linings to concrete , circular on plan to not exceeding 2m radius , including wall ties	m ²	1		
370	Half brick walls pointed on both sides	m ²	1		
371	One brick walls in English bond pointed on both sides	m ²	1		
372	Extra over brickwork for brick-on-flat header course bands one course high	m	1		
373	Extra over brickwork for brick-on-edge header course bands two courses high	m	1		
374	Extra over brickwork for brick-on-end soldier course bands one course high	m	1		
375	Extra over brickwork for brick-on-edge header course lintels one course high , pointed on face and 230mm soffit	m	1		
376	Extra over brickwork for brick-on-end soldier course lintels two courses high, pointed on face and 230mm soffit	m	1		
377	Fair raking cutting	m	1		
378	Fair splay cutting	m	1		
379	Fair stepped cutting and fitting over treads and risers	m	1		
380	Fair circular cutting	m	1		
381	Fair cutting at squint quoins or birdsmouth angles	m	1		
382	Cutting toothings and bonding new face brickwork to existing	m	1		
383	Fair cutting and fitting around pipe not exceeding 100mm external diameter	No	1		
384	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm external diameter	No	1		
	<u>Brick-on-edge header course copings, sills, etc of "Bergendal Blend Satin FBS" face bricks, pointed with recessed joints on all exposed faces</u>				
385	230mm Wide sills set level and slightly projecting	m	1		
	Carried to Collection			R	
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	Masonry				

		Unit	Quantity	Rate	Amount
386	230mm Wide sills set sloping and slightly projecting	m	1		
	<u>Brick-on-edge header course copings, sills, etc of "Corobrik Firelight Satin FBX" face bricks, pointed with recessed joints on all exposed faces</u>				
387	230mm Wide sills set level and slightly projecting	m	1		
388	230mm Wide sills set sloping and slightly projecting	m	1		
	<u>Brick-on-edge header course copings, sills, etc of "Corobrik Roan Travertine FBX" face bricks, pointed with recessed joints on all exposed faces</u>				
389	230mm Wide sills set level and slightly projecting	m	1		
390	230mm Wide sills set sloping and slightly projecting	m	1		
	<u>Brick-on-edge header course copings, sills, etc of "Corobrik Roan Satin FBX" face bricks, pointed with recessed joints on all exposed faces</u>				
391	110mm Copings on top of half brick walls	m	1		
392	220mm Copings on top of one brick walls	m	1		
393	330mm Copings on top of one - and - a - half brick walls	m	1		
394	220mm Copings on raking tops of 220 brick walls	m	1		
395	220mm Copings on tops of 220mm brick walls, circular on plan to exceeding 2m radius	m	1		
396	220mm Copings to tops of 220mm Brick walls, circular on plan to not exceeding 2m radius	m	1		
397	230mm Wide sills set level and slightly projecting	m	1		
398	230mm Wide sills set sloping and slightly projecting	m	1		
	<u>BLOCKWORK IN FOUNDATIONS</u>				
	<u>Blockwork in class 2 mortar</u>				
399	90mm Walls	m ²	1		
400	190mm Walls	m ²	1		
401	90mm Walls circular on plan	m ²	1		
402	190mm Walls circular on plan	m ²	1		
403	90mm Walls against waterproofing	m ²	1		
404	190mm Walls against waterproofing	m ²	1		
405	90mm Walls in beamfilling	m ²	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
406	190mm Walls in beamfilling	m ²	1		
407	90mm Linings against concrete , including wall ties	m ²	1		
408	190mm Linings against concrete , including wall ties	m ²	1		
409	90mm Linings 50mm away from concrete , including wall ties	m ²	1		
410	190mm Linings 50mm away from concrete , including wall ties	m ²	1		
411	90mm Walls with blocks threaded over vertical reinforcement	m ²	1		
412	190mm Walls with blocks threaded over vertical reinforcement	m ²	1		
413	190mm Lintels one course high of 390 x 190 x 190mm U-blocks	m	1		
414	190mm Lintels one course high of 390 x 190 x 190mm U-blocks filled solid with 20MPa/10mm concrete (reinforcement elsewhere)	m	1		
415	190mm Copings one course high of 390 x 190 x 190mm inverted U-blocks	m	1		
	<u>Blockwork in class 1 mortar with cores filled solid with mortar</u>				
416	90mm Walls	m ²	1		
417	190mm Walls	m ²	1		
418	90mm Walls circular on plan	m ²	1		
419	190mm Walls circular on plan	m ²	1		
420	90mm Walls against waterproofing	m ²	1		
421	190mm Walls against waterproofing	m ²	1		
422	90mm Walls in beamfilling	m ²	1		
423	190mm Walls in beamfilling	m ²	1		
424	90mm Linings against concrete , including wall ties	m ²	1		
425	190mm Linings against concrete , including wall ties	m ²	1		
426	90mm Linings 50mm away from concrete , including wall ties	m ²	1		
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		Unit	Quantity	Rate	Amount
<u>FACE BLOCKWORK</u>					
<u>390 x 190 x 190mm "Precast Cement Products Splitface Red" face blocks in class II mortar, pointed with recessed horizontal and vertical joints:</u>					
439	Extra over 190mm skin of blockwork for face blockwork	m ²	1		
440	190mm Block walls pointed on both sides	m ²	1		
441	190mm Block walls pointed on both sides, circular on plan to exceeding 2m radius	m ²	1		
442	190mm Block walls pointed on both sides, circular on plan to not exceeding 2m radius	m ²	1		
443	150mm Cut block linings to concrete	m ²	1		
444	190mm Lintels one course high of 390 x 190 x 190mm U-blocks pointed on soffit and one side	m	1		
445	190mm Lintels one course high of 390 x 190 x 190mm U-blocks filled solid with 20MPa/10mm concrete, pointed on soffit and one side (reinforcement elsewhere)	m	1		
446	190mm Copings one course high of 390 x 190 x 190mm inverted U-blocks , pointed on top and both sides	m	1		
447	190mm Sills of 390 x 190 x 190mm splayed sill blocks , pointed on top and one side	m	1		
448	790 x 790mm Piers of 390 x 190 x 190mm blocks pointed all round	m	1		
449	Capping to 790 x 790mm pier of 390 x 190 x 190mm splayed blocks, pointed on top and sides	No	1		
<u>FIBRE-CEMENT WINDOW SILLS</u>					
<u>Natural grey sills in single lengths bedded in class 2 mortar including metal fixing lugs etc</u>					
450	16 x 175mm Wide sills set flat and slightly projecting	m	1		
451	20 x 175mm Wide sills set flat and slightly projecting	m	1		
452	16 x 200mm Wide sills set sloping and slightly projecting	m	1		
453	20 x 200mm Wide sills set sloping and slightly projecting	m	1		
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		Unit	Quantity	Rate	Amount
<u>DECORATIVE SCREEN WALLS AND GRILLES</u>					
<u>Screen walls of type "LG Green IND 17" or other equal and approved grille blocks bedded and jointed in class 2 mortar, with continuous joints in both directions and pointed with flush horizontal and vertical joints</u>					
454	90mm Walls pointed on both sides	m ²	1		
455	90mm Walls pointed on both sides and in openings	m ²	1		
<u>GLASS BLOCK WALLS</u>					
<u>190 x 190 x 80mm Type "Macneil Ocean Wave" or other equal and approved glass blocks bedded and jointed in slow-setting class 2 mortar with continuous joints in both directions and pointed in tinted mortar on both sides with flush horizontal and vertical joints</u>					
456	80mm Walls	m ²	1		
457	80mm Walls circular on plan	m ²	1		
<u>Sundries</u>					
458	80mm Wide horizontal slip joints below glass blocks consisting of two layers type FV dampproofing	m	1		
459	50 x 80mm Wide expanded polystyrene (density 33kg per m ³) horizontally and vertically between glass blocks and structure	m	1		
460	8mm Diameter galvanised mild steel bar reinforcement horizontally and vertically	Tonnes	1.00		
<u>PAVING ETC</u>					
<u>Supplementary Preambles</u>					
Quarry tiles, cement, terrazzo and similar tiles, precast concrete bricks, blocks, etc					
Tiles shall be of approved manufacture, well burnt or cured, and uniform and true in size, shape and colour					
Preparation of concrete floor beds, slabs, etc for pavings					
Concrete surfaces shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. Surfaces shall then be wetted and kept damp for at least six hours before slushing with 1:2 cement/sand and while still wet, pavings, etc shall be laid on a 1:4 cement mortar bed not exceeding 25mm thick and jointed and pointed with hollowed joints. Sand shall be clean, sharp river sand					
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		Unit	Quantity	Rate	Amount
	<u>Paving of 60mm thick precast concrete interlocking G-block paving blocks with butt joints on 20mm thick river sand bed with sand-and-cement mixture swept into joints and hosed down, including preparation of ground or filling</u>				
461	Paving in stretcher bond	m ²	1		
462	Paving in stretcher bond to falls	m ²	1		
463	Paving in herringbone bond	m ²	1		
464	Paving in herringbone bond to falls	m ²	1		
465	Fair circular cutting	m	1		
	<u>Paving of 80mm thick precast concrete interlocking G-block paving blocks with butt joints on 20mm thick river sand bed with sand-and-cement mixture swept into joints and hosed down, including preparation of ground or filling</u>				
466	Paving in stretcher bond	m ²	1		
467	Paving in stretcher bond to falls	m ²	1		
468	Paving in herringbone bond	m ²	1		
469	Paving in herringbone bond to falls	m ²	1		
470	Fair circular cutting	m	1		
	<u>Paving of 60mm thick precast concrete "Corostone Charcoal S-C" paving blocks with butt joints on 20mm thick river sand bed with sand-and-cement mixture swept into joints and hosed down, including preparation of ground or filling</u>				
471	Paving in stretcher bond	m ²	1		
472	Paving in stretcher bond to falls	m ²	1		
473	200mm Wide brick-on-edge header course edgings on 20mm thick mortar bed, including necessary excavation	m	1		
	<u>Paving of double zig-zag (shape S-A) interlocking precast concrete paving blocks complying with SANS 1058, with butt joints on 20mm thick river sand bed with sand swept into joints, including preparation of ground or filling</u>				
474	Paving of 60mm thick blocks including edge blocks	m ²	1		
475	Paving of 60mm thick blocks including edge blocks, to falls	m ²	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
476	Extra over for contrasting colour blocks as marker lines	m	1		
477	Fair circular cutting	m	1		
	<u>Paving of 500 x 500 x 50mm precast concrete grey paving slabs laid on 20mm thick river sand bed, including preparation of ground or filling</u>				
478	Paving of slabs laid with butt joints with sand swept into joints	m ²	1		
479	Paving of slabs laid with butt joints with sand swept into joints, to falls	m ²	1		
480	Paving of slabs laid with 10mm wide joints, jointed with mortar and flush pointed	m ²	1		
481	Paving of slabs laid with 10mm wide joints, jointed with mortar and flush pointed , to falls	m ²	1		
482	Fair circular cutting	m	1		
	<u>Paving of "Corobrik Champagne" paving bricks size 220 x 108 x 50mm thick laid with open joints on 25mm thick river sand bed with sand cement mixture (Class 1 mortar) swept into joints hosed down and pointed with slightly keyed joints including preparation of ground under to slight falls and including all cutting and waste :</u>				
483	Paving laid in stretcher bond pattern	m ²	1		
484	Paving laid in stretcher bond pattern., to falls	m ²	1		
485	Extra over above for straight and raking cutting on plan	m	1		
486	Extra over above for fair circular cutting	m	1		
487	Paving laid in herringbone bond pattern	m ²	1		
488	Paving laid in herringbone bond pattern., to falls	m ²	1		
489	Extra over above for straight and raking cutting on plan.	m	1		
490	Extra over above for fair circular cutting	m	1		
491	220mm Wide brick-on-flat header course edgings on 25mm thick mortar bed, including necessary excavation	m	1		
492	220mm Wide brick-on-flat header course edgings on 25mm thick mortar bed including necessary excavation , circular on plan with tapered radiating joints	m	1		
493	220mm Wide brick-on-edge header course edgings on 25mm thick mortar bed, including necessary excavation	m	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
494	220mm Wide brick-on-edge header course edgings on 25mm thick mortar bed including necessary excavation , circular on plan with tapered radiating joints	m	1		
495	110mm Wide brick-on-end edgings on 25mm thick mortar bed, including necessary excavation	m	1		
496	200mm Wide brick-on-flat header course edgings on 25mm thick mortar bed, including necessary excavation	m	1		
	<u>Paving of "Corobrik Burgundy" paving bricks size 220 x 108 x 50mm thick laid with open joints on 25mm thick river sand bed with sand cement mixture (Class 1 mortar) swept into joints hosed down and pointed with slightly keyed joints including preparation of ground under to slight falls and including all cutting and waste :</u>				
497	Paving laid in stretcher bond pattern	m ²	1		
498	Paving laid in stretcher bond pattern., to falls	m ²	1		
499	Extra over above for straight and raking cutting on plan	m	1		
500	Extra over above for fair circular cutting	m	1		
501	Paving laid in herringbone bond pattern	m ²	1		
502	Paving laid in herringbone bond pattern., to falls	m ²	1		
503	Extra over above for straight and raking cutting on plan	m	1		
504	Extra over above for fair circular cutting	m	1		
505	220mm Wide brick-on-flat header course edgings on 25mm thick mortar bed, including necessary excavation	m	1		
506	220mm Wide brick-on-flat header course edgings on 25mm thick mortar bed including necessary excavation , circular on plan with tapered radiating joints	m	1		
507	220mm Wide brick-on-edge header course edgings on 25mm thick mortar bed, including necessary excavation	m	1		
508	220mm Wide brick-on-edge header course edgings on 25mm thick mortar bed including necessary excavation , circular on plan with tapered radiating joints	m	1		
509	110mm Wide brick-on-end edgings on 25mm thick mortar bed, including necessary excavation	m	1		
510	200mm Wide brick-on-flat header course edgings on 25mm thick mortar bed, including necessary excavation	m	1		
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SECTION SUMMARY

SECTION NO. 7
WATERPROOFING

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 7</u>				
<u>WATERPROOFING</u>				
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<u>WATERPROOFING</u>				
<u>WATERPROOFING</u>				
<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
<u>One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B)</u>				
1	In walls ,under ,sills ,etc	m ²	1	
<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>				
2	Under surface beds	m ²	1	
3	Vertically between walls	m ²	1	
<u>Two coats bitumen emulsion waterproof coating</u>				
4	On concrete floors	m ²	1	
5	On concrete walls and columns in foundations	m ²	1	
6	On concrete walls, columns and beams	m ²	1	
7	On fair faced brick walls	m ²	1	
8	On bagged brick walls	m ²	1	
<u>Primer and two coats heavy duty bitumen emulsion waterproof coating</u>				
9	On concrete floors	m ²	1	
10	On concrete walls and columns in foundations	m ²	1	
11	On concrete walls, columns and beams	m ²	1	
12	On fair faced brick walls	m ²	1	
13	On bagged brick walls	m ²	1	
<u>Cementitious waterproofing system (suitable for tiling) comprising patching defects with polymer modified flexible (PMF) waterproofing slurry and three full coats PMF waterproofing slurry applied with a brush to a final dry film thickness of 2 to 3mm</u>				
14	On floors	m ²	1	
15	On shower floors	m ²	1	
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Section No. 7				
Bill No. 1				
Waterproofing				

		Unit	Quantity	Rate	Amount
16	On turn-ups and turn-downs exceeding 300mm girth	m ²	1		
17	30 x 30mm Triangular fillets	m	1		
<u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u>					
<u>4mm 'ABE Index Fidia' fully bonded waterproofing with 100mm side laps and 100mm end laps sealed to primed surfaces to falls and crossfalls by 'torchfusion':</u>					
18	On flat roofs	m ²	1		
19	On tops and sides of inverted beams	m ²	1		
20	Bitumen mastic sealing edges to concrete or brickwork	m ²	1		
21	On concrete walls	m ²	1		
22	On turn-ups and turn-downs exceeding 300mm girth	m ²	1		
23	On bottoms and sides of box gutters	m ²	1		
24	On bottoms and sides of plant boxes	m ²	1		
<u>Two coats bituminous aluminium paint</u>					
25	On waterproofing to roofs	m ²	1		
26	On waterproofing to box gutters	m ²	1		
<u>WATERSTOPS, SEALING STRIPS, JOINT SEALANTS, ETC</u>					
<u>Bitumen Impregnated foam plastic joint sealing strips</u>					
27	10 x 10mm In joints between frames and walls	m	1		
28	10 x 10mm In expansion joints	m	1		
<u>Approved type two-part polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>					
29	3 x 20mm In saw cut joints in floors	m	1		
30	6 x 40mm In saw cut joints in floors	m	1		
31	10 x 10mm In expansion joints in tiled floors etc	No	1		
32	10 x 10mm In expansion joints in tiled walls etc	No	1		
33	12 x 100mm In expansion joints in floors including raking out expansion joint filler as necessary	No	1		
34	12 x 150mm In expansion joints in floors including raking out expansion joint filler as necessary	No	1		
Carried to Collection				R	
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Waterproofing					

		Unit	Quantity	Rate	Amount
35	12 x 200mm In expansion joints in floors including raking out expansion joint filler as necessary	No	1		
36	12 x 100mm In expansion joints in walls including raking out expansion joint filler as necessary	No	1		
37	12 x 150mm In expansion joints in walls including raking out expansion joint filler as necessary	No	1		
	<u>Bitumen impregnated foam plastic joint sealing strips</u>				
38	10 x 12mm In joints between frames and walls	m	1		
39	12mm x 12mm In expansion joints	m	1		
40	6 x 10mm In saw cut joints in floors	m	1		
	<u>Clean river stone pebble dressing of 20 - 30mm pebbles evenly spread with larger stones around outlets</u>				
41	50mm Thick on waterproofing to flat roofs	m ²	1		
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SECTION NO. 8
ROOF COVERINGS

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<u>ROOF COVERINGS</u>					
<u>BILL NO. 1</u>					
<u>ROOF COVERINGS</u>					
<u>ROOF COVERINGS, CLADDINGS, ETC</u>					
<u>SLATES</u>					
<u>400 x 400mm Slates laid in double thickness with a head lap of 75mm and nailed along centre with galvanised steel or copper clout nails to and including 38 x 38mm sawn softwood battens at 360mm centres</u>					
1	Roof covering with pitches not exceeding 25 degrees	m ²	1		
2	Roof covering with pitches not exceeding 25 degrees, circular across the fall to 2m radius	m ²	1		
3	Roof covering with pitches not exceeding 25 degrees circular along the fall to 2m radius	m ²	1		
4	Roof covering with a 25 degree pitch and not exceeding 45 degrees	m ²	1		
5	Roof covering to conical shape with a 25 degree pitch and a radius varying from 2m to 4m, including cutting slates to wedge shape	m ²	1		
6	Side cladding to gables etc	m ²	1		
7	Side cladding to gables etc circular on plan to 2m radius	m ²	1		
8	Roll-top type ridge cappings 460mm girth, including dressing edges into corrugations of roof covering on both sides	m	1		
9	Roof covering and side cladding to dormers, turrets, etc	m ²	1		
10	Circular cutting	m	1		
11	Extra on roof covering for double course at eaves including fixing clips and 38 x 65mm sawn softwood tilting fillet	m	1		
12	Close cut and mitred ridge including soakers of bituminous roofing felt in accordance with SANS 92 Type 60 and necessary additional battens	m	1		
13	Close cut and mitred hip including soakers of bituminous roofing felt in accordance with SANS 92 Type 60 and necessary additional battens	m	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
14	Close cut and mitred valley including soakers of bituminous roofing felt in accordance with SANS 92 Type 60 and necessary additional battens	m	1		
15	Close cut and mitred vertical angle including soakers of bituminous roofing felt in accordance with SANS 92 Type 60 and necessary additional battens	m	1		
	<u>600 x 300 x 4mm Standard coloured plain or textured, mitred or unmitred cement-fibre slates nailed with 30 x 2.65mm jagged stainless steel or copper clout nails to and including 38 x 38mm sawn softwood battens at 760mm centres and fastened together with copper disc rivets</u>				
16	Roof covering with pitches not exceeding 25 degrees	m ²	1		
17	Roof covering with pitches not exceeding 25 degrees, circular across the fall to 2m radius	m ²	1		
18	Roof covering with pitches not exceeding 25 degrees circular along the fall to 2m radius	m ²	1		
19	Roof covering with a 25 degree pitch	m ²	1		
20	Roof covering to conical shape with a 25 degree pitch and a radius varying from 2m to 4m, including cutting slates to wedge shape	m ²	1		
21	Side cladding to gables etc	m ²	1		
22	Side cladding to gables etc circular on plan to 2m radius	m ²	1		
23	Roll-top type ridge cappings 460mm girth, including dressing edges into corrugations of roof covering on both sides	m	1		
24	Roof covering and side cladding to dormers, turrets, etc	m ²	1		
25	Circular cutting	m	1		
26	Extra on roof covering for double course at eaves including fixing clips and 38 x 65mm sawn softwood tilting fillet	m	1		
27	Close cut and mitred ridge including soakers of bituminous roofing felt in accordance with SANS 92 Type 60 and necessary additional battens	m	1		
28	Close cut and mitred hip including soakers of bituminous roofing felt in accordance with SANS 92 Type 60 and necessary additional battens	m	1		
	Carried to Collection			R	
	Section No. 8				
	Bill No. 1				
	Roof Coverings				

		Unit	Quantity	Rate	Amount
29	Close cut and mitred valley including soakers of bituminous roofing felt in accordance with SANS 92 Type 60 and necessary additional battens	m	1		
30	Close cut and mitred vertical angle including soakers of bituminous roofing felt in accordance with SANS 92 Type 60 and necessary additional battens	m	1		
<u>CONCRETE ROOF TILES</u>					
<u>420 x 332mm Concrete "Double Roman" pattern tiles of standard colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm sawn softwood battens at 760mm centres</u>					
31	Roof covering with pitches not exceeding 25 degrees	m ²	1		
32	Roof covering with a 25 degree pitch and not exceeding 45 degrees	m ²	1		
33	Side cladding to gables etc	m ²	1		
34	Roof covering and side cladding to dormers, turrets, etc	m ²	1		
35	Circular cutting	m	1		
36	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m	1		
37	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m	1		
38	Extra on roof covering for 38 x 65mm sawn softwood tilting fillets	m	1		
39	Ridges of tiles to match roofing tiles, bedded and pointed in 1:3 tinted cement mortar, including 320mm wide strip of 375 micron embossed dampproof course in accordance with SANS 952 Type B underlay and necessary additional battens	m	1		
40	Hips of tiles to match roofing tiles, bedded and pointed in 1:3 tinted cement mortar, including 320mm wide strip of 375 micron embossed dampproof course in accordance with SANS 952 Type B underlay, raking cutting to tiles on both sides and necessary additional battens	m	1		
41	Verges of capping tiles to match roofing tiles, fixed with non-corrosive fixing accessories	m	1		
42	Extra over for purpose made tile to end of ridge	No	1		
Carried to Collection				R	
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Roof Coverings					

		Unit	Quantity	Rate	Amount
43	Extra over for purpose made tile at intersection between ridge and two hips	No	1		
44	Extra over for universal ventilation tile	No	1		
	<u>420 x 332mm Concrete "Renown Pattern" tiles of standard colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38 mm sawn softwood battens at 760mm centres over and including an underlay of 250 micron polyethelene sheeting in accordance with SANS 952 Type E fixed to rafters under battens with minimum laps of 150mm</u>				
45	Roof covering with pitches not exceeding 25 degrees	m²	1		
46	Roof covering with a 25 degree pitch and not exceeding 45 degrees	m²	1		
47	Side cladding to gables etc	m²	1		
48	Roof covering and side cladding to dormers, turrets, etc	m²	1		
49	Circular cutting	m	1		
50	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m	1		
51	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m	1		
52	Extra on roof covering for 38 x 65mm sawn softwood tilting fillets	m	1		
53	Ridges of tiles to match roofing tiles, bedded and pointed in 1:3 tinted cement mortar, including 320mm wide strip of 375 micron embossed dampproof course in accordance with SANS 952 Type B underlay and necessary additional battens	m	1		
54	Hips of tiles to match roofing tiles, bedded and pointed in 1:3 tinted cement mortar, including 320mm wide strip of 375 micron embossed dampproof course in accordance with SANS 952 Type B underlay, raking cutting to tiles on both sides and necessary additional battens	m	1		
55	Verges of capping tiles to match roofing tiles, fixed with non-corrosive fixing accessories	m	1		
56	Extra over for purpose made tile to end of ridge	No	1		
	Carried to Collection			R	
	Section No. 8				
	Bill No. 1				
	Roof Coverings				

		Unit	Quantity	Rate	Amount
57	Extra over for purpose made tile at intersection between ridge and two hips	No	1		
58	Extra over for universal ventilation tile	No	1		
	<u>420 x 332mm Concrete "Monarch" roof tiles of standard colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm sawn softwood battens at 760mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm</u>				
59	Roof covering with pitches not exceeding 25 degrees	m²	1		
60	Roof covering with a 30 degree pitch	m²	1		
61	Side cladding to gables etc	m²	1		
62	Roof covering and side cladding to dormers, turrets, etc	m²	1		
63	Circular cutting	m	1		
64	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m	1		
65	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m	1		
66	Extra on roof covering for 38 x 65mm sawn softwood tilting fillets	m	1		
67	Ridges of tiles to match roofing tiles, bedded and pointed in 1:3 tinted cement mortar, including 320mm wide strip of 375 micron embossed dampproof course in accordance with SANS 952 Type B underlay and necessary additional battens	m	1		
68	Hips of tiles to match roofing tiles, bedded and pointed in 1:3 tinted cement mortar, including 320mm wide strip of 375 micron embossed dampproof course in accordance with SANS 952 Type B underlay, raking cutting to tiles on both sides and necessary additional battens	m	1		
69	Verges of capping tiles to match roofing tiles, fixed with non-corrosive fixing accessories	m	1		
70	Extra over for purpose made tile to end of ridge	No	1		
	Carried to Collection				
	Section No. 8				
	Bill No. 1				
	Roof Coverings				

		Unit	Quantity	Rate	Amount
71	Extra over for purpose made tile at intersection between ridge and two hips	No	1		
72	Extra over for universal ventilation tile	No	1		
	<u>PROFILED FIBRE-CEMENT SHEETING AND ACCESSORIES</u>				
	<u>"Big Six" sheeting and accessories, fixed to timber purlins or rails</u>				
73	Roof covering with pitches not exceeding 25 degrees	m ²	1		
74	Roof covering with a 25 degree pitch and not exceeding 45 degrees	m ²	1		
75	Roof covering with pitches not exceeding 25 degrees and with side and end laps sealed with 12 x 25mm closed cell bitumen impregnated polyurethane foam strips	m ²	1		
76	Side cladding	m ²	1		
77	Roof covering and side cladding to dormers, turrets, etc	m ²	1		
78	Soffit cladding	m ²	1		
79	Circular cutting	m	1		
80	Extra over roof covering, side cladding or soffit cladding for semi-opaque 30% light transmission translucent polycarbonate sheet panels	m ²	1		
81	Extra over roof coverings for soaker flange sheet suitable for ventilator	No	1		
82	Side apron flashings	m	1		
83	End apron flashings	m	1		
84	Plain fixed angle ridge or hip cappings	m	1		
85	Plain adjustable ridge or hip cappings	m	1		
86	Close fitting adjustable ridge cappings	m	1		
87	Fixed angle sawtooth ridge cappings	m	1		
88	Adjustable sawtooth ridge cappings	m	1		
89	Fixed angle wide profile ridge sheets 460mm girth	m	1		
90	Fixed angle wide profile curved ridge sheets 460mm girth	m	1		
91	Birdproofing	m	1		
	Carried to Collection			R	
	Section No. 8				
	Bill No. 1				
	Roof Coverings				

		Unit	Quantity	Rate	Amount
92	Eaves fillers	m	1		
93	Straight sill flashings	m	1		
94	U-flashings	m	1		
95	Hip end cap	No	1		
96	Ridge end cap	No	1		
97	Junction piece at intersection of ridge with two hip cappings	No	1		
	<u>"Canadian" profiled sheeting and accessories fixed to timber or steel purlins or rails</u>				
98	Roof covering with pitches not exceeding 25 degrees	m ²	1		
99	Roof covering with a 25 degree pitch and not exceeding 45 degrees	m ²	1		
100	Roof covering with pitches not exceeding 25 degrees and with side and end laps sealed with 12 x 25mm closed cell bitumen impregnated polyurethane foam strips	m ²	1		
101	Side cladding	m ²	1		
102	Roof covering and side cladding to dormers, turrets, etc	m ²	1		
103	Soffit cladding	m ²	1		
104	Circular cutting	m	1		
105	Extra over roof covering, side cladding or soffit cladding for semi-opaque 30% light transmission translucent polycarbonate sheet panels	m ²	1		
106	Extra over roof coverings for soaker flange sheet suitable for ventilator	No	1		
107	Side apron flashings	m	1		
108	End apron flashings	m	1		
109	Plain fixed angle ridge or hip cappings	m	1		
110	Plain adjustable ridge or hip cappings	m	1		
111	Close fitting adjustable ridge cappings	m	1		
112	Fixed angle sawtooth ridge cappings	m	1		
113	Adjustable sawtooth ridge cappings	m	1		
114	Fixed angle wide profile ridge sheets 460mm girth	m	1		
	Carried to Collection			R	
	Section No. 8				
	Bill No. 1				
	Roof Coverings				

126

		Unit	Quantity	Rate	Amount
115	Fixed angle wide profile curved ridge sheets 460mm girth	m	1		
116	Birdproofing	m	1		
117	Eaves fillers	m	1		
118	Straight sill flashings	m	1		
119	U-flashings	m	1		
120	Hip end cap	No	1		
121	Ridge end cap	No	1		
122	Junction piece at intersection of ridge with two hip cappings	No	1		
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>					
<u>0,5mm Z275 spelter galvanised corrugated steel sheets fixed to timber or steel purlins or rails</u>					
123	Roof covering with pitches not exceeding 25 degrees	m ²	1		
124	Roof covering with a 25 degree pitch and not exceeding 45 degrees	m ²	1		
125	Side cladding	m ²	1		
126	Soffit cladding	m ²	1		
127	Roof covering and side cladding to dormers, turrets, etc	m ²	1		
128	Circular cutting	m	1		
129	Extra over roof covering for bullnose (lip down) to 300mm radius, at eaves ends	m	1		
130	Extra over roof covering for 20 degree curved turn-up (lip up) to 2mm radius, at top ends	m	1		
<u>0,6mm Z275 spelter galvanised steel sheet accessories to preceding roof covering and claddings</u>					
131	Rolled edge at verges	m	1		
132	Roll-top type ridge cappings 400mm girth, including dressing edges into corrugations of roof covering on both sides	m	1		
133	Roll-top type hip cappings 400mm girth, including dressing edges into corrugations of roof covering	m	1		
134	Valley gutters or inverted roll-top ridge capping with 400mm girth	m	1		
Carried to Collection				R	
Section No. 8					
Bill No. 1					
Roof Coverings					

		Unit	Quantity	Rate	Amount
135	Cover flashings 350mm girth	m	1		
136	Side wall flashings 300mm girth	m	1		
137	Head wall flashings 350mm girth	m	1		
	<u>0.6mm Thick 'Brownbuilt Klip-lok' Light Industrial galvanised (275g/m2) pressed steel sheets in single lengths (no end laps) with 'Chromadek' baked enamel finish on one side and half coat grey on reverse side, fixed to steel purlins (purlins elsewhere):</u>				
138	Roof covering with pitches not exceeding 25 degrees	m ²	1		
139	Roof covering with a 25 degree pitch and not exceeding 45 degrees	m ²	1		
140	Side cladding	m ²	1		
141	Soffit cladding	m ²	1		
142	Roof covering and side cladding to dormers, turrets, etc	m ²	1		
143	Circular cutting	m	1		
144	Extra over roof covering for 25 Degree bullnose (lip down) to 200mm radius, at eaves ends	m	1		
145	Extra over roof covering for 20 degree curved turn-up (lip up) to 200mm radius, at top ends	m	1		
	<u>0.5 mm Z450 Spelter galvanised steel sheet accessories, side cladding and soffit cladding with approved standard colours on one side and standard grey backing finish on reverse side :</u>				
146	Side wall flashings 400mm girth	m	1		
147	Roll-top type ridge cappings 400mm girth, including dressing edges into corrugations of roof covering on both sides	m	1		
148	Head wall flashings 400mm girth	m	1		
149	Roll-top type hip cappings 400mm girth, including dressing edges into corrugations of roof covering	m	1		
150	Valley gutters or inverted roll-top ridge capping 400mm girth	m	1		
151	Cover flashings 300mm girth	m	1		
152	Rolled edge at verges	m	1		
				R	
Carried to Collection					
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Roof Coverings					

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		Unit	Quantity	Rate	Amount
	<u>0,6mm Z450 Spelter galvanised corrugated steel sheets fixed to timber or steel purlins or rails</u>				
153	Side cladding	m ²	1		
154	Roof covering with pitches not exceeding 25 degrees	m ²	1		
155	Soffit cladding	m ²	1		
156	Roof covering with a 25 degree pitch and not exceeding 45 degrees	m ²	1		
157	Roof covering and side cladding to dormers, turrets, etc	m ²	1		
158	Side cladding	m ²	1		
159	Extra over roof covering or side cladding and side and soffit cladding for semi-opaque 30% light transmission translucent polycarbonate sheet panels	m ²	1		
160	Extra over roof covering for 20 degree crank occurring from ends of sheets to form ridge, including rib caps and sealing	m	1		
161	Soffit cladding	m ²	1		
162	Roof covering and side cladding to dormers, turrets, etc	m ²	1		
163	Circular cutting	m	1		
	<u>0,8mm Z450 Spelter galvanised steel sheet accessories to preceding roof covering, side cladding and soffit cladding</u>				
164	Ridge cappings 460mm girth	m	1		
165	Extra over roof covering for 30 degree bullnose (lip down) to 300mm radius at eaves	m	1		
166	Hip cappings 350mm girth	m	1		
167	Extra over roof covering for 20 degree curved turn-up (lip up) to 200mm radius at top edge	m	1		
168	Valley gutters 400mm girth	m	1		
169	Internal corner trims 300mm girth	m	1		
170	External corner trims 300mm girth	m	1		
171	Cover flashings 350mm girth	m	1		
172	Side wall flashings 300mm girth	m	1		
	Carried to Collection			R	
	Section No. 8				
	Bill No. 1				
	Roof Coverings				

		Unit	Quantity	Rate	Amount
	<u>0.53mm Thick white "AZ150 Colorplus G550 Klip-Tite 700" Profiled heavy industrial roof sheeting and accessories with finish on one side and backing coat to the reverse side, fixed over insulation (elsewhere measured) to timber purlins with Klip-Lok700 clips, all in accordance with the manufacturer's instructions</u>				
173	Roof covering with pitches not exceeding 25 degrees	m ²	1		
174	Roof covering with a 25 degree pitch and not exceeding 45 degrees	m ²	1		
175	Roof covering with pitches not exceeding 25 degrees, circular along the fall to 200mm radius	m ²	1		
176	Roof covering with pitches not exceeding 25 degrees and with side laps seam stitched	m ²	1		
177	Roof covering with pitches not exceeding 25 degrees with side laps sealed with 6 x 20mm closed cell bitumen impregnated polyurethane foam strips and seam	m ²	1		
178	Roof covering with pitches not exceeding 25 degrees, circular along the fall to 200mm radius with side laps sealed with 6 x 20mm closed cell bitumen impregnated polyurethane foam strips and seam stitched	m ²	1		
179	Labour only bending up or down trough of sheet at ridge or eave	m	1		
180	Side cladding	m ²	1		
181	Side cladding circular on plan	m ²	1		
182	Soffit cladding	m ²	1		
183	Roof covering and side cladding to dormers, turrets, etc	m ²	1		
184	Circular cutting	m	1		
185	Extra over roof covering or side cladding and soffit cladding for semi-opaque 30% light transmission translucent polycarbonate sheet panels	m ²	1		
186	Extra over roof covering for 30 degree crank occurring from ends of sheets to form ridge	m	1		
187	Extra over roof covering for 30 degree bullnose to 200mm radius, at ends	m	1		
188	Extra over roof covering for 20 degree curved turn-up to 200mm radius, at ends	m	1		
	Carried to Collection			R	
	Section No. 8				
	Bill No. 1				
	Roof Coverings				

		Unit	Quantity	Rate	Amount
	<u>0.55mm Thick "Safintra" 686mm cover Tufdek® IBR ZINCAL® AZ200 roof sheeting, fixed to steel purlins at approximately 1200mm centres using Safintra approved (Class 3) HWHF self tapping fasteners with low carbon epdm seals. Side laps to be secured using (Class 3) fasteners over purlins and at centres not exceeding 500mm between purlins and sealed with non-hardening sealing strips with minimum 230mm end laps sealed with a double row of sealing tape, all in accordance with the manufacturer's recommendations. Troughs to be bent up at ridge by 45 degrees to prevent water ingress :</u>				
189	Roof covering with pitches not exceeding 25 degrees	m ²	1		
190	Roof covering with a 25 degree pitch and not exceeding 45 degrees	m ²	1		
191	Side cladding	m ²	1		
192	Ridge capping 650mm girth	m	1		
193	Head wall flashings 400mm girth	m	1		
194	Barge trims 755mm girth	m	1		
195	ZINCAL AZ200 flashing 154mm girth	m	1		
	<u>0.8mm Thick "Saflok 410" aluminium G4 colourtech roof sheeting in single lengths fixed to timber or steel purlins :</u>				
196	Roof covering with pitches not exceeding 25 degrees	m ²	1		
197	Roof covering with a 25 degree pitch and not exceeding 45 degrees	m ²	1		
198	Ridge capping 650mm girth	m	1		
199	Side wall flashings 300mm girth	m	1		
200	Head wall flashings 400mm girth	m	1		
	<u>0.55mm 'G.R.S. Klip-Lok 700 AZ150' coated steel G550 with a Colorplus colour finish to one side with standard Cool Grey backing coat and accessories fixed to timber or steel purlins or rails not exceeding 1800mm centres :</u>				
201	Roof covering with pitches not exceeding 25 degrees	m ²	1		
202	Roof covering with a 25 degree pitch and not exceeding 45 degrees	m ²	1		
203	Ridge capping 650mm girth	m	1		
	Carried to Collection			R	
	Section No. 8				
	Bill No. 1				
	Roof Coverings				

		Unit	Quantity	Rate	Amount
204	Side wall flashings 300mm girth	m	1		
205	Head wall flashings 400mm girth	m	1		
206	Side cladding	m ²	1		
	<u>0.80mm Thick white AZ150 Colorbond G550 flashings with finish on one side and backing coat to the reverse side, etc with edges of all laps sealed with a silicone sealant</u>				
207	Ridge cappings 650mm girth	m	1		
208	Narrow or broad fluted closer 150mm girth	m	1		
209	Moulded narrow or broad rib polyethylene filler blocks	m	1		
210	Hip cappings 350mm girth	m	1		
211	Corner trims 350mm girth	m	1		
212	Gable trims 350mm girth	m	1		
213	Cover flashings 350mm girth	m	1		
214	Side wall flashings 300mm girth	m	1		
215	Head wall flashings 300mm girth	m	1		
216	Apex flashings 300mm girth	m	1		
217	Apron flashings 300mm girth	m	1		
218	Z-profile flashings 300mm girth	m	1		
219	Drip flashing 300mm girth	m	1		
220	Sill flashings 300mm girth	m	1		
221	Jamb flashings 300mm girth	m	1		
222	Narrow and broad flute closers 300mm girth	m	1		
223	Narrow and broad flute closers 300mm girth, raking at valleys or hips	m	1		
224	Moulded narrow and broad rib polyethelene filler blocks	m	1		
225	Moulded narrow and broad rib polyethelene filler blocks, raking at valleys or hips	m	1		
Carried to Collection				R	
Section No. 8					
Bill No. 1					
Roof Coverings					

		Unit	Quantity	Rate	Amount
	<u>ROOF VENTILATORS</u>				
	<u>"Robertsons" or other equal and approved :</u>				
226	Galvanised sheet steel multi-purpose ventilator 1,83m long fixed through troughed roof sheeting to steel purlins including flashings, closers, sealing strips, etc	No	1		
	<u>ROOF AND WALL INSULATION</u>				
	<u>Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m² and a Class I fire rating in accordance with SANS 0177-3</u>				
227	Insulation sheeting fixed to underside of rafters at approximately 850mm centres with 150mm stapled laps including galvanised or PVC coated steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m ²	1		
228	Insulation sheeting laid taut over purlins at approximately 800mm centres and fixed concurrent with roof covering with minimum 150mm stapled laps including galvanised or PVC coated steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m ²	1		
	<u>Polyethelene bubblefold aluminium foil faced one side sheeting</u>				
229	Insulation sheeting fixed to underside of rafters at approximately 850mm centres with 150mm stapled laps including galvanised or PVC coated steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m ²	1		
230	Insulation sheeting laid taut over purlins at approximately 800mm centres) and fixed concurrent with roof covering with minimum 150mm stapled laps including galvanised or PVC coated steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m ²	1		
	<u>Polyethelene bubblefold aluminium foil faced both sides sheeting</u>				
231	Insulation sheeting fixed to underside of rafters at approximately 800mm centres with 150mm stapled laps including galvanised or PVC coated steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m ²	1		
	Carried to Collection			R	
	Section No. 8				
	Bill No. 1				
	Roof Coverings				

		Unit	Quantity	Rate	Amount
232	Insulation sheeting laid taut over purlins at approximately 750mm centres and fixed concurrent with roof covering with minimum 150mm stapled laps including galvanised or PVC coated steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m ²	1		
	<u>50mm Thick aluminium foil faced fibreglass blanket</u>				
233	Insulation blanket laid taut over purlins at approximately 750mm centres and fixed concurrent with roof covering with stapled longitudinal flap joints, including fixing at top and bottom edges to purlins with and including hoop iron straps	m ²	1		
234	Insulation blanket laid taut over purlins at approximately 750mm centres and fixed concurrent with roof covering with stapled longitudinal flap joints, including galvanised or PVC coated steel straining wires at not exceeding 300mm centres and fixing at top and bottom edges to purlins with and including hoop iron straps	m ²	1		
	<u>Aluminium foil faced polyisocyanurate foam core rigid board</u>				
235	Insulation boarding in 450mm widths with longitudinal flap joints, laid over purlins at approximately 750mm centres and fixed concurrent with roof covering, including holes through boards etc	m ²	1		
236	Insulation boarding in 450mm widths with H-section aluminium bearers at longitudinal joints, laid over purlins at approximately 750mm centres and fixed concurrent with roof covering, including holes through boards etc	m ²	1		
237	Insulation boarding in 450mm widths with H-section aluminium bearers at longitudinal joints, placed vertically against girts, bearers, etc at approximately 750mm centres and fixed concurrent with vertical cladding, including holes through boards etc	m ²	1		
	<u>Aluminium foil faced polyisocyanurate foam core rigid board with clear lacquer finish on one side or white lacquer finish on one side</u>				
238	Insulation boarding in 450mm widths with longitudinal flap joints, laid over purlins at approximately 750mm centres and fixed concurrent with roof covering, including holes through boards etc	m ²	1		
239	Insulation boarding in 450mm widths with H-section aluminium bearers at longitudinal joints, laid over purlins at approximately 750mm centres and fixed concurrent with roof covering, including holes through boards etc	m ²	1		
	Carried to Collection			R	
	Section No. 8				
	Bill No. 1				
	Roof Coverings				

		Unit	Quantity	Rate	Amount
240	Insulation boarding in 450mm widths with H-section aluminium bearers at longitudinal joints, placed vertically against girts, bearers, etc at approximately 750mm centres and fixed concurrent with vertical cladding, including holes through boards etc	m ²	1		
	<u>FLAT SHEET METAL</u>				
	<u>0,56mm Grade 004 HC sheet copper or 1,2mm sheet aluminium of 3004/H4 alloy laid on boarding (boarding elsewhere) and sheets jointed in the direction of the flow by double-lock welts into standing seams and across the fall by double-lock welts and attached to roof along standing seams with clips cut from sheeting material, each double nailed to boarding with non-corrosive clout nails, bent up into seam and folded concurrent with sheeting in forming the welt</u>				
241	Roof covering with pitches not exceeding 25 degrees	m ²	1		
242	Roof covering with a 25 degree pitch and not exceeding 45 degrees	m ²	1		
243	Roof covering with pitches not exceeding 25 degrees circular along the fall to 2m radius	m ²	1		
244	Roof covering with pitches not exceeding 25 degrees, circular across the fall to 2m radius	m ²	1		
245	Side cladding to gables etc	m ²	1		
246	Roof covering and side cladding to dormers, turrets, etc	m ²	1		
247	Circular cutting	m	1		
	<u>0,56mm Grade 004 HC sheet copper or 1,2mm sheet aluminium of 3004/H4 alloy, laid on boarding (boarding elsewhere) including an underlay of bituminous roofing felt in accordance with SANS 92 Type 60, butt jointed and fixed with non-corrosive clout nails with sheets jointed in the direction of the flow by double-lock welts into standing seams and across the fall by double-lock welts and attached to roof along standing seams cut from sheeting material, each double nailed through underlay to boarding with non-corrosive clout nails, bent up into seam and folded concurrent with sheeting in forming the welt</u>				
248	Roof covering with pitches not exceeding 25 degrees	m ²	1		
249	Roof covering with a 25 degree pitch and not exceeding 45 degrees	m ²	1		
	Carried to Collection			R	
	Section No. 8				
	Bill No. 1				
	Roof Coverings				

		Unit	Quantity	Rate	Amount
250	Roof covering with pitches not exceeding 25 degrees circular along the fall to 2m radius	m ²	1		
251	Roof covering with pitches not exceeding 25 degrees, circular across the fall to 2m radius	m ²	1		
252	Side cladding to gables etc	m ²	1		
253	Roof covering and side cladding to dormers, turrets, etc	m ²	1		
254	Circular cutting	m	1		
	<u>SHEET METAL FLASHINGS, LININGS, COPINGS, ETC</u>				
	<u>0.6mm Galvanised sheet steel with 150mm laps</u>				
255	Flashings	m ²	1		
256	Stepped cover flashings	m ²	1		
257	Stepped cover flashings to roof pitches exceeding 25 degrees	m ²	1		
258	Soakers	m ²	1		
259	Linings to valleys with riveted and sealed joints	m ²	1		
260	Linings to box gutters with riveted and sealed joints	m ²	1		
261	Antguards	m ²	1		
262	Circular cutting	m	1		
263	Apron flashings 400mm girth with 150mm laps	m	1		
264	Cover flashings 450mm girth with 150mm laps	m	1		
265	Cover flashings 450mm girth with 150mm laps, including sealing top edge with mastic in and including groove in brickwork	m	1		
266	Cappings 450mm girth four times bent along length, with 150mm lapped riveted and sealed joints, sprung over and including suitable galvanised steel brackets at 500mm centres, plugged to brickwork or concrete	m	1		
267	Extra over for riveted and sealed angle	No	1		
	<u>0.6mm Galvanised sheet steel with silicone polyester finish on one side, with 150mm laps</u>				
268	Flashings	m ²	1		
269	Stepped cover flashings	m ²	1		
	Carried to Collection			R	
	Section No. 8				
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	Roof Coverings				

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		Unit	Quantity	Rate	Amount
270	Stepped cover flashings to roof pitches exceeding 25 degrees	m ²	1		
271	Soakers	m ²	1		
272	Linings to valleys with riveted and sealed joints	m ²	1		
273	Linings to box gutters with riveted and sealed joints	m ²	1		
274	Antguards	m ²	1		
275	Circular cutting	m	1		
276	Apron flashings 400mm girth with 150mm laps	m	1		
277	Cover flashings 450mm girth with 150mm laps	m	1		
278	Cover flashings 450mm girth with 150mm laps, including sealing top edge with mastic in and including groove in brickwork	m	1		
279	Cappings 450mm girth four times bent along length, with 150mm lapped riveted and sealed joints, sprung over and including suitable galvanised steel brackets at 500mm centres, plugged to brickwork or concrete	m	1		
280	Extra over for riveted and sealed angle	No	1		
	<u>0.6mm Sheet aluminium with 150mm laps :</u>				
281	Flashings	m ²	1		
282	Stepped cover flashings	m ²	1		
283	Stepped cover flashings to roof pitches exceeding 25 degrees	m ²	1		
284	Soakers	m ²	1		
285	Linings to valleys with riveted and sealed joints	m ²	1		
286	Linings to box gutters with riveted and sealed joints	m ²	1		
287	Antguards	m ²	1		
288	Circular cutting	m	1		
289	Apron flashings 450mm girth with 150mm laps	m	1		
290	Cover flashings 450mm girth with 150mm laps	m	1		
291	Cover flashings 450mm girth with 150mm laps, including sealing top edge with mastic in and including groove in brickwork	m	1		
	Carried to Collection			R	
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	Roof Coverings				

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		Unit	Quantity	Rate	Amount
292	Cappings 450mm girth four times bent along length, with 150mm lapped riveted and sealed joints, sprung over and including suitable galvanised steel brackets at 500mm centres, plugged to brickwork or concrete	m	1		
293	Extra over for riveted and sealed angle	No	1		
Carried to Collection				R	
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Roof Coverings					

Amount

BILL NO. 1
ROOF COVERINGS
COLLECTION

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Roof Coverings

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ROOF COVERINGS
SECTION SUMMARY

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SECTION SUMMARY

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SECTION NO. 9
CARPENTRY AND JOINERY

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 9</u>				
<u>CARPENTRY AND JOINERY</u>				
<u>BILL NO. 1</u>				
<u>CARPENTRY AND JOINERY</u>				
<u>CARPENTRY AND JOINERY</u>				
<u>Fixing</u>				
Items described as nailed shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete				
Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as bolted, the bolts have been given elsewhere				
<u>Decorative thermosetting plastic laminate covering</u>				
Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish				
<u>STRUCTURAL TIMBERWORK, ETC</u>				
<u>Sawn softwood grade 6</u>				
1	38 x 38mm Battening at 380mm centres for roof covering	m ²	1	
2	Extra over for 38 x 50mm tilting fillets at eaves	m	1	
3	38mm Gutter boarding	m ²	1	
4	38mm Boarding to tank stands	m ²	1	
5	22mm Tongued and grooved roof boarding in 100mm widths	m ²	1	
6	Circular cutting to boarding	m	1	
7	38 x 38mm Wall plates	m	1	
8	38 x 114mm Wall plates bolted	m	1	
9	38 x 76mm Bracing	m	1	
10	38 x 76mm Hangers	m	1	
11	38 x 76mm Runners	m	1	
12	38 x 76mm Trimmers	m	1	
13	38 x 114mm Sprockets	m	1	
14	38 x 114mm Ceiling joists in lengths not exceeding 2,4m	m	1	
Carried to Collection			R	
Section No. 9				
Bill No. 1				
Carpentry And Joinery				

		Unit	Quantity	Rate	Amount
15	38 x 114mm Ceiling joists in lengths exceeding 2.4m and not exceeding 4.8m	m	1		
16	38 x 114mm Common rafters in lengths not exceeding 2,4m	m	1		
17	38 x 114mm Common rafters in lengths exceeding 2.4m and not exceeding 4.8m	m	1		
18	38 x 114mm Common rafters in lengths exceeding 6,6m	m	1		
19	38 x 76mm Bearers bolted	m	1		
20	38 x 114mm Bearers in lengths not exceeding 2,4m	m	1		
21	38 x 114mm Bearers in lengths exceeding 2.4m and not exceeding 4.8m	m	1		
22	38 x 152mm Bearers in lengths exceeding 6,6m	m	1		
23	38 x 114mm Bolted roof truss members in lengths not exceeding 2,4m	m	1		
24	38 x 114mm Bolted roof truss members in lengths exceeding 2.4m and not exceeding 4.8m	m	1		
25	38 x 152mm Bolted roof truss members in lengths exceeding 6,6m	m	1		
26	38 x 114mm Valley boards	m	1		
27	38 x 228mm Gangboards	m	1		
	<u>Wrought laminated Saligna</u>				
28	32 x 300mm Bearers bolted to walls etc	m	1		
29	32 x 300mm Bolted beams	m	1		
30	32 x 300mm Bolted beams in single lengths exceeding 13m and not exceeding 18m	m	1		
	<u>Sundries</u>				
31	Wrought faces on sawn timbers	m ²	1		
32	Two coats creosote on sawn timbers	m ²	1		
33	500mm Long wrought end to 38 x 114mm sawn timber	No	1		
34	500mm Long wrought and shaped end to 38 x 114mm sawn timber	No	1		
35	60mm Diameter Bulldog double-sided timber connector	No	1		
36	80mm Diameter split ring timber connector including grooves in timber	No	1		
	Carried to Collection			R	
	Section No. 9				
	Bill No. 1				
	Carpentry And Joinery				

		Unit	Quantity	Rate	Amount
37	33 x 33mm Type L hurricane fastener including 100mm bolts with nuts and washers	No	1		
38	4mm Diameter galvanised wire tie 1200mm girth, wrapped around rafter and purlin with ends twisted together	No	1		
39	40 x 1.6mm Galvanised hoop iron roof tie 1200m girth with both ends fixed to timber	No	1		
<u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u>					
<u>SUPPLEMENTARY PREAMBLES</u>					
Trusses are at maximum 900mm centres					
Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences					
<u>Sawn softwood grade 6</u>					
40	38 x 38mm Battening at 760mm centres for roof covering	m ²	1		
41	38 x 114mm Wall plates	m	1		
42	38 x 114mm Longitudinal bracing	m	1		
43	38 x 114mm Cross bracing	m	1		
44	38 x 76mm Purlins	m	1		
<u>ROOF BOARDING</u>					
<u>Sawn softwood</u>					
45	22mm Tongued and grooved roof boarding in 100mm widths	m ²	1		
46	22 x 106mm Valley or gutter boarding	m ²	1		
47	22mm Boarding to tank stands	m ²	1		
48	22 x 10mm Edge strips to tank stand boarding	m	1		
49	Extra over roof boarding for 600 x 600mm trapdoor including 22 x 68mm trimmers and 10 x 19mm cover strips	No	1		
<u>EAVES, VERGES, ETC</u>					
<u>Sawn softwood</u>					
50	Slatted eaves soffit covering of 25 x 50mm wide slats at 60mm centres	m ²	1		
Carried to Collection				R	
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Carpentry And Joinery					

		Unit	Quantity	Rate	Amount
51	Slatted verge soffit covering of 25 x 50mm wide slats at 60mm centres	m ²	1		
52	Eaves soffit covering of 22mm tongued and grooved boarding in 100mm widths	m ²	1		
53	Verge soffit covering of 22mm tongued and grooved boarding in 100mm widths	m ²	1		
54	38 x 38mm Branders	m	1		
55	38 x 50mm Branders wrought on one face	m	1		
56	38 x 114mm Bearers in lengths not exceeding 2,4m	m	1		
57	38 x 114mm Hangers in short lengths	m	1		
58	19mm Quadrant beads	m	1		
59	10 x 19mm Beads	m	1		
60	19mm Half round cover strips	m	1		
61	32 x 222mm Fascias and barge boards	m	1		
<u>Wrought softwood</u>					
62	Slatted eaves soffit covering of 22 x 44mm wide slats at 50mm centres	m ²	1		
63	Slatted verge soffit covering of 22 x 44mm wide slats at 50mm centres	m ²	1		
64	Eaves soffit covering of 22mm tongued and grooved boarding in 100mm widths	m ²	1		
65	Verge soffit covering of 22mm tongued and grooved boarding in 100mm widths	m ²	1		
66	32 x 32mm Branders	m	1		
67	32 x 32mm Branders wrought on one face	m	1		
68	32 x 32mm Bearers in lengths not exceeding 2,4m	m	1		
69	32 x 32mm Hangers in short lengths	m	1		
70	19mm Quadrant beads	m	1		
71	19 x 19mm Beads	m	1		
72	19mm Half round cover strips	m	1		
73	32 x 222mm Fascias and barge boards	m	1		
Carried to Collection				R	
Section No. 9					
Bill No. 1					
Carpentry And Joinery					

		Unit	Quantity	Rate	Amount
	<u>Medium density plain fibre-cement flat sheets</u>				
74	6mm Eaves soffit covering (brandering elsewhere)	m ²	1		
75	6mm Eaves soffit covering including 38 x 38mm sawn softwood branders along edges, along centre and at 450mm centres across sheets	m ²	1		
76	6mm Verge soffit covering (brandering elsewhere)	m ²	1		
77	6mm Verge soffit covering including 38 x 38mm sawn softwood branders along edges and at 450mm centres across sheets	m ²	1		
	<u>High density plain fibre-cement fascias and barge boards</u>				
78	10 x 228mm Fascias and barge boards, including galvanised steel, plastic or aluminium H-profile jointing strips	m	1		
79	12 x 228mm Grooved fascias and barge boards, including galvanised steel, plastic or aluminium H-profile jointing strips	m	1		
	<u>Fibre-cement socketless or socketed barge boards</u>				
80	10 x 228mm Barge boards, including aluminium H-profile jointing strips etc	m	1		
81	Extra over 10 x 228mm socketed barge board for standard curved end (up)	No	1		
82	Extra over 10 x 228mm socketed barge board for standard curved end (down)	No	1		
	<u>FLOORS</u>				
	<u>Sawn softwood</u>				
83	38 x 38mm Floor battens wired to concrete with 4mm diameter galvanised wire ties at not exceeding 450mm centres, each tie bent double, embedded in concrete, bound around batten and twisted together including saw cuts in batten for same	m	1		
84	38 x 152mm Floor joists in lengths not exceeding 2,4m	m	1		
85	38 x 152mm Floor joists in lengths exceeding 2.4m and not exceeding 4.8m	m	1		
86	50 x 152mm Floor joists in lengths exceeding 6,6m	m	1		
87	38 x 114mm Bearers in lengths not exceeding 2,4m	m	1		
	Carried to Collection			R	
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	Carpentry And Joinery				

		Unit	Quantity	Rate	Amount
88	38 x 114mm Bearers in lengths exceeding 2.4m and not exceeding 4.8m	m	1		
89	38 x 114mm Bearers in lengths exceeding 6,6m	m	1		
	<u>Wrought saligna</u>				
90	Flooring of 19mm tongued and grooved boarding in 100mm widths	m ²	1		
91	Circular cutting	m	1		
92	38 x 114mm Risers with rebated top edge let into and including groove in treads	m	1		
93	38 x 114mm Treads with rounded front edge	m	1		
94	Extra over flooring for 600 x 600mm trapdoor with 32 x 44mm framing and 32 x 32mm rebated trimmers all round	No	1		
	<u>Wrought meranti</u>				
95	Flooring of 19mm tongued and grooved boarding in 100mm widths	m ²	1		
96	Circular cutting	m	1		
97	38 x 152mm Risers with rebated top edge let into and including groove in treads	m	1		
98	38 x 152mm Treads with rounded front edge	m	1		
99	Extra over flooring for 600 x 600mm trapdoor with 32 x 44mm framing and 32 x 32mm rebated trimmers all round	No	1		
	<u>SKIRTINGS</u>				
	<u>Wrought softwood</u>				
100	19 x 44mm Skirtings	m	1		
101	19 x 44mm Skirtings, nailed	m	1		
102	19 x 44mm Skirtings, plugged	m	1		
103	19 x 44mm Skirtings stepped over treads and risers of stairs, nailed	m	1		
104	19 x 44mm Skirtings stepped over treads and risers of stairs, plugged	m	1		
105	19mm Raking skirtings 44mm high extreme with bottom edge cut and fitted over treads and risers of stairs, plugged	m	1		
	Carried to Collection			R	
	Section No. 9				
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	Carpentry And Joinery				

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		Unit	Quantity	Rate	Amount
119	Fanlight 900 x 300mm high of 44mm wide frame and mullion, in two panes, rebated all round including 10 x 10mm glazing beads	No	1		
	<u>Wrought meranti fanlights hung to steel frames</u>				
120	Fanlight 900 x 300mm high of 44mm wide frame, in single pane, rebated all round including 10 x 10mm glazing beads	No	1		
121	Fanlight 900 x 300mm high of 44mm wide frame and mullion, in two panes, rebated all round including 10 x 10mm glazing beads	No	1		
	<u>Wrought hardwood doors</u>				
122	44mm Sash door 813 x 2032mm high of 22mm wide top rail and stiles and 108mm wide bottom rail, in single pane, rebated all round including 10 x 10mm glazing beads	No	1		
123	44mm Sash door 813 x 2032mm high of 22mm wide top rail, middle rail and stiles and 108mm wide bottom rail, in two panes, rebated all round including 10 x 10mm glazing beads	No	1		
124	44mm Sash double door 1626 x 2032mm high with rebated or flush meeting stiles, each leaf of 22mm wide top rail and stiles and 108mm wide bottom rail, in single pane, rebated all round including 10 x 10mm glazing beads	No	1		
125	44mm Batten door 813 x 2032mm high of 22 x 108mm top, middle and bottom ledges and braces and covered with 22mm tongued and grooved V-jointed one side vertical boarding	No	1		
126	44mm Framed and ledged batten door 813 x 2032mm high of 222mm wide top rail and stiles, 22 x 108mm middle ledge and 22 x 222mm bottom ledge, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint	No	1		
Carried to Collection				R	
Section No. 9					
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Carpentry And Joinery					

		Unit	Quantity	Rate	Amount
127	44mm Framed, ledged and braced batten door 813 x 2032mm high of 222mm wide top rail and stiles, 22 x 108mm middle ledge and braces and 22 x 222mm bottom ledge, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint and provided with 19 x 76mm rebated, splayed and grooved weather board fixed in groove near bottom edge	No	1		
128	44mm Framed, ledged and braced batten double door 1626 x 2032mm high with rebated or flush meeting stiles, each leaf of 222mm wide top rail and stiles, 22 x 108mm middle ledge and braces and 44 x 108mm bottom ledge, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint and provided with 19 x 76mm rebated, splayed and grooved weather board fixed in groove near bottom edge	No	1		
129	44mm Framed, ledged and braced batten door 813 x 2032mm high of 222mm wide top rail and stiles, 22 x 108mm middle ledge and braces and 22 x 222mm bottom ledge, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-jointed and covered at back with 3mm plywood with matching veneer, let into and including rebates all round	No	1		
130	44mm Single panel door 813 x 2032mm high of 222mm wide top rail and stiles, 222mm wide bottom rail and 22 x 108mm middle ledge, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to rails and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint	No	1		
131	44mm Single panel stable door 813 x 2032mm high with rebated meeting rails, each leaf of 44 x 108mm wide top rail, stiles and bottom rail and 44 x 108mm brace, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to rails and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint	No	1		
Carried to Collection				R	
Section No. 9					
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Carpentry And Joinery					

		Unit	Quantity	Rate	Amount
132	44mm Single panel double door 1626 x 2032mm high with rebated or flush meeting stiles, each leaf of 22 x 222mm wide top rail and stiles, 22 x 222mm bottom rail and 22 x 108mm middle ledge and brace, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to rails and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint	No	1		
133	44mm Two panel door 813 x 2032mm high with 22 x 222mm wide top rail, middle rail and stiles, 108mm wide bottom rail and 22mm thick raised and fielded both sides panels	No	1		
134	44mm Two panel double door 1626 x 2032mm high, with rebated or flush meeting stiles, each leaf with 22 x 222mm wide top rail, middle rail and stiles, 108mm wide bottom rail and 22mm thick raised and fielded both sides panels	No	1		
<u>Wrought meranti doors hung to steel frames</u>					
135	44mm Sash door 813 x 2032mm high of 22mm wide top rail and stiles and 108mm wide bottom rail, in single pane, rebated all round including 10 x 10mm glazing beads	No	1		
136	44mm Sash door 813 x 2032mm high of 22mm wide top rail, middle rail and stiles and 108mm wide bottom rail, in two panes, rebated all round including 10 x 10mm glazing beads	No	1		
137	44mm Sash double door 1626 x 2032mm high with rebated or flush meeting stiles, each leaf of 222mm wide top rail and stiles and 222mm wide bottom rail, in single pane, rebated all round including 10 x 10mm glazing beads	No	1		
138	44mm Batten door 813 x 2032mm high of 22 x 108mm top, middle and bottom ledges and braces and covered with 22mm tongued and grooved V-jointed one side vertical boarding	No	1		
139	44mm Framed and ledged batten door 813 x 2032mm high of 222mm wide top rail and stiles, 22 x 222mm middle ledge and 22 x 222mm bottom ledge, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint	No	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
140	44mm Framed, ledged and braced batten door 813 x 2032mm high of 22 x 222mm high of 222mm wide top rail and stiles, 22 x 108mm middle ledge and braces and 22 x 222mm bottom ledge, filled in with 222mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint and provided with 10 x 10mm rebated, splayed and grooved weather board fixed in groove near bottom edge	No	1		
141	44mm Framed, ledged and braced batten double door 813 x 2032mm high with rebated or flush meeting stiles, each leaf of 222mm wide top rail and stiles, 22 x 222mm middle ledge and braces and 22 x 222mm bottom ledge, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint and provided with 10 x 76mm rebated, splayed and grooved weather board fixed in groove near bottom edge	No	1		
142	44mm Single panel door 813 x 2032mm high of 222mm wide top rail and stiles, 222mm wide bottom rail and 22 x 108mm middle ledge, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to rails and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint	No	1		
143	44mm Single panel door 813 x 2032mm high with 222mm wide top rail and stiles, 222 mm wide bottom rail and 22 x 108mm middle ledge and braces, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to rails and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint	No	1		
144	44mm Framed, ledged and braced batten door 813 x 2032mm high of 222mm wide top rail and stiles, 22 x 108mm middle ledge and braces and 22 x 108mm bottom ledge, filled in with ?mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-jointed and covered at back with 10mm plywood with matching veneer, let into and including rebates all round	No	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
145	44mm Single panel stable door 813 x 2032mm high with rebated meeting rails, each leaf of 222mm wide top rail, stiles and bottom rail and 22 x 108mm brace, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to rails and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint	No	1		
146	44mm Single panel double door 813 x 2032mm high with rebated or flush meeting stiles, each leaf of 222mm wide top rail and stiles, 22 x 222mm bottom rail and 22 x 108mm middle ledge and brace, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to rails and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint	No	1		
147	44mm Two panel door 813 x 2032mm high with 222mm wide top rail, middle rail and stiles, 222mm wide bottom rail and 22mm thick raised and fielded both sides panels	No	1		
148	44mm Two panel double door 1626 x 2032mm high, with rebated or flush meeting stiles, each leaf with 222mm wide top rail, middle rail and stiles, 222mm wide bottom rail and 22mm thick raised and fielded both sides	No	1		
	<u>Hollow core flush doors with 3,2mm plain hardboard covering on both sides, hung to steel frames</u>				
149	40mm Door 813 x 2032mm high	No	1		
150	40mm Double door 1512 x 2032mm high in equal leaves, with rebated or flush meeting edges	No	1		
151	40mm Double door 1626 x 2032mm high in equal leaves, with rebated or flush meeting edges	No	1		
152	40mm Purpose made double door 1300 x 2032mm high in equal leaves with rebated or flush meeting edges	No	1		
153	40mm Double door 1626 x 2032mm high in equal leaves with rounded vertical edges	No	1		
154	40mm Door 1626 x 2400mm high with framed 600 x 600mm opening fitted with 10 x 10mm wrought meranti glazing beads on both sides	No	1		
155	40mm Double door 1626 x 2032mm high with rebated or flush meeting edges, each leaf with 600 x 600mm framed opening fitted with 10 x 10mm wrought meranti glazing beads on both sides	No	1		
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		Unit	Quantity	Rate	Amount
156	Extra over for 600 x 600mm framed opening for metal louvre unit (louvre unit elsewhere)	No	1		
157	Wrought meranti doors	No	1		
158	Solid glazed door 813 x 2032mm high	No	1		
159	Semi-solid batten door 813 x 2032mm high	No	1		
160	Semi-solid panel door 813 x 2032mm high	No	1		
	<u>40mm hollow core flush doors with commercial veneer</u>				
161	40mm Door 813 x 2032mm high	No	1		
162	40mm Double door 1626 x 2032mm high with rebated or flush meeting edges	No	1		
163	40mm Double door 1626 x 2032mm high with rounded vertical edges	No	1		
164	40mm Double door 1626 x 2032mm high with 800mm and 600mm wide unequal leaves, with rebated or flush meeting edges	No	1		
165	40mm Door 813 x 2032mm high with 600 x 600mm framed opening fitted with 10 x 10mm wrought meranti glazing beads on both sides	No	1		
166	40mm Double door 1626 x 2032mm high with rebated or flush meeting edges, each leaf with 600 x 600mm framed opening fitted with 10 x 10mm wrought meranti glazing beads on both sides	No	1		
167	Extra over for 600 x 600mm framed opening for metal louvre unit (louvre unit elsewhere)	No	1		
	<u>WINDOWS</u>				
	<u>Wrought hardwood windows</u>				
168	Window 1000 x 1000mm high	m ²	1		
	<u>LININGS, POSTS, ETC</u>				
	<u>Wrought meranti</u>				
169	44 x 44mm Linings	m	1		
170	44 x 70mm Rebated linings	m	1		
171	22 x 150mm Rebated and housed linings	m	1		
172	22 x 150mm Rebated and housed linings, plugged	m	1		
173	44 x 44mm Posts	m	1		
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		Unit	Quantity	Rate	Amount
174	44 x 70mm Posts, plugged	m	1		
175	44 x 70mm Posts, bolted	m	1		
176	44 x 108mm Rebated posts	m	1		
177	44 x 108mm Rebated posts, plugged	m	1		
178	44 x 108mm Rebated posts, bolted	m	1		
	<u>FRAMED FRAMES, MULLIONS, TRANSOMS, ETC</u>				
	<u>Wrought meranti</u>				
179	68 x 106mm Frames	m	1		
180	68 x 106mm Rebated and angle rounded frames	m	1		
181	68 x 106mm Twice rebated and splayed transoms	m	1		
182	68 x 106mm Twice rebated and twice angle rounded mullions	m	1		
183	68 x 106mm Rebated frame for 813 x 2032mm high door	No	1		
184	68 x 106mm Rebated and angle rounded frame for 1613 x 2032mm high door	No	1		
	<u>BEADS, ARCHITRAVES, SILLS, ETC</u>				
	<u>Wrought meranti</u>				
185	10 x 10mm Glazing beads	m	1		
186	19 x 19mm Splayed glazing beads	m	1		
187	22 x 22mm Twice angle rounded glazing beads	m	1		
188	22 x 22mm Beads	m	1		
189	19mm Quadrant beads	m	1		
190	19mm Half round beads	m	1		
191	19 x 100mm Architraves	m	1		
192	19 x 100mm Architraves, plugged	m	1		
193	19 x 100mm Splayed and angle rounded architraves	m	1		
194	19 x 100mm Splayed and angle rounded architraves, plugged	m	1		
195	19 x 150mm Window sills	m	1		
196	19 x 150mm Window sills, plugged	m	1		
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		Unit	Quantity	Rate	Amount
197	19 x 180mm Splay rebated, angle rounded and grooved window sills	m	1		
	<u>JOINERY SUNDRIES</u>				
	<u>Wrought meranti</u>				
198	Slatted shelving, seats, etc of 50 x 22mm wide slats at 70mm centres	m ²	1		
199	Slatted shelving, seats, etc of 50 x 22mm wide slats at 70mm centres, screwed to steel framing including holes	m ²	1		
200	38 x 38mm Bearers, nailed	m	1		
201	38 x 38mm Bearers, plugged	m	1		
202	38 x 38mm Bearers, bolted	m	1		
203	19 x 76mm Hat and coat rails, nailed	m	1		
204	19 x 76mm Hat and coat rails, plugged	m	1		
205	19 x 76mm Twice angle rounded handrails	m	1		
206	Extra over for twice angle rounded returned end	No	1		
	<u>NOTICEBOARDS, KEYBOARDS, ETC</u>				
	<u>Softboard</u>				
207	12mm Pinning boards glued to plastered walls	m ²	1		
	<u>Interior quality particle board</u>				
208	12mm Backboards	m ²	1		
209	12mm Backboards in 600mm widths plugged	m ²	1		
	<u>Foam backed polypropylene pinning boards</u>				
210	10mm Pinning boards in 600mm widths glued to backboards	m ²	1		
211	10mm Pinning boards in 600mm widths glued to plastered walls	m ²	1		
212	10mm Pinning board 900 x 900mm high glued to backboard	No	1		
213	10mm Pinning board 1200 x 900mm high glued to plastered walls	No	1		
	<u>HANDRAILS, ETC.</u>				
214	68 x 45mm Grooved and twice angle rounded wrought meranti handrails	m	1		
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	Unit	Quantity	Rate	Amount
<u>FITTINGS</u>				
<u>FITTINGS: CUPBOARDS TO KITCHENS, ETC</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
General				
The following cupboard fittings are given as complete units i.e. the components of the units have not been given separately. Descriptions of such units shall, therefore, be deemed to include all components, assembling, housing, notching, glueing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or varnish finishes, etc.				
Prices are to include for all necessary filler pieces against walls etc				
<u>Kitchen cupboards with 'Gelmar' full overlay hinges, aluminium handles and approved telescopic drawer slides</u>				
215	Kitchen wall cupboard 1200 x 600 x 900mm high with top, sides, bottom, division, shelf, back and double hinged doors	No	1	
216	Kitchen floor cupboard 2000 x 600 x 900mm high with top, sides, bottom, division, shelf, back and double hinged doors, necessary framework and two drawers	No	1	
217	Kitchen sink cupboard 1200 x 600 x 900mm high with sides, bottom, divisions, shelf, back and double hinged doors (sink elsewhere)	No	1	
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SECTION NO.10
CEILINGS AND PARTITIONING

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<u>CEILINGS AND PARTITIONING</u>				
<u>BILL NO. 1</u>				
<u>CEILINGS PARTITIONS AND ACCESS FLOORING</u>				
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>				
<u>Non-combustible fibreglass insulation of density of not less than 10kg/m3 bonded with an inert thermo-setting resin</u>				
1 40mm Insulation in blanket form closely fitted and laid on top of brandering between roof timbers etc	m ²	1		
<u>NAILED-UP CEILINGS</u>				
<u>6,4mm Gypsum plasterboard</u>				
2 Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres and cross brandering at 600mm centres	m ²	1		
<u>9,5mm Gypsum plasterboard on screw-up tee suspension grid including hangers etc, with tape fixed over joints and the whole finished with gypsum plaster trowelled to a smooth polished</u>				
3 Ceilings including standard steel brandering a 300mm centres in one direction only, joined with joiner sections and hung with suspension brackets including standard steel perimeter angles fixed to walls etc	m ²	1		
4 Horizontal portion of bulkhead 300mm wide including standard steel brandering at 600mm centres, joined with suspension brackets	m	1		
5 Extra over ceiling for 600 x 600 x 6mm thick pressed steel trap door, hinged to open 180 degrees onto ceiling, T-section steel frame	No	1		
6 Opening for 50mm diameter downlighter	No	1		
<u>Gypsum plasterboard cornices</u>				
7 75mm Coved cornices, plugged	m	1		
8 Polystyrene coved or moulded cornices fixed with approved adhesive	m	1		
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Ceilings Partitions And Access Flooring				

		Unit	Quantity	Rate	Amount
<u>SUSPENDED CEILINGS</u>					
<u>1200 x 600 x 3mm pre-painted acoustic panels on exposed suspension grid system including hangers, necessary hold-down clips and wedges, etc</u>					
9	Ceilings suspended exceeding 1m not exceeding 1.5m below concrete soffits	m ²	1		
<u>Cornices ,egdes trims,etc</u>					
10	SM 25 -section plaster trim fixed at 200mm centres	m	1		
<u>DRYWALL PARTITIONS</u>					
<u>Partitions consisting of 92mm galvanised steel studs at 610mm centres as vertical support secured in matching galvanised steel floor and ceiling channels, clad on one or both sides as described, including additional studs as necessary at abutments, ends, etc. Board cladding shall be fixed and jointed in strict accordance with the manufacturer's instructions</u>					
11	Partitions 2,7m high with bottom and top tracks plugged	m	1		
12	Partitions 2,7m high with bottom track plugged and top track fixed to suspended ceiling tees	m	1		
13	Partitions 2,7m high with top and bottom tracks plugged, with lower section solid 1,2m high and upper section 900mm high framed all round with Drywall mill finished natural anodised aluminium glazing sections and divided into panels with aluminium mullions at 900mm centres, with each panel glazed with 6mm clear float glass including neoprene glazing gaskets	m	1		
14	Extra over partition 2,7m high for vertical abutment	No	1		
15	Extra over partition 2,7m high for corner	No	1		
16	Extra over partition 2,7m high for irregular corner	No	1		
17	Extra over partition 2,7m high for T-intersection	No	1		
18	Extra over partition 2,7m high for fair end	No	1		
<u>Extra over 76mm partitions for 40mm semi-solid flush doors with veneer on both sides and hardwood edge strips to vertical edges, hung to and including standard pressed steel door frame with one pair of 100mm steel hinges to each hanging stile, including additional studding, trimming, etc. to partitions</u>					
19	Door 813 x 2032mm high including two lever lockset	No	1		
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Ceilings Partitions And Access Flooring					

		Unit	Quantity	Rate	Amount
20	Door 813 x 2032mm high with 300 x 300mm opening for louvre unit including two lever lockset	No	1		
21	Double door 1600 x 2032mm high including two barrel bolts and two lever lockset	No	1		
<u>TOILET CUBICLES</u>					
<u>"Cubicle Solutions - Cube Exclusive Range"</u>					
<u>waterproof toilet partitioning with 12mm thick high pressure laminate faced particle board bonded panels in standard colour range (code : CSCHPLCSO/CSPERSCO) and stainless steel overhead brace and hanging clamps (code : CS13HNGBRKT) secured to floor with adjustable supporting feet (code : CS13FT150) and bracketed to walls etc. with stainless steel brackets (code : CS3X10HLCRNBKT) including all stainless steel 304 and 316 fixing components and standard ironmongery comprising indicator bolts (code : CS16INDBLT), hat and coat hooks (code CSH&CHK) with rubber buffer and rising and falling butts (code : CSHNGCHPL/CAP) and corner shelf</u>					
22	Partition 800 x 1800mm high	No	1		
23	Partition 1000 x 1800mm high	No	1		
24	Full stile 230 x 1850mm high	No	1		
25	End stile 150 x 1850mm high	No	1		
26	Wall stile 115 x 1850mm high	No	1		
27	Door 760 x 1800mm high set on standard aluminium hinges	No	1		
28	Door 850 x 1800mm high set on standard aluminium hinges	No	1		
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SECTION NO.11
FLOOR COVERINGS

	Unit	Quantity	Rate	Amount
<u>SECTION NO.11</u>				
<u>FLOOR COVERINGS</u>				
<u>BILL NO. 1</u>				
<u>FLOOR COVERINGS</u>				
<u>FLOOR COVERINGS, WALL LININGS, ETC</u>				
<u>Fixing</u>				
Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc				
<u>FLOOR COVERINGS</u>				
<u>300 x 300 x 1,6mm Semi flexible vinyl tiles</u>				
1 On floors	m ²	1		
2 On dished floors	m ²	1		
3 On treads and risers of stepped floors	m ²	1		
4 On treads and risers of stairs	m ²	1		
5 On treads and risers of winding stairs	m ²	1		
6 Circular cutting	m	1		
7 Margins not exceeding 500mm wide	m	1		
8 Margins not exceeding 500mm wide circular on plan including circular cutting to floor covering on one side	m	1		
9 Turn-ups over coves and up against walls not exceeding 500mm girth	m	1		
10 300mm Wide x 175mm high combined tread and riser covering	m	1		
<u>300 x 300 x 2,5mm Fully flexible vinyl tiles</u>				
11 On floors	m ²	1		
12 On dished floors	m ²	1		
13 On treads and risers of stepped floors	m ²	1		
14 On treads and risers of stairs	m ²	1		
15 On treads and risers of winding stairs	m ²	1		
16 Circular cutting	m	1		
17 Borders not exceeding 500mm wide	m	1		
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Floor Coverings				

		Unit	Quantity	Rate	Amount
18	Borders not exceeding 500mm wide circular on plan including circular cutting to floor covering on both sides	m	1		
19	Turn-ups over coves and up against walls not exceeding 500mm girth	m	1		
20	300mm Wide x 175mm high combined tread and riser covering	m	1		
	<u>300 x 300 x 2.5mm Heavy duty vinyl tiles</u>				
21	On floors	m ²	1		
22	On dished floors	m ²	1		
23	On treads and risers of stepped floors	m ²	1		
24	On treads and risers of stairs	m ²	1		
25	On treads and risers of winding stairs	m ²	1		
26	Circular cutting	m	1		
27	Margins not exceeding 500mm wide	m	1		
28	Margins not exceeding 500mm wide circular on plan including circular cutting to floor covering on both sides	m	1		
29	Turn-ups over coves and up against walls not exceeding 500mm girth	m	1		
30	300mm Wide x 175mm high combined tread and riser covering	m	1		
	<u>184 x 1220 x 4mm "Gerflor Senso Premium Easy 0506 Rosebud Pearl" or other equal and approved woodplank vinyl tiles</u>				
31	On floors	m ²	1		
32	On dished floors	m ²	1		
33	On treads and risers of stepped floors	m ²	1		
34	On treads and risers of stairs	m ²	1		
35	On treads and risers of winding stairs	m ²	1		
36	Circular cutting	m	1		
37	Borders not exceeding 500mm wide	m	1		
38	Borders not exceeding 500mm wide circular on plan including circular cutting to floor covering on one side	m	1		
39	Turn-ups over coves and up against walls not exceeding 500mm girth	m	1		
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	Floor Coverings				

		Unit	Quantity	Rate	Amount
40	275mm Wide x 175mm high combined tread and riser covering	m	1		
	<u>2.5mm "FlorworX Superflex" or other equal and approved fully flexible sheeting with welded joints</u> 2.5mm Thick x 1200mm wide "Superflex" fully-flexible vinyl sheeting manufactured in accordance with SANS 786 and laid in "FloorworX No. 62" acrylic adhesive which has been spread using a "TKB-A2" notch trowel fitted at a rate of between 5.5m ² and 6.5m ² per litre or "FloorworX No.71" contact adhesive spread using a flat trowel, brush or paint roller at a rate of approximately 3,5m ² per litre (single surface application), on a previously prepared Class 1 sub-floor in accordance with SANS 10070, using a reliable Self-Leveller when required, including all cutting and waste. The sheeting must be rolled in both directions with an articulated 68kg three-sectional roller immediately after it has been laid into the adhesive. Joins must be butted, grooved and heat welded using FloorworX Welding Rod, ensuring that the welding rod bonds to more than 70% of the sheet thickness. The newly laid floor must, after 48 hours, be cleaned (stripped) using FloorworX Stripper, scrubbed using a diluted solution of FloorworX Rinse and then coated (sealed) with 3 coats of FloorworX Sealer.				
41	On floors	m ²	1		
42	On dished floors	m ²	1		
43	On treads and risers of stepped floors	m ²	1		
44	On treads and risers of stairs	m ²	1		
45	On treads and risers of winding stairs	m ²	1		
46	Circular cutting	m	1		
47	Margins not exceeding 500mm wide	m	1		
48	Margins not exceeding 500mm wide circular on plan including circular cutting to floor covering on both sides	m	1		
49	Turn-ups over coves and up against walls not exceeding 500mm girth	m	1		
50	275mm Wide x 175mm high combined tread and riser covering	m	1		
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		Unit	Quantity	Rate	Amount
	<u>2mm "FlorworX Marmoleum" or other equal and approved linoleum sheeting with welded joints</u>				
	2mm "FlorworX Marmoleum" linoleum sheeting with "Topshield 2" surface treatment manufactured in accordance with EN548 and laid in "FlorworX No.65" acrylic adhesive using a notched trowel at a rate of 3,2 to 4m2 per litre :				
51	On floors	m ²	1		
52	On dished floors	m ²	1		
53	On treads and risers of stepped floors	m ²	1		
54	On treads and risers of stairs	m ²	1		
55	On treads and risers of winding stairs	m ²	1		
56	Circular cutting	m	1		
57	Margins not exceeding 500mm wide	m	1		
58	Margins not exceeding 500mm wide circular on plan including circular cutting to floor covering on one side	m	1		
59	Turn-ups over coves and up against walls not exceeding 500mm girth	m	1		
60	275mm Wide x 175mm high combined tread and riser covering	m	1		
	<u>4.5mm Thick "Gerflor Recreation 45 Flooring - supplier - Sports Flooring Warehouse" synthetic sports flooring</u>				
61	On floors	m ²	1		
62	On dished floors	m ²	1		
63	On treads and risers of stepped floors	m ²	1		
64	On treads and risers of stairs	m ²	1		
65	On treads and risers of winding stairs	m ²	1		
66	Circular cutting	m	1		
67	Margins not exceeding 500mm wide	m	1		
68	Borders not exceeding 500mm wide circular on plan including circular cutting to floor covering on both sides	m	1		
69	Turn-ups over coves and up against walls not exceeding 500mm girth	m	1		
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	Floor Coverings				

		Unit	Quantity	Rate	Amount
70	275mm Wide x 175mm high combined tread and riser covering	m	1		
	<u>40mm Thick "Arturf Africa" or other equal and approved synthetic turf</u>				
71	On floors	m ²	1		
	<u>4mm Thick "Nexus SPORTEC" or other equal and approved recycled rubber flooring laid by an approved applicator</u>				
72	On floors	m ²	1		
73	On dished floors	m ²	1		
74	On treads and risers of stepped floors	m ²	1		
75	On treads and risers of stairs	m ²	1		
76	On treads and risers of winding stairs	m ²	1		
77	Circular cutting	m	1		
78	Margins not exceeding 500mm wide	m	1		
79	Margins not exceeding 500mm wide circular on plan including circular cutting to floor covering on one side	m	1		
80	Turn-ups over coves and up against walls not exceeding 500mm girth	m	1		
81	275mm Wide x 175mm high combined tread and riser covering	m	1		
	<u>500 x 500mm "Belgotex Berber Point 920" or other equal and approved fibrebonded polypropylene carpet tiles</u>				
82	On floors	m ²	1		
83	On dished floors	m ²	1		
84	On treads and risers of stepped floors	m ²	1		
85	On treads and risers of stairs	m ²	1		
86	On treads and risers of winding stairs	m ²	1		
87	Circular cutting	m	1		
88	Margins not exceeding 500mm wide	m	1		
89	Border not exceeding 500mm wide circular on plan including circular cutting to floor covering on one side	m	1		
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		Unit	Quantity	Rate	Amount
90	Turn-ups over coves and up against walls not exceeding 500mm girth	m	1		
91	275mm Wide x 175mm high combined tread and riser covering	m	1		
	<u>500 x 500mm "Belgotex Aviator" or other equal and approved tufted multi-scroll loop pile 100% stainproof SDX heavy duty commercial carpet tiles</u>				
92	On floors	m ²	1		
93	On dished floors	m ²	1		
94	On treads and risers of stepped floors	m ²	1		
95	On treads and risers of stairs	m ²	1		
96	On treads and risers of winding stairs	m ²	1		
97	Circular cutting	m	1		
98	Margins not exceeding 500mm wide	m	1		
99	Margins not exceeding 500mm wide circular on plan including circular cutting to floor covering on one side	m	1		
100	Turn-ups over coves and up against walls not exceeding 500mm girth	m	1		
101	275mm Wide x 175mm high combined tread and riser covering	m	1		
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		Unit	Quantity	Rate	Amount
<u>WALL LININGS</u>					
<u>2.5mm "FlorworX Superflex" or other equal and approved fully flexible vinyl sheeting with welded joints</u>					
2.5mm Thick x 1.2m wide Superflex fully-flexible vinyl sheeting manufactured in accordance with SANS 786 and laid in FloorworX No. 62 acrylic adhesive which has been spread using a TKB-A2 notch trowel fitted at a rate of between 5.5m ² and 6.5m ² per litre or FloorworX No.71 contact adhesive spread using a flat trowel, brush or paint roller at a rate of approximately 3,5m ² per litre (single surface application), on a previously prepared Class 1 sub-floor in accordance with SANS 10070, using a reliable Self-Leveller when required, including all cutting and waste. The sheeting must be rolled in both directions with an articulated 68kg three-sectional roller immediately after it has been laid into the adhesive. Joins must be butted, grooved and heat welded using FloorworX Welding Rod, ensuring that the welding rod bonds to more than 70% of the sheet thickness. The newly laid sheeting must, after 48 hours, be cleaned (stripped) using FloorworX Stripper, scrubbed using a diluted solution of FloorworX Rinse and then coated (sealed) with 3 coats of FloorworX Sealer.					
102	On walls	m ²	1		
103	On circular walls	m ²	1		
104	Circular cutting	m	1		
<u>SKIRTINGS, NOSINGS, ETC</u>					
<u>"Gerflor Vynaflex" or other equal and approved skirtings, nosings, etc fixed to walls with a solvent-free contact adhesive :</u>					
105	60mm High vinyl skirtings	m	1		
106	60mm High vinyl skirtings stepped over treads and risers of stairs	m	1		
107	80mm High vinyl skirtings	m	1		
108	80mm High vinyl skirtings stepped over treads and risers of stairs	m	1		
109	100mm High vinyl skirtings	m	1		
110	100mm High vinyl skirtings stepped over treads and risers of stairs	m	1		
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IRONMONGERY

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<u>IRONMONGERY</u>					
<u>BILL NO. 1</u>					
<u>IRONMONGERY</u>					
<u>IRONMONGERY</u>					
<u>HINGES, BOLTS, ETC</u>					
<u>Approved heavy duty type:</u>					
1	50mm (Open) chromium plated piano hinges	m	1		
2	50mm (Open) brass piano hinges	m	1		
3	75mm Steel hinge	No	1		
4	100mm Steel rising hinge	No	1		
5	100mm Aluminium hinge with stainless steel washers	No	1		
6	100mm Brass hinge with nylon washers	No	1		
7	100mm Ball bearing brass hinge	No	1		
8	100 x 100mm Brass parliament hinge	No	1		
9	Satin chromium plated brass single action floor spring hinge with stand open feature, including adjustable top centre and with box let into concrete	No	1		
10	Satin chromium plated brass double action floor spring hinge without stand open feature, including adjustable top centre and with box let into concrete	No	1		
11	100mm Chromium plated brass barrel bolt	No	1		
12	100mm Chromium plated brass barrel bolt with keep fixed to metal	No	1		
13	100mm Chromium plated brass barrel bolt with keep let into concrete	No	1		
14	150mm Chromium plated brass necked barrel bolt	No	1		
15	8052-150NP Nickel plated flush bolt	No	1		
16	8052-150NP Nickel flush bolt with keep fixed to metal	No	1		
17	8052-150NP Nickel flush bolt with keep let into concrete	No	1		
18	CZ80941 Bathroom / WC indicator bolt	No	1		
19	CZ80941 Bathroom / WC indicator bolt with keep fixed to metal	No	1		
Carried to Collection				R	
Section No. 12					
Bill No. 1					
Ironmongery					

		Unit	Quantity	Rate	Amount
20	Assa Abloy CE853 PL Exisafe panic bolt for single door not exceeding 950mm wide	No	1		
21	Assa Abloy J883SIL push panic latch for double door not exceeding 900mm high with one keep let into concrete	No	1		
	<u>"Union" or other equal and approved :</u>				
22	50mm (Open) chromium plated piano hinges	m	1		
23	50mm (Open) brass piano hinges	m	1		
24	75mm Steel hinge	No	1		
25	100mm Steel rising hinge	No	1		
26	100mm Aluminium hinge with stainless steel washers	No	1		
27	100mm Brass hinge with nylon washers	No	1		
28	100mm Ball bearing brass hinge	No	1		
29	100 x 100mm Brass parliament hinge	No	1		
30	Satin chromium plated brass single action floor spring hinge without stand open feature, including adjustable top centre and with box let into concrete	No	1		
31	Satin chromium plated brass double action floor spring hinge without stand open feature, including adjustable top centre and with box let into concrete	No	1		
32	100mm Chromium plated brass barrel bolt	No	1		
33	100mm Chromium plated brass barrel bolt with keep fixed to metal	No	1		
34	100mm Chromium plated brass barrel bolt with keep let into concrete	No	1		
35	150mm Chromium plated brass necked barrel bolt	No	1		
36	Dorma DFB-SS-027/160mm Stainless steel flush bolt	No	1		
37	Dorma DFB-SS-027/300mm stainless flush bolt with keep fixed to metal	No	1		
38	Dorma DFB-SS-027/300mm stainless flush bolt with keep let into concrete	No	1		
39	CZ80941 Bathroom / WC indicator bolt	No	1		
40	CZ8094 Bathroom / WC indicator bolt with keep fixed to metal	No	1		
	Carried to Collection			R	
	Section No. 12				
	Bill No. 1				
	Ironmongery				

		Unit	Quantity	Rate	Amount
41	Assa Abloy CE853 Exisafe panic latch for single door not exceeding 900mm high	No	1		
42	Assa Abloy CE853 Exisafe panic bolt for single door not exceeding 900mm high with one keep let into concrete	No	1		
	<u>CATCHES, CABIN HOOKS, ETC</u>				
	<u>"Union" or other equal and approved :</u>				
43	100mm Cabin hook and eye	No	1		
44	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	1		
	<u>LOCKS</u>				
	Keys				
	Unless otherwise described locks shall have two keys each				
	<u>"Dorma" :</u>				
45	"Dorma DDC 106601 GMK" or equally approved 66mm ten pin Euro-profiled double cylinder Grand master key	No	1		
46	Dorma D037D SS" or equally approved single cylinder deadlock	No	1		
47	Dorma D037D SS" or equally approved double cylinder rebated deadlock	No	1		
	<u>"Union" or other equal and approved :</u>				
48	CZ682-24-52 Gower three - lever sliding door lock	No	1		
49	CZ682-24-61 four - lever sliding door lock	No	1		
50	CZ682-24-61 Gower four - lever rebated lockset	No	1		
51	Mortice latchset 2657-78 with Protea CB612-06SC	No	1		
52	2X18SCMKD Cylinder profile MKD	No	1		
53	2X19SCMKD Cylinder profile MKD	No	1		
54	SS2016SS Bathroom deadbolt	No	1		
55	L-2215-78SS/SL Union mortice sash lock	No	1		
56	Union L-2215-78SS/SL mortice sash lock SS and keep complete with double cylinder profile STD 2x18SC and pair of Dove lever handle furniture AL6D3-05AS on a plate profile	No	1		
	Carried to Collection			R	
	Section No. 12				
	Bill No. 1				
	Ironmongery				

		Unit	Quantity	Rate	Amount
57	Union L-2215-78SS euro-profile stainless steel cylinder deadlock 2x20SC profile KD with AL5066R-05AS push plate profile one side and AL5D66-06AS pull handle blank other	No	1		
58	Union L-2215-78SS euro-profile stainless steel cylinder deadlock 2x20SC profile KD with AL5066L-05AS push plate profile one side and AL5D66-06AS pull handle blank other	No	1		
59	Union L-2215-78SS euro-profile stainless steel cylinder deadlock 2x20SC profile KD with AL5066L-05AS plate profile one side and AL5D66-06AS pull handle blank other with a 2915SC rebated set SC for rebated folding door	No	1		
60	'Union CB682-24/2277-28 Gower' three lever stainless steel lockset	No	1		
61	'Union CB682-24/2277-28 Gower' three lever stainless steel lockset with 'Union 2979' satin chrome rebate conversion set.	No	1		
62	'Union CB682-24/2457-78' three lever stainless steel claw bolt sliding door lock	No	1		
63	Union 21314-76/5SS WC 5mm deadlock SS and keep complete with AL5804-73AS / ART 804C91 /CF WC thumb turn and indicator escutcheon	No	1		
64	'Union 3122-51' padlock	No	1		
65	PHD-CF-300-22SS Union stainless steel 300mm bolt through pull handle 22mm diameter with flange fixing	No	1		
66	Union 8052-150SC 150mm sunk barrel bolt with 8852SC dust proof keep let into timber frame or concrete floor	No	1		
67	Union 2BB ball bearing stainless steel butt hinge EN1935GRD13 -102 x 76mm hinge	No	1		
68	Union 37651AS facility indicator bolt	No	1		
69	SS5004-73SS Escutcheon on rose bathroom	No	1		
70	Master key	No	1		
	Sundries:				
71	'Kimberly-Clark code 329912' ABS plastic 800ml soap dispenser plugged.	No	1		
	Carried to Collection			R	
	Section No. 12				
	Bill No. 1				
	Ironmongery				

		Unit	Quantity	Rate	Amount
72	'Kimberly-Clark SE3 code 431999' three roll white enamel anti-theft toilet roll holder plugged.	No	1		
73	19mm Diameter chromium plated towel rail 900mm long including end brackets plugged.	No	1		
74	10mm Diameter steel dowel 150mm long in and including mortice in timber and brickwork or concrete.	No	1		
75	200mm Chromium plated cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	1		
76	"Franke Stratos" Single toilet roll holder model BS677, plugged	No	1		
77	Assa Abloy AL8722AS rubber tipped hat and coat hook	No	1		
78	Assa Abloy CZ8731CH door stop	No	1		
79	'Chairman Industries' stainless steel framed fold-up plastic shower seat fixed to brickwork.	No	1		
	<u>"Union" or other equal and approved:</u>				
80	'Union CZ8731SC' door stop	No	1		
81	'Union AL8722AS' rubber tipped hat and coat hook.	No	1		
	<u>HANDLES</u>				
	<u>Handles, etc</u>				
	<u>"Union" or other equal and approved :</u>				
82	'Union AL5D071AS' pull handle with plate holed for key	No	1		
83	'Union AL502AS' pull handle	No	1		
	<u>"Assa Abloy" or other equal and approved :</u>				
84	SS6166-05SS New handle on plate profile	No	1		
85	SS5515-150BBSS 150mm Pull handle back to back	No	1		
86	SS5D96-22-06 Stainless steel pull handle with 228 x 152mm plate	Pairs	1		
87	SS5515-150BBS 150mm pull handle back - to - back	Pairs	1		
88	Assa Abloy pull handles AL5515-300FLAS with flange set back to back through door	No	1		
89	Assa Abloy pull handles AL5515-111BBAS set back to back through door	No	1		
90	AL5A67-06 Sable anodised silver pull handle with 178 x 152 mm back plate	No	1		
	Carried to Collection			R	
	Section No. 12				
	Bill No. 1				
	Ironmongery				

		Unit	Quantity	Rate	Amount
91	AL5515-300BB Anodised silver pull handle set	No	1		
92	AL5D66-06 Anodise silver pull handle with 152 x 152mm back plates	No	1		
93	5920BB 600 x 32mm Sandpiper stainless steel pull handle set	Pairs	1		
<u>PUSH PLATES AND KICK PLATES</u>					
<u>Push Plates and Kicking Plates :</u>					
94	SS5089-200W Kick plate, size 200 x 800mm	No	1		
95	SS023-152 x 532 x 1.2mm SS stainless steel push plate	Item			
96	SS5089-200W Kick plate, 200 x 800mm	No	1		
97	813 x 300 x 2mm Thick satin finish stainless steel kick plate	No	1		
98	1300 x 300 x 2 mm Thick satin finish stainless steel Kick plate	No	1		
<u>"Assa Abloy" or other equal and approved :</u>					
99	5920BT 600 x 32mm Sandpiper stainless steel pull handle	No	1		
100	AL5023-608W 152 x 608 x 3mm AS aluminium push plate	No	1		
101	AL5023-228W 152 x 228 x 3mm AS aluminium push plate	No	1		
102	AL5023-988W 152 x 988 x 3mm AS aluminium push plate	No	1		
103	SS5023-228 152 x 228 1.2mm stainless steel push plate	No	1		
<u>DOOR CLOSERS</u>					
<u>"Assa Abloy" or other equal and approved :</u>					
104	DC500 Cam-Motion closer	No	1		
105	FD461 - DC700 Door closer	No	1		
106	DC700G-CM motion door closer with intergrated close motion	No	1		
107	DC200 R & P - EN2-4 SIL door closer complete with DC154-EV1 parallel arm bracket	No	1		
<u>DORMA</u>					
108	Dorma TS73V door closer	No	1		
Carried to Collection				R	
Section No. 12					
Bill No. 1					
Ironmongery					

		Unit	Quantity	Rate	Amount
	<u>SLIDING GEAR</u>				
109	"Henderson Senator" or other equal and approved sliding gear set for single door with track, including brackets for side or soffit fixing, hangers, rollers, guides, stops, etc	No	1		
110	"Henderson Senator" or other equal and approved sliding gear set for bi-parting double door, including brackets for side or soffit fixing, hangers, rollers, guides, stops, etc	No	1		
111	'Coburn Series 100' sliding gear set for single door with track 1700mm long fixed to brickwork including brackets, hangers, rollers, guides, stops, etc	No	1		
	<u>LETTERS, NAMEPLATES, ETC</u>				
	<u>"Union" or other equal and approved:</u>				
112	Union AL5066-06AS 150 x 150mm x 3mm thick aluminium full infill engraved plates	No	1		
113	Union SS5066-6SSS 150 x 150mm x 3mm thick Stainless steel full infill engraved plates	No	1		
114	Union SS5066-06SSE 150 x 150mm x 3mm thick stainless steel outline engraved plates	No	1		
115	SS5066-06SSSE14 Paraplegic toilet sign	No	1		
	<u>SUNDRIES</u>				
	<u>"Assa Abloy" or other equal and approved :</u>				
116	38mm Diameter rubber door stop plugged	No	1		
117	87001SS Stainless steel floor mounted door stop , plugged	No	1		
118	AL8730AS Aluminium door stop plugged	No	1		
119	CZ8731 Cast zinc door stop plugged	No	1		
120	99022 Wall mounted door stop plugged	No	1		
121	AL8254AS Aluminium wall mounted door stop	No	1		
122	8025SS Stainless steel hat and coat hook	m	1		
123	AL8721AS Aluminium hat and coat hook	m	1		
124	Al87253AS Aluminium rubber tipped hat and coat hook	m	1		
125	99001NP Nickel plated wishbone door guard	No	1		
126	99001BP Brass plated wishbone door guard	No	1		
	Carried to Collection			R	
	Section No. 12				
	Bill No. 1				
	Ironmongery				

		Unit	Quantity	Rate	Amount
127	99200CH Chrome door viewer	No	1		
	<u>BATHROOM FITTINGS</u>				
	<u>Manufactured by "Franke" or other equal and approved :</u>				
128	28mm Diameter chromium plated stainless steel curtain rail 1200mm long including flanged end brackets	No	1		
129	28mm Diameter chromium plated stainless steel towel rail 1200mm long including end brackets	No	1		
130	Chromium plated stainless steel lockable double toilet roll holder , plugged and screwed to wall	No	1		
131	Chromium plated stainless steel lockable triple toilet roll holder , plugged and screwed to wall	No	1		
132	Chromium plated stainless steel soap dish , plugged and screwed to wall	No	1		
133	Ref RODX619E, Rodan liquid soap dispenser, plugged and screwed to wall	No	1		
134	Stainless steel paper towel dispenser , plugged and screwed to wall	No	1		
	<u>GRAB RAILS, ETC</u>				
135	32mm Ref CNX 111062 chromium plated stainless steel back grab rail, bolted to wall	No	1		
136	32mm Ref CNTXPAR chromium plated stainless steel side grab rail bolted to wall	No	1		
137	32mm "Railman Grabrails" or equally approved satin polished stainless steel ref SR 2A Cistern rail for Pearl paraplegic WC plugged	No	1		
138	32mm "Railman Grabrails" or equally approved satin polished stainless steel ref DL2 Dogleg rail with two flanges plugged	No	1		
139	'Union 8H series Reliabrail 8H795R' grab handles plugged	No	1		
140	'Union 8H series Reliabrail 8H5' ditto.	No	1		
	<u>SHELVES ETC</u>				
	<u>'PG Shelvit' or other equal and approved shelving with standard epoxy powder coated finish:</u>				
141	Adjustable single slot wall band 2700mm long, plugged and screwed to wall	No	1		
Carried to Collection				R	
Section No. 12					
Bill No. 1					
Ironmongery					

		Unit	Quantity	Rate	Amount
142	Adjustable double slot wall band 2700mm long, plugged and screwed to wall	No	1		
143	Adjustable wall band shelf bracket for 300mm shelf clipped into wall band	No	1		
144	Adjustable wall band shelf bracket for 381mm shelf clipped into wall band	No	1		
145	915 x 305mm Shelf slotted onto bracket	No	1		
	<u>GALVANISED STEEL LOCKERS</u>				
	<u>"Greenfield" or other equal and approved galvanised steel lockers with standard baked enamel finish :</u>				
146	"GB001" locker 380 x 450 x 1800mm high mounted on 150mm high leg set	No	1		
147	"GB001" locker 380 x 450 x 1800mm high mounted on 150mm high leg set and bolted together in banks as required.	No	1		
148	"GB002" locker 380 x 450 x 1800mm high mounted on 150mm high leg set	No	1		
149	"GB002" locker 380 x 450 x 1800mm high mounted on 150mm high leg set and bolted together in banks as required.	No	1		
	<u>Lockers as Cubicle Solutions Composite High Pressure Laminate lockers including doors,hinges and locking mechanism (Phone 086 100 0451)</u>				
150	Set of 8 lockers size overall on elevation 3100mm wide x 3000mm high x 350mm deep constructed of compact high pressure Laminate including the necessary doors,hinges and locking mechanism suitable for padlocks (by others) to each door and finished in varied colours -J34	Sets	1		
151	Set of 6 lockers size overall on elevation 1500mm wide x 500mm high x 400mm deep constructed of compact high pressure Laminate including the necessary doors,hinges and locking mechanism suitable for padlocks (by others) to each door and finished in varied colours -J23 A	Sets	1		
152	Set of 6 lockers size overall on elevation 1500mm wide x 1500mm high x 400mm deep constructed of compact high pressure Laminate including the necessary doors,hinges and locking mechanism suitable for padlocks (by others) to each door and finished in varied colours -J23 B	Sets	1		
	Carried to Collection			R	
	Section No. 12				
	Bill No. 1				
	Ironmongery				

		Unit	Quantity	Rate	Amount
153	Extra over 250mm wide locker for shelf	No	1		
154	Natural anodised aluminium coat hook fixed inside locker	No	1		
<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u>					
<u>"Parrot" or other equal and approved :</u>					
155	Adhesive pinning board size 900 x 600mm	No	1		
156	Pinning board size 900 x 1200mm fabric covered softboard with aluminium frame plugged to walls	No	1		
157	Bulletin board size 1200 x 900mm with ribbed aluminium frame plugged to walls	No	1		
158	Bulletin board size 1000 x 1000mm with ribbed aluminium frame plugged to walls	No	1		
159	Bulletin board size 1200 x 1000mm with ribbed aluminium frame plugged to walls	No	1		
160	Bulletin board size 1200 x 1200mm with ribbed aluminium frame plugged to walls	No	1		
161	Bulletin board size 1500 x 1200mm with ribbed aluminium frame plugged to walls	No	1		
162	Bulletin board size 1800 x 1200mm with ribbed aluminium frame plugged to walls	No	1		
163	Bulletin board size 2000 x 1200mm with ribbed aluminium frame plugged to walls	No	1		
164	Bulletin board size 2400 x 1200mm with ribbed aluminium frame plugged to walls	No	1		
165	Bulletin board size 3000 x 1200mm with ribbed aluminium frame plugged to walls	No	1		
166	Information board size 1200 x 900mm with aluminium frame plugged to walls	No	1		
167	Information board size 1000 x 1000mm with aluminium frame plugged to walls	No	1		
168	Information board size 1200 x 1000mm with aluminium frame plugged to walls	No	1		
169	Information board size 1200 x 1200mm with aluminium frame plugged to walls	No	1		
170	Whiteboard size 1200 x 900mm with aluminium frame plugged to walls	No	1		
Carried to Collection				R	
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Ironmongery					

		Unit	Quantity	Rate	Amount
171	Whiteboard size 1000 x 1000mm with aluminium frame plugged to walls	No	1		
172	Whiteboard size 1200 x 1000mm with aluminium frame plugged to walls	No	1		
173	Whiteboard size 1500 x 1200mm with aluminium frame plugged to walls	No	1		
174	Whiteboard size 1500 x 900mm with aluminium frame plugged to walls	No	1		
175	Whiteboard size 1800 x 1200mm with aluminium frame plugged to walls	No	1		
176	Whiteboard size 2000 x 1200mm with aluminium frame plugged to walls	No	1		
177	Whiteboard size 2400 x 1200mm with aluminium frame plugged to walls	No	1		
178	Whiteboard size 3000 x 1200mm with aluminium frame plugged to walls	No	1		
<u>PHOTOLUMINESCENT SIGNS</u>					
<u>SUPPLEMENTARY PREAMBLES</u>					
Signs are to comply with SANS 1186-1 to 5 and to be to the approval of the local authority. Signs are to have anodised aluminium frames					
Prices are to include for fixing by approved methods. The use of double sided tape will not be permitted. Surface mounted signs are to be concealed fixed and ceiling mounted signs are to be hung with 2mm diameter stainless steel cables					
Single sided ceiling mounted signs are to have 2mm satin chrome anodised aluminium back panels					
Samples, specifications, literature, etc of materials and fabricated articles the tenderer proposes to use shall be submitted with the tender					
A ten year guarantee on materials and workmanship shall be submitted by the successful tenderer.					
<u>Wall mounted photoluminescent statutory signs in 150 x 150mm modules</u>					
179	150 x 150mm Sign with one number	No	1		
180	150 x 150mm Sign with one pictogram	No	1		
181	300 x 150mm Sign with two pictograms	No	1		
182	300 x 150mm Sign with EXIT sign	No	1		
Carried to Collection				R	
Section No. 12					
Bill No. 1					
Ironmongery					

		Unit	Quantity	Rate	Amount
183	450 x 150mm Sign with three pictograms	No	1		
184	600 x 150mm Sign with four pictograms	No	1		
	<u>Ceiling mounted single sided photoluminescent statutory signs in 150 x 150mm modules</u>				
185	150 x 150mm Sign with one number	No	1		
186	150 x 150mm Sign with one pictogram	No	1		
187	300 x 150mm Sign with two pictograms	No	1		
188	300 x 150mm Sign with EXIT sign	No	1		
189	450 x 150mm Sign with three pictograms	No	1		
190	600 x 150mm Sign with four pictograms	No	1		
	<u>Ceiling mounted double sided photoluminescent statutory signs in 150 x 150mm modules</u>				
191	150 x 150mm Sign with one number	No	1		
192	150 x 150mm Sign with one pictogram	No	1		
193	300 x 150mm Sign with two pictograms	No	1		
194	300 x 150mm Sign with EXIT sign	No	1		
195	450 x 150mm Sign with three pictograms	No	1		
196	600 x 150mm Sign with four pictograms	No	1		
	<u>Wall mounted photoluminescent statutory signs in 190 x 190mm modules</u>				
197	190 x 190mm Sign with one number	No	1		
198	190 x 190mm Sign with one pictogram	No	1		
199	380 x 190mm Sign with two pictograms	No	1		
200	380 x 190mm Sign with EXIT sign	No	1		
201	570 x 190mm Sign with three pictograms	No	1		
202	760 x 190mm Sign with four pictograms	No	1		
	<u>Ceiling mounted single sided photoluminescent statutory signs in 190 x 190mm modules</u>				
203	190 x 190mm Sign with one number	No	1		
204	190 x 190mm Sign with one pictogram	No	1		
205	380 x 190mm Sign with two pictograms	No	1		
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SECTION SUMMARY

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SECTION NO.13
STRUCTURAL STEELWORK

	Unit	Quantity	Rate	Amount
<u>SECTION NO.13</u>				
<u>STRUCTURAL STEELWORK</u>				
<u>BILL NO. 1</u>				
<u>STRUCTURAL STEELWORK</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Descriptions</u>				
Descriptions of bolts shall be deemed to include nuts and washers				
Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete				
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete				
<u>GALVANISED STEEL COLUMNS AND BEAMS</u>				
<u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete</u>				
1	254 x 254 x 73 kg/m H-section columns	Tonnes	1.00	
2	406 x 140 x 46 kg/m UB beams	Tonnes	1.00	
3	101,6 x 3,5mm x 8,47kg/m Circular hollow section bracing	Tonnes	1.00	
4	101,6 x 3,5mm x 8,47kg/m Circular hollow section eaves beam and strut	Tonnes	1.00	
5	20mm Diameter tension rods	Tonnes	1.00	
6	60 x 60 x 5mm x 3,77 kg/m Angle section rafter	Tonnes	1.00	
7	10mm Thick plate	Tonnes	1.00	
<u>Welded columns and beams in single lengths with flat bearer and connection plates, bolted to steel</u>				
8	100 x 100 x 4,5 kg/m Square hollow section columns.	Tonnes	1.00	
9	203 x 133 x 25,0 kg/m Universal I section beam.	Tonnes	1.00	
10	101,6 x 3,5mm x 8,47kg/m Circular hollow section eaves beam and strut.	Tonnes	1.00	
11	175 x 75 x 20 x 2,5mm x 6,8 kg/m Cold formed lipped channel section purlins, girts.	Tonnes	1.00	
12	16mm Diameter tension rods.	Tonnes	1.00	
Carried to Collection			R	
Section No. 13				
Bill No. 1				
Structural Steelwork				

		Unit	Quantity	Rate	Amount
13	Set of four 20mm diameter holding bolts approximately 300mm long with two R10 stirrups tack welded to form bolt cage.	No	1.00		
	BOLTS, FASTENERS, ETC				
	Bolts				
14	16mm Diameter grade 8.8 bolts	Kg	1.00		
15	20mm Diameter grade 8.8 bolts	Kg	1.00		
16	High tensile bolts (class 8.8)	Kg	1.00		
17	High strength friction grip bolts (class 10.9S)	Kg	1.00		
18	16mm Diameter expansion bolt	No	1		
19	20mm Diameter expansion bolt	No	1		
	Anchors				
20	16mm Diameter chemical anchor	No	1		
21	20mm Diameter chemical anchor	No	1		
22	16mm Diameter L-shaped threaded anchor bolt 300mm girth embedded in top of concrete	No	1		
23	20mm Diameter U-shaped threaded anchor bolt 300mm girth embedded in top of concrete	No	1		
24	Anchor assembly consisting of four 20mm diameter L-shaped threaded anchor bolts each 350mm girth, caged together with 50 x 50 x 5mm angle, total length of angle 1600mm	No	1		
	TESTS				
	Weld Testing				
25	X-Ray test of butt weld joint to web plate	No	1		
	PAINTING				
	<u>Apply 2 coats of PENGUARD SPECIAL (Zinc Phosphate pigmented Epoxy), to a DFT of 100 microns per coat. Allow to dry overnight, (minimum drying time to recoat, at 23°C, is 8 hours). A Stripe Coat by brush to be applied to all leading edges, amgels, internal corners, bolts, drilled holes and cut-out areas before each full coat. Apply 1 finishing coat of HARDTOP AS to a DFT of 50 to 60 microns. Colour to Architects specification</u>				
26	On structural steelwork	m ²	1		
	Carried to Collection			R	
	Section No. 13 Bill No. 1 Structural Steelwork				

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STRUCTURAL STEELWORK

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SECTION NO.14

METALWORK

	Unit	Quantity	Rate	Amount
<u>SECTION NO.14</u>				
<u>METALWORK</u>				
<u>BILL NO. 1</u>				
<u>METALWORK</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Descriptions of bolts, anchors, etc</u>				
Descriptions of bolts shall be deemed to include nuts and washers				
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete				
Items described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described				
Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres				
<u>Aluminium doors, windows, etc</u>				
Doors and windows shall comply with AAAMSA design criteria				
Glazing shall comply with SAGGA regulations. Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings.				
Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed.				
The following certificates shall be provided prior to commencement of site work:				
1 A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product				
2 A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively				
3 A powder guarantee of not less than 15 years issued by the powder manufacturer. The				
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specific conditions contained in this guarantee shall form part of the powder coating process				
4 A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked				
5 A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five years				
<u>GALVANISED STEEL STAIRS</u>				
<u>Welded single flight stair - inclusive measurement</u>				
1 Welded single flight stair with balustrades, 4500 x 1000mm on plan x 2800mm high overall, of 5mm Vastrap plate continuous treads, risers and landing welded along edges to 300 x 5mm flat section stringers, with one side bolted to brickwork or concrete (bolts elsewhere)	Kg	1		
2 10mm Expansion bolt	No	1		
<u>Welded single flight stair with balustrades :</u>				
3 5mm Vastrap plate continuous treads, risers and landing	Kg	1		
4 100 x 8mm Flat section stringers	Kg	1		
5 Extra over for ramp or knee	No	1		
6 Extra over for L-intersection	No	1		
7 Hole through 8mm steel for bolt	No	1		
8 50 x 6mm Flat section continuous handrails and bottom rails	Kg	1		
9 Extra over for fanged end	No	1		
10 Extra over for L-intersection	No	1		
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		Unit	Quantity	Rate	Amount
11	Extra over for T-intersection	No	1		
12	Extra over for turned down end	No	1		
13	Extra over for ramp or knee	No	1		
14	30 x 30 x 3mm Square hollow section balusters	Kg	1		
15	76 x 50 x 3mm Rectangular hollow section standard framed through bottom rail	Kg	1		
16	10mm Expansion bolt	No	1		
17	12mm Expansion bolt	No	1		
18	16mm Expansion bolt	No	1		
	<u>GALVANISED STEEL HANDRAILS</u>				
	<u>Welded handrails to walls</u>				
19	50 x 5mm Flat section continuous rails	Kg	1		
20	Extra over for flat closed end	No	1		
21	Extra over for fanged end	No	1		
22	60 x 30 x 3mm Hollow section continuous rails	m	1		
23	Extra over for L-intersection	No	1		
24	Extra over for mitred L-intersection	No	1		
25	Extra over for T-intersection	No	1		
26	38mm External diameter x 2,5mm thick continuous pipe rails	m	1		
27	Extra over for rounded end	No	1		
28	Extra over for rounded closed end	No	1		
29	76 x 38 x 3mm Rectangular hollow section continuous rails	m	1		
30	Extra over for ramp or knee	No	1		
31	Extra over for bend across edge	No	1		
32	Extra over for wreathed ramp	No	1		
33	Extra over for double wreathed ramp	No	1		
34	Bracket of 12mm diameter bar 150mm girth, once bent to and with one end welded to rail and other end with 50mm diameter x 5mm thick plate twice holed for bolts and welded on	No	1		
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		Unit	Quantity	Rate	Amount
35	8mm Expansion bolt	No	1		
36	10mm Expansion anchor with loose bolt	No	1		
37	12mm Chemical anchor with loose bolt	No	1		
38	16mm Chemical anchor with loose bolt	No	1		
<u>GALVANISED STEEL FLOORS</u>					
<u>Floor duct covers</u>					
39	5mm Vastrap plate duct covers in approximately various widths and suitable lengths laid loose in frames	Kg	1		
40	50 x 50 x 5mm Angle section bearers welded to frames	Kg	1		
41	Extra over for mitred and welded L-intersection	No	1		
42	25mm Diameter finger hole through 5mm steel	No	1		
43	12mm Expansion bolt	No	1		
44	16mm Expansion anchor with loose bolt	No	1		
<u>GALVANISED STEEL CAT LADDERS</u>					
<u>Welded cat ladder 400mm wide and 3000mm high overall to plantroom</u>					
45	150 x 4mm Flat section stringers	Kg	1		
46	Extra over for mitred L-intersection	No	1		
47	Extra over for bend across flat	No	1		
48	Extra over for bend across edge to 5mm internal radius	No	1		
49	12mm Diameter rungs 200mm long with ends welded to stringers	Kg	1		
50	300 x 300 x 4mm Fixing plate twice holed for bolts and welded on	No	1		
51	80 x 6mm Flat section bracket 300mm girth once bent across flat, once holed for bolt and welded on	No	1		
52	38mm External diameter x 2mm thick x 1,78kg/m pipe rung 1000mm long with ends welded to stringers	No	1		
53	12mm Expansion bolt	No	1		
54	12mm Expansion anchor with loose bolt	No	1		
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		Unit	Quantity	Rate	Amount
<u>GALVANISED STEEL GATES, SCREENS, ETC</u>					
<u>Welded screens and gates</u>					
55	50 x 2,5mm Galvanised diamond mesh covering in approximately 2,4m high panels tied with 1,6mm galvanised binding wire to frames	m ²	1		
56	50 x 2,5mm Plastic coated galvanised diamond mesh covering in approximately 2,4m high panels tied with 1,6mm plastic covered binding wire to frames	m ²	1		
57	100 x 50mm x 10,5kg/m Channel section post 2,4m long with 250 x 250 x 4mm base plate twice holed for bolts and welded on	Kg	1		
58	51mm Diameter x 2mm thick x 2,42kg/m pipe rails, posts, etc	m	1		
59	Extra over for flat closed end	No	1		
60	Extra over for mitred L-intersection	No	1		
61	Extra over for T-intersection	No	1		
62	L-shaped cleat of 60 x 5mm flat section 200mm girth twice holed for bolts and welded on	No	1		
63	100 x 100 x 4mm Thick x 12,1kg/m Hollow section post 2,4m long with flat closed top end and 300 x 300 x 4mm base plate twice holed for bolts and welded on	No	1		
64	12mm Expansion bolt	No	1		
65	16mm Expansion anchor with loose bolt	No	1		
66	Single gate 900 x 2100mm high of 50 x 5mm flat section outer frame and 50 x 50 x 5mm angle section inner frame welded to outer frame, filled in with expanded metal panel fixed all round to inner frame with 50 x 50 x 5mm angle section fixing beads bolted on with and including 8mm diameter bolts at 300mm centres and fitted with a pair of suitable hinges welded to post and with lockable sliding bolt with keep in gate post	No	1		
67	Single gate 900 x 2400mm high of 50 x 5mm flat section outer frame and 50 x 50 x 5mm angle section inner frame welded to outer frame, filled in with expanded metal panel fixed all round to inner frame with 50 x 50 x 5mm angle section fixing beads bolted on with and including 8mm diameter bolts at 300mm centres and fitted with a pair of suitable hinges welded to post and with lockable sliding bolt with keep in gate post	No	1		
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		Unit	Quantity	Rate	Amount
68	Double gate 1800 x 2100mm high, each leaf of 50 x 50 x 3mm hollow section frame and 50 x 50 x 3mm hollow section horizontal middle rail , filled in with 50 x 50 x 3mm hollow section vertical bars at 200mm centres and fitted with a pair of suitable hinges bolted to wall with and including 12mm expansion bolts, with ears for padlock and 12mm drop bolt welded on with keep in concrete	No	1		
69	Double gate 1800 x 2400mm high, each leaf of 50 x 50 x 3mm hollow section frame and 50 x 50 x 3mm hollow section horizontal middle rail , filled in with 50 x 50 x 3mm hollow section vertical bars at 200mm centres and fitted with a pair of suitable hinges bolted to wall with and including 12mm expansion bolts, with ears for padlock and 12mm drop bolt welded on with keep in concrete	No	1		
<u>GALVANISED STEEL MINOR WORK</u>					
<u>Bolts</u>					
70	Bolts	Kg	1		
71	10mm Expansion bolt	No	1		
72	12mm Expansion bolt	No	1		
73	16mm Expansion bolt	No	1		
74	10mm Expansion anchor with loose bolt	No	1		
75	12mm Expansion anchor with loose bolt	No	1		
76	16mm Expansion anchor with loose bolt	No	1		
77	12mm Chemical anchor with loose bolt	No	1		
78	16mm Chemical anchor with loose bolt	No	1		
<u>Corner protectors</u>					
79	100 x 50mm x 10,6kg/m Channel section corner protectors in varying lengths with 10mm diameter bent lugs each 300mm girth welded on at 300mm centres, including embedding in concrete	Kg	1		
80	100 x 50mm x 10,6kg/m Channel section corner protectors, circular on plan to 1000mm internal radius, in varying lengths with 10mm diameter bent lugs each 300mm girth welded on at 300mm centres, including embedding in concrete	Kg	1		
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		Unit	Quantity	Rate	Amount
81	70 x 70 x 6mm Angle section corner protectors in varying lengths with 10mm diameter bent lugs each 300mm girth welded on at 300mm centres, including embedding in concrete	Kg	1		
82	80 x 80 x 6mm Angle section corner protectors in varying lengths with 30 x 4mm flat section bent lugs each 300mm girth welded on at 300mm centres, including embedding in concrete	Kg	1		
83	90 x 90 x 6mm Angle section corner protectors in varying lengths, twice plugged at 300mm centres	Kg	1		
84	100 x 100 x 8mm Angle section corner protectors in varying lengths with 30 x 4mm flat section bent lugs each 300mm girth welded on at 300mm centres, including embedding in concrete	Kg	1		
85	Extra over for mitred and welded L-intersection	No	1		
	<u>ALUMINIUM MINOR WORK</u>				
86	38 x 38 x 2mm Angle section corner protectors to vertical corners, plugged on both sides	m	1		
87	50 x 50 x 3mm Angle section corner protectors to vertical corners, plugged on both sides	m	1		
88	76 x 76 x 2mm Angle section corner protectors to vertical corners, plugged on both sides	m	1		
89	30 x 3mm Flat section water bars fixed in and including groove in concrete	m	1		
	<u>STAINLESS STEEL MINOR WORK</u>				
	<u>Corner protectors:</u>				
90	30 x 30 x 3mm Angle section corner protectors to vertical corners, plugged on both sides	m	1		
91	50 x 50 x 2.5mm Angle section corner protectors to vertical corners, plugged on both sides	m	1		
	<u>GALVANISED PRESSED STEEL DOOR FRAMES</u>				
	<u>1,2mm Rebated frames suitable for half brick walls</u>				
92	Frame for door 813 x 2032mm high	No	1		
93	Frame for double door 1626 x 2032mm high	No	1		
94	Frame for door 813 x 2032mm high and fixed fanlight 350mm high	No	1		
95	Frame for double door 1626 x 2032mm high and fixed fanlight 350mm high	No	1		
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		Unit	Quantity	Rate	Amount
96	Frame for door 813 x 2032mm high and fixed fanlight 350mm high with standard pressed steel glazing beads on one side of fanlight	No	1		
97	Frame for double door 1626 x 2032mm high and fixed fanlight 350mm high with standard pressed steel glazing beads on one side of fanlight	No	1		
98	Frame for door 813 x 2032mm high and hinged fanlight 350mm high	No	1		
99	Frame for double door 1626 x 2032mm high and hinged fanlight 350mm high	No	1		
	<u>1,2mm Double rebated frames suitable for half brick walls</u>				
100	Frame for door 813 x 2032mm high	No	1		
101	Frame for double door 1626 x 2032mm high	No	1		
102	Frame for door 813 x 2032mm high and fixed fanlight 350mm high	No	1		
103	Frame for double door 1626 x 2032mm high and fixed fanlight 350mm high	No	1		
104	Frame for door 813 x 2032mm high and fixed fanlight 350mm high with standard pressed steel glazing beads on one side of fanlight	No	1		
105	Frame for double door 1626 x 2032mm high and fixed fanlight 350mm high with standard pressed steel glazing beads on one side of fanlight	No	1		
106	Frame for door 813 x 2032mm high and hinged fanlight 350mm high	No	1		
107	Frame for double door 1626 x 2032mm high and hinged fanlight 350mm high	No	1		
	<u>1,2mm Double rebated frames suitable for one brick walls</u>				
108	Frame for door 813 x 2032mm high	No	1		
109	Frame for double door 1626 x 2032mm high	No	1		
110	Frame for door 813 x 2032mm high and fixed fanlight 350mm high	No	1		
111	Frame for double door 1626 x 2032mm high and fixed fanlight 350mm high	No	1		
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		Unit	Quantity	Rate	Amount
112	Frame for door 813 x 2032mm high and fixed fanlight 350mm high with standard pressed steel glazing beads on one side of fanlight	No	1		
113	Frame for double door 1626 x 2032mm high and fixed fanlight 350mm high with standard pressed steel glazing beads on one side of fanlight	No	1		
114	Frame for door 813 x 2032mm high and hinged fanlight 350mm high	No	1		
115	Frame for double door 1626 x 2032mm high and hinged fanlight 350mm high	No	1		
	<u>1.6mm Rebated frames suitable for one brick walls</u>				
116	Frame for door 813 x 2032mm high	No	1		
117	Frame for double door 1626 x 2032mm high	No	1		
118	Frame for door 813 x 2032mm high and fixed fanlight 350mm high	No	1		
119	Frame for double door 1626 x 2032mm high and fixed fanlight 350mm high	No	1		
120	Frame for door 813 x 2032mm high and fixed fanlight 350mm high with standard pressed steel glazing beads on one side of fanlight	No	1		
121	Frame for double door 1626 x 2032mm high and fixed fanlight 350mm high with standard pressed steel glazing beads on one side of fanlight	No	1		
122	Frame for door 813 x 2032mm high and hinged fanlight 350mm high	No	1		
123	Frame for double door 1626 x 2032mm high and hinged fanlight 350mm high	No	1		
	<u>1.6mm Rebated frames suitable for one brick walls with two 100mm brass butt hinges per door leaf</u>				
124	Frame for door 813 x 2032mm high	No	1		
125	Frame for double door 1626 x 2032mm high	No	1		
126	Frame for door 813 x 2032mm high and fixed fanlight 350mm high	No	1		
127	Frame for double door 1626 x 2032mm high and fixed fanlight 350mm high	No	1		
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		Unit	Quantity	Rate	Amount
128	Frame for door 813 x 2032mm high and fixed fanlight 350mm high with standard pressed steel glazing beads on one side of fanlight	No	1		
129	Frame for double door 1626 x 2032mm high and fixed fanlight 350mm high with standard pressed steel glazing beads on one side of fanlight	No	1		
130	Frame for door 813 x 2032mm high and hinged fanlight 350mm high	No	1		
131	Frame for double door 1626 x 2032mm high and hinged fanlight 350mm high	No	1		
	<u>1.6mm Double rebated frames suitable for one brick walls with two 100mm brass butt hinges per door leaf</u>				
132	Frame for door 813 x 2032mm high	No	1		
133	Frame for double door 1626 x 2032mm high	No	1		
134	Frame for door 813 x 2032mm high and fixed fanlight 350mm high	No	1		
135	Frame for double door 1626 x 2032mm high and fixed fanlight 350mm high	No	1		
136	Frame for door 813 x 2032mm high and fixed fanlight 350mm high with standard pressed steel glazing beads on one side of fanlight	No	1		
137	Frame for double door 1626 x 2032mm high and fixed fanlight 350mm high with standard pressed steel glazing beads on one side of fanlight	No	1		
138	Frame for door 813 x 2032mm high and hinged fanlight 350mm high	No	1		
139	Frame for double door 1626 x 2032mm high and hinged fanlight 350mm high	No	1		
	<u>1.6mm Rebated frames suitable for half brick walls with two 100mm brass butt hinges per door leaf and two 75mm brass butt hinges per fanlight</u>				
140	Frame for door 813 x 2032mm high	No	1		
141	Frame for double door 1626 x 2032mm high	No	1		
142	Frame for door 813 x 2032mm high and fixed fanlight 350mm high	No	1		
143	Frame for double door 1626 x 2032mm high and fixed fanlight 350mm high	No	1		
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		Unit	Quantity	Rate	Amount
144	Frame for door 813 x 2032mm high and fixed fanlight 350mm high with standard pressed steel glazing beads on one side of fanlight	No	1		
145	Frame for double door 1626 x 2032mm high and fixed fanlight 350mm high with standard pressed steel glazing beads on one side of fanlight	No	1		
146	Frame for door 813 x 2032mm high and hinged fanlight 350mm high	No	1		
147	Frame for double door 1626 x 2032mm high and hinged fanlight 350mm high	No	1		
	<u>1.6mm Double rebated frames suitable for one brick walls with two 100mm brass butt hinges per door leaf and two 75mm brass butt hinges per fanlight</u>				
148	Frame for door 813 x 2032mm high	No	1		
149	Frame for double door 1626 x 2032mm high	No	1		
150	Frame for door 813 x 2032mm high and fixed fanlight 350mm high	No	1		
151	Frame for double door 1626 x 2032mm high and fixed fanlight 350mm high	No	1		
152	Frame for door 813 x 2032mm high and fixed fanlight 350mm high with standard pressed steel glazing beads on one side of fanlight	No	1		
153	Frame for double door 1626 x 2032mm high and fixed fanlight 350mm high with standard pressed steel glazing beads on one side of fanlight	No	1		
154	Frame for door 813 x 2032mm high and hinged fanlight 350mm high	No	1		
155	Frame for double door 1626 x 2032mm high and hinged fanlight 350mm high	No	1		
	<u>1.6mm Rebated frames suitable for one brick walls to jambs, head and threshold of openings</u>				
156	Frame for door 813 x 2032mm high	No	1		
157	Frame for double door 1626 x 2032mm high	No	1		
158	Frame for door 813 x 2032mm high and fixed fanlight 350mm high	No	1		
159	Frame for double door 1626 x 2032mm high and fixed fanlight 350mm high	No	1		
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		Unit	Quantity	Rate	Amount
160	Frame for door 813 x 2032mm high and fixed fanlight 350mm high with standard pressed steel glazing beads on one side of fanlight	No	1		
161	Frame for double door 1626 x 2032mm high and fixed fanlight 350mm high with standard pressed steel glazing beads on one side of fanlight	No	1		
162	Frame for door 813 x 2032mm high and hinged fanlight 350mm high	No	1		
163	Frame for double door 1626 x 2032mm high and hinged fanlight 350mm high	No	1		
	<u>1.6mm Double rebated frames suitable for one brick walls to jambs, head and threshold of openings</u>				
164	Frame for door 813 x 2032mm high	No	1		
165	Frame for double door 1626 x 2032mm high	No	1		
166	Frame for door 813 x 2032mm high and fixed fanlight 350mm high	No	1		
167	Frame for double door 1626 x 2032mm high and fixed fanlight 350mm high	No	1		
168	Frame for door 813 x 2032mm high and fixed fanlight 350mm high with standard pressed steel glazing beads on one side of fanlight	No	1		
169	Frame for double door 1626 x 2032mm high and fixed fanlight 350mm high with standard pressed steel glazing beads on one side of fanlight	No	1		
170	Frame for door 813 x 2032mm high and hinged fanlight 350mm high	No	1		
171	Frame for double door 1626 x 2032mm high and hinged fanlight 350mm high	No	1		
	<u>Preparation of frames for fixing of ironmongery</u>				
172	Arm of door closer	No	1		
	<u>GALVANISED PRESSED STEEL CUPBOARD DOOR FRAMES</u>				
	<u>Standard cupboard door frames</u>				
173	Frame 600 x 2100mm high overall	No	1		
	<u>Purpose made rebated cupboard door frames</u>				
174	Frame for door 600 x 2100mm high	No	1		
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		Unit	Quantity	Rate	Amount
175	Frame for double door 1200 x 2100mm high	No	1		
	<u>GALVANISED PRESSED STEEL TRANSFORMER ROOM DOORS AND FRAMES</u>				
	<u>'Xpanda" or other equal and approved Electrical Transformer Substation doors fixed to brickwork or concrete</u>				
176	Single door to suit opening 900 x 2400mm high, including nightlatch, hinges, etc., suitable for one brick wall	No	1		
177	Double door to suit opening 1600 x 2400mm high, including nightlatch, hinges, etc., suitable for one brick wall	No	1		
	<u>GALVANISED PRESSED STEEL GARAGE DOORS</u>				
	<u>"Xpanda" or other equal and approved tip-up doors fixed to brickwork or concrete</u>				
178	Tip-up door for 2400 x 2100mm high opening	No	1		
179	Tip-up door for 4800 x 2100mm high opening	No	1		
	<u>"Xpanda" or other equal and approved roll-up doors fixed to brickwork or concrete</u>				
180	Roll-up door for 2400 x 2100mm high opening	No	1		
181	Roll-up door for 4800 x 2100mm high opening	No	1		
	<u>GALVANISED STEEL WINDOWS, DOORS, ETC</u>				
	<u>Standard industrial windows</u>				
182	Window type SS21, 673 x 511mm high	No	1		
183	Window as type SS31, 987 x 511mm high	No	1		
184	Window as type SS22, 673 x 978mm high	No	1		
185	Window as type SS32, 978 x 978mm high	No	1		
186	Window as type SS42, 1302 x 978mm high	No	1		
187	Window as type SS23, 673 x 1445mm high	No	1		
	<u>Standard industrial windows with burglar bars to fixed lights and opening sashes</u>				
188	Window type SS21, 673 x 511mm high	No	1		
189	Window as type SS31, 987 x 511mm high	No	1		
190	Window as type SS22, 673 x 978mm high	No	1		
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		Unit	Quantity	Rate	Amount
191	Window as type SS32, 978 x 978mm high	No	1		
192	Window as type SS42, 1302 x 978mm high	No	1		
193	Window as type SS23, 673 x 1445mm high	No	1		
	<u>Steel glazing beads, coupling transomes, coupling mullions, etc</u>				
194	12 x 12mm Standard glazing beads	m	1		
195	Standard section coupling mullions in varying lengths	m	1		
196	Standard section coupling transomes in varying lengths	m	1		
	<u>GALVANISED STEEL ROLLER SHUTTER DOORS ETC</u>				
	<u>"Xpanda" or other equal and approved galvanised steel roller shutters with 76mm slats (18kg/m²), fixed to brickwork or concrete</u>				
197	Manual push-up slatted roller shutter for 2400 x 3000mm high opening	No	1		
198	Chain operated slatted roller shutter for 4000 x 4000mm high opening	No	1		
199	Soffit fixed crank operated slatted roller shutter for 5000 x 5000mm high opening	No	1		
200	Side fixed crank operated slatted roller shutter for 5000 x 5000mm high opening	No	1		
201	Manual push up class B fire resistant slatted roller shutter for 3000 x 4000mm high opening, with fusible link	No	1		
	<u>"Xpanda" or other equal and approved galvanised steel powder coated roller shutters with 76mm slats (18kg/m²), fixed to brickwork or concrete</u>				
202	Manual push-up slatted roller shutter for 2400 x 3000mm high opening	No	1		
203	Chain operated slatted roller shutter for 4000 x 4000mm high opening	No	1		
204	Soffit fixed crank operated slatted roller shutter for 5000 x 5000mm high opening	No	1		
205	Side fixed crank operated slatted roller shutter for 5000 x 5000mm high opening	No	1		
206	Manual push up class B fire resistant slatted roller shutter for 3000 x 4000mm high opening, with fusible link	No	1		
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		Unit	Quantity	Rate	Amount
	<u>GALVANISED STEEL RECORDROOM AND STRONGROOM DOORS, VENTILATORS, ETC</u>				
	<u>Record room or strong room doors etc suitable for 230mm walls fixed to brickwork or concrete</u>				
207	Single ended record room/strong room ventilator	No	1		
208	Double ended record room/strong room ventilator	No	1		
209	"Mutual Safes DS1" record room door and frame 1000 x 2033mm high overall with a mass of 180kg	No	1		
210	"Mutual Safes DS2" strong room door and frame 1000 x 2033mm high overall with a mass of 210kg	No	1		
	<u>ALUMINIUM WINDOWS, DOORS, ETC</u>				
	Windows to be manufactured and glazed in accordance with AAAMSA requirements carried out by SAGGA accredited installers				
	<u>Natural anodised casement windows, complete with sub frames, ironmongery, glass, sealing, etc and fixing to brickwork or concrete</u>				
211	Window 1000 x 1000mm high	m ²	1		
212	Purpose made window, 1000 x 1000mm high	m ²	1		
	<u>Powder coated casement window units, complete with sub frames, ironmongery, glass, sealing, etc and fixing to brickwork or concrete</u>				
213	Standard window 1000 x 1000mm high	m ²	1		
214	Purpose made window, 1000 x 1000mm high	m ²	1		
	<u>Natural anodised casement windows with external aluminium shutters complete with sub frames, ironmongery, glass, sealing, etc and fixing to brickwork or concrete</u>				
215	Standard window, 1000 x 1000mm high	m ²	1		
216	Purpose made window, 1000 x 1000mm high	m ²	1		
	<u>Powder coated casement (outward opening) windows with external aluminium shutters complete with sub frames, ironmongery, glass, sealing, etc and fixing to brickwork or concrete</u>				
217	Standard window type 1000 x 1000mm high	m ²	1		
218	Purpose made window, 1000 x 1000mm high	m ²	1		
	Carried to Collection			R	
	Section No. 14				
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	Metalwork				

		Unit	Quantity	Rate	Amount
	<u>ALUMINIUM CASEMENT (OUTWARD OPENING) WINDOWS</u>				
	Windows to be manufactured and glazed in accordance with AAAMSA requirements carried out by SAGGA accredited installers				
	<u>Natural anodised casement windows, complete with sub frames, ironmongery, glass, sealing, etc and fixing to brickwork or concrete</u>				
219	Standard window 1000 x 1000mm high	m ²	1		
220	Purpose made window, 1000 x 1000mm high	m ²	1		
	<u>Powder coated casement window units, complete with sub frames, ironmongery, glass, sealing, etc and fixing to brickwork or concrete</u>				
221	Standard window 1000 x 1000mm high	m ²	1		
222	Purpose made window, 1000 x 1000mm high	m ²	1		
	<u>Natural anodised casement windows with external aluminium shutters complete with sub frames, ironmongery, glass, sealing, etc and fixing to brickwork or concrete</u>				
223	Standard window 1000 x 1000mm high	m ²	1		
224	Purpose made window, 1000 x 1000mm high	m ²	1		
	<u>Powder coated casement windows with external aluminium shutters complete with sub frames, ironmongery, glass, sealing, etc and fixing to brickwork or concrete</u>				
225	Standard window 1000 x 1000mm high	m ²	1		
226	Purpose made window, 1000 x 1000mm high	m ²	1		
	<u>ALUMINIUM SLIDING WINDOWS</u>				
	<u>Natural anodised sliding window units, complete with sub frames, ironmongery, glass, sealing, etc and fixing to brickwork or concrete</u>				
227	Standard window 1000 x 1000mm high	m ²	1		
228	Purpose made window, 1000 x 1000mm high	m ²	1		
	<u>Powder coated sliding window units, complete with sub frames, ironmongery, glass, sealing, etc and fixing to brickwork or concrete</u>				
229	Standard window 1000 x 1000mm high	m ²	1		
230	Purpose made window, 1000 x 1000mm high	m ²	1		
	Carried to Collection			R	
	Section No. 14				
	Bill No. 1				
	Metalwork				

		Unit	Quantity	Rate	Amount
<u>ALUMINIUM VERTICAL SLIDING WINDOWS</u>					
<u>Natural anodised vertical sliding window units, complete with sub frames, ironmongery, glass, sealing, etc and fixing to brickwork or concrete</u>					
231	Standard window 1000 x 1000mm high	m ²	1		
232	Purpose made window, 1000 x 1000mm high	m ²	1		
<u>Powder coated vertical sliding window units, complete with sub frames, ironmongery, glass, sealing, etc and fixing to brickwork or concrete</u>					
233	Standard window 1000 x 1000mm high	m ²	1		
234	Purpose made window, 1000 x 1000mm high	m ²	1		
<u>ALUMINIUM HORIZONTAL SLIDING WINDOWS</u>					
<u>Natural anodised horizontal sliding window units, complete with sub frames, ironmongery, glass, sealing, etc and fixing to brickwork or concrete</u>					
235	Standard window 1000 x 1000mm high	m ²	1		
236	Purpose made window, 1000 x 1000mm high	m ²	1		
<u>ALUMINIUM SLIDING DOORS</u>					
<u>Natural anodised sliding doors, complete with sub frames, ironmongery, glass, sealing, etc and fixing to brickwork or concrete</u>					
237	Standard door 2000 x 2100mm high	No	1		
238	Purpose made door, 2000 x 2100mm high	No	1		
<u>ALUMINIUM SLIDING FOLDING DOORS</u>					
<u>Natural anodised sliding folding doors complete with sub frames, ironmongery, glass, sealing, etc and fixing to brickwork or concrete</u>					
239	Standard sliding folding door 3000 x 2100mm high	No	1		
240	Purpose made sliding folding door, 6000 x 2100mm high	No	1		
<u>Powder coated sliding folding doors complete with sub frames, ironmongery, glass, sealing, etc and fixing to brickwork or concrete</u>					
241	Standard sliding folding door 3000 x 2100mm high	No	1		
242	Purpose made sliding folding door, 6000 x 2100mm high	No	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
<u>ALUMINIUM FLY SCREENS</u>					
<u>Natural anodised fly screens, complete with ironmongery etc and fixing to brickwork or concrete (fixing to aluminium windows)</u>					
243	Standard fly screen 1000 x 1000mm high	m ²	1		
244	Purpose made fly screen, 1000 x 1000mm high	m ²	1		
<u>Powder coated fly screens, complete with ironmongery etc and fixing to brickwork or concrete (fixing to aluminium windows)</u>					
245	Standard fly screen 1000 x 1000mm high	m ²	1		
246	Purpose made fly screen, 1000 x 1000mm high	m ²	1		
<u>NATURAL ANODISED ALUMINIUM LOUVRE UNITS</u>					
<u>Natural anodised louvre units fixed to brickwork or concrete</u>					
247	Standard louvre unit type 1000 x 1000mm high	m ²	1		
248	Purpose made louvre unit for 1000 x 1000mm high opening	m ²	1		
<u>POWDER COATED LOUVRE UNITS WITH GLASS LOUVRES</u>					
<u>Powder coated louvre units including 4mm clear float glass horizontal louvres, fixed to brickwork or concrete</u>					
249	Standard louvre unit type 1000 x 1000mm high	m ²	1		
250	Purpose made louvre unit for 1000 x 1000mm high opening	m ²	1		
<u>ALUMINIUM FRAMED ROOF LIGHTS</u>					
<u>Roof lights</u>					
251	Single skin dome to suit 750 x 750mm opening, of 5mm thick U-95 tinted acrylic Perspex with aluminium kerb, bolted to concrete with and including expansion bolts	No	1		
252	Double skin dome to suit 1000 x 1000mm opening, of 5mm thick clear acrylic Perspex inner skin and 5mm thick U-95 tinted acrylic Perspex outer skin with aluminium kerb, bolted to concrete with and including expansion bolts	No	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
253	Low rise single skin barrel vault to suit 1000 x 1000mm opening, of 5mm thick tinted acrylic Perspex with natural anodised aluminium framing, glazing bars, etc, bolted to concrete with and including expansion bolts	No	1		
	<u>ALUMINIUM FRAMED AND UNFRAMED SHOWER CUBICLE PANELS AND DOORS ETC</u>				
	<u>Natural anodised aluminium framed shower cubicle panels and doors with frames, sliding gear, pivot hinges, cleats, stops, etc and 7mm toughened clear safety glass, plugged to tiled walls and sealed with silicone sealant</u>				
254	Fixed panel 900 x 1900mm high	No	1		
255	Sliding door 900 x 2100mm high	No	1		
256	Sliding door in three leaves, 900 x 1850mm high overall	No	1		
257	Swing door 900 x 2100mm high	No	1		
258	Pivot door 800 x 1900mm high	No	1		
259	Pivot door and fixed side panel 1800 x 1900mm high overall with door 900mm wide	No	1		
	<u>Frameless 6.38mm toughened clear glass shower cubicle panels and doors, including tile stops, patch fittings, sealing strips, etc, plugged to tiled walls and sealed with silicone sealant</u>				
260	Fixed panel 900 x 1900mm high	No	1		
261	Swing door 800 x 1900mm high	No	1		
262	In-line fixed panel and swing door 1800 x 1900mm high overall with door 900mm wide	No	1		
	<u>Clear shielding</u>				
263	Protection of clear glass with clear shielding	m ²	1		
264	Protection of sandblasted glass with clear shielding including protection of adjacent work	m ²	1		
	<u>Sandblasting</u>				
265	Sandblasting to glass (even finish)	m ²	1		
	<u>ALUMINIUM SHOPFRONTS</u>				
	<u>Natural anodised shopfronts complete with sub frames, ironmongery, glass, sealing, etc and fixing to brickwork or concrete</u>				
266	Purpose made shopfront, 1000 x 1000mm high	m ²	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
267	Purpose made shopfront, 4000 x 2100mm high with one double door 1600 x 2100mm high	No	1		
	<u>Powder coated shopfronts complete with sub frames, ironmongery, glass, sealing, etc and fixing to brickwork or concrete</u>				
268	Purpose made shopfront, 1000 x 1000mm high	m ²	1		
269	Purpose made shopfront, 4000 x 2100mm high with one double door 1600 x 2100mm high	No	1		
	<u>FRAMELESS SHOPFRONTS AND LOBBY SCREENS</u>				
	<u>Frameless structural glass (no reinforcing ribs) shopfronts and doors with natural anodised aluminium top and bottom rails, with polished stainless steel patch fittings, approved floor spring hinges and locking bolts (pull handles elsewhere)</u>				
270	Shopfront 1000mm wide x 2400mm high (300mm below concrete slab)	No	1		
271	Shopfront 4000mm wide x 2400mm high with double swing double door 1600mm wide x 2100mm high (300mm below concrete slab)	No	1		
	<u>Frameless structural glass (no reinforcing ribs) lobby screens and doors with natural anodised aluminium top and bottom rails, with polished stainless steel patch fittings, approved floor spring hinges and locking bolts (pull handles elsewhere)</u>				
272	Lobby screen 1000mm wide x 2400mm high (300mm below concrete slab)	No	1		
273	Lobby double swing double door 1600mm wide x 2100mm high (300mm below concrete slab)	No	1		
274	Lobby screen 4000mm wide x 2400mm high with double swing double door 1600mm wide x 2100mm high (300mm below concrete slab)	No	1		
275	350mm U-shaped back-to-back pull handles (PC Amount of R5000,00 per pair)	Pairs	1		
276	Door stop (PC Amount of R2000,00), plugged	No	1		
277	Preparation only of door and frame for magnetic lock (magnetic lock supplied and fitted by others)	No	1		
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SECTION NO.15
PLASTERING

	Unit	Quantity	Rate	Amount
<u>SECTION NO.15</u> <u>PLASTERING</u> <u>BILL NO. 1</u> <u>PLASTERING</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>GRANOLITHIC:</u> <u>Method</u> The method to be used shall be either the monolithic method or the bonded method <u>Preparation</u> For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic <u>Mix</u> Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic <u>Panels</u> Granolithic shall be laid in panels not exceeding 14m for monolithic finishes, not exceeding 9,5m for bonded finishes and not exceeding 6m for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints				
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	Unit	Quantity	Rate	Amount
<u>Laying</u>				
Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels				
Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels				
After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated				
<u>Curing, seasoning and protection</u>				
Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying				
<u>SCREEDS</u>				
<u>Screeds wood floated, on concrete</u>				
1 20mm Thick on floors and landings	m ²	1		
2 30mm Thick on floors in sunk panels not exceeding 2m	m ²	1		
3 30mm Thick on floors in raised panels not exceeding 2m	m ²	1		
4 40mm Thick on floors on waterproofing membrane	m ²	1		
5 50mm Thick on floors over underfloor heating coils	m ²	1		
6 Average 20mm thick on floors with upper surface to falls	m ²	1		
7 Average 30mm thick on floors with upper surface to falls and currents	m ²	1		
8 Average 40mm thick on roofs with upper surface to falls	m ²	1		
9 Average 60mm thick on roofs with upper surface to falls and currents	m ²	1		
10 30mm Thick on treads and risers of stairs	m ²	1		
11 40mm Thick on treads and risers of stairs including reedings	m ²	1		
12 40mm Thick on narrow widths not exceeding 300mm wide	m ²	1		
13 Reedings in finish on ramps	m ²	1		
Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
14	Skirtings 70mm high	m	1		
15	Skirtings 70mm high stepped over treads and risers	m	1		
16	Raking skirtings average 60mm high over treads and risers	m	1		
	<u>Screeds steel trowelled, on concrete</u>				
17	20mm Thick on floors and landings	m ²	1		
18	30mm Thick on floors in sunk panels not exceeding 2m	m ²	1		
19	30mm Thick on floors in raised panels not exceeding 2m	m ²	1		
20	40mm Thick on floors on waterproofing membrane	m ²	1		
21	50mm Thick on floors over underfloor heating coils	m ²	1		
22	Average 30mm thick on floors with upper surface to falls	m ²	1		
23	Average 40mm thick on floors with upper surface to falls and currents	m ²	1		
24	Average 50mm thick on roofs with upper surface to falls	m ²	1		
25	Average 60mm thick on roofs with upper surface to falls and currents	m ²	1		
26	20mm Thick on treads and risers of stairs	m ²	1		
27	30mm Thick on treads and risers of stairs including reedings	m ²	1		
28	40mm Thick on narrow widths not exceeding 300mm wide	m ²	1		
29	Reedings in finish on ramps	m ²	1		
30	20mm Thick on top and side(s) of kerbs 300mm girth	m	1		
31	30 x 30mm Triangular fillets against walls, kerbs, etc	m	1		
32	Skirtings 70mm high	m	1		
33	Skirtings 70mm high stepped over treads and risers	m	1		
34	Raking skirtings average 70mm high over treads and risers	m	1		
	<u>Screeds with compressive strength of 15 MPa steel trowelled, on concrete</u>				
35	30mm Thick on floors and landings	m ²	1		
36	30mm Thick on floors in sunk panels not exceeding 2m	m ²	1		
	Carried to Collection			R	
	Section No. 15				
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	Plastering				

		Unit	Quantity	Rate	Amount
37	30mm Thick on floors in raised panels not exceeding 2m	m ²	1		
38	40mm Thick on floors on waterproofing membrane	m ²	1		
39	40mm Thick on floors over underfloor heating coils	m ²	1		
40	Average 30mm thick on floors with upper surface to falls	m ²	1		
41	Average 40mm thick on floors with upper surface to falls and currents	m ²	1		
42	Average 50mm thick on roofs with upper surface to falls	m ²	1		
43	Average 60mm thick on roofs with upper surface to falls and currents	m ²	1		
44	30mm Thick on treads and risers of stairs	m ²	1		
45	40mm Thick on treads and risers of stairs including reedings	m ²	1		
46	60mm Thick on narrow widths not exceeding 300mm wide	m ²	1		
47	Reedings in finish on ramps	m ²	1		
48	20mm Thick on top and side(s) of kerbs 300mm girth	m	1		
49	30 x 30mm Triangular fillets against walls, kerbs, etc	m	1		
50	Skirtings 70mm high	m	1		
51	Skirtings 70mm high stepped over treads and risers	m	1		
52	Raking skirtings average 70mm high over treads and risers	m	1		
	<u>GRANOLITHIC</u>				
	<u>Untinted granolithic, on concrete</u>				
53	25mm Thick on floors and landings	m ²	1		
54	30mm Thick on floors in sunk panels not exceeding 2m	m ²	1		
55	Skirtings 70mm high stepped over treads and risers	m	1		
	<u>INTERNAL PLASTER</u>				
	<u>Compo plaster steel trowelled, on brickwork</u>				
56	On walls	m ²	1		
57	On walls in sunk panels not exceeding 2m	m ²	1		
58	On walls in raised panels not exceeding 2m	m ²	1		
	Carried to Collection			R	
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	Plastering				

		Unit	Quantity	Rate	Amount
59	On walls between timber grounds to receive panelling (area of grounds not deducted)	m ²	1		
60	On circular walls	m ²	1		
61	On projecting and isolated columns	m ²	1		
62	On ceilings	m ²	1		
63	On raking soffits of stairs	m ²	1		
64	On projecting and isolated beams	m ²	1		
65	On narrow widths not exceeding 300mm wide	m ²	1		
66	On side(s) and front edge of surrounds 300mm girth	m	1		
67	On sloping top, front edge and projecting soffit of sills 300mm girth	m	1		
68	On sloping top, edges and projecting soffits of copings 300mm girth	m	1		
69	Horizontal mouldings 80 x 30mm projection and not exceeding 300mm girth, including ends, mitres and intersections	m	1		
	<u>Compo plaster steel trowelled, on concrete</u>				
70	On walls	m ²	1		
71	On walls in sunk panels not exceeding 2m	m ²	1		
72	On walls in raised panels not exceeding 2m	m ²	1		
73	On walls between timber grounds to receive panelling (area of grounds not deducted)	m ²	1		
74	On circular walls	m ²	1		
75	On projecting and isolated columns	m ²	1		
76	On ceilings	m ²	1		
77	On raking soffits of stairs	m ²	1		
78	On projecting and isolated beams	m ²	1		
79	On narrow widths not exceeding 300mm wide	m ²	1		
80	On side(s) and front edge of surrounds 300mm girth	m	1		
81	On sloping top, front edge and projecting soffit of sills 300mm girth	m	1		
	Carried to Collection			R	
	Section No. 15				
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	Plastering				

		Unit	Quantity	Rate	Amount
82	On sloping top, edges and projecting soffits of copings 300mm girth	m	1		
83	Horizontal mouldings 80 x 30mm projection and not exceeding 300mm girth, including ends, mitres and intersections	m	1		
	<u>Cement plaster wood floated for tiles, on brickwork</u>				
84	On walls	m ²	1		
85	On walls in sunk panels not exceeding 2m	m ²	1		
86	On walls in raised panels not exceeding 2m	m ²	1		
87	On walls between timber grounds to receive panelling (area of grounds not deducted)	m ²	1		
88	On circular walls	m ²	1		
89	On projecting and isolated columns	m ²	1		
90	On ceilings	m ²	1		
91	On raking soffits of stairs	m ²	1		
92	On projecting and isolated beams	m ²	1		
93	On narrow widths not exceeding 300mm wide	m ²	1		
94	On side(s) and front edge of surrounds 300mm girth	m	1		
95	On sloping top, front edge and projecting soffit of sills 300mm girth	m	1		
96	On sloping top, edges and projecting soffit(s) of copings 300mm girth	m	1		
97	Horizontal mouldings 80 x 30mm projection and not exceeding 300mm girth, including ends, mitres and intersections	m	1		
	<u>Cement plaster wood floated for tiles, on concrete</u>				
98	On walls	m ²	1		
99	On walls in sunk panels not exceeding 2m	m ²	1		
100	On walls in raised panels not exceeding 2m	m ²	1		
101	On walls between timber grounds to receive panelling (area of grounds not deducted)	m ²	1		
102	On circular walls	m ²	1		
103	On projecting and isolated columns	m ²	1		
	Carried to Collection			R	
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	Plastering				

		Unit	Quantity	Rate	Amount
104	On ceilings	m ²	1		
105	On raking soffits of stairs	m ²	1		
106	On projecting and isolated beams	m ²	1		
107	On narrow widths not exceeding 300mm wide	m ²	1		
108	On side(s) and front edge of surrounds 300mm girth	m	1		
109	On sloping top, front edge and projecting soffit of sills 300mm girth	m	1		
110	On sloping top, edges and projecting soffits of copings 300mm girth	m	1		
111	Horizontal mouldings 80 x 30mm projection and not exceeding 300mm girth, including ends, mitres and intersections	m	1		
	<u>Cement plaster steel trowelled, on brickwork</u>				
112	On walls	m ²	1		
113	On walls in sunk panels not exceeding 2m	m ²	1		
114	On walls in raised panels not exceeding 2m	m ²	1		
115	On walls between timber grounds to receive panelling (area of grounds not deducted)	m ²	1		
116	On circular walls	m ²	1		
117	On projecting and isolated columns	m ²	1		
118	On ceilings	m ²	1		
119	On raking soffits of stairs	m ²	1		
120	On projecting and isolated beams	m ²	1		
121	On narrow widths not exceeding 300mm wide	m ²	1		
122	On side(s) and front edge of surrounds 300mm girth	m	1		
123	On sloping top, front edge and projecting soffit of sills 300mm girth	m	1		
124	On sloping top, edges and projecting soffits of copings 300mm girth	m	1		
	<u>Cement plaster steel trowelled, on concrete</u>				
125	On walls	m ²	1		
126	On walls in sunk panels not exceeding 2m	m ²	1		
	Carried to Collection			R	
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	Plastering				

		Unit	Quantity	Rate	Amount
127	On walls in raised panels not exceeding 2m	m ²	1		
128	On walls between timber grounds to receive panelling (area of grounds not deducted)	m ²	1		
129	On circular walls	m ²	1		
130	On projecting and isolated columns	m ²	1		
131	On ceilings	m ²	1		
132	On raking soffits of stairs	m ²	1		
133	On projecting and isolated beams	m ²	1		
134	On narrow widths not exceeding 300mm wide	m ²	1		
135	On sides and front edge of surrounds 300mm girth	m	1		
136	On sloping top, front edge and projecting soffit of sills 300mm girth	m	1		
137	On sloping top, edges and projecting soffits of copings 300mm girth	m	1		
138	Horizontal mouldings 80 x 30mm projection and not exceeding 300mm girth, including ends, mitres and intersections	m	1		
	<u>Cement plaster rendering coat with gypsum skim plaster finishing coat, on brickwork</u>				
139	On walls	m ²	1		
140	On walls in sunk panels not exceeding 2m	m ²	1		
141	On walls in raised panels not exceeding 2m	m ²	1		
142	On walls between timber grounds to receive panelling (area of grounds not deducted)	m ²	1		
143	On circular walls	m ²	1		
144	On projecting and isolated columns	m ²	1		
145	On ceilings	m ²	1		
146	On raking soffits of stairs	m ²	1		
147	On projecting and isolated beams	m ²	1		
148	On narrow widths not exceeding 300mm wide	m ²	1		
149	On sides and front edge of surrounds 300mm girth	m	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
150	On sloping top, front edge and projecting soffit of sills 300mm girth	m	1		
151	On sloping top, edges and projecting soffits of copings 300mm girth	m	1		
152	Horizontal mouldings 80 x 30mm projection and not exceeding 300mm girth, including ends, mitres and intersections	m	1		
	<u>Cement plaster rendering coat with gypsum skim plaster finishing coat, on concrete</u>				
153	On walls	m ²	1		
154	On walls in sunk panels not exceeding 2m	m ²	1		
155	On walls in raised panels not exceeding 2m	m ²	1		
156	On walls between timber grounds to receive panelling (area of grounds not deducted)	m ²	1		
157	On circular walls	m ²	1		
158	On projecting and isolated columns	m ²	1		
159	On ceilings	m ²	1		
160	On raking soffits of stairs	m ²	1		
161	On projecting and isolated beams	m ²	1		
162	On narrow widths not exceeding 300mm wide	m ²	1		
163	On sides and front edge of surrounds 300mm girth	m	1		
164	On sloping top, front edge and projecting soffit of sills 300mm girth	m	1		
165	On sloping top, edges and projecting soffits of copings 300mm girth	m	1		
166	Horizontal mouldings 80 x 30mm projection and not exceeding 300mm girth, including ends, mitres and intersections	m	1		
	<u>Rough-cast plaster, on brickwork</u>				
167	On walls	m ²	1		
168	On walls in sunk panels not exceeding 2m	m ²	1		
169	On walls in raised panels not exceeding 2m	m ²	1		
170	On walls between timber grounds to receive panelling (area of grounds not deducted)	m ²	1		
	Carried to Collection			R	
	Section No. 15				
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	Plastering				

		Unit	Quantity	Rate	Amount
171	On circular walls	m ²	1		
172	On projecting and isolated columns	m ²	1		
173	On ceilings	m ²	1		
174	On raking soffits of stairs	m ²	1		
175	On projecting and isolated beams	m ²	1		
176	On narrow widths not exceeding 300mm wide	m ²	1		
177	On side(s) and front edge of surrounds 300mm girth	m	1		
178	On sloping top, front edge and projecting soffit of sills 300mm girth	m	1		
179	On sloping top, edges and projecting soffits of copings 300mm girth	m	1		
180	Horizontal mouldings 80 x 30mm projection and not exceeding 300mm girth, including ends, mitres and intersections	m	1		
	<u>Rough-cast plaster, on concrete</u>				
181	On walls	m ²	1		
182	On walls in sunk panels not exceeding 2m	m ²	1		
183	On walls in raised panels not exceeding 2m	m ²	1		
184	On walls between timber grounds to receive panelling (area of grounds not deducted)	m ²	1		
185	On circular walls	m ²	1		
186	On projecting and isolated columns	m ²	1		
187	On ceilings	m ²	1		
188	On raking soffits of stairs	m ²	1		
189	On projecting and isolated beams	m ²	1		
190	On narrow widths not exceeding 300mm wide	m ²	1		
191	On sides and front edge of surrounds 300mm girth	m	1		
192	On sloping top, front edge and projecting soffit of sills 300mm girth	m	1		
193	On sloping top, edges and projecting soffits of copings 300mm girth	m	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
194	Horizontal mouldings 80 x 30mm projection and not exceeding 300mm girth, including ends, mitres and intersections	m	1		
	<u>Fine rough-cast plaster, on brickwork</u>				
195	On walls	m ²	1		
196	On walls in sunk panels not exceeding 2m	m ²	1		
197	On walls in raised panels not exceeding 2m	m ²	1		
198	On walls between timber grounds to receive panelling (area of grounds not deducted)	m ²	1		
199	On circular walls	m ²	1		
200	On projecting and isolated columns	m ²	1		
201	On ceilings	m ²	1		
202	On raking soffits of stairs	m ²	1		
203	On projecting and isolated beams	m ²	1		
204	On narrow widths not exceeding 300mm wide	m ²	1		
205	On side(s) and front edge of surrounds 300mm girth	m	1		
206	On sloping top, front edge and projecting soffit of sills 300mm girth	m	1		
207	On sloping top, edges and projecting soffits of copings 300mm girth	m	1		
208	Horizontal mouldings 80 x 30mm projection and not exceeding 300mm girth, including ends, mitres and intersections	m	1		
	<u>Fine rough-cast plaster, on concrete</u>				
209	On walls	m ²	1		
210	On walls in sunk panels not exceeding 2m	m ²	1		
211	On walls in raised panels not exceeding 2m	m ²	1		
212	On walls between timber grounds to receive panelling (area of grounds not deducted)	m ²	1		
213	On circular walls	m ²	1		
214	On projecting and isolated columns	m ²	1		
215	On ceilings	m ²	1		
216	On raking soffits of stairs	m ²	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
217	On projecting and isolated beams	m ²	1		
218	On narrow widths not exceeding 300mm wide	m ²	1		
219	On sides and front edge of surrounds 300mm girth	m	1		
220	On sloping top, front edge and projecting soffit of sills 300mm girth	m	1		
221	On sloping top, edges and projecting soffits of copings 300mm girth	m	1		
222	Horizontal mouldings 80 x 30mm projection and not exceeding 300mm girth, including ends, mitres and intersections	m	1		
<u>EXTERNAL PLASTER</u>					
<u>Compo plaster wood floated, on brickwork</u>					
223	On walls	m ²	1		
224	On walls in raised panels not exceeding 2m	m ²	1		
225	On walls between timber grounds to receive panelling (area of grounds not deducted)	m ²	1		
226	On circular walls	m ²	1		
227	On projecting and isolated columns	m ²	1		
228	On ceilings	m ²	1		
229	On raking soffits of stairs	m ²	1		
230	On projecting and isolated beams	m ²	1		
231	On narrow widths not exceeding 300mm wide	m ²	1		
232	On sides and front edge of surrounds 300mm girth	m	1		
233	On sloping top, front edge and projecting soffit of sills 300mm girth	m	1		
234	On sloping top, edges and projecting soffits of copings 300mm girth	m	1		
235	Horizontal mouldings 80 x 30mm projection and not exceeding 300mm girth, including ends, mitres and intersections	m	1		
<u>Compo plaster wood floated, on concrete</u>					
236	On walls	m ²	1		
237	On walls in sunk panels not exceeding 2m	m ²	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
238	On walls in raised panels not exceeding 2m	m ²	1		
239	On walls between timber grounds to receive panelling (area of grounds not deducted)	m ²	1		
240	On circular walls	m ²	1		
241	On projecting and isolated columns	m ²	1		
242	On ceilings	m ²	1		
243	On raking soffits of stairs	m ²	1		
244	On projecting and isolated beams	m ²	1		
245	On narrow widths not exceeding 300mm wide	m ²	1		
246	On side(s) and front edge of surrounds 300mm girth	m	1		
247	On sloping top, front edge and projecting soffit of sills 300mm girth	m	1		
248	On sloping top, edges and projecting soffits of copings 300mm girth	m	1		
249	Horizontal mouldings 80 x 30mm projection and not exceeding 300mm girth, including ends, mitres and intersections	m	1		
	<u>Cement plaster wood floated for tiles, on brickwork</u>				
250	On walls	m ²	1		
251	On walls in sunk panels not exceeding 2m	m ²	1		
252	On walls in raised panels not exceeding 2m	m ²	1		
253	On walls between timber grounds to receive panelling (area of grounds not deducted)	m ²	1		
254	On circular walls	m ²	1		
255	On projecting and isolated columns	m ²	1		
256	On ceilings	m ²	1		
257	On raking soffits of stairs	m ²	1		
258	On projecting and isolated beams	m ²	1		
259	On narrow widths not exceeding 300mm wide	m ²	1		
260	On sides and front edge of surrounds 300mm girth	m	1		
261	On sloping top, front edge and projecting soffit of sills 300mm girth	m	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
262	On sloping top, edges and projecting soffits of copings 300mm girth	m	1		
263	Horizontal mouldings 80 x 30mm projection and not exceeding 300mm girth, including ends, mitres and intersections	m	1		
<u>Cement plaster wood floated for tiles, on concrete</u>					
264	On walls	m ²	1		
265	On walls in sunk panels not exceeding 2m	m ²	1		
266	On walls in raised panels not exceeding 2m	m ²	1		
267	On walls between timber grounds to receive panelling (area of grounds not deducted)	m ²	1		
268	On projecting and isolated columns	m ²	1		
269	On ceilings	m ²	1		
270	On raking soffits of stairs	m ²	1		
271	On projecting and isolated beams	m ²	1		
272	On narrow widths not exceeding 300mm wide	m ²	1		
273	On side(s) and front edge of surrounds 300mm girth	m	1		
274	On sloping top, front edge and projecting soffit of sills 300mm girth	m	1		
275	On sloping top, edges and projecting soffits of copings 300mm girth	m	1		
276	Horizontal mouldings 80 x 30mm projection and not exceeding 300mm girth, including ends, mitres and intersections	m	1		
<u>Rough-cast plaster, on brickwork</u>					
277	On walls	m ²	1		
278	On walls in sunk panels not exceeding 2m	m ²	1		
279	On walls in raised panels not exceeding 2m	m ²	1		
280	On walls between timber grounds to receive panelling (area of grounds not deducted)	m ²	1		
281	On circular walls	m ²	1		
282	On projecting and isolated columns	m ²	1		
283	On ceilings	m ²	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
284	On raking soffits of stairs	m ²	1		
285	On projecting and isolated beams	m ²	1		
286	On narrow widths not exceeding 300mm wide	m ²	1		
287	On sides and front edge of surrounds 300mm girth	m	1		
288	On sloping top, front edge and projecting soffit of sills 300mm girth	m	1		
289	On sloping top, edges and projecting soffits of copings 300mm girth	m	1		
290	Horizontal mouldings 80 x 30mm projection and not exceeding 300mm girth, including ends, mitres and intersections	m	1		
	<u>Rough-cast plaster, on concrete</u>				
291	On walls	m ²	1		
292	On walls in sunk panels not exceeding 2m	m ²	1		
293	On walls in raised panels not exceeding 2m	m ²	1		
294	On walls between timber grounds to receive panelling (area of grounds not deducted)	m ²	1		
295	On circular walls	m ²	1		
296	On projecting and isolated columns	m ²	1		
297	On ceilings	m ²	1		
298	On raking soffits of stairs	m ²	1		
299	On projecting and isolated beams	m ²	1		
300	On narrow widths not exceeding 300mm wide	m ²	1		
301	On sides and front edge of surrounds 300mm girth	m	1		
302	On sloping top, front edge and projecting soffit of sills 300mm girth	m	1		
303	On sloping top, edges and projecting soffits of copings 300mm girth	m	1		
304	Horizontal mouldings 80 x 30mm projection and not exceeding 300mm girth, including ends, mitres and intersections	m	1		
	<u>Fine rough-cast plaster, on brickwork</u>				
305	On walls	m ²	1		
	Carried to Collection			R	
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	Plastering				

		Unit	Quantity	Rate	Amount
306	On walls in sunk panels not exceeding 2m	m ²	1		
307	On walls in raised panels not exceeding 2m	m ²	1		
308	On walls between timber grounds to receive panelling (area of grounds not deducted)	m ²	1		
309	On circular walls	m ²	1		
310	On projecting and isolated columns	m ²	1		
311	On ceilings	m ²	1		
312	On raking soffits of stairs	m ²	1		
313	On projecting and isolated beams	m ²	1		
314	On narrow widths not exceeding 300mm wide	m ²	1		
315	On sides and front edge of surrounds 300mm girth	m	1		
316	On sloping top, front edge and projecting soffit of sills 300mm girth	m	1		
317	On sloping top, edges and projecting soffits of copings 300mm girth	m	1		
318	Horizontal mouldings 80 x 30mm projection and not exceeding 300mm girth, including ends, mitres and intersections	m	1		
	<u>Fine rough-cast plaster, on concrete</u>				
319	On walls	m ²	1		
320	On walls in sunk panels not exceeding 2m	m ²	1		
321	On walls between timber grounds to receive panelling (area of grounds not deducted)	m ²	1		
322	On circular walls	m ²	1		
323	On projecting and isolated columns	m ²	1		
324	On ceilings	m ²	1		
325	On raking soffits of stairs	m ²	1		
326	On projecting and isolated beams	m ²	1		
327	On narrow widths not exceeding 300mm wide	m ²	1		
328	On sides and front edge of surrounds 300mm girth	m	1		
329	On sloping top, front edge and projecting soffit of sills 300mm girth	m	1		
	Carried to Collection			R	
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	Plastering				

		Unit	Quantity	Rate	Amount
330	On sloping top, edges and projecting soffits of copings 300mm girth	m	1		
331	Horizontal mouldings 80 x 30mm projection and not exceeding 300mm girth, including ends, mitres and intersections	m	1		
<u>SPECIALISED PLASTER TYPE WALL COATINGS</u>					
All specialised plaster type wall coatings are to be executed in strict accordance with the manufacturer's instructions					
<u>15mm Thick cement based resin bonded, self curing, pre-pigmented, plasticised, ready mixed plaster applied in a single coat with a spray gun on fair faced brickwork</u>					
332	On walls	m ²	1		
333	On circular walls	m ²	1		
334	On projecting and isolated columns	m ²	1		
335	On ceilings	m ²	1		
336	On raking soffits of stairs	m ²	1		
337	On projecting and isolated beams	m ²	1		
338	On narrow widths not exceeding 300mm wide	m ²	1		
<u>2mm Thick resin bonded plaster finish applied in a single coat with a steel trowel and floated with a float-trowel, on plaster (plaster elsewhere), including priming</u>					
339	On walls	m ²	1		
340	On circular walls	m ²	1		
341	On projecting and isolated columns	m ²	1		
342	On ceilings	m ²	1		
343	On raking soffits of stairs	m ²	1		
344	On projecting and isolated beams	m ²	1		
345	On narrow widths not exceeding 300mm wide	m ²	1		
346	235 x 157mm Cast plaster or white plastic plain pattern air grating fixed flush with plaster face	No	1		
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SECTION NO.16

TILING

	Unit	Quantity	Rate	Amount
<u>SECTION NO.16</u>				
<u>TILING</u>				
<u>BILL NO. 1</u>				
<u>TILING</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Patterns</u>				
Unless otherwise described, tiles shall be laid with continuous joints in both directions				
<u>Fixing</u>				
Unless described as fixed with adhesive to plaster (plaster elsewhere) descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding				
Tiling described as fixed with adhesive on power floated concrete shall be deemed to include for approved tiling key-coat				
Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles				
<u>WALL TILING</u>				
<u>200 x 200 x 5mm White matt ceramic tiles fixed with an approved adhesive to plaster (plaster elsewhere) and flush pointed with epoxy tile grout</u>				
1	On walls	m ²	1	
2	On walls circular to exceeding 300mm radius	m ²	1	
3	On walls circular to not exceeding 300mm radius	m ²	1	
4	On walls in isolated panels, splashbacks, etc not exceeding 1m	m ²	1	
5	On walls to diagonal pattern	m ²	1	
6	On projecting and isolated columns	m ²	1	
7	On piers and pilasters	m ²	1	
8	On narrow widths not exceeding 300mm	m ²	1	
9	On narrow widths not exceeding 300mm to diagonal pattern	m ²	1	
10	On sills 150mm wide of bullnose tiles laid flat	m	1	
Carried to Collection			R	
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Tiling				

		Unit	Quantity	Rate	Amount
11	Circular cutting	m	1		
12	Fair exposed cutting and fitting around rectangular handrail, baluster, etc not exceeding 300mm girth	No	1		
13	Fair exposed cutting and fitting around pipe not exceeding 100mm external diameter	No	1		
14	Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 150mm external diameter	No	1		
	<u>200 x 200 x 5mm White glazed ceramic tiles fixed with an approved adhesive to plaster (plaster elsewhere) and flush pointed with epoxy tile grout</u>				
15	On walls	m ²	1		
16	On walls circular to exceeding 300mm radius	m ²	1		
17	On walls circular to not exceeding 300mm radius	m ²	1		
18	On walls in isolated panels, splashbacks, etc not exceeding 1m	m ²	1		
19	On walls to diagonal pattern	m ²	1		
20	On projecting and isolated columns	m ²	1		
21	On piers and pilasters	m ²	1		
22	On narrow widths not exceeding 300mm	m ²	1		
23	On narrow widths not exceeding 300mm to diagonal pattern	m ²	1		
24	On sills 150mm wide of bullnose tiles laid flat	m	1		
25	Circular cutting	m	1		
26	Fair exposed cutting and fitting around rectangular handrail, baluster, etc not exceeding 300mm girth	No	1		
27	Fair exposed cutting and fitting around pipe not exceeding 100mm external diameter	No	1		
28	Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 150mm external diameter	No	1		
	<u>200 x 200mm "Johnsons" matt white wall tiles fixed with an approved adhesive to plaster (plaster elsewhere) and flush pointed with epoxy tile grout</u>				
29	On walls	m ²	1		
30	On walls circular to exceeding 300mm radius	m ²	1		
	Carried to Collection			R	
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	Tiling				

		Unit	Quantity	Rate	Amount
31	On walls circular to not exceeding 300mm radius	m ²	1		
32	On walls in isolated panels, splashbacks, etc not exceeding 1m	m ²	1		
33	On walls to diagonal pattern	m ²	1		
34	On projecting and isolated columns	m ²	1		
35	On piers and pilasters	m ²	1		
36	On narrow widths not exceeding 300mm	m ²	1		
37	On narrow widths not exceeding 300mm to diagonal pattern	m ²	1		
38	On sills 150mm wide of bullnose tiles laid flat	m	1		
39	Circular cutting	m	1		
40	Fair exposed cutting and fitting around rectangular handrail, baluster, etc not exceeding 300mm girth	No	1		
41	Fair exposed cutting and fitting around pipe not exceeding 100mm external diameter	No	1		
42	Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 150mm external diameter	No	1		
	<u>600 x 600 x 10mm Porcelain tiles fixed with an approved adhesive to plaster (plaster elsewhere) and flush pointed with epoxy tile grout</u>				
43	On walls	m ²	1		
44	On walls circular to exceeding 300mm radius	m ²	1		
45	On walls circular to not exceeding 300mm radius	m ²	1		
46	On walls in isolated panels, splashbacks, etc not exceeding 1m	m ²	1		
47	On walls to diagonal pattern	m ²	1		
48	On projecting and isolated columns	m ²	1		
49	On piers and pilasters	m ²	1		
50	On narrow widths not exceeding 300mm	m ²	1		
51	On narrow widths not exceeding 300mm to diagonal pattern	m ²	1		
52	On sills 150mm wide of bullnose tiles laid flat	m	1		
53	Circular cutting	m	1		
	Carried to Collection			R	
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	Tiling				

		Unit	Quantity	Rate	Amount
54	Fair exposed cutting and fitting around rectangular handrail, baluster, etc not exceeding 300mm girth	No	1		
55	Fair exposed cutting and fitting around pipe not exceeding 100mm external diameter	No	1		
56	Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 150mm external diameter	No	1		
<u>FLOOR TILING</u>					
<u>600 x 600 x 9mm First grade full body glazed porcelain floor tiles fixed with an approved adhesive to screeded concrete floors (screed elsewhere) and flush pointed with "Ivory 328" epoxy tile grout</u>					
57	On floors and landings	m ²	1		
58	On narrow widths not exceeding 300mm wide	m ²	1		
59	Circular cutting	m	1		
60	On margins 115mm wide of tiles laid to stretcher pattern	m	1		
61	On thresholds 240mm wide of tiles laid flat	m	1		
62	On thresholds 240mm wide of tiles laid sloping	m	1		
63	On risers 115mm high	m	1		
64	On treads 300mm high	m	1		
65	On treads 300mm wide of bullnose tiles	m	1		
66	On raking and stepped outer edges of stairs 200mm wide extreme	m	1		
67	Skirting 100mm high	m	1		
68	Sloping skirting 115mm high extreme including stepped cutting over treads and risers	m	1		
69	Extra over for end tile	No	1		
70	Extra over for internal corner tile	No	1		
71	Extra over for external corner tile	No	1		
72	Fair exposed cutting and fitting around rectangular handrail, baluster, etc not exceeding 300mm girth	No	1		
73	Fair exposed cutting and fitting around pipe not exceeding 100mm external diameter	No	1		
74	Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 150mm external diameter	No	1		
Carried to Collection				R	
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	Unit	Quantity	Rate	Amount
<u>300 x 300 x 9mm First grade full body glazed porcelain floor tiles fixed with an approved adhesive to screeded concrete floors (screed elsewhere) and flush pointed with "Ivory 328"</u>				
75	On floors and landings	m ²	1	
76	On narrow widths not exceeding 300mm wide	m ²	1	
77	Circular cutting	m	1	
78	On margins 115mm wide of tiles laid to stretcher pattern	m	1	
79	On thresholds 240mm wide of tiles laid flat	m	1	
80	On thresholds 240mm wide of tiles laid sloping	m	1	
81	On risers 115mm high	m	1	
82	On treads 300mm high	m	1	
83	On treads 300mm wide of bullnose tiles	m	1	
84	On raking and stepped outer edges of stairs 200mm wide extreme	m	1	
85	Skirting 100mm high	m	1	
86	Sloping skirting 115mm high extreme including stepped cutting over treads and risers	m	1	
87	Extra over for end tile	No	1	
88	Extra over for internal corner tile	No	1	
89	Extra over for external corner tile	No	1	
90	Fair exposed cutting and fitting around rectangular handrail, baluster, etc not exceeding 300mm girth	No	1	
91	Fair exposed cutting and fitting around pipe not exceeding 100mm external diameter	No	1	
92	Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 150mm external diameter	No	1	
<u>CHANNELS</u>				
<u>"Vaal" or other equal and approved white glazed fireclay block channels bedded and jointed in 1:3 cement mortar and pointed with flush joints in 1:3 white cement grout</u>				
93	100 x 100mm Block channels	m	1	
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		Unit	Quantity	Rate	Amount
	<u>Extra over block channels for:</u>				
94	Fair end	No	1		
95	Stopped end	No	1		
96	Angle intersection	No	1		
97	T-intersection	No	1		
98	X-intersection	No	1		
99	Outlet	No	1		
100	Stopped end with outlet	No	1		
	<u>SUNDRIES</u>				
	<u>"Vaal" or other equal and approved white glazed ceramic soap dishes etc</u>				
101	150 x 150mm Semi-recessed toilet paper holder	No	1		
102	150 x 150mm Recessed toilet paper holder	No	1		
103	150 x 150mm Semi-recessed soap dish	No	1		
104	150 x 150mm Recessed soap dish	No	1		
	<u>Aluminium dividing strips</u>				
105	10 x 3mm Flat section dividing strips between tiles	m	1		
106	10 x 10 x 1,6mm L-section dividing strips between tiles	m	1		
	<u>Aluminium corner protectors, stair nosings, expansion joint strips, etc</u>				
107	70 x 70 x 6mm Corner protectors	m	1		
108	50 x 25 x 2mm Thick stair nosings	m	1		
109	20 x 10mm Deep single expansion joint strips with vinyl inlay	m	1		
110	30 x 12mm Deep double expansion joint strips with vinyl inlay	m	1		
111	8mm "Genesis" hard extruded PVC tile edge trim and seal behind tiles with adhesive at horizontal, vertical or sloping external corners	m	1		
112	"Genesis ESB-Code 100" heavy brass 10mm high straight edge trim, bedded in tile adhesive as stair	m	1		
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SECTION NO.17
PLUMBING AND DRAINAGE

		Unit	Quantity	Rate	Amount
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<u>PLUMBING AND DRAINAGE</u>					
<u>BILL NO. 1</u>					
<u>PLUMBING AND DRAINAGE</u>					
<u>RAINWATER DISPOSAL</u>					
<u>2mm Seamless coloured coated aluminium gutters and rainwater pipes</u>					
1	150mm Ogee roof gutters	m	1		
2	75mm Diameter PVC rainwater pipes	m	1		
3	100 x 80mm Aluminium rainwater pipes	m	1		
4	Extra over gutter for stopped end	No	1		
5	Extra over gutter for angle	No	1		
6	Extra over gutter for outlet for 75mm diameter PVC pipe	No	1		
7	Extra over gutter for outlet for 100 x 80mm aluminium pipe	No	1		
8	Extra over 75mm diameter PVC rainwater pipe for bend	No	1		
9	Extra over 100 x 80mm aluminium rainwater pipe for bend	No	1		
10	Extra over 75mm diameter PVC rainwater pipe for plinth bend	No	1		
11	Extra over 100 x 80mm aluminium rainwater pipe for plinth bend	No	1		
12	Extra over 75mm diameter PVC rainwater pipe for shoe	No	1		
13	Extra over 100 x 80mm aluminium rainwater pipe for shoe	No	1		
14	Extra over 75mm diameter PVC rainwater pipe for eaves or plinth offset	No	1		
15	Extra over 100 x 80mm aluminium rainwater pipe for eaves or plinth offset	No	1		
16	Extra over 75mm diameter PVC rainwater pipe for swan-neck	No	1		
17	Extra over 100 x 80mm aluminium rainwater pipe for swan-neck	No	1		
18	Spreader for 75mm diameter PVC pipe 1000mm long	No	1		
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		Unit	Quantity	Rate	Amount
19	Spreader for 100 x 80mm aluminium pipe 1000mm long	No	1		
20	Spreader 500mm long for 75mm diameter PVC pipe with half closed ends and 25mm diameter holes at 75mm centres	No	1		
21	Spreader 500mm long for 100 x 80mm aluminium pipe with half closed ends and 25mm diameter holes at 75mm centres	No	1		
22	300 x 200 x 200mm Deep rainwater head with outlet for 75mm diameter PVC pipe	No	1		
23	300 x 200 x 200mm Deep rainwater head with outlet for 100 x 80mm aluminium pipe	No	1		
<u>Fibre-cement gutters and rainwater pipes</u>					
24	125mm Half-round roof gutters	m	1		
25	125 x 125 x 125mm VHV roof gutters	m	1		
26	75mm Diameter PVC rainwater pipes	m	1		
27	110mm Diameter PVC rainwater pipes	m	1		
28	Extra over gutter for stopped end	No	1		
29	Extra over gutter for angle	No	1		
30	Extra over gutter for outlet for 75mm diameter PVC pipe	No	1		
31	Extra over gutter for outlet for 110mm diameter PVC pipe	No	1		
32	Extra over 75mm diameter PVC rainwater pipe for bend	No	1		
33	Extra over 110mm diameter PVC rainwater pipe for	No	1		
34	Extra over 110mm diameter PVC rainwater pipe for plinth bend	No	1		
35	Extra over 75mm diameter PVC rainwater pipe for plinth bend	No	1		
36	Extra over 75mm diameter PVC rainwater pipe for shoe	No	1		
37	Extra over 110mm diameter PVC rainwater pipe for shoe	No	1		
38	Extra over 75mm diameter PVC rainwater pipe for eaves or plinth offset	No	1		
39	Extra over 110mm diameter PVC rainwater pipe for eaves or plinth offset	No	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
40	Extra over 75mm diameter PVC rainwater pipe for swan-neck	No	1		
41	Extra over 110mm diameter PVC rainwater pipe for swan-neck	No	1		
42	300 x 300 x 200mm Deep rainwater head with outlet for 75mm diameter PVC pipe	No	1		
43	300 x 300 x 200mm Deep rainwater head with outlet for 110mm diameter PVC pipe	No	1		
<u>PVC-U gutters and rainwater pipes</u>					
44	125mm Half-round roof gutters	m	1		
45	125mm Half-round roof gutters with beaded front edge	m	1		
46	75mm Diameter PVC rainwater pipes	m	1		
47	Extra over gutter for stopped end	No	1		
48	Extra over gutter for angle	No	1		
49	Extra over gutter for outlet for 75mm diameter PVC pipe	No	1		
50	Extra over 75mm diameter PVC rainwater pipe for bend	No	1		
51	Extra over 75mm diameter PVC rainwater pipe for plinth bend	No	1		
52	Extra over 75mm diameter PVC rainwater pipe for shoe	No	1		
53	Extra over 75mm diameter PVC rainwater pipe for eaves or plinth offset	No	1		
54	Extra over 75mm diameter PVC rainwater pipe for swan-neck	No	1		
<u>PVC-U pipes</u>					
55	75mm Pipes	m	1		
56	110mm Pipes	m	1		
57	110mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
<u>Extra over PVC-U pipes for fittings</u>					
58	75mm BSP adaptor to cast iron	No	1		
59	110mm BSP adaptor to cast iron	No	1		
60	75mm Bend	No	1		
61	110mm Bend	No	1		
				R	
Carried to Collection					
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		Unit	Quantity	Rate	Amount
62	75mm Long radius bend	No	1		
63	110mm Long radius bend	No	1		
64	75mm Junction	No	1		
65	110mm Junction	No	1		
66	110mm Reducing junction	No	1		
	<u>Cast iron outlets</u>				
67	80mm Vertical outlet	No	1		
68	100mm Vertical outlet	No	1		
69	80mm 45 Degree side outlet	No	1		
70	100mm 45 Degree side outlet	No	1		
71	80mm Two-way outlet	No	1		
72	100mm Two-way outlet	No	1		
	<u>Extra over cast iron pipes for fittings:</u>				
73	100mm Bend	No	1		
74	100mm Junction	No	1		
75	100mm Cast iron bend including adaptors	No	1		
	<u>SUBSOIL DRAINAGE</u>				
	<u>Earthworks</u>				
76	Excavation in earth not exceeding 1m deep for pipe trenches	m ³	1		
77	Backfilling to pipe trenches	m ³	1		
78	13,2mm Crushed stone encasing to pipes	m ³	1		
79	"Kaytech U14" geofabric filter blanket wrapped around 300 x 300mm stone encasing with 150mm side and 300mm end laps, including stitching	m ²	1		
80	"Kaytech U14" geofabric filter blanket wrapped around 110mm external diameter agricultural pipes with 150mm side and 300mm end laps, including stitching	m	1		
	<u>HDPe pipes</u>				
81	110mm Pipes laid in stone encasing (encasing elsewhere)	m	1		
	Carried to Collection			R	
	Section No. 17				
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		Unit	Quantity	Rate	Amount
	<u>Slotted PVC-U flexible drainage pipes</u>				
82	110mm Pipes laid in stone encasing (encasing elsewhere)	m	1		
	<u>Extra over HDPe pipes for fittings</u>				
83	110mm End cap	No	1		
84	110mm Bend	No	1		
85	110mm Junction	No	1		
	<u>Extra over slotted PVC-U flexible drainage pipes for fittings</u>				
86	110mm End cap	No	1		
87	110mm Bend	No	1		
88	110mm Junction	No	1		
	<u>PRECAST CONCRETE CHANNELS</u>				
	<u>Channels</u>				
89	460 x 170mm Channel 1000mm long with segmental channel with one open end and one stopped end formed therein and finished smooth, including placing in position under shoe of rainwater pipe on a well rammed earth bottom	No	1		
90	650 x 220mm Channel 1000mm long with segmental channel with one open end and one stopped end formed therein and finished smooth, including placing in position under shoe of rainwater pipe on a well rammed earth bottom	No	1		
	<u>STORMWATER DRAINAGE</u>				
	<u>Heavy duty class 34 uPVC pipes</u>				
91	110mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
92	160mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
93	200mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
94	110mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	1		
95	160mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
96	200mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	1		
97	110mm Pipes laid in and including trenches exceeding 2m and not exceeding 3m deep	m	1		
98	160mm Pipes laid in and including trenches exceeding 2m and not exceeding 3m deep	m	1		
99	200mm Pipes laid in and including trenches exceeding 2m and not exceeding 3m deep	m	1		
	<u>Extra over heavy duty class 34 uPVC pipes for the following fittings :</u>				
100	110mm Bend	No	1		
101	160mm Bend	No	1		
102	200mm Bend	No	1		
103	110mm Junction	No	1		
104	160mm Junction	No	1		
105	200mm Junction	No	1		
106	160mm Reducing junction	No	1		
107	200mm Reducing junction	No	1		
	<u>Class 100D concrete pipes with interlocking joints</u>				
108	300mm Pipes laid in trenches (trenches elsewhere)	m	1		
109	300mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
110	300mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	1		
	<u>Class 100D concrete pipes with spigot and socket joints with rubber rings</u>				
111	450mm Pipes laid in trenches (trenches elsewhere)	m	1		
112	450mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
113	600mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
114	450mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	1		
115	600mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
116	450mm Pipes laid in and including trenches exceeding 2m and not exceeding 3m deep	m	1		
117	600mm Pipes laid in and including trenches exceeding 2m and not exceeding 3m deep	m	1		
118	450mm Pipes laid in and including trenches exceeding 3m and not exceeding 4m deep	m	1		
119	600mm Pipes laid in and including trenches exceeding 3m and not exceeding 4m deep	m	1		
	<u>The following inspection chambers, catchpits, etc</u>				
120	450 x 450mm Junction box 750mm deep internally	No	1		
121	600 x 600mm Junction box not exceeding 1000mm deep internally	No	1		
122	600 x 600mm Junction box exceeding 1000mm and not exceeding 2000mm deep internally	No	1		
123	380 x 380mm Rainwater sump 750mm deep internally	No	1		
124	380 x 380mm Rainwater sump not exceeding 1000mm deep internally	No	1		
125	380 x 380mm Rainwater sump exceeding 1000mm and not exceeding 2000mm deep internally	No	1		
126	450 x 600mm Brick catchpit 750mm deep internally	No	1		
127	450 x 600mm Brick catchpit not exceeding 1000mm deep internally	No	1		
128	450 x 600mm Brick catchpit exceeding 1000mm and not exceeding 2000mm deep internally	No	1		
129	600 x 600mm Brick inspection chamber 750mm deep internally	No	1		
130	600 x 600mm Brick inspection chamber not exceeding 1000mm deep internally	No	1		
131	600 x 600mm Brick inspection chamber exceeding 1000mm and not exceeding 2000mm deep internally	No	1		
132	450 x 600mm Brick inspection chamber 2000mm deep internally, the lower 1000mm increased to 600 x 600mm internally and with 150mm precast concrete reducer slab	No	1		
133	450 x 600mm Brick inspection chamber exceeding 2000mm and not exceeding 3000mm deep internally, the lower 1500mm increased to 600 x 600mm internally and with 150mm precast concrete reducer slab	No	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
134	1050mm Diameter precast concrete circular inspection chamber 750mm deep internally	No	1		
135	1050mm Diameter precast concrete circular inspection chamber not exceeding 1000mm deep internally	No	1		
136	1050mm Diameter precast concrete circular inspection chamber exceeding 1000mm and not exceeding 2000mm deep internally	No	1		
137	1050mm Diameter precast concrete circular inspection chamber exceeding 2000mm and not exceeding 3000mm deep internally, the lower 1500mm increased to 1500mm diameter internally and with 150mm precast concrete reducer slab	No	1		
	<u>Precast concrete manhole covers, etc</u>				
138	600mm Diameter manhole cover and frame	No	1		
	<u>Cast iron gratings, covers, etc</u>				
139	380 x 380mm x 16kg Dished grating and frame	No	1		
140	450 x 600mm x 71kg Stormwater grating and frame	No	1		
141	450 x 600mm x 99,5kg Heavy duty stormwater grating and frame	No	1		
142	450 x 600mm x 39kg Single seal manhole cover and frame	No	1		
143	450 x 600mm x 71kg Double seal manhole cover and frame	No	1		
144	550mm Diameter x 176kg road manhole cover and frame	No	1		
145	Lifting-key for manhole cover (handed to employer)	No	1		
	<u>Backfilling, etc</u>				
146	Excavation in earth not exceeding 1m deep for pipe trenches	m³	1		
147	Excavation in earth exceeding 1m and not exceeding 2m deep for pipe trenches	m³	1		
148	Backfilling to pipe trenches	m³	1		
149	Backfilling to pipe trenches compacted to 95% Mod AASHTO density	m³	1		
150	Selected granular filling in bedding under and filling around pipes	m³	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
151	19mm Crushed stone bedding under pipes	m ³	1		
152	Unreinforced concrete bedding under pipes	m ³	1		
<u>SLEEVES FOR ELECTRICAL AND TELEPHONE CABLES ETC.</u>					
<u>Class 6 PVC-U pipes</u>					
153	110mm Pipes laid in trenches (trenches elsewhere)	m	1		
154	Set of two 110mm pipes laid side-by-side in trenches (trenches elsewhere)	m	1		
155	110mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
156	Set of two 110mm pipes laid side-by-side in and including trenches not exceeding 1m deep	m	1		
157	Set of six 110mm pipes in two tiers, one on top of the other, laid in and including trenches not exceeding 1m deep	m	1		
<u>Extra over Class 6 PVC-U pipes for fittings</u>					
158	110mm Bend	No	1		
159	110mm Long radius bend	No	1		
<u>Draw wires</u>					
160	1,6mm Galvanised steel draw wires in pipes	m	1		
<u>Inspection chambers</u>					
161	600 x 600mm Brick inspection chamber 750mm deep internally (cover elsewhere)	No	1		
162	600 x 900mm Brick inspection chamber not exceeding 1000mm deep internally (cover elsewhere)	No	1		
163	600 x 900mm Brick inspection chamber exceeding 1000mm and not exceeding 2000mm deep internally (cover elsewhere)	No	1		
164	450 x 600mm x 39kg Cast iron single seal manhole cover and frame	No	1		
<u>SOIL DRAINAGE</u>					
<u>Excavation, etc.</u>					
165	Excavation in earth not exceeding 1m deep for pipe trenches	m ³	1		
166	Excavation in earth exceeding 1m and not exceeding 2m deep for pipe trenches	m ³	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
167	Backfilling to pipe trenches	m ³	1		
168	Backfilling to pipe trenches compacted to 95% Mod AASHTO density	m ³	1		
169	Selected granular filling in bedding under and filling around pipes	m ³	1		
170	19mm Crushed stone bedding under pipes	m ³	1		
	<u>Normal duty PVC-U sewer channels</u>				
171	110mm Channels in bottoms of inspection chambers	m	1		
	<u>Extra over normal duty PVC-U sewer channels for fittings</u>				
172	110mm Bend	No	1		
173	110mm Junction	No	1		
174	110mm Double junction	No	1		
	<u>Normal duty (Class 51) PVC-U sewer and drain pipes</u>				
175	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	1		
176	110mm Pipes laid in trenches (trenches elsewhere)	m	1		
177	160mm Pipes laid in trenches (trenches elsewhere)	m	1		
178	110mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
179	160mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
180	110mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	1		
181	160mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	1		
	<u>Heavy duty (Class 34) PVC-U sewer and drain pipes</u>				
182	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	1		
183	110mm Pipes laid in trenches (trenches elsewhere)	m	1		
184	160mm Pipes laid in trenches (trenches elsewhere)	m	1		
185	110mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
	<u>Extra over heavy duty (Class 34) PVC-U sewer and drain pipes for fittings</u>				
209	110mm Bend	No	1		
210	160mm Bend	No	1		
211	110mm Junction	No	1		
212	160mm Junction	No	1		
213	160mm Reducing junction	No	1		
214	110mm Access pipe	No	1		
215	160mm Access pipe	No	1		
216	110mm Access bend	No	1		
217	160mm Access bend	No	1		
218	110mm Access junction	No	1		
219	160mm Access junction	No	1		
220	160mm Access reducing junction	No	1		
221	110mm Access double junction	No	1		
222	160mm Access double junction	No	1		
223	110mm Rodding eye	No	1		
224	160mm Rodding eye	No	1		
225	110mm Overflow gulley head	No	1		
226	160mm Overflow gulley head	No	1		
	<u>Vitrified clay pipes</u>				
227	100mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	1		
228	100mm Pipes laid in trenches (trenches elsewhere)	m	1		
229	100mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
230	100mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	1		
	<u>Cast iron pipes with SSN couplings</u>				
231	100mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
232	100mm Pipes laid in trenches (trenches elsewhere)	m	1		
233	150mm Pipes laid in trenches (trenches elsewhere)	m	1		
234	100mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
235	150mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
236	100mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	1		
237	150mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	1		
	<u>Extra over vitrified clay pipes for fittings</u>				
238	150mm Taper pipe	No	1		
239	100mm Bend	No	1		
240	100mm Junction	No	1		
241	150mm Reducing junction	No	1		
242	100mm Access bend	No	1		
243	100mm Access junction	No	1		
244	150mm Access reducing junction	No	1		
	<u>Extra over cast iron pipes with SSN couplings for fittings</u>				
245	150mm Taper pipe	No	1		
246	100mm Bend	No	1		
247	150mm Bend	No	1		
248	100mm Junction	No	1		
249	150mm Junction	No	1		
250	150mm Reducing junction	No	1		
251	100mm Access bend	No	1		
252	150mm Access bend	No	1		
253	100mm Access junction	No	1		
254	150mm Access junction	No	1		
255	150mm Access reducing junction	No	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
	<u>Vitrified clay gulleys</u>				
256	100mm Gulley not exceeding 500mm deep	No	1		
257	100mm Gulley exceeding 500mm and not exceeding 750mm deep	No	1		
258	150mm Gulley exceeding 500mm and not exceeding 750mm deep	No	1		
	<u>Cast iron gulleys</u>				
259	100mm Gulley not exceeding 500mm deep	No	1		
260	150mm Dished gulley not exceeding 500mm deep	No	1		
261	100mm Gulley exceeding 500mm and not exceeding 750mm deep	No	1		
262	150mm Gulley exceeding 500mm and not exceeding 750mm deep	No	1		
	<u>uPVC gulleys</u>				
263	110mm Gulley not exceeding 500mm deep	No	1		
264	150mm Gulley not exceeding 500mm deep	No	1		
265	110mm Gulley exceeding 500mm and not exceeding 750mm deep	No	1		
266	150mm Gulley exceeding 500mm and not exceeding 750mm deep	No	1		
267	100mm Dished gulley exceeding 500mm and not exceeding 750mm deep	No	1		
268	150mm Dished gulley exceeding 500mm and not exceeding 750mm deep	No	1		
	<u>Brick inspection chambers including benching (covers and channels elsewhere)</u>				
269	450 x 600mm Inspection chamber not exceeding 1000mm deep internally	No	1		
270	450 x 600mm Inspection chamber exceeding 1000mm and not exceeding 2000mm deep internally	No	1		
271	450 x 600mm Inspection chamber 2000mm deep internally, the lower 1000mm increased to 600 x 600mm internally and with and including 150mm precast concrete reducer slab	No	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
272	450 x 600mm Inspection chamber exceeding 2000mm and not exceeding 3000mm deep internally, the lower 1500mm increased to 600 x 600mm internally and with and including 150mm precast concrete reducer slab	No	1		
	<u>Precast concrete circular inspection chambers, including benching (covers and channels elsewhere)</u>				
273	1050mm Diameter inspection chamber 750mm deep internally	No	1		
274	1050mm Diameter inspection chamber not exceeding 1000mm deep internally	No	1		
275	1050mm Diameter inspection chamber exceeding 1000mm and not exceeding 2000mm deep internally	No	1		
276	1050mm Diameter inspection chamber 2000mm deep internally, the lower 1000mm depth increased to 1500mm diameter and with and including 150mm precast concrete reducer slab	No	1		
277	1050mm Diameter inspection chamber not exceeding 3000mm deep internally, the lower 1500mm depth increased to 1500mm diameter and with and including 150mm precast concrete reducer slab	No	1		
278	1050mm Diameter inspection chamber exceeding 3000mm and not exceeding 4000mm deep internally, the lower 2000mm depth increased to 1500mm diameter and with and including 150mm precast concrete reducer slab	No	1		
	<u>Cast iron covers etc</u>				
279	450 x 600mm x 72kg Double seal manhole cover and frame	No	1		
	<u>Precast concrete manhole covers etc</u>				
280	600mm Diameter manhole cover and frame	No	1		
	<u>Backfilling, etc</u>				
281	Excavation in earth not exceeding 1m deep	m ³	1		
282	Excavation in earth exceeding 1m and not exceeding 2m deep	m ³	1		
283	25 Mpa/19mm Unreinforced concrete in bottoms	m ³	1		
284	25 Mpa/19mm Reinforced concrete in bottoms	m ³	1		
285	25 Mpa/19mm Unreinforced concrete benching in bottom of 450 x 600mm chamber, dished down to channels and finished smooth with cement plaster	No	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
286	1060 x 1060 x 100mm Thick precast concrete reducer slab with 600 x 600mm opening including necessary formwork and reinforcement	No	1		
287	1060 x 1060 x 75mm Thick precast concrete cover slab with 450 x 600mm rebated opening for cover and frame and finished smooth on exposed surfaces with cement plaster, including formwork and reinforcement	No	1		
288	Mild steel reinforcing bars in concrete bottoms	Tonnes	1.00		
289	High tensile steel reinforcing bars in concrete bottoms	Tonnes	1.00		
290	Type 193 fabric reinforcement in concrete bottoms	m ²	1		
291	Type 245 fabric reinforcement in concrete bottoms	m ²	1		
292	One brick walls	m ²	1		
293	One and a half brick walls	m ²	1		
294	Extra over for fair face to brickwork pointed with flush joints	m ²	1		
295	Plaster on brick walls	m ²	1		
296	40mm Diameter galvanised steel rod step iron 600mm long, built in across corner of chamber	No	1		
297	100 x 100mm Cast iron horseshoe pattern step iron built into brickwork	No	1		
298	Lifting-key for manhole cover (handed to employer)	No	1		
	<u>The following in inspection chambers :</u>				
299	Excavation in earth not exceeding 2m deep	m ³	1		
300	Excavation in earth exceeding 2m and not exceeding 4m deep	m ³	1		
301	25Mpa/19mm Unreinforced concrete in bottoms	m ³	1		
302	25Mpa/19mm Reinforced concrete in bottoms	m ³	1		
303	25Mpa/19mm Unreinforced concrete benching in bottom of 450 x 600mm chamber, dished down to channels and finished smooth with cement plaster	No	1		
304	1060 x 1060 x 100mm Thick precast concrete reducer slab with 600 x 600mm opening including necessary formwork and reinforcement	No	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
305	1060 x 1060 x 75mm Thick precast concrete cover slab with 450 x 600mm rebated opening for cover and frame and finished smooth on exposed surfaces with cement plaster, including formwork and reinforcement	No	1		
306	16mm Diameter mild steel reinforcing bars in concrete bottoms	Tonnes	1.00		
307	High tensile steel reinforcing bars in concrete bottoms	Tonnes	1.00		
308	Mild steel reinforcing bars in concrete bottoms	Tonnes	1.00		
309	Type 193 fabric reinforcement in concrete bottoms	m ²	1		
310	One brick walls	m ²	1		
311	One and a half brick walls	m ²	1		
312	Extra over for fair face to brickwork pointed with flush joints	m ²	1		
313	Plaster on brick walls	m ²	1		
314	450 x 600mm x 72kg Cast iron double seal manhole cover and frame	No	1		
315	600mm Diameter Precast concrete manhole cover and frame	No	1		
316	40mm Diameter galvanised steel rod step iron 600mm long, built in across corner of chamber	No	1		
317	100 x 100mm Cast iron horseshoe pattern step iron built into brickwork	No	1		
318	Lifting-key for manhole cover (handed to employer)	No	1		
	<u>French drains in accordance with eThekweni Municipality standard details</u>				
319	French drain 600 x 300mm deep x 1000mm long	No	1		
	<u>Septic tanks</u>				
320	2000 Litre PVC septic tank complete with all accessories, components, etc	No	1		
	<u>SUNDRIES</u>				
	<u>Sundries</u>				
321	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock	m ³	1		
322	Extra over excavation for pipe trenches, chambers, etc for carting away surplus material to a dumping site to be located by the contractor	m ³	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
323	Extra over backfilling to drain trenches, chambers, etc for suitable earth backfilling supplied by the contractor	m³	1		
324	Excavate not exceeding 1m deep for, locate, take up and remove 110mm soil drain pipe, including backfilling, compaction, etc	m	1		
325	500mm Wide protection slab over horizontal pipes, of 1000 x 500 x 50mm precast concrete slabs	m	1		
326	Concrete encasing to 110mm horizontal pipes	m	1		
327	Concrete encasing to 160mm horizontal pipes	m	1		
328	Concrete encasing to 110mm vertical pipes	m	1		
329	Concrete encasing to 110mm vertical bend	No	1		
330	350 x 350 x 50mm Precast concrete inspection eye marker slab set in ground	No	1		
331	100mm Type ABC cast iron cover and frame over cleaning eye (cleaning eye elsewhere), including concrete encasing	No	1		
332	150mm Type ABC cast iron cover and frame over cleaning eye (cleaning eye elsewhere), including concrete encasing	No	1		
333	Cutting into existing 110mm uPVC drain pipe for and forming junction with 110mm pipe	No	1		
334	Cutting into existing 160mm uPVC drain pipe for and forming junction with 160mm pipe	No	1		
335	Cutting into existing 200mm uPVC drain pipe for and forming junction with 200mm pipe	No	1		
336	Cutting into side of existing inspection chamber for and connecting 110mm uPVC pipe, including inserting 110mm channel junction and making good concrete benching	No	1		
337	Cutting into side of existing inspection chamber for and connecting 160mm uPVC pipe, including inserting 160mm channel junction and making good concrete benching	No	1		
	<u>Testing</u>				
338	Testing soil drainage system	Item			
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
<u>SANITARY FITTINGS</u>					
<u>"Franke" or other equal and approved stainless steel</u>					
339	900 x 460mm "Type SA94" sink with end bowl on and including galvanised steel brackets	No	1		
340	900 x 460mm "Type SA94" sink with end bowl on cupboard (cupboard elsewhere)	No	1		
341	1050 x 535mm "Type 711 Trendline" sink with end bowl on cupboard (cupboard elsewhere)	No	1		
342	1200 x 535mm "Type 721 Trendline" double sink with two end bowls on cupboard (cupboard elsewhere)	No	1		
343	1500 x 535mm "Type 721 Trendline" double sink with two end bowls on cupboard (cupboard elsewhere)	No	1		
344	600 x 500 x 257mm "Type DLX Luxtop" drop-on single bowl wash trough fitted on cupboard (cupboard elsewhere)	No	1		
345	600 x 500 x 257mm "Type DLX Luxtop" drop-on single bowl wash trough fitted on and including galvanised steel brackets	No	1		
346	485mm Diameter "type RDX610-48" drop-in preparation bowl	No	1		
347	540 x 440mm "Type ET101" single bowl wash trough on galvanised steel brackets	No	1		
348	1220mm Long "type CB102-1220" curved back urinal with built-in automatic flushing tank, flush and sparge pipes and hinged domical grating	No	1		
349	1830mm Long "type CB102-1830" curved back urinal with built-in automatic flushing tank, flush and sparge pipes and hinged domical grating	No	1		
350	2440mm Long "type CB102-2440" curved back urinal with built-in automatic flushing tank, flush and sparge pipes and hinged domical grating	No	1		
351	420 x 305mm "Type TE" bowl back urinal with inlet for flush valve (flush valve elsewhere) sparge pipes and hinged domical grating	No	1		
352	1000 x 305mm "Type CB101" curved back urinal with inlet for flush valve (flush valve elsewhere) sparge pipes and hinged domical grating	No	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
353	1830 x 290mm "Type TU101" trough urinal with inlet for flush valve (flush valve elsewhere) sparge pipes and hinged domical grating	No	1		
	<u>"Vaal" or other equal and approved "</u>				
354	Taphole stopper	No	1		
355	"Vaal Hibiscus 7023WH" basin on and including brackets	No	1		
356	"Vaal Cameo" oval drop-in vanity basin with 3 semi-punched tapholes mounted in vanity slab or cupboard top (vanity slab or cupboard elsewhere)	No	1		
357	"Vaal Hibiscus 7023WH" white vitreous china lavatory basin size 510 x 405mm fitted with chromium plated waste with plug, chain, stay and back nut as "Cobra P-303" and one chromium plated basin metering pillar tap in centre as "Cobra -KM2-100", and fix to wall using two 10mm bolts (code 8448Z0)	No	1		
358	"Vaal Hibiscus 7023WH" white vitreous china lavatory basin size 510 x 405mm fitted with chromium plated waste with plug, chain, stay and backnut as "Cobra P-303" and one chromium plated medical single lever, elbow-action basin mixer in centre as "Cobra -Nm-851", and fix to wall using two 10mm bolts (code 8448Z0)	No	1		
359	"Vaal Afsan 750600WH" white vitreous china low level WC suite with 90degree outlet comprising wash down pan with back flush valve entry complete with double flap white "Embassy" thermostet seat with adjustable metal hinges (code 8530Z000)	No	1		
360	"Vaal Afsan 750600WH" WC suite comprising WC pan with double flap heavy duty plastic seat and matching 9 litre cistern with flush pipe	No	1		
361	"Vaal Daisy" close-coupled WC suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern	No	1		
362	"Vaal Pearl Paraplegic 7300SCWH" white vitreous china semi close coupled WC suite with 90 degree outlet comprising open rim wash down pan complete with urea seat and flap and matching 9 litre cistern complete with lid, fitments, and purpose made chromium plated side flush lever	No	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
363	"Pearl 7300SCWH" semi-close coupled paraplegic WC pan with cradle bracket and legs and double flap white epoxy painted wooden seat (flush valve and flush pipe elsewhere)	No	1		
364	"Vaal Lavatera 705426WH" white vitreous china urinal size 385 x 380 x 600mm high fitted with chromium plated domical grating, a spreader with 20mm diameter thread, waste as "Cobra-P- 303" and prepared to receive Flushmaster Junior flushing valve and fix to wall using two hanger brackets	No	1		
<u>WASH TROUGHS, SHOWER TRAYS, ETC</u>					
365	"L. G. Green W102" precast concrete double wash trough 1055 x 570 x 380mm deep fitted with chromium plated waste with plug, chain, stay and backnut as "Cobra P-303" set on a pair of panel legs full width of trough x 500mm high	No	1		
366	800 x 800mm "Cobra Cola" shower tray with waste outlet, bedded in position	No	1		
<u>WASTE UNIONS ETC</u>					
<u>"Cobra" or other equal and approved :</u>					
367	32mm Chromium plated basin waste union	No	1		
368	32mm Chromium plated basin waste union and chromium plated anti-theft plug	No	1		
369	40mm Chromium plated bath or sink waste union	No	1		
<u>TRAPS ETC</u>					
370	50mm uPVC one-way vent valve	No	1		
371	110mm uPVC one-way vent valve	No	1		
372	40mm Rubber P or S trap	No	1		
373	40mm Rubber reseal P or S trap	No	1		
374	38mm Cast brass shower shallow p-trap with 100 x 100mm chromium plated square grating as "Cobra 373SQ"	No	1		
375	40 x 40mm Rubber double bowl wash trough or sink reseal P or S trap combination	No	1		
376	38mm Anti-vac bottle trap	No	1		
377	50mm Cast iron P trap	No	1		
378	75mm Cast iron P urinal trap	No	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
379	100mm PVC floor drain	No	1		
380	40mm Stainless steel floor trap with grating	No	1		
381	75mm Chromium plated hinged urinal domical grating	No	1		
382	40mm Brass shower trap with chromium plated grating	No	1		
383	50mm Brass shower trap with chromium plated waste and grating	No	1		
384	32mm Chromium plated bottle trap	No	1		
385	40mm Chromium plated bottle trap	No	1		
386	32mm Chromium plated bottle trap with tail pipe	No	1		
387	40mm Bath trap with combined bath waste and overflow	No	1		
	TAPS, VALVES, ETC				
	"Cobra" or other equal and approved :				
388	15mm Brass ball-o-stop valve	No	1		
389	22mm Brass ball-o-stop valve	No	1		
390	"Cobra 1090-15" 15mm Brass ball cock with lever	No	1		
391	"Cobra 1080-20" 20mm Brass ball cock with lever	No	1		
392	"Cobra 1090-25" 25mm Brass ball cock with lever	No	1		
393	"Cobra 1090-32" 32mm Brass ball cock with lever	No	1		
394	"Cobra 1090-40" 40mm Brass ball cock with lever	No	1		
395	"Cobra 1090-50" 50mm Brass ball cock with lever	No	1		
396	"Cobra 1090-75" 75mm Brass ball cock with lever	No	1		
397	"Cobra 1090-100" 100mm Brass ball cock with lever	No	1		
398	22mm Brass fullway gate valve	No	1		
399	28mm Brass fullway gate valve	No	1		
400	35mm Brass fullway gate valve	No	1		
401	42mm Brass fullway gate valve	No	1		
402	54mm Brass fullway gate valve	No	1		
403	63mm Brass fullway gate valve	No	1		
404	76mm Brass fullway gate valve	No	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
405	108mm Brass fullway gate valve	No	1		
406	15mm Brass hose bib-tap	No	1		
407	22mm Brass hose bib-tap	No	1		
408	28mm Brass hose bib-tap	No	1		
409	15mm Brass non-return valve	No	1		
410	22mm Brass non-return valve	No	1		
411	15mm Chromium plated extension piece with sliding wall flange	No	1		
412	15mm Chromium plated angle regulating valve and connection pipe	No	1		
413	15mm Chromium plated angle regulating valve and flexible connection pipe	No	1		
414	15mm Chromium plated fullway isolating ball valve	No	1		
415	22mm Brass fullway isolating ball valve with lever handle	No	1		
416	15mm Chromium plated "Star COB211-15" pattern brass pillartap	No	1		
417	15mm Chromium plated "Stella COB3311-ST-15" brass pillartap	No	1		
418	15mm Chromium plated "Star COB206-15" pattern brass bibtap	No	1		
419	22mm Chromium plated "Star COB206-20" pattern brass bibtap	No	1		
420	15mm "COB128-15" chromium plated undertile stopcock	No	1		
421	22mm "COB128-20" chromium plated undertile stopcock	No	1		
422	25mm Brass high pressure float valve including ball	No	1		
423	15mm "COB107EC-15 Star" pattern chromium plated brass bib-tap with hose union	No	1		
424	22mm "COB107EC-22 Star" pattern chromium plated brass bib-tap with hose union	No	1		
425	15mm "COB503-21" elbow action pillar tap	No	1		
426	15mm "COB510-21" wall type elbow action pillar tap	No	1		
427	15mm "COB515-21" elbow action mixer	No	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
428	15mm "COB515/055-21" wall type elbow action sink mixer	No	1		
429	'COB-P-024" Chromium plated shower arm with wall flange	No	1		
430	"COB-026" Chromium plated shower arm with wall flange	No	1		
431	"COB-023TU-400" Chromium plated tubular shower arm	No	1		
432	"COB-068BJ'Concorde single function shower head including ball joint connector	No	1		
433	"COB-065 Prestex' single function shower head including ball joint connector	No	1		
434	"COB-FSW5FGN-OGTO161' Hand shower set with three function shower head with holder and chrome hose	No	1		
435	"COB-3274ST Stella' 15mm one hole basin mixer including chain, stay, mounting kit and flexible inlets	No	1		
436	"COB-166/041 Star' wall type two handle overarm swivel sink mixer	No	1		
437	"COB-171/041 Star' pillar type two handle overarm swivel sink mixer	No	1		
438	"COB-3366/041/10ST Stella' sink mixer for concealed connections	No	1		
439	"COB-3396ST Stella' one hole sink mixer and flexible connections	No	1		
440	"COB-EXT7005CH' Chloe basin mixer including chain, plug and flexible inlets	No	1		
441	"COB-3351ST-15-HQ Stella' wall type bath mixer complete with hand shower, hose, holder and concealed connectors	No	1		
442	15mm Brass in-line strainer	No	1		
443	15mm Vacuum breaker	No	1		
444	15mm Pressure control valve with vacuum breaker	No	1		
445	"COB-NA-961' Noka single lever underwall diverter bath mixer chromium plated complete with sliding wall flange, inlets and outlets	No	1		
446	"COB-NA-970 Noka' single lever sink mixer with flexible inlets	No	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
447	"Cobra Junior FJ4-001" brushed chrome concealed type toilet flushvalve	No	1		
448	"Cobra Junior FJ2-601" brushed chrome exposed type toilet flushvalve	No	1		
449	"Cobra Junior FJ6-000" brushed chrome exposed type urinal flushvalve	No	1		
<u>SANITARY PLUMBING</u>					
<u>PVC-U soil and vent pipes</u>					
450	40mm Pipes	m	1		
451	50mm Pipes	m	1		
452	110mm Pipes	m	1		
453	40mm Pipes chased into brickwork	m	1		
454	50mm Pipes chased into brickwork	m	1		
455	40mm Pipes suspended not exceeding 1m below concrete soffits	m	1		
456	50mm Pipes suspended not exceeding 1m below concrete soffits	m	1		
457	110mm Pipes suspended not exceeding 1m below concrete soffits	m	1		
458	110mm Pipes suspended exceeding 1m and not exceeding 2m below steel roof trusses at 900mm centres	m	1		
459	160mm Pipes suspended exceeding 1m and not exceeding 2m below steel roof trusses at 900mm centres	m	1		
<u>Extra over PVC-U soil and vent pipes for fittings</u>					
460	40mm End cap	No	1		
461	50mm End cap	No	1		
462	110mm End cap	No	1		
463	40mm BSP adaptor	No	1		
464	50mm BSP adaptor	No	1		
465	110mm Reducer	No	1		
466	110mm Eccentric reducer	No	1		
467	110mm Pan connector	No	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
468	110mm Bent pan connector	No	1		
469	40mm Bend	No	1		
470	50mm Bend	No	1		
471	110mm Bend	No	1		
472	160mm Bend	No	1		
473	40mm Junction	No	1		
474	50mm Junction	No	1		
475	110mm Junction	No	1		
476	160mm Junction	No	1		
477	110mm Reducing junction	No	1		
478	160mm Reducing junction	No	1		
479	110mm Inverted reducing junction	No	1		
480	110mm Double junction	No	1		
481	110mm Reducing double junction	No	1		
482	40mm Access pipe	No	1		
483	50mm Access pipe	No	1		
484	110mm Access pipe	No	1		
485	40mm Access bend	No	1		
486	50mm Access bend	No	1		
487	110mm Access bend	No	1		
488	110mm Access bend with anti-syphon horn	No	1		
489	160mm Access bend	No	1		
490	40mm Access junction	No	1		
491	50mm Access junction	No	1		
492	110mm Access junction	No	1		
493	160mm Access junction	No	1		
494	110mm Access reducing junction	No	1		
495	110mm Access double junction	No	1		
496	110mm Access reducing double junction	No	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
497	110mm Stubstack	No	1		
498	50mm Air vent cowl	No	1		
499	110mm Air vent cowl	No	1		
	<u>Cast iron pipes with SSN couplings</u>				
500	100mm Pipes	m	1		
501	100mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
502	100mm Pipes suspended not exceeding 1m below concrete soffits	m	1		
503	100mm Pipes suspended exceeding 1m and not exceeding 2m below steel roof trusses at 900mm centres	m	1		
	<u>Cast iron pipes with spigot and socket joints</u>				
504	100mm Pipes	m	1		
505	150mm Pipes	m	1		
506	100mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
507	150mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
508	100mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	1		
509	150mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	1		
510	100mm Pipes suspended not exceeding 1m below concrete soffits	m	1		
511	100mm Pipes suspended exceeding 1m and not exceeding 2m below steel roof trusses at 900mm centres	m	1		
	<u>Extra over cast iron pipes with SSN couplings for fittings</u>				
512	150mm Eccentric reducer	No	1		
513	100mm Bend	No	1		
514	150mm Bend	No	1		
515	100mm Junction	No	1		
516	150mm Junction	No	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
517	150mm Reducing junction	No	1		
518	150mm Double junction	No	1		
519	150mm Reducing double junction	No	1		
	<u>Extra over cast iron pipes with spigot and socket joints for fittings</u>				
520	150mm Eccentric reducer	No	1		
521	100mm Bend	No	1		
522	150mm Bend	No	1		
523	100mm Junction	No	1		
524	150mm Junction	No	1		
525	150mm Reducing junction	No	1		
526	150mm Double junction	No	1		
527	150mm Reducing double junction	No	1		
	<u>Sundries</u>				
528	Wire balloon grating in top of pipe not exceeding 100mm diameter	No	1		
	<u>Testing</u>				
529	Testing waste pipe system	Item			
	<u>WATER SUPPLIES</u>				
	<u>Class 16 HDPE pressure pipes:</u>				
530	54mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
531	76mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
532	108mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
	<u>Extra over Class 16 HDPE pressure pipes for the following fittings:</u>				
533	54mm Bend	No	1		
534	76mm Bend	No	1		
535	108mm Bend	No	1		
536	54mm Reducer	No	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
537	76mm Reducer	No	1		
538	108mm Reducer	No	1		
539	54mm Tee	No	1		
540	76mm Tee	No	1		
541	108mm Tee	No	1		
542	54mm Reducing tee	No	1		
543	76mm Reducing tee	No	1		
544	108mm Reducing tee	No	1		
	<u>"Polycop" class 12 polypropylene pipes</u>				
545	15mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
546	22mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
547	28mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
	<u>Extra over Class 12 polypropylene pipes for the following fittings:</u>				
548	15mm Fittings	No	1		
549	22mm Fittings	No	1		
550	28mm Fittings	No	1		
	<u>"Geberit Mepla" or other equal and approved pipe including all necessary fixations and equal couplings in the running lengths and fixed in ceilings, to soffit, walls or chased into walls, etc., including all rubber lined holding bands:</u>				
551	20mm Pipes	m	1		
552	26mm Pipes	m	1		
553	32mm Pipes	m	1		
554	20mm Pipes chased into brickwork including brown paper lagging	m	1		
555	26mm Pipes chased into brickwork including brown paper lagging	m	1		
556	32mm Pipes chased into brickwork including brown paper lagging	m	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
	<u>Extra over "Geberit Mepla" pipe for "Geberit Gunmetal" fittings and PVDF fittings including all necessary crimps:</u>				
557	20mm Fittings	No	1		
558	26mm Fittings	No	1		
559	32mm Elbow	No	1		
560	32mm Tee	No	1		
561	32mm Reducing elbow	No	1		
562	32mm Reducing tee	No	1		
	<u>Class 0 copper pipes:</u>				
563	15mm Pipes	m	1		
564	22mm Pipes	m	1		
565	28mm Pipes	m	1		
566	35mm Pipes	m	1		
567	42mm Pipes	m	1		
568	54mm Pipes	m	1		
569	63mm Pipes	m	1		
570	76mm Pipes	m	1		
571	15mm Pipes chased into brickwork including brown paper lagging	m	1		
572	22mm Pipes chased into brickwork including brown paper lagging	m	1		
573	28mm Pipes chased into brickwork including brown paper lagging	m	1		
574	15mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
575	22mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
576	28mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
577	35mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
578	42mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
579	54mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
580	63mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
581	76mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
	<u>Extra over class 0 copper pipes for brass compression fittings :</u>				
582	15mm Fittings	No	1		
583	22mm Fittings	No	1		
584	28mm Fittings	No	1		
585	35mm Reducer	No	1		
586	42mm Reducer	No	1		
587	54mm Reducer	No	1		
588	63mm Reducer	No	1		
589	76mm Reducer	No	1		
590	35mm Bend	No	1		
591	42mm Bend	No	1		
592	54mm Bend	No	1		
593	63mm Bend	No	1		
594	76mm Bend	No	1		
595	35mm Tee	No	1		
596	42mm Tee	No	1		
597	54mm Tee	No	1		
598	63mm Tee	No	1		
599	76mm Tee	No	1		
600	35mm Reducing tee	No	1		
601	42mm Reducing tee	No	1		
602	54mm Reducing tee	No	1		
603	63mm Reducing tee	No	1		
604	76mm Reducing tee	No	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
605	28mm Fittings	No	1		
606	76mm Copper to iron straight connector	No	1		
607	63mm Flange adaptor	No	1		
608	76mm Flange adaptor	No	1		
	<u>Extra over class 0 copper pipes for capillary fittings :</u>				
609	15mm Fittings	No	1		
610	22mm Fittings	No	1		
611	28mm Fittings	No	1		
612	35mm Bend	No	1		
613	42mm Bend	No	1		
614	54mm Bend	No	1		
615	63mm Bend	No	1		
616	76mm Bend	No	1		
617	35mm Tee	No	1		
618	42mm Tee	No	1		
619	54mm Tee	No	1		
620	63mm Tee	No	1		
621	76mm Tee	No	1		
622	35mm Reducing tee	No	1		
623	42mm Reducing tee	No	1		
624	54mm Reducing tee	No	1		
625	63mm Reducing tee	No	1		
626	76mm Reducing tee	No	1		
	<u>Class 2 copper pipes (used underground) :</u>				
627	15mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
628	22mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
629	35mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
630	42mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
631	54mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
632	63mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
633	76mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
634	108mm Pipes laid in and including trenches not exceeding 1m deep	m	1		
	<u>Extra over class 2 copper pipes for brass compression fittings:</u>				
635	15mm Fittings	No	1		
636	22mm Fittings	No	1		
637	28mm Fittings	No	1		
638	35mm Bend	No	1		
639	42mm Bend	No	1		
640	54mm Bend	No	1		
641	63mm Bend	No	1		
642	76mm Bend	No	1		
643	108mm Bend	No	1		
644	35mm Tee	No	1		
645	42mm Tee	No	1		
646	54mm Tee	No	1		
647	63mm Tee	No	1		
648	76mm Tee	No	1		
649	108mm Tee	No	1		
650	35mm Reducing tee	No	1		
651	42mm Reducing tee	No	1		
652	54mm Reducing tee	No	1		
653	63mm Reducing tee	No	1		
654	76mm Reducing tee	No	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
655	108mm Reducing tee	No	1		
	<u>Copper overflow and service pipes :</u>				
656	15mm Service pipe 350mm girth	No	1		
657	15mm Service pipe 450mm girth	No	1		
658	22mm Overflow pipe 500mm girth bent twice	No	1		
	<u>"Nick Dreyer Agencies" or other equal and approved stainless steel drench shower :</u>				
659	Stainless steel emergency drench shower 2100mm high overall of red epoxy powder coated steel with non-slip foot activated floor platform, easy drain, eyewash bowl and nozzle	No	1		
	<u>Testing</u>				
660	Testing water pipe system	Item			
	<u>ELECTRIC WATER HEATERS</u>				
	<u>"Franke" or other equal and approved :</u>				
661	5 Litre "ZIP Hydroboil" in white epoxy finish including connecting to copper piping, plugged to wall.	No	1		
662	7,5 Litre "ZIP Hydroboil" in white epoxy finish including connecting to copper piping, plugged to wall.	No	1		
663	10 Litre "ZIP Hydroboil" in white epoxy finish including connecting to copper piping, plugged to wall.	No	1		
	<u>"Kwikot" or other equal and approved:</u>				
664	100 Litre "EF100-RD-I" floor/wall electric water heater including connecting to copper piping, including all necessary valves, etc and including bolting to wall or floor	No	1		
665	150 Litre "EF150-RD-I" floor/wall electric water heater including connecting to copper piping, including all necessary valves, etc and including bolting to wall or floor	No	1		
666	200 Litre "EF200-RD-I" floor electric water heater including connecting to copper piping, including all necessary valves, etc and including bolting to floor	No	1		
667	100 Litre "Slimline ESG-100-D2-I" floor/wall electric water heater including connecting to copper piping, including all necessary valves, etc and including bolting to wall or floor	No	1		
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		Unit	Quantity	Rate	Amount
668	150 Litre "Slimline ESG-150-D2-I" floor/wall electric water heater including connecting to copper piping, including all necessary valves, etc and including bolting to wall or floor	No	1		
	<u>DRIP TRAYS, TANKS, ETC</u>				
	<u>0,6mm Galvanised sheet steel</u>				
669	600 x 1500mm Drip tray for water heater, with 100mm high upstand all round with top edge bent over and with 50mm threaded outlet union	No	1		
	<u>FIRE APPLIANCES ETC</u>				
670	'Everyway' or other equal and approved hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket including 300 x 300mm perspex sign over, bolted to concrete or brickwork with and including four x M10 stainless steel expansion bolts	No	1		
671	9kg Dry chemical powder fire extinguisher	No	1		
672	4,5kg Carbon dioxide fire extinguisher	No	1		
673	80 x 65mm Brass right-angle hydrant valve with cap and chain	No	1		
674	80 x 65mm Brass double booster pump connection and Y-piece, with caps and chains	No	1		
675	100mm Brass hydrant including two flanged spacer pipes, 100mm duckfoot bend, connecting bolts, gaskets, etc	No	1		
676	100mm Brass flanged non-return valve	No	1		
677	100mm Brass flanged gate valve	No	1		
	<u>Fire hydrant pedestals</u>				
678	Unreinforced concrete hydrant pedestal 900mm high, cast around vertical pipe with bottom 300mm below ground, 300 x 300mm square at base and tapering to 200 x 200mm overall octagonal shaped top, including excavation, formwork and two coats of paint to exposed surfaces	No	1		
	<u>PIPE PROTECTION</u>				
679	Wrapping around 15mm pipes, including couplings	m	1		
680	Wrapping around 22mm pipes, including couplings	m	1		
681	Wrapping around 28mm pipes, including couplings	m	1		
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		Unit	Quantity	Rate	Amount
	<u>Extra over wrapping around pipes for wrapping around</u>				
682	15mm Fittings, valves, etc	No	1		
683	22mm Fittings, valves, etc	No	1		
684	28mm Fittings, valves, etc	No	1		
	<u>PIPE INSULATION</u>				
	<u>20mm Thick approved pipe insulation</u>				
685	Insulation to 15mm internal diameter pipes including couplings	m	1		
686	Insulation to 22mm internal diameter pipes including couplings	m	1		
687	Insulation to 28mm internal diameter pipes including couplings	m	1		
	<u>Extra over pipe insulation for insulation around</u>				
688	15mm Fittings, valves, etc	No	1		
689	22mm Fittings, valves, etc	No	1		
690	28mm Fittings, valves, etc	No	1		
	<u>SLEEVES</u>				
	<u>0,6mm Galvanised sheet steel sleeves with weltd seams for pipes not exceeding 100mm external diameter</u>				
691	Sleeve not exceeding 250mm long	No	1		
692	Sleeve exceeding 250mm and not exceeding 500mm long	No	1		
	<u>0,6mm Galvanised sheet steel sleeves with weltd seams for pipes exceeding 100mm and not exceeding 200mm external diameter</u>				
693	Sleeve not exceeding 250mm long	No	1		
694	Sleeve exceeding 250mm and not exceeding 500mm long	No	1		
	<u>PVC sleeves for pipes not exceeding 100mm external diameter</u>				
695	Sleeve not exceeding 250mm long	No	1		
696	Sleeve exceeding 250mm and not exceeding 500mm long	No	1		
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SECTION NO.18

GLAZING

		Unit	Quantity	Rate	Amount
<u>SECTION NO.18</u>					
<u>GLAZING</u>					
<u>BILL NO. 1</u>					
<u>GLAZING</u>					
<u>GLAZING TO STEEL WITH PUTTY</u>					
<u>4mm Clear float glass</u>					
1	Panes not exceeding 0,1m	m ²	1		
2	Panes exceeding 0,1m and not exceeding 0,5m	m ²	1		
3	Panes exceeding 0,5m and not exceeding 2m	m ²	1		
4	Panes exceeding 2m and not exceeding 4m	m ²	1		
<u>4mm Tinted float glass</u>					
5	Panes not exceeding 0,1m	m ²	1		
6	Panes exceeding 0,1m and not exceeding 0,5m	m ²	1		
7	Panes exceeding 0,5m and not exceeding 2m	m ²	1		
8	Panes exceeding 2m and not exceeding 4m	m ²	1		
<u>5mm Clear float glass</u>					
9	Panes not exceeding 0,1m	m ²	1		
10	Panes exceeding 0,1m and not exceeding 0,5m	m ²	1		
11	Panes exceeding 0,5m and not exceeding 2m	m ²	1		
12	Panes exceeding 2m and not exceeding 4m	m ²	1		
<u>5mm Obscure glass</u>					
13	Panes not exceeding 0,1m	m ²	1		
14	Panes exceeding 0,1m and not exceeding 0,5m	m ²	1		
15	Panes exceeding 0,5m and not exceeding 2m	m ²	1		
16	Panes exceeding 2m and not exceeding 4m	m ²	1		
<u>5mm Georgian wired polished glass</u>					
17	Panes not exceeding 0,1m	m ²	1		
18	Panes exceeding 0,1m and not exceeding 0,5m	m ²	1		
19	Panes exceeding 0,5m and not exceeding 2m	m ²	1		
20	Panes exceeding 2m and not exceeding 4m	m ²	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
	<u>6mm Clear toughened safety glass</u>				
21	Panes not exceeding 0,1m	m ²	1		
22	Panes exceeding 0,1m and not exceeding 0,5m	m ²	1		
23	Panes exceeding 0,5m and not exceeding 2m	m ²	1		
24	Panes exceeding 2m and not exceeding 4m	m ²	1		
	<u>10mm Clear toughened safety glass</u>				
25	Panes not exceeding 0,1m	m ²	1		
26	Panes exceeding 0,1m and not exceeding 0,5m	m ²	1		
27	Panes exceeding 0,5m and not exceeding 2m	m ²	1		
28	Panes exceeding 2m and not exceeding 4m	m ²	1		
	<u>6,38mm Normal strength (NS) clear laminated safety glass</u>				
29	Panes not exceeding 0,1m	m ²	1		
30	Panes exceeding 0,1m and not exceeding 0,5m	m ²	1		
31	Panes exceeding 0,5m and not exceeding 2m	m ²	1		
32	Panes exceeding 2m and not exceeding 4m	m ²	1		
	<u>6,38mm Normal strength (NS) type "Solarshield S10" tinted laminated safety glass</u>				
33	Panes not exceeding 0,1m	m ²	1		
34	Panes exceeding 0,1m and not exceeding 0,5m	m ²	1		
35	Panes exceeding 0,5m and not exceeding 2m	m ²	1		
36	Panes exceeding 2m and not exceeding 4m	m ²	1		
	<u>6,38mm Normal strength (NS) coated laminated safety glass</u>				
37	Panes not exceeding 0,1m	m ²	1		
38	Panes exceeding 0,1m and not exceeding 0,5m	m ²	1		
39	Panes exceeding 0,5m and not exceeding 2m	m ²	1		
40	Panes exceeding 2m and not exceeding 4m	m ²	1		
	<u>10,38mm High impact (HI) clear laminated safety glass</u>				
41	Panes not exceeding 0,1m	m ²	1		
	Carried to Collection			R	
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	Glazing				

		Unit	Quantity	Rate	Amount
42	Panes exceeding 0,1m and not exceeding 0,5m	m ²	1		
43	Panes exceeding 0,5m and not exceeding 2m	m ²	1		
44	Panes exceeding 2m and not exceeding 4m	m ²	1		
	<u>10,38mm High impact (HI) type "Solarshield S10" tinted laminated safety glass</u>				
45	Panes not exceeding 0,1m	m ²	1		
46	Panes exceeding 0,1m and not exceeding 0,5m	m ²	1		
47	Panes exceeding 0,5m and not exceeding 2m	m ²	1		
48	Panes exceeding 2m and not exceeding 4m	m ²	1		
	<u>Sundries</u>				
49	Polished edges to 4mm float glass	m	1		
50	Polished edges to 6,38mm laminated glass	m	1		
51	Butt joints to 6,38mm toughened glass including polished edges and silicone sealant	m	1		
52	Butt joints to 10,38mm laminated glass including polished edges and silicone sealant	m	1		
	<u>GLAZING TO WOOD WITH PUTTY</u>				
	<u>4mm Clear float glass</u>				
53	Panes not exceeding 0,1m	m ²	1		
54	Panes exceeding 0,1m and not exceeding 0,5m	m ²	1		
55	Panes exceeding 0,5m and not exceeding 2m	m ²	1		
56	Panes exceeding 2m and not exceeding 4m	m ²	1		
	<u>4mm Type "Solarshield S10" tinted float glass</u>				
57	Panes not exceeding 0,1m	m ²	1		
58	Panes exceeding 0,1m and not exceeding 0,5m	m ²	1		
59	Panes exceeding 0,5m and not exceeding 2m	m ²	1		
60	Panes exceeding 2m and not exceeding 4m	m ²	1		
	<u>5mm Clear float glass</u>				
61	Panes not exceeding 0,1m	m ²	1		
62	Panes exceeding 0,1m and not exceeding 0,5m	m ²	1		
63	Panes exceeding 0,5m and not exceeding 2m	m ²	1		
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		Unit	Quantity	Rate	Amount
64	Panes exceeding 2m and not exceeding 4m	m ²	1		
	<u>4mm Obscure glass</u>				
65	Panes not exceeding 0,1m	m ²	1		
66	Panes exceeding 0,1m and not exceeding 0,5m	m ²	1		
67	Panes exceeding 0,5m and not exceeding 2m	m ²	1		
68	Panes exceeding 2m and not exceeding 4m	m ²	1		
	<u>5mm Obscure glass</u>				
69	Panes not exceeding 0,1m	m ²	1		
70	Panes exceeding 0,1m and not exceeding 0,5m	m ²	1		
71	Panes exceeding 0,5m and not exceeding 2m	m ²	1		
72	Panes exceeding 2m and not exceeding 4m	m ²	1		
	<u>6,38mm Clear toughened safety glass</u>				
73	Panes not exceeding 0,1m	m ²	1		
74	Panes exceeding 0,1m and not exceeding 0,5m	m ²	1		
75	Panes exceeding 0,5m and not exceeding 2m	m ²	1		
76	Panes exceeding 2m and not exceeding 4m	m ²	1		
	<u>Sundries</u>				
77	Polished edges to 5mm float glass	m	1		
78	Polished edges to 6,38mm laminated glass	m	1		
79	Butt joints to 6,38mm toughened glass including polished edges and silicone sealant	m	1		
80	Butt joints to 10,38mm laminated glass including polished edges and silicone sealant	m	1		
	<u>GLASS LOUVRE BLADES</u>				
	<u>4mm Clear float glass louvre blades with polished edges</u>				
81	Louvre blades 125mm wide x 900mm long	No	1		
	<u>4mm Obscure glass louvre blades with polished edges</u>				
82	Louvre blades 125mm wide x 900mm long	No	1		
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		Unit	Quantity	Rate	Amount
<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>					
<u>5mm Clear float glass with polished edges all round</u>					
83	Top 1000 x 300mm wide, laid loose	No	1		
84	Shelf 1000 x 300mm wide	No	1		
<u>6,38mm Clear toughened safety glass with polished edges all round</u>					
85	Top 1000 x 300mm wide, laid loose	No	1		
86	Shelf 1000 x 300mm wide	No	1		
<u>6mm Silvered float glass copper backed mirrors with polished edges, fixed with double sided adhesive tape and silicone</u>					
87	Mirror 500 x 1000mm high	No	1		
<u>8mm Silvered float glass copper backed mirrors with bevelled and polished edges, fixed with double sided adhesive tape and silicone</u>					
88	Mirror 450 x 1000mm high	No	1		
<u>6mm Silvered float glass copper backed mirrors with polished edges, holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u>					
89	Mirror 500 x 1000mm high with 4 screws	No	1		
<u>8mm Silvered float glass copper backed mirrors with bevelled and polished edges, holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u>					
90	Mirror 450 x 1000mm high with 4 screws	No	1		
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SECTION NO.19
PAINTWORK

	Unit	Quantity	Rate	Amount
<u>SECTION NO.19</u>				
<u>PAINTWORK</u>				
<u>BILL NO. 1</u>				
<u>PAINTWORK</u>				
<u>PAINTWORK</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>PREPARATORY WORK TO EXISTING WORK</u>				
Previously painted plastered surfaces				
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth.				
Previously painted metal surfaces				
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal.				
Previously painted wood surfaces				
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth.				
Paint Specifications				
All painting shall be done in accordance with the Architect's specifications unless otherwise described.				
<u>Colours</u>				
Unless otherwise described paintwork on ceilings shall be deemed to be in the White colour group and paintwork on all other components shall be deemed to be in the Pastel colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards				
<u>PAINTWORK ETC TO NEW WORK</u>				
<u>ON NEW QUARRY TILE SURFACES</u>				
<u>Two coats approved brick dressing</u>				
1	Floors	m ²	1	
2	Sills, thresholds, etc	m ²	1	
Carried to Collection				R
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		Unit	Quantity	Rate	Amount
<u>ON NEW INTERNAL FLOATED PLASTER SURFACES</u>					
<u>One coat alkali resistant primer and two coats PVA emulsion paint for interior use</u>					
3	Walls	m ²	1		
4	Walls in patterned multi - colours	m ²	1		
5	Ceilings and beams (White colour group)	m ²	1		
6	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
7	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>					
8	Walls	m ²	1		
9	Walls in patterned multi-colours	m ²	1		
10	Ceilings and beams (White colour group)	m ²	1		
11	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
12	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
<u>One coat alkali resistant primer and two coats low odour premium quality highly washable and stain resistant acrylic emulsion paint for interior use</u>					
13	Walls	m ²	1		
14	Walls in patterned multi-colours	m ²	1		
15	Ceilings and beams (White colour group)	m ²	1		
16	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
17	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
	<u>One coat alkali resistant primer and two coats premium quality ultra matt, fully washable and stain resistant acrylic emulsion paint for interior use</u>				
18	Walls	m ²	1		
19	Walls in patterned multi - colours	m ²	1		
20	Ceilings and beams (White colour group)	m ²	1		
21	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
22	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
	<u>One coat alkali resistant primer and two coats premium quality polyurethane enamel paint</u>				
23	Walls	m ²	1		
24	Walls in patterned multi - colours	m ²	1		
25	Ceilings and beams (White colour group)	m ²	1		
26	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
27	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
	<u>One coat alkali resistant primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint</u>				
28	Walls	m ²	1		
29	Walls in patterned multi - colours	m ²	1		
30	Ceilings and beams (White colour group)	m ²	1		
31	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
32	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
	<u>One coat alkali resistant primer, one coat superior quality acrylic emulsion paint for interior and exterior use and one coat pure acrylic smooth ripple paint applied with a stipple roller</u>				
33	Walls	m ²	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
34	Walls in patterned multi - colours	m ²	1		
35	Ceilings and beams (White colour group)	m ²	1		
36	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
37	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
<u>ON NEW INTERNAL TEXTURED PLASTER SURFACES</u>					
<u>One coat alkali resistant primer and two coats PVA emulsion paint for interior use</u>					
38	Walls	m ²	1		
39	Walls in patterned multi - colours	m ²	1		
40	Ceilings and beams (White colour group)	m ²	1		
41	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
42	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>					
43	Walls	m ²	1		
44	Walls in patterned multi - colours	m ²	1		
45	Ceilings and beams (White colour group)	m ²	1		
46	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
47	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
<u>One coat alkali resistant primer and two coats low odour premium quality highly washable and stain resistant acrylic emulsion paint for interior use</u>					
48	Walls	m ²	1		
49	Walls in patterned multi - colours	m ²	1		
50	Ceilings and beams (White colour group)	m ²	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
51	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
52	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
	<u>One coat alkali resistant primer and two coats premium quality ultra matt, fully washable and stain resistant acrylic emulsion paint for interior use</u>				
53	Walls	m ²	1		
54	Walls in patterned multi - colours	m ²	1		
55	Ceilings and beams (White colour group)	m ²	1		
56	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
57	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
	<u>One coat alkali resistant primer and two coats premium quality polyurethane enamel paint</u>				
58	Walls	m ²	1		
59	Walls in patterned multi - colours	m ²	1		
60	Ceilings and beams (White colour group)	m ²	1		
61	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
62	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
	<u>One coat alkali resistant primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint</u>				
63	Walls	m ²	1		
64	Walls in patterned multi - colours	m ²	1		
65	Ceilings and beams (White colour group)	m ²	1		
66	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
67	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
	<u>One coat alkali resistant primer, one coat superior quality acrylic emulsion paint for interior and exterior use and one coat pure acrylic smooth ripple paint applied with a stipple roller</u>				
68	Walls	m ²	1		
69	Walls in patterned multi - colours	m ²	1		
70	Ceilings and beams (White colour group)	m ²	1		
71	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
72	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
	<u>ON NEW EXTERNAL FLOATED PLASTER SURFACES</u>				
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>				
73	Walls	m ²	1		
74	Walls in patterned multi-colours	m ²	1		
75	Ceilings and beams (White colour group)	m ²	1		
76	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
77	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
	<u>One coat alkali resistant primer and two coats premium quality polyurethane enamel paint</u>				
78	Walls	m ²	1		
79	Walls in patterned multi-colours	m ²	1		
80	Ceilings and beams (White colour group)	m ²	1		
81	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
82	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
	<u>One coat alkali resistant primer and two coats extremely durable UV-resistant washable pure acrylic emulsion sheen paint with teflon</u>				
83	Walls	m ²	1		
84	Walls in patterned multi-colours	m ²	1		
85	Ceilings and beams (White colour group)	m ²	1		
86	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
87	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
	<u>One coat alkali resistant primer and two coats extremely durable UV-resistant waterbased mica reinforced fine textured acrylic paint</u>				
88	Walls	m ²	1		
89	Walls in patterned multi-colours	m ²	1		
90	Ceilings and beams (White colour group)	m ²	1		
91	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
92	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
	<u>ON NEW EXTERNAL TEXTURED PLASTER SURFACES</u>				
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>				
93	Walls	m ²	1		
94	Walls in patterned multi-colours	m ²	1		
95	Ceilings and beams (White colour group)	m ²	1		
96	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
Carried to Collection				R	
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Paintwork					

		Unit	Quantity	Rate	Amount
97	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
	<u>One coat alkali resistant primer and two coats premium quality polyurethane enamel paint</u>				
98	Walls	m ²	1		
99	Walls in patterned multi-colours	m ²	1		
100	Ceilings and beams (White colour group)	m ²	1		
101	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
102	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
	<u>One coat alkali resistant primer and two coats extremely durable UV-resistant washable pure acrylic emulsion sheen paint with teflon</u>				
103	Walls	m ²	1		
104	Walls in patterned multi-colours	m ²	1		
105	Ceilings and beams (White colour group)	m ²	1		
106	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
107	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
	<u>One coat alkali resistant primer and two coats extremely durable UV-resistant waterbased mica reinforced fine textured acrylic paint</u>				
108	Walls	m ²	1		
109	Walls in patterned multi-colours	m ²	1		
110	Ceilings and beams (White colour group)	m ²	1		
111	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
112	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
Carried to Collection				R	
Section No. 19					
Bill No. 1					
Paintwork					

		Unit	Quantity	Rate	Amount
<u>ON NEW INTERNAL GYPSUM PLASTER SURFACES</u>					
<u>One coat primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>					
113	Walls	m ²	1		
114	Walls in patterned multi-colours	m ²	1		
115	Ceilings and beams (White colour group)	m ²	1		
116	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
117	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
<u>One coat primer and two coats low odour premium quality highly washable and stain resistant acrylic emulsion paint for interior use</u>					
118	Walls	m ²	1		
119	Walls in patterned multi-colours	m ²	1		
120	Ceilings and beams (White colour group)	m ²	1		
121	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
122	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
<u>One coat primer and two coats premium quality ultra matt, fully washable and stain resistant acrylic emulsion paint for interior use</u>					
123	Walls	m ²	1		
124	Walls in patterned multi-colours	m ²	1		
125	Ceilings and beams (White colour group)	m ²	1		
126	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
127	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
<u>One coat primer and two coats premium quality polyurethane enamel paint</u>					
128	Walls	m ²	1		
Carried to Collection				R	
Section No. 19					
Bill No. 1					
Paintwork					

		Unit	Quantity	Rate	Amount
129	Walls in patterned multi-colours	m ²	1		
130	Ceilings and beams (White colour group)	m ²	1		
131	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
132	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
	<u>One coat primer and one coat alkyd based universal undercoat and two coats superior quality universal enamel paint</u>				
133	Walls	m ²	1		
134	Walls in patterned multi-colours	m ²	1		
135	Ceilings and beams (White colour group)	m ²	1		
136	Mouldings and bands picked out in colours differing from surrounding work	m ²	1		
137	Mouldings and bands not exceeding 300mm wide or girth picked out in colours differing from surrounding work	m	1		
	<u>ON NEW BAGGED BRICKWORK OR CONCRETE SURFACES</u>				
	<u>One coat alkali resistant primer and two coats PVA emulsion paint for interior use</u>				
138	Walls	m ²	1		
139	Ceilings and beams (White colour group)	m ²	1		
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>				
140	Walls	m ²	1		
141	Ceilings and beams (White colour group)	m ²	1		
	<u>One coat alkali resistant primer and two coats low odour premium quality highly washable and stain resistant acrylic emulsion paint for interior and exterior use</u>				
142	Walls	m ²	1		
143	Ceilings and beams (White colour group)	m ²	1		
Carried to Collection				R	
Section No. 19					
Bill No. 1					
Paintwork					

		Unit	Quantity	Rate	Amount
	<u>ON NEW FAIR FACED BRICKWORK</u>				
	<u>One coat alkali resistant primer and two coats PVA emulsion paint for interior use</u>				
144	Walls	m ²	1		
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>				
145	Walls	m ²	1		
	<u>One coat alkali resistant primer and two coats low odour premium quality highly washable and stain resistant acrylic emulsion paint for interior and exterior use</u>				
146	Walls	m ²	1		
	<u>ON NEW SMOOTH CONCRETE SURFACES</u>				
	<u>One coat bonding liquid, one coat alkali resistant primer and two coats PVA emulsion paint for interior use, including stopping blow holes :</u>				
147	Walls and columns	m ²	1		
148	Ceilings and beams (White colour group)	m ²	1		
149	Coffered ceilings (total girth measured) (White colour group)	m ²	1		
	<u>One coat bonding liquid, one coat primer and two coats superior quality acrylic emulsion paint for interior and exterior use, including stopping blow holes</u>				
150	Walls and columns	m ²	1		
151	Ceilings and beams (White colour group)	m ²	1		
152	Coffered ceilings (total girth measured) (White colour group)	m ²	1		
	<u>ON NEW ROUGH CONCRETE SURFACES</u>				
	<u>One coat bonding liquid, one coat alkali resistant primer and two coats PVA emulsion paint for interior use, including stopping blow holes :</u>				
153	Walls and columns	m ²	1		
154	Ceilings and beams (White colour group)	m ²	1		
155	Coffered ceilings (total girth measured) (White colour group)	m ²	1		
	Carried to Collection			R	
	Section No. 19				
	Bill No. 1				
	Paintwork				

		Unit	Quantity	Rate	Amount
	<u>One coat bonding liquid, one coat primer and two coats superior quality acrylic emulsion paint for interior and exterior use, including stopping blow holes</u>				
156	Walls and columns	m ²	1		
157	Ceilings and beams (White colour group)	m ²	1		
158	Coffered ceilings (total girth measured) (White colour group)	m ²	1		
	<u>ON NEW PLASTERBOARD SURFACES</u>				
	<u>One coat alkali resistant primer and two coats PVA emulsion paint for interior use</u>				
159	Partitions	m ²	1		
160	Ceilings and cornices (White colour group)	m ²	1		
161	Ceilings and cornices, including priming metal cover strips and nailheads (White colour group)	m ²	1		
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>				
162	Partitions	m ²	1		
163	Ceilings and cornices (White colour group)	m ²	1		
164	Ceilings and cornices, including priming metal cover strips and nailheads (White colour group)	m ²	1		
	<u>One coat alkali resistant primer and two coats low odour premium quality highly washable and stain resistant acrylic emulsion paint for interior use</u>				
165	Partitions	m ²	1		
166	Ceilings and cornices (White colour group)	m ²	1		
167	Ceilings and cornices, including priming metal cover strips and nailheads (White colour group)	m ²	1		
	<u>One coat alkali resistant primer and two coats premium quality ultra matt, fully washable and stain resistant acrylic emulsion paint for interior use</u>				
168	Partitions	m ²	1		
169	Ceilings and cornices (White colour group)	m ²	1		
170	Ceilings and cornices, including priming metal cover strips and nailheads (White colour group)	m ²	1		
	Carried to Collection			R	
	Section No. 19				
	Bill No. 1				
	Paintwork				

		Unit	Quantity	Rate	Amount
<u>ON NEW FIBRE-CEMENT BOARD SURFACES</u>					
<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>					
171	Ceilings and cornices , including priming metal cover strips and nailheads (White colour group)	m ²	1		
172	Fascias and barge boards , including priming metal jointing strips	m ²	1		
173	Flue pipes , including priming metal holderbats	m ²	1		
174	Fascias and barge boards including priming metal jointing strips	m ²	1		
175	Fascias and barge boards not exceeding 300mm girth , including priming metal jointing strips	m	1		
176	Flue pipes not exceeding 300mm girth , including priming metal holderbats	m	1		
<u>Two coats extremely durable UV-resistant, washable pure acrylic emulsion sheen paint</u>					
177	Ceilings and cornices , including priming metal cover strips and nailheads (White colour group)	m ²	1		
178	Fascias and barge boards , including priming metal jointing strips	m ²	1		
179	Flue pipes , including priming metal holderbats	m ²	1		
180	Fascias and barge boards including priming metal jointing strips	m ²	1		
181	Fascias and barge boards not exceeding 300mm girth , including priming metal jointing strips	m	1		
182	Flue pipes not exceeding 300mm girth , including priming metal holderbats	m	1		
<u>ON NEW METAL SURFACES</u>					
<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u>					
183	Doors	m ²	1		
184	Door frames	m ²	1		
185	Recordroom and strongroom doors and frames	m ²	1		
186	Roller shutter boxes	m ²	1		
Carried to Collection				R	
Section No. 19					
Bill No. 1					
Paintwork					

		Unit	Quantity	Rate	Amount
187	Windows	m ²	1		
188	Cottage pane windows	m ²	1		
189	Windows with burglar bars	m ²	1		
190	Windows with steel louvres	m ²	1		
191	Columns and beams	m ²	1		
192	Members of lattice columns and beams	m ²	1		
193	Members of roof trusses	m ²	1		
194	Members of lattice roof trusses	m ²	1		
195	Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m ²	1		
196	Rails, bars, pipes, etc	m ²	1		
197	Eaves gutters	m ²	1		
198	Rainwater downpipes	m ²	1		
199	Rails, bars, pipes, etc not exceeding 300mm girth	m	1		
200	Eaves gutters not exceeding 300mm girth	m	1		
201	Rainwater downpipes not exceeding 300mm girth	m	1		
	<u>One coat alkyd based zinc phosphate primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on steel</u>				
202	Doors	m ²	1		
203	Door frames	m ²	1		
204	Recordroom and strongroom doors and frames	m ²	1		
205	Roller shutter boxes	m ²	1		
206	Windows	m ²	1		
207	Cottage pane windows	m ²	1		
208	Windows with burglar bars	m ²	1		
209	Windows with steel louvres	m ²	1		
210	Columns and beams	m ²	1		
211	Members of lattice columns and beams	m ²	1		
212	Members of roof trusses	m ²	1		
	Carried to Collection			R	
	Section No. 19				
	Bill No. 1				
	Paintwork				

		Unit	Quantity	Rate	Amount
213	Members of lattice roof trusses	m ²	1		
214	Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m ²	1		
215	Rails, bars, pipes, etc	m ²	1		
216	Eaves gutters	m ²	1		
217	Rainwater downpipes	m ²	1		
218	Rails, bars, pipes, etc not exceeding 300mm girth	m	1		
219	Eaves gutters not exceeding 300mm girth	m	1		
220	Rainwater downpipes not exceeding 300mm girth	m	1		
	<u>One coat self etching primer and two coats premium quality polyurethane enamel paint, on galvanised steel</u>				
221	Doors	m ²	1		
222	Door frames	m ²	1		
223	Recordroom and strongroom doors and frames	m ²	1		
224	Roller shutter boxes	m ²	1		
225	Windows	m ²	1		
226	Cottage pane windows	m ²	1		
227	Windows with burglar bars	m ²	1		
228	Windows with steel louvres	m ²	1		
229	Columns and beams	m ²	1		
230	Members of lattice columns and beams	m ²	1		
231	Members of roof trusses	m ²	1		
232	Members of lattice roof trusses	m ²	1		
233	Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m ²	1		
234	Rails, bars, pipes, etc	m ²	1		
235	Eaves gutters	m ²	1		
236	Rainwater downpipes	m ²	1		
237	Rails, bars, pipes, etc not exceeding 300mm girth	m	1		
238	Eaves gutters not exceeding 300mm girth	m	1		
	Carried to Collection			R	
	Section No. 19				
	Bill No. 1				
	Paintwork				

		Unit	Quantity	Rate	Amount
239	Rainwater downpipes not exceeding 300mm girth <u>One coat self etching primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on galvanised steel</u>	m	1		
240	Doors	m ²	1		
241	Door frames	m ²	1		
242	Recordroom and strongroom doors and frames	m ²	1		
243	Roller shutter boxes	m ²	1		
244	Windows	m ²	1		
245	Cottage pane windows	m ²	1		
246	Windows with burglar bars	m ²	1		
247	Windows with steel louvres	m ²	1		
248	Columns and beams	m ²	1		
249	Members of lattice columns and beams	m ²	1		
250	Members of roof trusses	m ²	1		
251	Members of lattice roof trusses	m ²	1		
252	Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m ²	1		
253	Rails, bars, pipes, etc	m ²	1		
254	Eaves gutters	m ²	1		
255	Rainwater downpipes	m ²	1		
256	Rails, bars, pipes, etc not exceeding 300mm girth	m	1		
257	Eaves gutters not exceeding 300mm girth	m	1		
258	Rainwater downpipes not exceeding 300mm girth <u>Three coats modified acrylic lacquer paint, on copper</u>	m	1		
259	Rails, bars, pipes, etc not exceeding 300mm girth <u>One coat modified alkyd aluminium primer and two coats extremely durable UV-resistant washable pure acrylic paint, on cast iron</u>	m	1		
260	Rails, bars, pipes, etc	m ²	1		
261	Rails, bars, pipes, etc not exceeding 300mm girth	m	1		
Carried to Collection				R	
Section No. 19					
Bill No. 1					
Paintwork					

		Unit	Quantity	Rate	Amount
	<u>One coat water based galvanised iron primer and two coats UV-resistant water based alkyd roof paint, on galvanised steel</u>				
262	Corrugated roofs (measured on flat)	m ²	1		
263	IBR profile troughed roofs (measured on flat)	m ²	1		
	<u>ON NEW WOOD SURFACES</u>				
	<u>Two coats oil wood primer</u>				
264	Backs of frames, linings, etc not exceeding 300mm wide	m	1		
	<u>One coat primer and two coats premium quality polyurethane enamel paint</u>				
265	Doors	m ²	1		
266	Moulded panel doors	m ²	1		
267	Windows, sash doors and fanlights	m ²	1		
268	Cottage pane windows, sash doors, etc	m ²	1		
269	Louvered windows and doors	m ²	1		
270	Door frames etc	m ²	1		
271	Roof timbers at eaves and verges	m ²	1		
272	Boarded panelling	m ²	1		
273	Boarded ceilings	m ²	1		
274	Open slatted shelves, seats, etc of 40 x 20mm slats at 60mm centres (both sides measured over the full flat area)	m ²	1		
275	Skirtings, rails, etc not exceeding 300mm girth	m	1		
	<u>One coat primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint</u>				
276	Doors	m ²	1		
277	Moulded panel doors	m ²	1		
278	Windows, sash doors and fanlights	m ²	1		
279	Cottage pane windows, sash doors, etc	m ²	1		
280	Louvered windows and doors	m ²	1		
281	Door frames etc	m ²	1		
282	Roof timbers at eaves and verges	m ²	1		
	Carried to Collection			R	
	Section No. 19				
	Bill No. 1				
	Paintwork				

		Unit	Quantity	Rate	Amount
283	Boarded panelling	m ²	1		
284	Boarded ceilings	m ²	1		
285	Open slatted shelves, seats, etc of 40 x 20mm slats at 60mm centres (both sides measured over the full flat area)	m ²	1		
286	Skirtings, rails, etc not exceeding 300mm girth	m	1		
	<u>Three coats exterior quality penetrating wood preservative</u>				
287	Doors	m ²	1		
288	Moulded panel doors	m ²	1		
289	Windows, sash doors and fanlights	m ²	1		
290	Cottage pane windows, sash doors, etc	m ²	1		
291	Louvered windows and doors	m ²	1		
292	Door frames etc	m ²	1		
293	Roof timbers at eaves and verges	m ²	1		
294	Boarded panelling	m ²	1		
295	Boarded ceilings	m ²	1		
296	Open slatted shelves, seats, etc of 40 x 20mm slats at 60mm centres (both sides measured over the full flat area)	m ²	1		
297	Skirtings, rails, etc not exceeding 300mm girth	m	1		
	<u>Three coats superior quality clear gloss varnish</u>				
298	Doors	m ²	1		
299	Moulded panel doors	m ²	1		
300	Windows, sash doors and fanlights	m ²	1		
301	Cottage pane windows, sash doors, etc	m ²	1		
302	Louvered windows and doors	m ²	1		
303	Door frames etc	m ²	1		
304	Roof timbers at eaves and verges	m ²	1		
305	Boarded panelling	m ²	1		
306	Boarded ceilings	m ²	1		
	Carried to Collection			R	
	Section No. 19				
	Bill No. 1				
	Paintwork				

		Unit	Quantity	Rate	Amount
307	Open slatted shelves, seats, etc of 40 x 20mm slats at 60mm centres (both sides measured over the full flat area)	m ²	1		
308	Skirtings, rails, etc not exceeding 300mm girth	m	1		
	<u>Three coats superior quality clear matt varnish</u>				
309	Doors	m ²	1		
310	Moulded panel doors	m ²	1		
311	Windows, sash doors and fanlights	m ²	1		
312	Cottage pane windows, sash doors, etc	m ²	1		
313	Louvered windows and doors	m ²	1		
314	Door frames etc	m ²	1		
315	Roof timbers at eaves and verges	m ²	1		
316	Boarded panelling	m ²	1		
317	Boarded ceilings	m ²	1		
318	Open slatted shelves, seats, etc of 40 x 20mm slats at 60mm centres (both sides measured over the full flat area)	m ²	1		
319	Skirtings, rails, etc not exceeding 300mm girth	m	1		
	<u>Three coats superior quality polyurethane suede varnish</u>				
320	Doors	m ²	1		
321	Moulded panel doors	m ²	1		
322	Windows, sash doors and fanlights	m ²	1		
323	Cottage pane windows, sash doors, etc	m ²	1		
324	Louvered windows and doors	m ²	1		
325	Door frames etc	m ²	1		
326	Roof timbers at eaves and verges	m ²	1		
327	Boarded panelling	m ²	1		
328	Boarded ceilings	m ²	1		
329	Open slatted shelves, seats, etc of 40 x 20mm slats at 60mm centres (both sides measured over the full flat area)	m ²	1		
	Carried to Collection			R	
	Section No. 19				
	Bill No. 1				
	Paintwork				

		Unit	Quantity	Rate	Amount
330	Skirtings, rails, etc not exceeding 300mm girth	m	1		
	<u>PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK</u>				
	<u>ON EXISTING INTERNAL FLOATED PLASTER SURFACES</u>				
	<u>Two coats superior quality acrylic emulsion paint for interior and exterior use</u>				
331	Walls	m ²	1		
332	Ceilings and beams (White colour group)	m ²	1		
	<u>Two coats low odour premium quality highly washable and stain resistant acrylic emulsion paint</u>				
333	Walls	m ²	1		
334	Ceilings and beams (White colour group)	m ²	1		
	<u>Two coats premium quality polyurethane enamel paint</u>				
335	Walls	m ²	1		
336	Ceilings and beams (White colour group)	m ²	1		
	<u>Two coats alkyd based universal undercoat and one coat superior quality universal enamel paint</u>				
337	Walls	m ²	1		
338	Ceilings and beams (White colour group)	m ²	1		
	<u>Two coats extremely durable UV-resistant washable pure acrylic emulsion sheen paint</u>				
339	Walls	m ²	1		
340	Ceilings and beams (White colour group)	m ²	1		
	<u>ON EXISTING EXTERNAL FLOATED PLASTER SURFACES</u>				
	<u>Two coats superior quality acrylic emulsion paint for exterior use</u>				
341	Walls	m ²	1		
342	Ceilings and beams (White colour group)	m ²	1		
	<u>Two coats extremely durable UV-resistant washable pure acrylic emulsion sheen paint with teflon</u>				
343	Walls	m ²	1		
344	Ceilings and beams (White colour group)	m ²	1		
	Carried to Collection			R	
	Section No. 19				
	Bill No. 1				
	Paintwork				

		Unit	Quantity	Rate	Amount
	<u>ON EXISTING PLASTERBOARD SURFACES</u>				
	<u>Two coats superior quality acrylic emulsion paint for interior and exterior use</u>				
345	Partitions	m ²	1		
346	Ceilings and cornices (White colour group)	m ²	1		
	<u>Two coats low odour premium quality highly washable and stain resistant acrylic emulsion paint</u>				
347	Partitions	m ²	1		
348	Ceilings and cornices (White colour group)	m ²	1		
	<u>ON EXISTING FIBRE-CEMENT BOARD SURFACES</u>				
	<u>Two coats extremely durable UV-resistant washable pure acrylic paint, on work in poor condition</u>				
349	Fascias and barge boards	m ²	1		
350	Fascias and barge boards not exceeding 300mm girth	m	1		
	<u>ON EXISTING METAL SURFACES</u>				
	<u>One coat alkyd based universal undercoat and one coat superior quality universal enamel paint</u>				
351	Door frames	m ²	1		
352	Recordroom and strongroom doors and frames	m ²	1		
353	Roller shutter boxes	m ²	1		
354	Windows	m ²	1		
355	Windows with burglar bars	m ²	1		
356	Columns and beams	m ²	1		
357	Rails, bars, pipes, etc not exceeding 300mm girth	m	1		
	<u>Spot priming bare metal surfaces, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint</u>				
358	Door frames	m ²	1		
359	Recordroom and strongroom doors and frames	m ²	1		
360	Roller shutter boxes	m ²	1		
361	Windows	m ²	1		
362	Windows with burglar bars	m ²	1		
363	Columns and beams	m ²	1		
	Carried to Collection			R	
	Section No. 19				
	Bill No. 1				
	Paintwork				

		Unit	Quantity	Rate	Amount
364	Rails, bars, pipes, etc not exceeding 300mm girth	m	1		
	<u>ON EXISTING WOOD SURFACES</u>				
	<u>One coat alkyd based universal undercoat and one coat superior quality universal enamel paint</u>				
365	Doors	m ²	1		
366	Door frames etc	m ²	1		
367	Roof timbers at eaves and verges	m ²	1		
368	Skirtings, rails, etc not exceeding 300mm girth	m	1		
	<u>Spot priming bare wood surfaces, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint</u>				
369	Doors	m ²	1		
370	Door frames etc	m ²	1		
371	Roof timbers at eaves and verges	m ²	1		
372	Skirtings, rails, etc not exceeding 300mm girth	m	1		
	<u>Two coats exterior quality penetrating wood preservative</u>				
373	Doors	m ²	1		
374	Door frames etc	m ²	1		
375	Roof timbers at eaves and verges	m ²	1		
376	Skirtings, rails, etc not exceeding 300mm girth	m	1		
	<u>Two coats superior quality clear gloss varnish</u>				
377	Doors	m ²	1		
378	Door frames etc	m ²	1		
379	Roof timbers at eaves and verges	m ²	1		
380	Skirtings, rails, etc not exceeding 300mm girth	m	1		
	<u>Two coats superior quality clear matt varnish</u>				
381	Doors	m ²	1		
382	Door frames etc	m ²	1		
383	Roof timbers at eaves and verges	m ²	1		
384	Skirtings, rails, etc not exceeding 300mm girth	m	1		
Carried to Collection				R	
Section No. 19					
Bill No. 1					
Paintwork					

		Unit	Quantity	Rate	Amount
<u>SPECIAL FINISHES</u>					
<u>FINISH ON NEW WORK</u>					
The following paintwork is to be executed in accordance with the Architect's specifications					
<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>					
<u>One coat acrylic masonry primer, two coats pre-pigmented texturised pure acrylic coating and one acrylic glaze coat, applied by specialists</u>					
385	Walls	m ²	1		
386	Mouldings and bands in colours differing from surrounding work	m ²	1		
387	Mouldings and bands not exceeding 300mm wide or girth in colours differing from surrounding work	m	1		
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Section No. 19					
Bill No. 1					
Paintwork					

Amount

BILL NO. 1
PAINTWORK
COLLECTION

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Section No. 19
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Paintwork

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Bill No. 1
Paintwork

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PAINTWORK
SECTION SUMMARY

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PAINTWORK

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SECTION SUMMARY

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SECTION NO.20
EXTERNAL WORKS

	Unit	Quantity	Rate	Amount
<u>SECTION NO.20</u>				
<u>EXTERNAL WORKS</u>				
<u>BILL NO. 1</u>				
<u>EXTERNAL WORKS</u>				
<u>EXTERNAL WORK</u>				
<u>LANDSCAPING</u>				
<u>Excavate in earth and dispose on site</u>				
1 Not exceeding 150mm deep to remove humps, form shallow ditches, etc	m ²	1		
<u>Ground preparation</u>				
2 Cultivation and preparation of areas to be planted	m ²	1		
<u>Selected topsoil obtained from prescribed stock piles on site, including spreading and levelling</u>				
3 In plant beds, grassed areas and holes for trees, shrubs, etc	m ³	1		
4 In plant boxes , pots, etc	m ³	1		
<u>Well sifted topsoil supplied by the contractor, including spreading and levelling</u>				
5 In plant beds, grassed areas and holes for trees, shrubs, etc	m ³	1		
6 In plant boxes , pots, etc	m ³	1		
<u>Garden soil supplied by the contractor (3 parts well sifted top soil, 1 part compost and 1 part milled pine bark), including spreading and levelling</u>				
7 In plant beds, grassed areas and holes for trees, shrubs, etc	m ³	1		
8 In plant boxes , pots, etc	m ³	1		
<u>Compost, lime and fertilizer</u>				
9 Compost in plant beds, holes for trees, shrubs, etc	m ³	1		
10 Compost in plant boxes, pots, etc	m ³	1		
11 Agricultural lime for trees, shrubs, ground covers, etc	Kg	1		
12 Super phosphate granular commercial fertilizer for trees, shrubs, ground covers, etc	Kg	1		
Carried to Collection			R	
Section No. 20				
Bill No. 1				
External Works				

		Unit	Quantity	Rate	Amount
	<u>Mulch</u>				
13	25mm Thick mulch layer in plant beds between plants	m ²	1		
	<u>Shrubs, bulbs and plants</u>				
14	Abelia postrata (4l container)	No	1		
15	Agapanthus spp Blue (2l container)	No	1		
16	Bauhinia galpinii (4l container)	No	1		
	<u>Trees</u>				
17	Acer palmatum 2000mm high	No	1		
18	Acacia melanoxylon 2000mm high	No	1		
	<u>Grassing, ground covers, etc</u>				
19	Kikuyu roots in rows at 250mm centres	m ²	1		
20	Kikuyu sods approximately 500 x 500 x 50mm thick	m ²	1		
21	Kikuyu rolls 50mm thick	m ²	1		
22	Asparagus densiflorus Sprengeri (0,5 l container)	m ²	1		
23	Plumbago auriculata (0,5 l container) (8/m)	m ²	1		
	<u>Pebble covering</u>				
24	Covering of river stone pebbles varying in size from 20mm to 50mm diameter	m ²	1		
	<u>Rockery boulders</u>				
25	Rockery boulder approximately 400mm diameter obtained from stock piles on site	No	1		
26	Rockery boulder approximately 400mm diameter supplied by the contractor	No	1		
27	Roughly rectangular rockery boulder approximately 0,1 m\sup 3\nosupsub obtained from stock piles on site	No	1		
28	Roughly rectangular rockery boulder approximately 0,1 m\sup 3\nosupsub supplied by the contractor	No	1		
	<u>Maintenance</u>				
29	Allow for maintaining landscaping for a period of 3 months after practical completion, including watering, weeding, cutting, replacing dead plants, etc	Item			
Carried to Collection				R	
Section No. 20					
Bill No. 1					
External Works					

		Unit	Quantity	Rate	Amount
<u>IRRIGATION SYSTEM</u>					
<u>High density polyethylene class 10 type IV piping complying with SANS 533-1 with brass compression couplings</u>					
30	20mm Pipes laid in and including trenches approximately 500mm deep	m	1		
<u>Extra over polyethylene type IV pipes for compression fittings</u>					
31	20mm Fittings	No	1		
<u>Extra over polyethylene type IV pipes for composite fittings :</u>					
32	20mm Tee	No	1		
33	20mm Brass ball valve in and including suitable valve box	No	1		
34	20mm Brass ball valve assembly with 20mm inlet and 20mm outlet	No	1		
<u>Microsprays</u>					
35	Approved mist microspray	No	1		
<u>Mist sprayers on riser pipes</u>					
36	Approved mist sprayer on 6mm pipe 300mm high	No	1		
<u>Pop-up sprayers</u>					
37	Approved pop-up mist sprayer on 20mm pipe	No	1		
<u>Pop-up sprinklers</u>					
38	Approved rotary pop-up sprinkler on 20mm pipe	No	1		
<u>Testing</u>					
39	Testing irrigation system	Item			
<u>RETAINING STRUCTURES FORMED OF PLANTER BLOCKS</u>					
<u>Open face excavation in earth</u>					
40	To embankment behind retaining blocks including trimming to slope	m ³	1		
<u>Excavation in earth not exceeding 2m deep</u>					
41	Trenches	m ³	1		
42	Holes	m ³	1		
Carried to Collection				R	
Section No. 20					
Bill No. 1					
External Works					

		Unit	Quantity	Rate	Amount
	<u>Risk of collapse of excavations</u>				
43	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	1		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density</u>				
44	To form embankments for retaining structures	m ³	1		
	<u>25MPa/19mm unreinforced concrete</u>				
45	Strip footings	m ³	1		
	<u>Rough formwork to sides</u>				
46	Edges not exceeding 300mm high	m	1		
	<u>Interlocking planter blocks</u>				
	<u>"Loffelstein" precast concrete interlocking planter blocks finished smooth on exposed surfaces</u>				
47	Retaining structures with stepped face and curves as required to suit slopes, of "Loffelstein L300" interlocking planter blocks laid with horizontal bed joints to 65 degree slope, including average 150mm thick compacted earth filling behind the blocks and filling blocks with garden soil lightly tamped as the work proceeds.	m ²	1		
48	Retaining structures with stepped face and curves as required to suit slopes, of "Loffelstein L500" interlocking planter blocks laid with horizontal bed joints to 65 degree slope, including average 150mm thick compacted earth filling behind the blocks and filling blocks with garden soil lightly tamped as the work proceeds.	m ²	1		
	<u>ROADWORK, PARKING AREAS AND PAVING</u>				
	<u>Testing of material and filling</u>				
	Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series				
	<u>Precast concrete block road surfacing</u>				
	Paving shall be laid in accordance with SABS 1200 MJ, S A N S 1058 and the Concrete Masonry Associations specifications				
	Paving shall be laid to herringbone pattern on 20mm thick (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere)				
	Carried to Collection			R	
	Section No. 20				
	Bill No. 1				
	External Works				

	Unit	Quantity	Rate	Amount
Clean sand shall be swept into joints between roadstones at completion <u>Site clearance</u>				
49 Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth <u>Open face excavation in earth over sloping site</u>	m ²	1		
50 Open face excavation to form platforms under parking areas etc and spread and fill to defined levels including compacting to a density of at least 95% Mod. AASHTO maximum density <u>Excavation in earth</u>	m ³	1		
51 Not exceeding 2m deep over site between buildings, retaining walls, etc to reduce levels	m ³	1		
52 Not exceeding 2m deep over site between buildings, retaining walls, etc to reduce levels and dispose in prescribed stock piles on site	m ³	1		
53 300mm Deep over site between buildings, retaining walls, etc to remove top soil and dispose in prescribed stock piles on site <u>Extra over bulk excavation in earth for excavation in</u>	m ²	1		
54 Soft rock	m ³	1		
55 Hard rock	m ³	1		
<u>Extra over bulk excavation in earth for breaking up and removing</u>				
56 Brickwork	m ³	1		
57 Unreinforced concrete	m ³	1		
58 Reinforced concrete	m ³	1		
<u>Extra over all excavations for carting away</u>				
59 Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor <u>Keeping excavations free of water</u>	m ³	1		
60 Keeping excavations free of water other than subterranean water	Item			
Carried to Collection			R	
Section No. 20				
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External Works				

		Unit	Quantity	Rate	Amount
<u>Compaction of surfaces</u>					
61	Compaction of ground surfaces under parking areas etc by wetting and compacting with 12 passes of a 3-sided 25 kilo Joule high energy impact compactor	m ²	1		
62	Compaction of ground surfaces under pavings etc, including scarifying for a depth of 150 mm, breaking down oversize material, adding suitable material where necessary and compacting to 95 % Mod AASHTO density	m ²	1		
<u>Selected earth filling obtained from the excavations and/or prescribed stock piles on site</u>					
63	Under road islands etc, compacted to 95% Mod AASHTO density	m ³	1		
64	Subbase course under parking areas etc, compacted to 95% Mod AASHTO density	m ³	1		
65	Base course under parking areas etc, compacted to 95% Mod AASHTO density	m ³	1		
<u>Filling supplied by the contractor under parking areas, roadways, etc</u>					
66	G7 gravel-soil material compacted to 95% Mod AASHTO density	m ³	1		
67	G9 gravel-soil material compacted to 95% Mod AASHTO density	m ³	1		
68	Subbase course of G4 natural gravel material, compacted to 95% Mod AASHTO density	m ³	1		
69	Base course of G5 natural gravel material, compacted to 95% Mod AASHTO density	m ³	1		
70	Base course of G6 natural gravel material, compacted to 95% Mod AASHTO density	m ³	1		
71	Extra over subbase or base course of natural gravel material for stabilisation with lime (cement)	m ³	1		
<u>Additional tests required by the principal agent</u>					
72	In-situ dry density test in accordance with method A10(b) of TMH1	No	1		
73	Maximum dry density and optimum moisture content test in accordance with method A7 of TMH1	No	1		
74	Atterberg limits test in accordance with methods A2 to A4 of TMH1	No	1		
Carried to Collection				R	
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External Works					

		Unit	Quantity	Rate	Amount
75	CBR test in accordance with method A8 of TMH1	No	1		
76	UCS test in accordance with method A14 of TMH1	No	1		
	<u>Bituminous premix road surfacing</u>				
77	25mm Thick paving to parking areas, roadways, etc including bitumin spray to base course	m ²	1		
78	30mm Thick paving to parking areas, roadways, etc including bitumin spray to base course	m ²	1		
79	50mm Thick paving to parking areas, roadways, etc including bitumin spray to base course	m ²	1		
80	75mm Thick paving to parking areas, roadways, etc including bitumin spray to base course	m ²	1		
	<u>30MPa/19mm reinforced concrete</u>				
81	Paving to parking areas, roadways, etc in panels between construction joints etc	m ³	1		
82	Edging to kerbs etc	m ³	1		
	<u>Finishing top surfaces of concrete with a power float and a coarse hard grass broom</u>				
83	Paving to parking areas, roads, etc to falls	m ²	1		
84	Edging to kerbs etc not exceeding 300mm wide	m ²	1		
	<u>Rough Formwork to Sides:</u>				
85	Edges, risers, ends and reveals not exceeding 300mm high or wide	m ²	1		
86	Edges, risers, ends and reveals not exceeding 300mm high or wide circular exceeding 1m radius	m ²	1		
	<u>Diamond saw-cut contraction joint in top surface of concrete road slab:</u>				
87	3 x 40mm Diamond saw-cut joint in top of concrete including reaming out for a depth of 10mm to 10mm wide at top	m	1		
88	6 x 20mm Saw-cut joints with bevelled top corners in top of concrete	m	1		
	<u>Expansion joints with 12mm bitumen impregnated softboard through concrete paving</u>				
89	Paving not exceeding 300mm thick	m	1		
Carried to Collection				R	
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		Unit	Quantity	Rate	Amount
	<u>Vertical joggle construction joints through concrete, including thick cement slurry to one face</u>				
90	Paving not exceeding 300mm thick	m	1		
	<u>Fabric reinforcement</u>				
91	Type 395 fabric reinforcement in concrete paving etc	m ²	1		
	<u>60mm Thick "Corolock Grey" precast concrete interlocking block paving of 200 x 100mm grey colour paving blocks in accordance with SANS 1058, laid to falls on and including 25mm thick sand layer with joints filled in with sand, compacted with a vibration compactor</u>				
92	Paving to parking areas etc to falls, including necessary straight edge blocks	m ²	1		
93	Paving to sidewalks etc to falls , including necessary straight edge blocks	m ²	1		
	<u>80mm Thick "Corolock Grey" precast concrete interlocking block paving of 200 x 100mm grey colour paving blocks in accordance with SANS 1058, laid to falls on and including 25mm thick sand layer with joints filled in with sand, compacted with a vibration compactor</u>				
94	Paving to parking areas etc to falls, including necessary straight edge blocks	m ²	1		
95	Paving to sidewalks etc to falls , including necessary straight edge blocks	m ²	1		
	<u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing</u>				
96	150 x 300mm High kerbs (SA N S 927 fig 3) with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint , circular on plan exceeding 4m radius, formed with straight kerbs, including excavation, backfilling, etc	m	1		
97	150 x 300mm High kerbs (SA N S 927 fig 3) with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint , circular on plan not exceeding 4m radius, formed with short lengths of straight kerbs, including excavation, backfilling, etc	m	1		
98	150 x 300mm High kerbs (SA N S 927 fig 3) with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc	m	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
99	230 x 125mm High kerbs (SA N S 927 fig 6) laid flat as mountable kerb with 250 x 250 x 300mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc	m	1		
100	230 x 125mm High kerbs (SA N S 927 fig 6) laid flat as mountable kerb, ditto but circular on plan with 250 x 250 x 300mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc	m	1		
	<u>Two-part grey polysulphide sealing compound, including backing cord, bond breaker, primer, etc</u>				
101	6 x 20mm In saw-cut joints	m	1		
102	12 x 20mm In saw-cut joints with bevelled top corners	m	1		
103	10 x 10mm In expansion joints, including raking out expansion joint filler as necessary	m	1		
	<u>Road signs</u>				
104	Standard STOP sign with 50mm diameter galvanised mild steel post bedded in and including unreinforced concrete base, including any necessary excavation, paint finish, etc	No	1		
	<u>Paintwork</u>				
	<u>Primer and two coats reflective road marking paint on tarmacadam :</u>				
105	Line 120mm wide	m	1		
106	Numeral or letter 500mm high	No	1		
107	Traffic arrow 600 x 1000mm wide extreme	No	1		
108	Excavation in earth not exceeding 2m deep for trenches	m ³	1		
109	Risk of collapse of sides of excavations not exceeding 1,5m deep	m ²	1		
110	25MPa/19mm reinforced concrete in bottoms and sides	m ³	1		
111	Finishing concrete bottoms smooth with a steel trowel to falls	m ²	1		
112	Rough formwork to sides	m ²	1		
113	Smooth formwork to sides above sloping bottoms	m ²	1		
114	12mm Expansion joints with softboard through concrete bottoms not exceeding 300mm high	m	1		
	Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
115	12mm Expansion joints with softboard through concrete sides of channels not exceeding 300mm wide	m	1		
116	Type 193 fabric reinforcement in concrete bottoms and sides	m ²	1		
117	50 x 50 x 5mm Angle section galvanised steel bearers with 25 x 25mm flat section bent lugs each 200mm girth welded on at 300mm centres, including embedding in concrete	Kg	1		
118	Extra over for mitred and welded L-intersection	No	1		
119	300mm Wide type "Mentis B60" galvanised steel gratings of banded panels in suitable lengths	m	1		
120	500mm Wide type "Mentis B60" galvanised steel gratings of banded panels in suitable lengths	m	1		
121	500mm Wide type "Mentis A60" galvanised steel gratings of banded panels in suitable lengths	m	1		
122	500mm Wide type "Mentis A100" galvanised steel gratings of banded panels in suitable lengths	m	1		
	<u>Paintwork</u>				
	<u>Etching primer and two coats reflective road marking paint on concrete :</u>				
123	Line 120mm wide	m	1		
124	Numeral or letter 500mm high	No	1		
125	Directional traffic arrow 600 x 1000mm wide extreme	No	1		
126	Standard disability parking symbol size 1000mm wide x 1500mm long.	No	1		
	<u>PRECAST CONCRETE STORMWATER CHANNELS ETC</u>				
	<u>Precast concrete stormwater channels</u>				
127	460 x 170mm Channel with segmental channel formed therein and finished smooth on exposed surfaces including necessary excavation and formwork	m	1		
128	Extra over for angles, intersections, ends, etc	No	1		
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		Unit	Quantity	Rate	Amount
	<u>FENCING</u>				
	<u>'CLEARVU INVISIBLE WALL' EPOXY COATED GALVANISED MILD STEEL FENCING :</u>				
	<u>'ClearVu Invisible Wall' epoxy coated galvanised mild steel fencing, gates, etc :</u>				
129	Fencing 1800mm high with post 2400mm long.	m	1		
130	Fencing 2100mm high with post 2700mm long.	m	1		
131	Fencing 2400mm high with post 3000mm long.	m	1		
	<u>Galvanised barbed wire fence with bitumen dipped steel standards and droppers and bitumen-aluminium painted (two coats) steel pipe posts, stays, gates, etc including galvanised steel bolts, straining eye bolts, etc, site clearance and preparation of ground</u>				
132	Fence 1800mm high of 5 strands barbed wire tied to and including standards at not exceeding 3000mm centres with droppers at not exceeding 1000mm centres in between	m	1		
133	Extra over for 75mm diameter inclined stay 1500mm long, including concrete base	No	1		
134	Extra over for 75mm diameter straining or gate post 1800mm long, including concrete base	No	1		
135	Gate 1000 x 1800mm high of 40mm diameter framing filled in with barbed wire at not exceeding 300mm centres horizontally and vertically, including hinges, spring latch with catch, etc	No	1		
136	Continuous razor wire security roll to top of fence flat wrapped in 600mm diameter rings, tied together and to straining wire at 500mm centres	m	1		
	<u>Reinforced precast concrete fence finished smooth on exposed surfaces, including site clearance and preparation of ground</u>				
137	Precast concrete fence 2100mm high above ground level over flat or sloping terrain with 100 x 100mm standard H-section posts at 1500mm centres, filled in with standard 30 x 300mm high panels with louvre design on one side, including concrete bases and grouting panels in cement mortar	m	1		
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		Unit	Quantity	Rate	Amount
	<u>Reinforced precast concrete palisade fence finished smooth on exposed surfaces, including site clearance and preparation of ground</u>				
138	Palisade fence 2400mm high above ground level over flat or sloping terrain with intermediate and end posts at 3m centres cast into concrete bases, top and bottom horizontal rails with ends grouted into mortices in posts and tapering to long palings at suitable centres bolted to rails at intersections, including stopping off bolt holes with cement mortar	m	1		
	<u>TEMPORARY FENCING</u>				
	<u>"Allens Meshco" or other equal and approved Class A Galvanised Welded Mesh temporary fencing, including removal :</u>				
139	Temporary fencing 1,8m high formed of 100 x 50 x 3.15mm Class A galvanised mild tensile welded wire mesh with 100mm overlaps and 2 x 300mm vertical laps fixed at 1m centres with 'Hartco' clips to and including three 2.6mm diameter straining wires and covered with shade cloth, the welded mesh and shade cloth fixed to and including 75 x 75mm prestressed concrete intermediate posts at 3m centres including concrete bases, excavations, filling in and ramming, clearing along the fence line and levelling for a width of 500mm either side of the fence, including removal and making good.	m	1		
140	Temporary fencing 2,1m high formed of 100 x 50 x 3.15mm Class A galvanised mild tensile welded wire mesh with 100mm overlaps and 2 x 300mm vertical laps fixed at 1m centres with 'Hartco' clips to and including three 2.6mm diameter straining wires and covered with shade cloth, the welded mesh and shade cloth fixed to and including 75 x 75mm prestressed concrete intermediate posts at 3m centres including concrete bases, excavations, filling in and ramming, clearing along the fence line and levelling for a width of 500mm either side of the fence, including removal and making good.	m	1		
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SECTION SUMMARY

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SECTION SUMMARY

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20	EXTERNAL WORKS	342	
21	ELECTRICAL WORK	97 pgs	
22	MECHANICAL WORK	94 pgs	
23	LIFT INSTALLATION	48 pgs	
	NET TOTAL TENDERERS WORK (CARRIED TO FORM OF TENDER ITEM 1.0)	R	
	PROVISIONAL SUMS (CARRIED TO FORM OF TENDER ITEM 2.0)	149	N/A
	SUB-TOTAL (CARRIED TO FORM OF TENDER ITEM 3.0)	R	
	ADD: 15% ON THE ABOVE SUBTOTAL FOR VALUE-ADDED TAX (CARRIED TO FORM OF TENDER ITEM 4.0)	R	
	GROSS TOTAL (CARRIED TO FORM OF TENDER ITEM 5.0)	R	

Electrical Work

<u>Item</u>		<u>Description</u>	<u>No. of Pages</u>
<u>SCHEDULE OF RATES - BILL OF QUANTITIES</u>			
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B	2	BILL NO 2: CERTIFICATE OF COMPLIANCE	1
C	3	BILL NO 3: CIRCUIT BREAKERS, SWITCHGEAR, DISTRIBUTION BOARD & ASSOCIATED EQUIPMENT	12
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I	9	BILL NO 9: LAMPS	9
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K	11	BILL NO 11: LIGHT SWITCHES	3
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M	13	BILL NO 13: SWITCHED SOCKET OUTLETS, ENCLOSURES & ACCESSORIES	7
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O	15	BILL NO 15: HYDROBOIL	1
P	16	BILL NO 16: FANS, DRYERS & ACCESSORIES	4
Q	17	BILL NO 17: OCCUPANCY SENSORS	3
R	18	BILL NO 18: LIGHTNING & SURGE PROTECTION	4
S	19	BILL NO 19: SOLAR	5
T	20	BILL NO 20: GENERATORS AND UPS	2
	21	BILL SUMMARY	1
	22	BILL PAGE TOTAL	95

Item		Description	Unit	Qty	Rate	Amount
A		ELECTRICAL WORKS				
		BILL OF QUANTITIES: BILL NO 1 OF 20				
		ARTISAN				
		The artisans and technical persons as described below and registered in terms of the Department of Labour, Engineering Council of South Africa.				
		Labour rates for work not covered by any scheduled rates:				
		Labour rates for normal working hours to include transport costs:				
		LABOUR RATES				
A	1	Master Registered Electrician (Registered with Department of Labour)	hrs	1		
A	2	Registered Installation Electrician (Wiremans License)	hrs	1		
A	3	Electrical Trade Test Artisan	hrs	1		
A	4	Electrical Artisan Assistant	hrs	1		
A	5	General Labour Assistant	hrs	1		
TOTAL CARRIED TO BILL SUMMARY Page						

Item	Description	Unit	Qty	Rate	Amount
B	ELECTRICAL WORKS				
	BILL OF QUANTITIES: BILL NO 2 OF 20				
	CERTIFICATE OF COMPLIANCE				
	Allow for the tesing, commissioning and issuing of the Electrical Compliance Certificate in terms of SANS10142: Wiring Code, latest revision and to be completed by the recognised person in terms of the Wiring Code and Department of Labour.				
	1 Single phase Distribution Board: CoC	No	1		
	2 Three phase Distribution Board: CoC	No	1		
	3 Infra-Red Testing	per day	1		
B	4 Testing and fault finding on low voltage(600/1000V) grade cables using specilist equtment. (Using a cable fault locator)	per cable	1		
B	5 Electrical Warning/Danger Signage including labelling of (Distribution Board) and all the circuits.	No	1		
B	6 Power Load logging, analysis and report on a 230/400V system up to 3000A (Low voltage substation and distribution board)	per day	1		
TOTAL CARRIED TO BILL SUMMARY Page					

Item	Description	Unit	Qty	Rate	Amount
C	ELECTRICAL WORKS				
	BILL OF QUANTITIES: BILL NO 3 OF 20				
	CIRCUIT BREAKERS, SWITCHGEAR, DISTRIBUTION BOARD & ASSOCIATED EQUIPMENT				
	CIRCUIT BREAKERS				
	MINIATURE CIRCUIT BREAKERS(MCB)				
	Supply, deliver and install miniature circuit breakers in accordance with SANS 156. Approved by SABS. The circuit breakers are to be fitted into existing or new distribution boards.				
	3KA, CURVE 3(STANDARD) HYDRAULIC MAGNETIC TYPE SINGLE PHASE, 240V, 50Hz CBI or equal approved				
	C 1 5A, Single Pole	No	1		
	C 2 10A to 20A, Single Pole	No	1		
	C 3 25A to 40A, Single Pole	No	1		
	C 4 45A to 60A, Single Pole	No	1		
	C 5 5A to 20A, Double Pole	No	1		
	C 6 25A to 50A, Double Pole	No	1		
	C 7 60A, Double Pole	No	1		
	Merlin Gerin or equal approved				
	C 8 5A, Single Pole	No	1		
	C 9 10A to 20A, Single Pole	No	1		
	C 10 25A to 40A, Single Pole	No	1		
	C 11 45A to 60A, Single Pole	No	1		
	C 12 5A to 20A, Double Pole	No	1		
	C 13 25A to 50A, Double Pole	No	1		
	C 14 60A, Double Pole	No	1		
Carried to Collection Page					

	Item	Description	Unit	Qty	Rate	Total
		6KA, DUAL MOUNT: HYDRAULIC MAGNETIC TYPE				
		THREE PHASE, 400V, 50Hz				
		CBI or equal approved				
C	77	63A, Four Pole	No	1		
C	78	100A, Four Pole	No	1		
		Merlin Gerin or equal approved				
C	79	63A, Four Pole	No	1		
C	80	100A, Four Pole	No			
		SWITCH DISCONNECTORS				
		Supply, deliver and install switch disconnectors in accordance with IEC 60947-3.				
		The switch disconnectors are to be surface mounted and shall be complete with all extension boxes, enclosures, fittings, fixtures and accessories required for the works.				
		Padlockable in OFF position. IP55 rating				
		The switch disconnectors shall be as per Waco: Era: E Series or equal approved				
C	81	20A Double Pole Isolator	No	1		
C	82	25A Double Pole Isolator	No	1		
C	83	32A Double Pole Isolator	No	1		
C	84	45A Double Pole Isolator	No	1		
C	85	63A Double Pole Isolator	No	1		
C	86	100A Double Pole Isolator	No	1		
C	87	20A Three Pole + N, Isolator	No	1		
C	88	25A Three Pole + N, Isolator	No	1		
C	89	32A Three Pole + N, Isolator	No	1		
C	90	45A Three Pole + N, Isolator	No	1		
C	91	63A Three Pole + N, Isolator	No	1		
C	92	100A Three Pole + N, Isolator	No	1		
C	93	20A Four Pole Isolator	No	1		
C	94	25A Four Pole Isolator	No	1		
C	95	32A Four Pole Isolator	No	1		
C	96	45A Four Pole Isolator	No	1		
C	97	63A Four Pole Isolator	No	1		
C	98	100A Four Pole Isolator	No	1		
		Automatic Changeover Switches				
		4 pole motorised change over switches to have failsafe mechanical interlock, Padlockable in the OFF position, Fully independent position auxiliary contacts one for each position (I / O / II) and Wide-band AC control voltage $\pm 20\%$. All sundries to be included. Socomec or equally approved. (Installation to comply with all warranties and guarantees costs)				
C	99	1000A	No	1		
C	100	1600A	No	1		
C	101	2500A	No	1		
C	102	3200A	No	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Total
		DISTRIBUTION BOARDS Supply, deliver and install LV sheetmetal distribution boards. The distribution boards shall comply to SANS 1765. The boards shall be , Colour: White, sheet steel 15/10 thick. The distribution boards shall be of the industrial/commerical architrave boards type. The distribution boards shall be complete with front full sheet metal hinged door, functional chassis, interior kits for circuit breakers and modular products, full sized top and bottom gland plates, blank covers, lockable door, adjustable DIN rail depth facility/Samite, rear adjustment screws, earth/neutral terminals, necessary fittings, fixtures and accessories for the works. SURFACE MOUNTED : SINGLE PHASE, 240V				
C	166	12 Way DB	No	1		
C	167	18 Way DB	No	1		
C	168	24 Way DB	No	1		
		SURFACE MOUNTED : THREE PHASE, 400V				
C	169	12 Way DB	No	1		
C	170	18 Way DB	No	1		
C	171	24 Way DB	No	1		
		FLUSH MOUNTED : SINGLE PHASE, 240V				
C	172	12 Way DB	No	1		
C	173	18 Way DB	No	1		
C	174	24 Way DB	No	1		
		FLUSH MOUNTED : THREE PHASE, 400V				
C	175	12 Way DB	No	1		
C	176	18 Way DB	No	1		
C	177	24 Way DB	No	1		
		DISTRIBUTION BOARDS Supply, deliver and install LV sheetmetal distribution boards. The distribution boards shall comply to SANS 1765. The boards shall be IP65. The distribution boards shall be of the industrial/commerical architrave boards type. The distribution boards shall be complete with front full hinged door, functional chassis, interior kits for circuit breakers and modular products, full sized top and bottom gland plates, blank covers, lockable door, adjustable DIN rail depth facility/Samite, rear adjustment screws, earth/neutral terminals, necessary fittings, fixtures and accessories for the works. SURFACE MOUNTED : SINGLE PHASE, 240V				
C	178	12 Way DB	No	1		
C	179	18 Way DB	No	1		
C	180	24 Way DB	No	1		
		Carried to Collection Page				

Item	Description	Unit	Qty	Rate	Total
	SURFACE MOUNTED : THREE PHASE, 400V				
C 181	12 Way DB	No	1		
C 182	18 Way DB	No	1		
C 183	24 Way DB	No	1		
	AUXILIARY EQUIPMENT				
C 184	Distribution Board Blank covers	No	1		
C 185	DIN Rail	m	1		
	ELECTRICAL READY BOARDS				
	Supply, deliver and install LV electrical ready boards.				
	The ready boards shall consist of the following switchgear and fittings: 1 x QA 17C 63A, 2 x QA-1 13mm 20A, 1 x Switched Bulkhead, 3 x 16A Switched Sockets, 1 x 6A Euro Socket				
	The board shall be compatible with prepayment meters, knockouts for additional circuit breakers and/or auxiliary products as well as 15 access points for conduit or twin and earth wire.				
	Switches (light and socket outlets) shall have a glow-in-dark fluorescent insert.				
	The unit shall comply with national specifications.				
	The unit shall be as per CBI or equal approved.				
C 186	Readyboard NRBCON003 with CFL version including 18W lamp	No	1		
	ELECTRONIC TIMER SWITCHES				
	Supply, deliver and install electronic timer switches into existing or new distribution boards.				
	The programmable time switch to be suitable for use to automatically control pool pumps, lights, geysers, etc.				
	The unit shall have a LCD touch screen allow simple settings of time and programs, multiple on/off programs, 15min segments, graphical display on home screen of 24hr display, dual mount, backup reserve power for 12hr display and 24hr timekeeping and a bypass capability.				
	The unit shall be as per CBI or equal approved.				
C 187	QAT-TRDM	No	1		
	PHOTO ELECTRONIC CONTROLS				
	Supply, deliver and install photo electronic sensors on sites to control lighting and/or power circuits.				
	The unit shall have a rating of 250V , 50Hz, 1800VA, IP65, thermal switching, plug in Nema twist lock type, nema base				
C 188	Royce Thompson: V1SSWDAYLITE/P3HDI	No	1		
C 189	National: NS416: Code: V1SSWD/LITENS416	No	1		
C 190	National: NS116: Code: V1SSWD/LITENS116	No	1		
	Carried to Collection Page				

Item	Description	Unit	Qty	Rate	Total
	ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 3 OF 20 <u>COLLECTION</u> CIRCUIT BREAKERS, SWITCHGEAR, DISTRIBUTION BOARD & ASSOCIATED EQUIPMENT Page 39 Page 76 Page 114 Page 152 Page 201 Page 233 Page 275 Page 311 Page 344 Page 393 Page 442				
	TOTAL CARRIED TO BILL SUMMARY Page				

	Item	Description	Unit	Qty	Rate	Amount
D		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 4 OF 20 CABLE TRENCHING EXCAVATIONS: TRENCHING & BACKFILLING All prices below shall include the excavation of trenches and holes, separating of stones, ground and rock, leveling of trench bed, refill compacting and reparation of all surfaces to their original finish. Trenching shall be calculated using the formula below: (1m ³ = a trench of 600mm deep * 420mm wide * 4m length) (1m ³ = 4m linear of trenching)				
D	1	Excavate and backfilling in soft ground(pickable material)	m ³	1		
D	2	Excavate and backfilling in soft rock	m ³	1		
D	3	Excavate and backfilling in hard rock	m ³	1		
D	4	Excavating for cable road crossing and placing 4 x 110mm sleeves across road way.	m ³	1		
D	5	Backfilling road crossing and reinstating road surface and compaction as before.	m ³	1		
D	6	Provide sand or stone-free ground complete with handling cost	m ³	1		
D	7	Compaction of all electrical and telecoms sleeve trenches under hardended surfaces to 95% MOD AASHTO	m ³	1		
D	8	Remove all waste material complete with handling cost	m ³	1		
D	9	CABLE MARKERS Electrical reinforced concrete cable route marker with inscription as per engineers detail. Dimension: Height: 265mm, Depth: 750mm, Weight: 19.5kg	No	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 4 OF 20 COLLECTION CABLE TRENCHING Page 38 Page 75				
		CABLE TRENCHING				
		TOTAL CARRIED TO BILL SUMMARY Page				

	Item	Description	Unit	Qty	Rate	Amount
E		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 5 OF 20 CABLE RETICULATION LOW VOLTAGE CABLING Supply, deliver and install low voltage(600/1000V), PVC insulated, PVC bedded SWA, PVC sheathed, ECC stranded copper conductor cables. Checking of cable and overhead conductor lengths. The Contractor shall check such lengths on site before ordering the cable as he will not be paid for excess cable after the completion of the service. Any allowance for off-cuts shall be made in the unit rates. The final measurements shall be based on the net route length of cables and overhead lines concerned, installed in accordance with the requirements. However, the onus is on the Contractor to prove compliance with the specification. The cabling shall be installed either in excavations, cable trays, trunking, wireways, ground, sleeves, ducts, etc(measured elsewhere) and shall include all necessary fittings, fixtures and accessories required for the works. The cables shall be as per Abedare Cables or equal approved.				
E	1	1.5mm ²	m	1		
E	2	2.5mm ²	m	1		
E	3	4mm ²	m	1		
E	4	6mm ²	m	1		
E	5	10mm ²	m	1		
E	6	16mm ²	m	1		
E	7	25mm ²	m	1		
		THREE CORE				
E	8	1.5mm ²	m	1		
E	9	2.5mm ²	m	1		
E	10	4mm ²	m	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
E	11	6mm ²	m	1		
E	12	10mm ²	m	1		
E	13	16mm ²	m	1		
E	14	25mm ²	m	1		
		AIRDAC: THREE CORE				
E	15	10mm ²	m	1		
E	16	16mm ²	m	1		
		FOUR CORE				
E	17	1.5mm ²	m	1		
E	18	2.5mm ²	m	1		
E	19	4mm ²	m	1		
E	20	6mm ²	m	1		
E	21	10mm ²	m	1		
E	22	16mm ²	m	1		
E	23	25mm ²	m	1		
E	24	35mm ²	m	1		
E	25	50mm ²	m	1		
E	26	70mm ²	m	1		
E	27	95mm ²	m	1		
E	28	120mm ²	m	1		
E	29	150mm ²	m	1		
E	30	185mm ²	m	1		
		LOW VOLTAGE CABLE TERMINATIONS				
		Supply, deliver and install low voltage(600/1000V), PVC insulated, PVC bedded SWA, PVC sheathed, ECC stranded copper conductor cable terminations.				
		The terminations shall be for the referred cables specified and shall include for all shrouds, glands, lugs, connections, fittings, fixtures and accessories for the terminations in terms of the relevant SANS guidelines.				
		TWO CORE				
E	31	1.5mm ²	No	1		
E	32	2.5mm ²	No	1		
E	33	4mm ²	No	1		
E	34	6mm ²	No	1		
E	35	10mm ²	No	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
E	36	16mm ²	No	1		
E	37	25mm ²	No	1		
		THREE CORE				
E	38	1.5mm ²	No	1		
E	39	2.5mm ²	No	1		
E	40	4mm ²	No	1		
E	41	6mm ²	No	1		
E	42	10mm ²	No	1		
E	43	16mm ²	No	1		
E	44	25mm ²	No	1		
		AIRDAC: THREE CORE				
E	45	10mm ²	No	1		
E	46	16mm ²	No	1		
		FOUR CORE				
E	47	1.5mm ²	No	1		
E	48	2.5mm ²	No	1		
E	49	4mm ²	No	1		
E	50	6mm ²	No	1		
E	51	10mm ²	No	1		
E	52	16mm ²	No	1		
E	53	25mm ²	No	1		
E	54	35mm ²	No	1		
E	55	50mm ²	No	1		
E	56	70mm ²	No	1		
E	57	95mm ²	No	1		
E	58	120mm ²	No	1		
E	59	150mm ²	No	1		
E	60	185mm ²	No	1		
		Aerial Bundle Conductor (ABC) Cable				
		Supply, deliver and install low voltage (600/1000V), XLPE insulated, self supporting copper conductor cable.				
		The terminations shall be for the referred cables specified and shall include for all shrouds, glands, lugs, connections, fittings, fixtures and accessories for the terminations in terms of SANS 1418 part 1 and part 2				
		The cables shall be as per Abedare Cables or equal approved.				
E	61	25mm ²	m	1		
E	62	35mm ²	m	1		
E	63	50mm ²	m	1		
E	64	70mm ²	m	1		
E	65	95mm ²	m	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
		LOW VOLTAGE CABLE JOINT KITS Supply, deliver and install epoxy resin joint kits for low voltage (600/1000V) copper insulated, PVC bedded SWA, PVC sheathed, ECC stranded copper conductor cables. The cable joint kits shall be complete with all necessary fittings, fixtures and accessories required for the works. The cable kit shall be IEC/SANS approved. The cable kit shall be as per 3M Scotchcast or equal approved SIZES				
E	66	4mm ² to 10mm ²	No	1		
E	67	10mm ² to 16mm ²	No	1		
E	68	16mm ² to 35mm ²	No	1		
E	69	35mm ² to 50mm ²	No	1		
E	70	50mm ² to 95mm ²	No	1		
E	71	120mm ² to 150mm ²	No	1		
E	72	150mm ² to 240mm ²	No	1		
		JUNCTION BOXES: NORMAL APPLICATIONS Supply, deliver and install junction boxes:normal applications for low voltage(600/1000V), PVC/SWA/PVC copper cables. The junction boxes shall be complete with all necessary, fittings, fixtures, compression glands, connectors, clamps, blanking plugs, accessories, etc to complete the works. The junction boxes shall be as Pratley or equal approved.				
E	73	Enviro Junction box - Rectangular standard hinged cover	No	1		
E	74	Bottom entry Junction box - standard - for armoured or unarmoured cable. Size 1 - Polycarbonate lid	No	1		
E	75	Bottom entry Junction box - standard - for armoured or unarmoured cable. Size 2 - Polycarbonate lid	No	1		
E	76	Encono Junction box - No 1	No	1		
E	77	Eeze fit - Instrumentation - Junction Box - 0 - standard for unarmoured cable. Polycarbonate lid	No	1		
E	78	Klik-Lok Junction Box (Standard) - for unarmoured or armoured cable. Polycarbonate lid	No	1		
E	79	Zed Junction box - No 0	No	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Total
		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 5 OF 20 COLLECTION CABLE RETICULATION Page 40 Page 83 Page 135 Page 179 Page 221				
		TOTAL CARRIED TO BILL SUMMARY Page				

	Item	Description	Unit	Qty	Rate	Amount
		ELECTRICAL WORKS				
		BILL OF QUANTITIES: BILL NO 6 OF 19				
		WIREWAYS & ACCESSORIES				
F		PVC CONDUIT				
		The supply and installation of PVC conduit, prices to include for couplings, saddles, adaptors, spacers, lids, conduit boxes and all bending, gluing and other necessary material.				
		The conduit shall be installed in concrete, walls, ground, brickwork, roof spaces, against trusses, etc and shall include for all against trusses, etc and shall include for all necessary fittings, fixtures and accessories to complete the installation.				
		The conduit shall comply to SANS 950.				
		Chased into brickwork				
F	1	20mm diameter	m	1		
F	2	25mm diameter	m	1		
F	3	32mm diameter	m	1		
F	4	50mm diameter	m	1		
		Chased into concrete				
F	5	20mm diameter	m	1		
F	6	25mm diameter	m	1		
F	7	32mm diameter	m	1		
F	8	50mm diameter	m	1		
		Cast into concrete				
F	9	20mm diameter	m	1		
F	10	25mm diameter	m	1		
F	11	32mm diameter	m	1		
F	12	50mm diameter	m	1		
F	13	100mm diameter sleeve	m	1		
		Fixed on surface				
F	14	20mm diameter	m	1		
F	15	25mm diameter	m	1		
F	16	32mm diameter	m	1		
F	17	50mm diameter	m	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
		FLEXIBLE CONDUIT The supply and installation of flexible conduit accessories for PVC and galvanised steel conduit(Bosal). The flexible conduit shall be complete with all necessary connectors, fittings, fixtures and accessories required for the complete works. The flexible conduit shall comply to SANS 950, SANS 1065				
		PVC: FLEXIBLE CONDUIT (SPRAGUE)				
F	30	20mm diameter	m	1		
F	31	25mm diameter	m	1		
F	32	32mm diameter	m	1		
F	33	50mm diameter	m	1		
F	34	75mm diameter	m	1		
		GALVANISED STEEL: FLEXIBLE CONDUIT (SPRAGUE)				
F	35	20mm diameter	m	1		
F	36	25mm diameter	m	1		
F	37	32mm diameter	m	1		
F	38	50mm diameter	m	1		
F	39	75mm diameter	m	1		
		GENERAL The conduit accessories listed below shall be utilised for existing installations. It shall be complete with all necessary screws, fittings, fixtures and accessories to complete the works.				
		PVC SADDLES				
F	40	20mm diameter	No	1		
F	41	25mm diameter	No	1		
F	42	32mm diameter	No	1		
F	43	50mm diameter	No	1		
		PVC HOSPITAL SADDLES				
F	44	20mm diameter	No	1		
F	45	25mm diameter	No	1		
F	46	32mm diameter	No	1		
F	47	50mm diameter	No	1		
		BOSAL SADDLES				
F	48	20mm diameter	No	1		
F	49	25mm diameter	No	1		
F	50	32mm diameter	No	1		
F	51	40mm diameter	No	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
		BOSAL HOSPITAL SADDLES				
F	52	20mm diameter	No	1		
F	53	25mm diameter	No	1		
F	54	32mm diameter	No	1		
F	55	50mm diameter	No	1		
		PVC COUPLINGS				
F	56	20mm diameter	No	1		
F	57	25mm diameter	No	1		
F	58	32mm diameter	No	1		
F	59	50mm diameter	No	1		
		BOSAL COUPLINGS				
F	60	20mm diameter	No	1		
F	61	25mm diameter	No	1		
F	62	32mm diameter	No	1		
F	63	50mm diameter	No	1		
		TRUNKING & WIRING DUCT				
		PVC TRUNKING				
		Supply and install PVC compact mini trunking complete with cover plates, tees, angles(internal, external and flat), bends, end caps and all necessary fittings fixtures and accessories required to complete the works.				
		The trunking shall be installed surface on brickwork, slab, concrete, walls, ceilings, etc as required.				
		The trunking shall be as Cabstrut or equal approved.				
F	64	YT/1: 16mm x 16mm	m	1		
F	65	YT/2: 25mm x 16mm	m	1		
F	66	YT/2.5: 25mm x 25mm	m	1		
F	67	YT/3: 40mm x 16mm	m	1		
F	68	YT/4: 40mm x 25mm	m	1		
F	69	YT/5: 40mm x 40mm	m	1		
F	70	NBT/4: 100mm x 40mm	m	1		
		Carried to Collection Page				

	Item	Description				Total
		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 6 OF 20 COLLECTION PAGE WIREWAYS & ACCESSORIES Page 40 Page 83 Page 127 Page 164 Page 200				
		WIREWAYS & ACCESSORIES				
		TOTAL CARRIED TO BILL SUMMARY Page				

	Item	Description	Unit	Qty	Rate	Amount
		ELECTRICAL WORKS				
		BILL OF QUANTITIES: BILL NO 7 OF 20				
		WIRING & CONDUCTORS				
		All cable and conductor wiring rates shall include for off cuts, slack, wastage, etc. The cost shall include all consumables. The measurements shall be taken from point to point.				
		LOW VOLTAGE CONDUCTORS				
		HOUSEWIRE				
		Supply, deliver, install and terminate low voltage(600/1000V), PVC insulated, stranded copper conductors drawn into wireways, trunking, conduits, etc. Wiring channels measured elsewhere. The conductor shall be a low friction single core general purpose cable. The cable shall be manufactured to SANS 1507-2. The cables shall be as per Slipdac housewire, Abedare Cables or equal approved.				
G	1	1.5mm ²	m	1		
G	2	2.5mm ²	m	1		
G	3	4mm ²	m	1		
G	4	6mm ²	m	1		
G	5	10mm ²	m	1		
G	6	16mm ²	m	1		
		SURFIX				
		Supply, deliver, install and terminate low voltage(300/500V), PVC insulated, stranded copper conductors laid up with a bare tinned copper earth wire in contact with a longitudinal aluminium/polyethylene laminate, UV stable PVC sheathed to SANS 1411-2, specification SANS 1507-2. The cables shall be as per Surfix, Abedare Cables or equal approved only.				
		TWO CORE				
G	7	1.5mm ²	m	1		
G	8	2.5mm ²	m	1		
G	9	4mm ²	m	1		
G	10	6mm ²	m	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Total
G	11	10mm ²	m	1		
G	12	16mm ²	m	1		
		THREE CORE				
G	13	1.5mm ²	m	1		
G	14	2.5mm ²	m	1		
G	15	4mm ²	m	1		
G	16	6mm ²	m	1		
		FOUR CORE				
G	17	1.5mm ²	m	1		
G	18	2.5mm ²	m	1		
G	19	4mm ²	m	1		
G	20	6mm ²	m	1		
		FLAT TWIN & EARTH				
		Supply, deliver, install and terminate low voltage(300/500V), PVC insulated, stranded copper conductors laid up with a bare copper continuity conductor between them, PVC sheathed to SANS 1411-2. Specification SANS 1574				
		The cables shall be as per Flat Twin and Earth, Abedare Cables or equal approved.				
		TWO CORE				
G	21	1.5mm ²	m	1		
G	22	2.5mm ²	m	1		
G	23	4mm ²	m	1		
G	24	6mm ²	m	1		
G	25	10mm ²	m	1		
G	26	16mm ²	m	1		
		THREE CORE				
G	27	1.5mm ²	m	1		
G	28	2.5mm ²	m	1		
G	29	4mm ²	m	1		
		FOUR CORE				
G	30	1.5mm ²	m	1		
G	31	2.5mm ²	m	1		
G	32	4mm ²	m	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Total
		CABTYRE - NORMAL DUTY Supply, deliver, install and terminate low voltage(300/500V), normal duty, PVC insulated, high conductivity bunched plain flexible copper conductors to SANS 1411. Cores to be twisted together and sheathed with a flexible grade PVC. The cables shall be as per Cabtyre- normal duty, Abedare Cables or equal approved.				
		THREE CORE				
G	33	1.5mm ²	m	1		
G	34	2.5mm ²	m	1		
G	35	4mm ²	m	1		
		FOUR CORE				
G	36	1.5mm ²	m	1		
G	37	2.5mm ²	m	1		
G	38	4mm ²	m	1		
		PVC INSULATED MVGP GRADE CONDUCTORS Supply, deliver, install and terminate PVC insulated MVGP grade conductor. The conductor shall be as per Abedare or equal approved.				
G	39	1.5mm ²	m	1		
G	40	2.5mm ²	m	1		
G	41	4mm ²	m	1		
G	42	6mm ²	m	1		
G	43	10mm ²	m	1		
G	44	16mm ²	m	1		
		Carried to Collection Page				

	Item	Description				
		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 7 OF 20 COLLECTION WIRING & CONDUCTORS Page 40 Page 81 Page 115				
		WIRING & CONDUCTORS				
		TOTAL CARRIED TO BILL SUMMARY Page				

	Item	Description	Unit	Qty	Rate	Amount
H		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 8 OF 20 LUMINAIRES The supply, delivery and installation of luminaires, complete with electronic control gear and ballasts, lamps, fittings, fixtures and accessories. The luminaires shall be delivered to site in a protective cover. The lamps shall be delivered to site separately in a protective cover with the exception of the IP65 fittings which will be delivered pre lamped by the supplier/manufacturer. All lamps to be Colour rendering index Ra ≥80, 3000K, Osram The luminaires shall bear the SANS safety mark. The luminaires shall be fitted and wired in terms of the SANS 10142: Wiring Code Latest Revision The luminaires shall be suitable for operation at 250V, 50Hz. The luminaires shall be mounted surface, suspended, recessed, semi recessed where applicable to walls, ceilings, roofs, poles, etc. The luminaires shall be as per the specified brand or other approved only. All LED Luminaires shall not be less than LM97 B50 type with a minimum of 50 000 hours life and 5 year warranty. The LED luminaires shall be SABS approved and shall have an internal surge protection unit. An outdoor luminaire shall be UV stabilised. BULKHEADS: INDUSTRIAL & SEMI INDUSTRIAL APPLICATIONS IP65 The luminaires shall be as per Lascon or equal approved				
H	1	B40-57W - LED bulkhead	No	1		
H	2	B40-80W - MVE- Mercury Vapour bulkhead	No	1		
H	3	B40-70W - HPSE- High Pressure Sodium bulkhead	No	1		
H	4	B40-100W - HPSE- High Pressure Sodium bulkhead	No	1		
H	5	B40-150W - HPSE- High Pressure Sodium bulkhead	No	1		
H	6	B40-70W - MH- Metal Halide bulkhead	No	1		
H	7	B40-100W - MH- Metal Halide bulkhead	No	1		
H	8	B40-150W - MH- Metal Halide bulkhead	No	1		
H	9	B40-242W - ELB - 2x42W Fluorescent bulkhead	No	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
		BULKHEADS: DECORATIVE: ROUND & DOME INDUSTRIAL & SEMI INDUSTRIAL APPLICATIONS IP65 , 230 mm diameter, Colour: Black The luminaires shall be as per Lascon or equal approved Round: B10 -10W - LED Round: B10 - ES - 18W Energy saver lamp Dome: B10 - 10W - LED Dome: B10 - ES - 18W Energy saver lamp B10 - Decorative skirt DECORATIVE: SQUARE INDUSTRIAL & SEMI INDUSTRIAL APPLICATIONS IP65 , 205 mm width, Colour: Black The luminaires shall be as per Lascon or equal approved Round: B20 -10W - LED Round: B20 - ES - 18W Energy saver lamp B20 - Decorative skirt				
H	10	Round: B10 -10W - LED	No	1		
H	11	Round: B10 - ES - 18W Energy saver lamp	No	1		
H	12	Dome: B10 - 10W - LED	No	1		
H	13	Dome: B10 - ES - 18W Energy saver lamp	No	1		
H	14	B10 - Decorative skirt	No	1		
		BULKHEADS: GENERAL: DECORATIVE IP65 The luminaires shall be as per Lascon or equal approved CFL Rimini: 218-ELB-DOME- 355mm dia White or Black LED Rimini: 17.5-LED-DOME- 355mm dia White or Black CFL Milano: 218-ELB-DOME- 270mm dia White or Black LED Milano: 17.5-LED-DOME- 355mm dia White or Black CFL Roma: 218-ELB-DOME- 266mm dia White or Black LED Roma: 17.5-LED-DOME- 266mm dia White or Black				
H	18	Rimini: 218-ELB-DOME- 355mm dia White or Black	No	1		
H	19	Rimini: 17.5-LED-DOME- 355mm dia White or Black	No	1		
H	20	Milano: 218-ELB-DOME- 270mm dia White or Black	No	1		
H	21	Milano: 17.5-LED-DOME- 355mm dia White or Black	No	1		
H	22	Roma: 218-ELB-DOME- 266mm dia White or Black	No	1		
H	23	Roma: 17.5-LED-DOME- 266mm dia White or Black	No	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
		BULKHEADS:				
		COMMERCIAL: ROUND: ALUMINIUM BASE, UV STABILISED POLYCARBONATE DIFFUSER, IP65 INDOOR & OUTDOOR APPLICATION 295mm DIAMETER				
		The luminaires shall be as per Swanlite or equal approved				
H	24	ILM/MAS/SOL/2PL9 - Black or White	No	1		
H	25	ILM/MAS/SOL/1PL18 - Black or White	No	1		
H	26	ILM/MAS/SOL/LED/ - Black or White	No	1		
		COMMERCIAL: ROUND: ALUMINIUM BASE, UV STABILISED OPAL OR PRISMATIC, FLAT OR DOMED DIFFUSER: CLIENT TO SELECT INDOOR & OUTDOOR APPLICATION 360mm DIAMETER				
		The luminaires shall be as per Swanlite or equal approved				
H	27	MAS/LLB/2D16/AL - Black or White Trim	No	1		
H	28	MAS/LLB/2D28/AL - Black or White Trim	No	1		
H	29	MAS/LLB/2PL18/AL - Black or White Trim	No	1		
H	30	MAS/LLB/LED/AL - Black or White Trim	No	1		
		COMMERCIAL: ROUND: ALUMINIUM BASE, UV STABILISED OPAL DIFFUSER INDOOR & OUTDOOR APPLICATION 280mm DIAMETER				
		The luminaires shall be as per Beka or equal approved				
H	31	Series 30: 31007/15W LED - Black or White Trim	No	1		
H	32	Series 30: 31116/2D16W - Black or White Trim	No	1		
H	33	Series 30: 31118/1PL18W CFL - Black or White Trim	No	1		
H	34	Series 30: 31209/2PL9W CFL - Black or White Trim	No	1		
H	35	Series 30: 31218/2PL18W CFL - Black or White Trim	No	1		
		BULKHEAD ACCESSORIES				
H	36	Adaptor Ring for surface wiring per bulkhead	Item	1		
		PORCELAIN BOWL FITTING				
		The luminaires shall be as per Radiant or equal approved and fitted with Osram or equal approved lamp				
H	37	6" Opal, porcelain bowl, screw neck, complete with gallery and porcelain lampholder and 15W ES, stick lamp.	No	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
H	38	8" Opal, porcelain bowl, screw neck, complete with gallery and porcelain lampholder and 15W ES, stick lamp. OPEN CHANNEL LUMINAIRES: CHANNELS & BATTENS DOMESTIC & COMMERCIAL APPLICATIONS BODY: COLD MILD ROLLED STEEL WITH EPOXY POWDER COATED FINISH, IP20 SURFACE/SUSPENDED MOUNTED CHANNELS The luminaires shall be as per Lascon or equal approved T5 4 FOOT (1180mm length):	No	1		
H	39	Channel/228/ELB: 2x28W	No	1		
H	40	Channel/254/ELB: 2x54W ACCESSORIES WIRE GUARD	No	1		
H	41	4ft Galvanised steel wire as per for above fittings INDUSTRIAL WING	Item	1		
H	42	4ft mild steel, B-Focal wing attachment as per for above fittings SEAMLESS BATTEN The luminaires shall be as per Lascon or equal approved T5 4 FOOT (1180mm length):	Item	1		
H	43	Seamless Batten/154/ELB: 1x54W BATTEN T5 2 FOOT (680mm length):	No	1		
H	44	Batten/124/ELB: 1x24W 4 FOOT (1180mm length):	No	1		
H	45	Batten/128/ELB: 1x28W	No	1		
H	46	Batten/154/ELB: 1x54W 5 FOOT (1480mm length):	No	1		
H	47	Batten/149/ELB: 1x35W				
H	48	Batten/149/ELB: 1x49W	No	1		
H	49	Batten/180/ELB: 1x80W	No	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
		VAPOUR & TAMPERPROOF LUMINAIRES: COMMERCIAL & INDUSTRIAL APPLICATIONS BODY: GREY INJECTION MOULDED UV STABILISED SELF EXTINGUISHING POLYCARBONATE. DIFFUSER: ONE PIECE INJECTION MOULDED UV SELF EXTINGUISHING POLYCARBONATE. LINEAR LIGHT CONTROL PRISMS ON THE INSIDE SURFACE/SUSPENDED MOUNTED, IP65 The luminaires shall be as per Lascon or equal approved 4 FOOT (1225mm length): T5: 16mm: ROTA-LOCK LAMP HOLDERS				
H	62	C10: 228-ELB: 2x28W	No	1		
H	63	C10: 228-ELB: 2x54W	No	1		
		LED				
H	64	C10: 27W-LED	No	1		
H	65	C10: 37W-LED	No	1		
		5 FOOT (1570mm length): T5: 16mm: ROTA-LOCK LAMP HOLDERS				
H	64	C10: 235-ELB: 2x35W	No	1		
H	65	C10: 249-ELB: 2x49W	No	1		
		DECORATIVE COMMERCIAL LUMINAIRES COMMERCIAL APPLICATIONS BODY: COLD MILD ROLLED STEEL WITH EPOXY POWDER COATED FINISH, IP20 LOUVRE: ONE PIECE, 1520G3 ANTI-IRIDESCENT MATT ALUMINIUM SURFACE/SUSPENDED MOUNTED LOW LEVEL BRIGHTNESS The luminaires shall be as per Lascon or equal approved 4 FOOT (1229mm length): T5: 16mm: ROTA-LOCK LAMP HOLDERS				
H	66	M95N-228-ELB: 2x28W LLB	No	1		
H	67	M95N-254-ELB: 2x54W LLB	No	1		
		Carried to Collection Page				

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	Item	Description	Unit	Qty	Rate	Amount
		4 FOOT (1200mm length):				
H	91	Honeycomb: 1200 x 300, 40W, 4000 lm	No	1		
H	92	Honeycomb: 1200 x 300, 54W, 5400 lm	No	1		
H	93	Honeycomb: 1200 x 600, 50W, 5000 lm	No	1		
H	94	Honeycomb: 1200 x 600, 60W, 6000 lm	No	1		
H	95	Honeycomb: 1200 x 600, 72W, 7200 lm	No	1		
		5 FOOT (1500mm length):				
H	96	Honeycomb: 1500 x 500, 60W, 6000 lm	No	1		
H	97	Honeycomb: 1500 x 500, 72W, 7200 lm	No	1		
		SURFACE/SUSPENDED MOUNTED				
		2 FOOT (600mm length):				
H	98	Honeycomb: 600 x 600, 30W, 3000 lm	No	1		
H	99	Honeycomb: 600 x 600, 40W, 4000 lm	No	1		
H	100	Honeycomb: 600 x 600, 48W, 5000 lm	No	1		
		4 FOOT (1200mm length):				
H	101	Honeycomb: 1200 x 300, 40W, 4000 lm	No	1		
H	102	Honeycomb: 1200 x 300, 54W, 5400 lm	No	1		
H	103	Honeycomb: 1200 x 600, 50W, 5000 lm	No	1		
H	104	Honeycomb: 1200 x 600, 60W, 6000 lm	No	1		
H	105	Honeycomb: 1200 x 600, 72W, 7200 lm	No	1		
		5 FOOT (1500mm length):				
H	106	Honeycomb: 1500 x 500, 60W, 6000 lm	No	1		
H	107	Honeycomb: 1500 x 500, 72W, 7200 lm	No	1		
		HIGHBAY, LOWBAY & CANOPY				
		WAREHOUSE, INDUSTRIAL & FACTORY APPLICATIONS				
		HIGH/LOW BAY				
		Type: Surface or recessed type.				
		Louvre: High performance MIR04 silver louvre				
		Beam: Narrow				
		Body: Rolled mild steel body and a structured silver epoxy powder coated finish. Complete with 3m cabtyre and 5A plugtop. IP 20.				
		The luminaire shall be as per Lascon or equal approved				
		TS				
		4 FOOT (1195mm length):				
H	108	S-BAY-454-ELB	No	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
		5 FOOT (1495mm length):				
H	109	S-BAY-480-ELB	No	1		
		DIFFUSER				
H	110	Clear Diffuser for 4ft, T5 fittings as above	No	1		
H	111	Clear Diffuser for 5ft, T5 fittings as above	No	1		
		LED				
		4 FOOT (1195mm length):				
H	112	S-BAY-111-LED complete with diffuser	No	1		
H	113	S-BAY-148-LED complete with diffuser	No	1		
		HIGHBAY, LOWBAY & CANOPY				
		WAREHOUSE, INDUSTRIAL & FACTORY APPLICATIONS				
		HIGH/LOW BAY				
		Type: Surface.				
		Diffuser: UV stabilised, self-extinguishing polycarbonate				
		Beam: Narrow				
		Body: Glass reinforced polyester (GRP), IP 65, MIRO 4 Reflector.				
		Stainless steel latches, complete with mounting brackets				
		The luminaire shall be as per Lascon or equal approved				
		T5				
		4 FOOT (1330mm length):				
H	114	C-BAY-454-ELB	No	1		
		LED				
H	115	C-BAY-74-LED (80W) complete with diffuser	No	1		
H	116	C-BAY-111-LED (120W) complete with diffuser	No	1		
H	117	C-BAY-148-LED (160W) complete with diffuser	No	1		
		CANOPY				
		Type: Surface or recessed type.				
		Louvre: High performance MIR04 silver louvre				
		Beam: Narrow				
		Body: LM6 marine grade aluminium, chemically treated & epoxy coated.				
		Diffuser: Opal polycarbonate diffuser				
		Complete with 3m cable and 5A plugtop				
		IP 65				
		LED				
H	118	CAN-33W-LED (530x280mm)	No	1		
H	119	CAN-67W-LED (530x280mm)	No	1		
		FLOODLIGHTS				
		GENERAL & AREA LIGHTING				
		All floodlights to be complete with all lamps, mounting brackets, fittings, fixtures and accessories required for the works.				
		The fittings(HID) shall have separate control gear housing.				
		All luminaires to be SANS approved.				
		HIGH INTENSITY DISCHARGE				
		The luminaire shall be as per Genlux or equal approved.				
H	120	Solar floodlight: Metal Halide 1000W	No	1		
H	121	Solar floodlight: HPS 1000W	No	1		
H	122	Anthea floodlight: Metal Halide 50W, Wide Beam	No	1		
H	123	Anthea floodlight: Metal Halide 100W, Wide Beam	No	1		
H	124	Anthea floodlight: Metal Halide 150W, Wide Beam	No	1		
H	125	Anthea floodlight: Mercury Vapour 80W, Wide Beam	No	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Total
H	126	Anthea floodlight: Mercury Vapour 125W, Wide Beam	No	1		
H	127	Anthea floodlight: High Pressure Sodium 70W, Wide Beam	No	1		
H	128	Anthea floodlight: High Pressure Sodium 100W, Wide B	No	1		
H	129	Anthea floodlight: High Pressure Sodium 125W, Wide B	No	1		
H	130	Anthea floodlight: High Pressure Sodium 150W, Wide B CFL	No	1		
H	131	Anthea floodlight: CFL 2x18W, Wide Beam	No	1		
H	132	Anthea floodlight: CFL 2x26W, Wide Beam HIGH INTENSITY DISCHARGE	No	1		
H	133	Odyssey floodlight: MH 250W, Wide Beam	No	1		
H	134	Odyssey floodlight: MH 400W, Wide Beam	No	1		
H	135	Odyssey floodlight: MV 250W, Wide Beam	No	1		
H	136	Odyssey floodlight: HPS 150W, Wide Beam	No	1		
H	137	Odyssey floodlight: HPS 250W, Wide Beam	No	1		
H	138	Odyssey floodlight: HPS 400W, Wide Beam	No	1		
H	139	Odyssey floodlight: HPS 600W, Wide Beam LED	No	1		
		The luminaire shall be as per Lascon or equal approved.				
H	140	L18-218W-LED	No	1		
H	141	Pescara-33 W-LED black	No	1		
H	142	Pescara-67W-LED black	No	1		
H	143	Genoa-35W-LED black DOWNLIGHTERS RECESSED TYPE APPLICATION: GENERAL AREAS, OFFICE, CONFERENCE ROOMS & CORRIDORS ALL DOWNLIGHTERS TO BE COMPLETE WITH 5A PLUGTOP & 3m CABTYRE The luminaire shall be as per Lascon or equal approved. CFL TYPE FUTURA 1: DIMENSION: 210mm dia x 170mm height	No	1		
H	144	FUT1 - 113 - ELB, 1x13W	No	1		
H	145	FUT1 - 118 - ELB, 1x18W ACCESSORIES	No	1		
H	146	Decorative Flush glass accessory for the above fitting	No	1		
H	147	Decorative dropped glass accessory for the above fitting	No	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Total
		FUTURA 2: DIMENSION: 240mm dia x 170mm height				
H	148	FUT2 - 218 - ELB, 2x18W	No	1		
H	149	FUT2 - 226 - ELB, 2x26W	No	1		
		ACCESSORIES				
H	150	Decorative Flush glass accessory for the above fitting	No	1		
H	151	Decorative dropped glass accessory for the above fitting	No	1		
		FUTURA 3: DIMENSION: 240mm dia x 170mm height				
H	152	FUT3 - 213 - ELB, 2x13W complete with flush glass	No	1		
H	153	FUT3 - 218 - ELB, 2x18W complete with flush glass	No	1		
		HIGH INTENSITY DISCHARGE LAMP				
		FUTURA 4: DIMENSION: 240mm dia x 170mm height				
H	154	FUT4 - 70 - ELB, 1x70W complete with flush glass	No	1		
		FUTURA 5: DIMENSION: 174mm dia x 162mm height				
H	155	FUT5 - 35 - ELB, 1x35W complete with flush glass	No	1		
H	156	FUT5 - 70 - ELB, 1x70W complete with flush glass	No	1		
		LED				
		FUTURA 6: DIMENSION: 46mm dia x 16.5mm height				
H	157	FUT6 - 1W - LED complete with silver trim	No	1		
H	158	FUT6 - 3W - LED complete with silver trim	No	1		
		FUTURA 7: DIMENSION: 68mm dia x 64mm height				
H	159	FUT7-10.5W- LED-830 complete with silver trim	No	1		
H	160	FUT7-10.5W- LED-840 complete with silver trim	No	1		
		FUTURA 8: DIMENSION: 95mm dia x 87mm height				
H	161	FUT8-10.5W- LED-830 complete with silver trim	No	1		
H	162	FUT8-10.5W- LED-840 complete with silver trim	No	1		
		APPLICATION: COVER LIGHTING, RETAIL LIGHTING, STORAGE ROOMS, PARKING GARAGES The luminaires shall be as per Lascon or equal approved.				
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Total
		FUTURA 9: DIMENSION: 140mm dia x 120mm height				
H	163	FUT9-17W- LED complete with silver trim	No	1		
		FUTURA 10: DIMENSION: 190mm dia x 135mm height				
H	164	FUT9-23W- LED complete with silver trim	No	1		
H	165	FUT9-38W- LED complete with silver trim	No	1		
		EMERGENCY LIGHTING Emergency luminaires to be constructed from rolled mild steel body with a white epoxy coated finish and frosted prismatic diffuser. The luminaire shall have snap on injection moulded plastic end caps. The luminaire shall be of the maintained emergency type with 2.6hrs of emergency duration and 40% light output in emergency mode. The unit shall be complete with pictogram pack (1 x running man left, 1 x running man right, 1 x running down and 1 x EXIT pictogram) The luminaires shall be complete with all necessary fittings, fixtures and accessories required for the works. The luminaires shall be SABS approved. The luminaires shall be as per Lascon or equal approved				
H	166	LILI-1x8-ELB (L=420mm,W=208mm,H=77mm) complete with battery backup and pictogram pack The luminaire shall be constructed of a fibreglass frame, toughened glass lens, galvanised hanging bolts and electronic control gear. The luminaire shall be of the maintained emergency type with 2.6hrs of emergency duration and 40% light output in emergency mode. The unit shall be complete with pictogram pack (1 x running man left, 1 x running man right, 1 x running down and 1 x EXIT pictogram - Green on white) The luminaires shall be SABS approved.	No	1		
		Carried to Collection Page				

	Item	Description				
		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 8 OF 20 COLLECTION LUMINAIRES Page 44 Page 81 Page 119 Page 193 Page 233 Page 271 Page 309 Page 347 Page 400 Page 438 Page 476 Page 513 Page 549				
		LUMINAIRES:				
		TOTAL CARRIED TO BILL SUMMARY Page				

	Item	Description	Unit	Qty	Rate	Amount
		CFL SQUARE: 2D TYPE: 2 PIN				
		Square CFLni, with 2-pin base GR8 base for CCG operation				
I	55	Square, 16W	No	1		
I	56	Square, 28W	No	1		
		CFL SQUARE: 2D TYPE: 4 PIN				
		Square CFLni, with 4-pin base GR8 base for ECG/CCG operation				
I	57	Square, 16W	No	1		
I	58	Square, 28W	No	1		
I	59	Square, 38W	No	1		
		TUBULAR FLUORESCENT LAMPS				
		The lamps shall be rated 220-240V, 50Hz.				
		The lamps to be Colour rendering index Ra ≥80, and available in 2700K, 3500K, 4000K and 6500K.				
		The colour temperature shall be confirmed on site.				
		The lamps shall have an average life of 10000hrs.				
		The lamps shall be as per Osram or Philips or equal approved				
		T5				
		LUMILUX HE				
		Tubular fluorescent lamp 16mm, high efficiency, with GS base				
I	60	HE 14W	No	1		
I	61	HE 21W	No	1		
I	62	HE 28W	No	1		
I	63	HE 35W	No	1		
		LUMILUX HO				
		Tubular fluorescent lamp 16mm, high efficiency, with GS base				
I	64	HO 24W	No	1		
I	65	HO 39W	No	1		
I	66	HO 49W	No	1		
I	67	HO 54W	No	1		
I	68	HO 80W	No	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
I	86	PARATHOM MR 11 12V Low-voltage LED reflector lamps with retrofit plug base MR 11, 2.3W	No	1		
I	87	PARATHOM Advanced MR 11 12V Dimmable Low-voltage LED reflector lamps with retrofit plug base ADV MR 11, 3.1W	No	1		
I	88	PARATHOM Advanced PAR 20 Dimmable LED reflector lamps with retrofit screw base ADV PAR 20, 4.2W	No	1		
I	89	PARATHOM Advanced PAR 30 Dimmable LED reflector lamps with retrofit screw base ADV PAR 30, 6.7W	No	1		
I	90	PARATHOM CLASSIC A LED lamps, classic bulb shape Parathom CL A, 5W	No	1		
I	91	Parathom CL A, 8W	No	1		
I	92	Parathom CL A, 9W	No	1		
I	93	Parathom CL A, 23W	No	1		
I	94	PARATHOM ADVANCED CLASSIC A Dimmable LED lamps, classic bulb shape Parathom ADV CL A, 6W	No	1		
I	95	Parathom ADV CL A, 9W	No	1		
I	96	Parathom ADV CL A, 10W	No	1		
I	97	Parathom ADV CL A, 14.4W	No	1		
I	98	Parathom ADV CL A, 21W	No	1		
I	99	PARATHOM CLASSIC B LED lamps, classic mini-candle shape Parathom CL B, 3.3W	No	1		
I	100	Parathom CL B, 5.7W	No	1		
I	101	PARATHOM ADVANCED CLASSIC B Dimmable LED lamps, classic mini-candle shape Parathom ADV CL B, 6W	No	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
		LINEAR LED				
		SUBSTITUTE T8 VALUE EM				
		LED lamps, stick shaped, 27.5mm with G13 base				
		600mm				
I	102	ST8V, 8W	No	1		
		1200mm				
I	103	ST8V, 17W	No	1		
		1500mm				
I	104	ST8V, 20W	No	1		
		SUBSTITUTE T8 ADVANCED UNIVERSAL				
		LED lamps, stick shaped, 27mm with G13 base				
		1200mm				
I	105	ST8AU, XYW	No	1		
		1500mm				
I	106	ST8AU, XYW	No	1		
		HIGH INTENSITY DISCHARGE				
		MERCURY VAPOUR				
I	107	50W, MV	No	1		
I	108	80W, MV	No	1		
I	109	125W, MV	No	1		
I	110	250W, MV	No	1		
I	111	400W, MV	No	1		
		HIGH PRESSURE SODIUM				
		TUBULAR SINGLE SIDED				
I	112	50W	No	1		
I	113	70W	No	1		
I	114	100W	No	1		
I	115	150W	No	1		
I	116	250W	No	1		
I	117	400W	No	1		
I	118	1000W	No	1		
		ELLIPTICAL COATED SINGLE SIDED				
I	119	50W	No	1		
I	120	70W	No	1		
I	121	100W	No	1		
I	122	150W	No	1		
I	123	250W	No	1		
I	124	400W	No	1		
I	125	1000W	No	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Total
		METAL HALIDE				
		CERAMIC METAL HALIDE:				
		SINGLE ENDED TUBULAR (CLEAR): HCI-T				
I	126	35W	No	1		
I	127	70W	No	1		
I	128	100W	No	1		
I	129	150W	No	1		
		SINGLE ENDED TUBULAR (CLEAR): HCI-TC				
I	130	20W	No	1		
I	131	35W	No	1		
I	132	70W	No	1		
		SINGLE ENDED TUBULAR (CLEAR): HCI-TF				
I	133	20W	No	1		
I	134	35W	No	1		
		DOUBLE ENDED TUBULAR (CLEAR): HCI-TS				
I	135	70W	No	1		
I	136	150W	No	1		
I	137	250W	No	1		
		QUARTZ METAL HALIDE				
		SINGLE ENDED TUBULAR (CLEAR): HQI-T				
I	138	250W	No	1		
I	139	450W	No	1		
I	140	1000W	No	1		
		SINGLE ENDED ELLIPTICAL COATED: HQI-E				
I	141	70W	No	1		
I	142	100W	No	1		
I	143	150W	No	1		
I	144	250W	No	1		
I	145	400W	No	1		
		DOUBLE ENDED TUBULAR CLEAR: HQI-TS				
I	146	1000W	No	1		
I	147	2000W, short arc	No	1		
I	148	2000W, long arc	No	1		
I	149	To hire a Cherry picker to reach a minimum of 15m in height	per day	1		
I	150	To erect scaffolding to a minimum height of 10m	per day	1		
		T8 TL-D LOW-PRESSURE MERCURY DISCHARGE LAMPS				
		WITH A TUBULAR 26mm ENVELOPE, G13 CAP BASE				
I	151	18W - 6200K, Cool Daylight	No	1		
I	152	36W - 6200K, Cool Daylight	No	1		
I	153	56W - 6200K, Cool Daylight	No	1		
		T5 TL-D LOW-PRESSURE MERCURY DISCHARGE LAMPS				
		WITH A TUBULAR 26mm ENVELOPE, G13 CAP BASE				
I	154	18W - 6200K, Cool Daylight	No	1		
I	155	36W - 6200K, Cool Daylight	No	1		
I	156	56W - 6200K, Cool Daylight	No	1		
		Carried to Collection Page				

	Item	Description				
		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 9 OF 20 COLLECTION PAGE LAMPS Page 43 Page 84 Page 126 Page 167 Page 208 Page 250 Page 292 Page 351				
		TOTAL CARRIED TO BILL SUMMARY Page				

	Item	Description	Unit	Qty	Rate	Amount
		ELECTRICAL WORKS				
		BILL OF QUANTITIES: BILL NO 10 OF 20				
		LUMINAIRE ACCESSORIES				
J		LIGHT POLES				
		GALVANISED STEEL POLES:				
		Body: Galvanised steel				
		Mounting: Plinth Mounted or buried				
		Finish: Raw				
		Accessories: Access door complete with circuit breaker, gland plate, wiring, etc.				
		Features: Tapered reduction or a flat reduction				
		SANS: Manufactured from Grade S 355 steel in accordance5 to SANS 657/1&3. Hot Dipped galvanised in accordance to SANS 121				
		Colour: Matt Silver				
		All poles shall be complete with all necessary fittings, fixtures and accessories required for the works.				
		All poles are to be in accordance to the Ethekwini Municipality specification				
		The poles shall be as per Regent Lighting or equal approved.				
		STRAIGHT POLE				
J	1	Straight, 6m TL	No	1		
		STEPPED 1 REDUCTION				
J	2	Stepped 1, 6m TL	No	1		
J	3	Stepped 1, 8m TL	No	1		
J	4	Stepped 1, 9.2m TL	No	1		
		STEPPED 2 REDUCTION				
J	5	Stepped 2, 8.2m TL	No	1		
J	6	Stepped 2, 9.2m TL	No	1		
		WOODEN POLES				
		CCA POLES: LEVEL H4				
		Copper chromium arsenic treated wooden pole, Level H4, SANS approved.				
		The poles shall be suitable for transmission and lighting purposes and in accordance with the Ethekwini Municipality specifications.				
		All poles shall be complete with all necessary fittings, fixtures and				
		Carried to Collection Page				

	Item	Description				
		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 10 OF 20 COLLECTION PAGE LUMINAIRE ACCESSORIES Page 41 Page 80 Page 120				
		LUMINAIRE ACCESSORIES				
		TOTAL CARRIED TO BILL SUMMARY Page				

	Item	Description	Unit	Qty	Rate	Amount
K		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 11 OF 20 LIGHT SWITCHES STEEL COVER TYPE All switches shall be suitable for mounting in 100 x 50 x 50mm boxes and shall comply with SANS 1663 and shall bear the SANS mark. The light switches shall be rated 16A, 250V. The light switches shall be complete with a white switch/s on yoke, SS screws and WHITE STEEL coverplates(SANS 1084). The light switch shall include all necessary accessories to complete the works. The light switch shall be installed into existing extension boxes or into new galvanised steel boxes. The galvanised steel boxes are measured elsewhere. The light switches shall be as per Crabtree, Classic Range or equal approved.				
K	1	16A, Single lever one way	No	1		
K	2	16A, Two lever one way	No	1		
K	3	16A, Three lever one way	No	1		
K	4	16A, Four lever one way	No	1		
K	5	16A, Five lever one way	No	1		
K	6	16A, Six lever one way	No	1		
K	7	16A, One lever one way with dimmer	No	1		
K	8	16A, Two lever one way with dimmer	No	1		
K	9	16A, One lever two way	No	1		
		All switches shall be suitable for mounting in 100 x 50 x 50mm boxes and shall comply with SANS 1663 and shall bear the SANS mark. The light switches shall be rated 16A, 250V. The light switches shall be complete with a white switch/s on yoke, SS screws and WHITE PLASTIC coverplates(SANS 1084). The light switch shall include all necessary accessories to complete the works. The light switch shall be installed into existing extension boxes or into new galvanised steel boxes. The galvanised steel boxes are measured elsewhere. The light switches shall be as per Crabtree, Classic Range or equal approved.				
K	10	16A, Single lever one way	No	1		
K	11	16A, Two lever one way	No	1		
K	12	16A, Three lever one way	No	1		
K	13	16A, Four lever one way	No	1		
K	14	16A, Five lever one way	No	1		
K	15	16A, Six lever one way	No	1		
K	16	16A, One lever one way with dimmer	No	1		
K	17	16A, Two lever one way with dimmer	No	1		
K	18	16A, One lever two way	No	1		
		Carried to Collection page				

Item	Description	Unit	Qty	Rate	Amount
	INDUSTRIAL LIGHT SWITCHES All switches shall be suitable for mounting in 75 x 75mm boxes and shall comply with SANS 1663 and shall bear the SANS mark. The light switches shall be rated 16A, 250V. The light switches shall be complete with a white switch/s on yoke and steel coverplates(White or Orange)(SANS 1084). The light switch shall include all necessary accessories to complete the works. The light switch shall be installed into existing extension boxes or into new galvanised steel boxes. The galvanised steel boxes are measured elsewhere. The light switches shall be as per Crabtree, Classic Range or equal approved.				
K	19 16A, Single lever one way	No	1		
K	20 16A, Two lever one way	No	1		
K	21 16A, Three lever one way	No	1		
K	22 16A, Three lever two way	No	1		
	INDUSTRIAL WATER PROOF LIGHT SWITCHES All switches shall be suitable for mounting in 119 x 83mm weatherproof surface boxes and shall comply with SANS 1663 and shall bear the SANS mark. The light switches shall be rated 16A, 250V. The light switches shall be complete with a white switch/s on yoke and coverplates(White or Orange)(SANS 1084). The light switch shall include all necessary accessories to complete the works. The light switch shall be installed complete with new extension boxes The light switches shall be as per Crabtree, Classic Range or equal approved.				
	STEEL TYPE				
K	23 16A, Single lever one way	No	1		
K	24 16A, Two lever one way	No	1		
K	25 16A, Three lever one way	No	1		
K	26 Limit Switches	No	1		
	PLASTIC TYPE				
K	27 16A, Single lever one way	No	1		
K	28 16A, Two lever one way	No	1		
K	29 16A, Three lever one way	No	1		
	Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
		WIRELESS LIGHT SWITCHES All switches shall be suitable for mounting in 75 x 75mm boxes and shall comply with SANS 1663 and shall bear the SANS mark. The light switches shall be rated 5A, 220V. The wireless light switch shall include all necessary accessories to complete the works. (Batteries, etc) The wireless light switches shall be as per QwikSwitch or equal approved.				
K	30	Receiver and relay. Max load 5A. Device is controllable from the WiFi Bridge remotely. Input and output supply at 220Vac, 50Hz. Radio frequency 868MHz. 30m Range through walls and floors, 100m line of site	No	1		
K	31	2 button wireless transmitter. Input supply 1 x CR2032 Battery to be included. From factor moulded casing 80mm (w) x 123mm (L) x 10mm (H) Radio frequency 868MHZ. 30m Range through walls and floors, 100m line of site	No	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 11 OF 20 COLLECTION PAGE LIGHT SWITCHES Page 51 Page 109 Page 131				
		LIGHT SWITCHES:				
		TOTAL CARRIED TO BILL SUMMARY Page				

	Item	Description	Unit	Qty	Rate
L		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 12 OF 20 POWERSKIRTING, OUTLETS & ACCESSORIES PVC TYPE Supply, deliver and install PVC type powerskirting installed surface on wall surface, bricking, concrete, desktop,etc. The powerskirting shall be suitable for low voltage(600/1000V) conductors and 16A, 250V switched socket outlets well as for . telecommunication, data and power points. The powerskirting shall be supplied complete with all covers, necessary bends, elbows, corner pieces, tees, droppers, end caps and all other necessary fittings, fixtures and accessories required for the works. All outlets(sso), telephone, data, power, etc shall also be installed complete with covers, cradles, yokes, etc to complete the works. The powerskirting shall be as Legrand (Colour White) or equal approved. All outlets shall also be of the Legrand range or equal approved and compatible with the powerskirting. POWERSKIRTING			
	L 1	Two Compartment with cover and accessories, etc	m	1	
	L 2	Three Compartment with cover and accessories, etc	m	1	
		POWERSKIRTING OUTLETS			
	L 3	16A, Single switched socket outlet - Normal - White	No	1	
	L 4	16A, Single switched socket outlet - Dedicated - RED	No	1	
	L 5	16A, Single switched socket outlet - UPS - Blue	No	1	
	L 6	RJ11 Telephone outlets	No	1	
	L 7	RJ45 Data outlets	No	1	
	L 8	Blank Outlets	No	1	
		ACCESSORIES The following accessories are to be supplied, delivered and installed for existing powerskirting that require damaged, missing or replacements. These items however will form part of the costing per m length of new powerskirting systems and as such will not be paid for separately with the exception of the internal divider.			
	L 9	Elbows	Item	1	
	L 10	Internal/External bends	Item	1	
	L 11	End Caps	Item	1	
	L 12	Internal divider	m	1	
	POWERSKIRTING, OUTLETS & ACCESSORIES				
	TOTAL CARRIED TO BILL SUMMARY Page				

	Item	Description	Unit	Qty	Rate	Amount
M	6	16A, Single switched socket outlet	No	1		
M	7	16A, Double switched socket outlet	No	1		
M	8	16A, Single switched socket outlet - Dedicated - RED	No	1		
M	9	16A, VETi 2 Double RSA & Double RSA V-Slim Socket Outlet - White	No	1		
M	10	16A, VETi 2 Switched Socket with Single RSA & 3 x RSA V-Slim - White	No	1		
		Switched socket outlet on 100 x 50 x 50mm extension boxes				
M	11	16A, Single switched socket outlet	No	1		
M	12	16A, Single switched socket outlet - Dedicated - RED	No	1		
		INDUSTRIAL SWITCHED SOCKET OUTLETS				
		All switches shall be suitable for mounting in 119 x 83mm boxes and shall comply with SANS 1664 and shall bear the SANS mark. The switches shall be rated 16A, 250V.				
		The switches shall be complete with a white switch/s on yoke and steel coverplates(White or Orange).				
		The switch shall include all necessary accessories to complete the works.				
		The switches shall be installed complete with extension boxes.				
		The switches shall be as per Crabtree, Classic Range or equal approved.				
		STEEL TYPE				
M	13	16A, Single switched socket outlet	No	1		
M	14	16A, Double switched socket outlet	No	1		
		INDUSTRIAL WATER PROOF LIGHT SWITCHES				
		All switches shall be suitable for mounting in 119 x 83mm weatherproof surface boxes and shall comply with SANS 1664 and shall bear the SANS mark.				
		The switches shall be rated 16A, 250V.				
		The switches shall be complete with a white switch/s on yoke and coverplates(White or Orange).				
		The switch shall include all necessary accessories to complete the works.				
		The switches shall be installed complete with extension boxes.				
		The light switches shall be as per Crabtree, Classic Range or equal approved.				
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
		STEEL TYPE				
M	15	16A, Single switched socket outlet	No	1		
		PLASTIC TYPE				
M	16	16A, Single switched socket outlet	No	1		
		General				
M	17	Snapper - FBLP 31 - 8 way multiplug(4 x 16A, 4 x 5A, 0.5m cord) with surge protection	No	1		
M	18	5A plugtops	No	1		
M	19	16A plugtops - White	No	1		
M	20	16A plugtops - Red	No	1		
M	21	16A plugtops - Blue	No	1		
		GENERAL INDUSTRIAL SWITCHED SOCKET OUTLETS AND PLUG TOPS				
		According to SANS / IEC 60309-1+2, 1999				
		PLUGS AND SOCKETS				
		The units shall bear the SABS authorisation mark				
		CEE ROUND TYPE PLUGS & SOCKETS: MOULDED				
		The outlets shall be as per Powermite or equal approved.				
M	22	Ref Code: A3001: 250V, 32A, IP67 switched socket outlet	No	1		
M	23	Ref Code: A0138: 250V, 32A, IP67 moulded plugtop	No	1		
M	24	Ref Code: A3002: 400V, 16A, 4 PIN, IP67 switched socket outlet	No	1		
M	25	Ref Code: A0140: 400V, 16A, 4 PIN, IP67 moulded plugtop	No	1		
M	26	Ref Code: A3009: 400V, 32A, 5 PIN, IP67 switched socket outlet	No	1		
M	27	Ref Code: A0135: 400V, 32A, 5 PIN, IP67 moulded plugtop	No	1		
M	28	Ref Code: A3102: 400V, 63A, 5 PIN, IP67 switched socket outlet	No	1		
M	29	Ref Code: A0134: 400V, 63A, 5 PIN, IP67 moulded plugtop	No	1		
		EXTENSION BOXES				
		All extension boxes shall be of the galvanised steel type and shall be of 1mm thickness. The boxes shall be suitable for standard switches(lights and plugs) application.				
		The boxes shall be in accordance with SANS 1085 and the plates with SANS 1084				
M	30	100 x 100 x 50mm	No	1		
M	31	100 x 50 x 50mm	No	1		
		Carried to Collection Page				

Item	Description	Unit	Qty	Rate	Amount
	EXTENSION BOXES				
	All PVC extension boxes shall be suitable for standard switches (lights and plugs) application.				
	The boxes shall be in accordance with SANS 1085 and the plates with SANS 1084				
	The boxes shall be of ALLBRO type or equal approved.				
M 32	Ref Code: 04 - 788: Box: H62 x W107 x D51mm	No	1		
M 33	Ref Code: 04 - 789: Box: H109 x W108 x D51mm	No	1		
	BLANK COVER PLATES - WHITE				
	STEEL TYPE				
M 34	100 x 100 x 50mm	No	1		
M 35	100 x 50 x 50mm	No	1		
	PLASTIC TYPE				
M 36	100 x 100 x 50mm	No	1		
M 37	100 x 50 x 50mm	No	1		
	ELECTRICAL YORK BOXES				
	The electrical york(installation enclosure) boxes shall be of the outdoor weatherproof socket outlet enclosure type.				
	The box shall be suitable for surface or semi-flush installation.				
	The box is to have a sliding lid which is capable of being closed while the plug is in the socket.				
	The box shall be constructed of polyester material(DMC).				
	The boxes shall be of ABB/ALLBRO type or equal approved.				
M 38	100 x 100mm type box	No	1		
M 39	100 x 50mm type box	No	1		
	ELECTRICAL METER BOXES: YORK TYPE				
	SINGLE PHASE - SMB				
	The electrical meter york(installation enclosure) boxes shall be of the outdoor weatherproof single kwh meter enclosure type.				
	The box shall be suitable for standard kWh meter.				
	The mounting shall be surface or semi-flush installation.				
	It shall have square or triangular securing screw and a stand off for circuit breaker , a circuit breaker reset rod and pole mount brackets. Material - Polyester (DMC)				
	The boxes shall be of ABB/ALLBRO type or equal approved.				
M 40	Single Phase Meter Box - SMB	No	1		
Carried to Collection Page					

Item	Description				
	ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 13 OF 20 COLLECTION SWITCHED SOCKET OUTLETS, ENCLOSURES & ACCESSORIES Page 41 Page 83 Page 123 Page 162 Page 202 Page 239 SWITCHED SOCKET OUTLETS, ENCLOSURES & ACCESSORIES: TOTAL CARRIED TO BILL SUMMARY Page				

	Item	Description	Unit	Qty	Rate	Amount
N		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 14 OF 20 GEYSER SPARES & ACCESSORIES Supply, deliver and install domestic geyser spares and accessories. The units shall be suitable for application at 250V, 50Hz and shall bear the SANS safety mark and in accordance with SANS 10254 Geyser Installation Specifications. The works shall include for the isolation, disconnection & removal of the existing equipment and replacement with the new equipment. It shall also include the disconnection and reconnection of the geyser. The equipment shall include all necessary fittings, fixtures and accessories to complete the works. The equipment shall be as per Kwikot or equal approved. SINGLE PHASE				
N	1	2kW spiral element with thermostat pocket	No	1		
N	2	3kW spiral element with thermostat pocket	No	1		
N	3	4kW spiral element with thermostat pocket	No	1		
N	4	Thermostat 20A	No	1		
N	5	2kW Industrial Immersion element with thermostat pocket	No	1		
N	6	3kW Industrial Immersion element with thermostat pocket	No	1		
N	7	4kW Industrial Immersion element with thermostat pocket	No	1		
N	8	THREE PHASE 6kW element	No	1		
N	9	GENERAL Geyser Gasket	No	1		
		GEYSER SPARES & ACCESSORIES				
		TOTAL CARRIED TO BILL SUMMARY Page				

	Item	Description	Unit	Qty	Rate
O		ELECTRICAL WORKS			
		BILL OF QUANTITIES: BILL NO 15 OF 20			
		HYDROBOILS			
		Supply, deliver and install wall mounted hydroboils.			
		The units shall be suitable for application at 250V, 50Hz and shall bear the SANS safety mark.			
		The units shall be fully automatic, energy efficient, electronic controls, provide instant boiling water, designed to operate within 3°C of boiling point with thermal temperature control, energy conserving tap, two way tap control, steam free, white epoxy coated, concealed plumbing and electrical connections and a flexible 2m electrical cord with plugtop.			
		The equipment shall include all necessary fittings, fixtures and accessories to complete the works.			
		The hydroboils shall be as per Franke or equal approved			
	1	2.5 litre white epoxy hydroboil	No	1	
	2	5 litre white epoxy hydroboil	No	1	
	3	7.5 litre white epoxy hydroboil	No	1	
	4	10 litre white epoxy hydroboil	No	1	
	5	15 litre white epoxy hydroboil	No	1	
	6	25 litre white epoxy hydroboil	No	1	
		The hydroboils shall be as per Kwikot or equal approved			
O	7	2.5 litre white epoxy hydroboil	No	1	
O	8	5 litre white epoxy hydroboil	No	1	
O	9	7.5 litre white epoxy hydroboil	No	1	
O	10	10 litre white epoxy hydroboil	No	1	
O	11	15 litre white epoxy hydroboil	No	1	
O	12	25 litre white epoxy hydroboil	No	1	
		HYDROBOILS			
	TOTAL CARRIED TO BILL SUMMARY Page				

	Item	Description	Unit	Qty	Rate	Amount
P		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 16 OF 20 FANS, DRYERS & EXTRACTORS Supply, deliver and install industrial ceiling and wall fans, wall mounted extractor fans and industrial hand dryers. The units shall be suitable for application at 250V, 50Hz and shall bear the SANS safety mark. The equipment shall include all necessary fittings, fixtures and accessories to complete the works. CEILING FAN The unit shall be a 4 speed, 3 blade industrial ceiling fan with a diameter of 1200/1400mm and a 450mm long down rod. A steel shackle is to be fixed to the upper end of the down rod by means of a nut and bolt which is complete with resilient rubber bush and a 'U' shaped ceiling hook. Both upper and lower fixings on the down rod together with the electrical connections are to be concealed behind plastic canopies. It shall have a permanent capacitor motor with external squirrel cage rotor in a lightweight steel housing. The stator and rotor is to be constructed from high grade silicon steel lamination stampings. The unit shall be complete with surface mounted speed regulator complete with 2 inserts for light switches. The unit shall be as Luft or equal approved.				
	P 1	1200mm (LCF48) ceiling fan complete with speed regulator	No	1		
	P 2	1400mm (LCF56) ceiling fan complete with speed regulator	No	1		
	P 3	4 speed (CF56) regulator	No	1		
Carried to Collection Page						

	Item	Description	Unit	Qty	Rate	Amount
P	9	WALL COWL Wall Cowl for FAC30/4 Extractor Fan	No	1		
P	10	Wall Cowl for FAC40/4 Extractor Fan	No	1		
P	11	AUTOMATIC HAND DRYER The unit shall be an automatic hand dryer with robust, high impact resistant body. The unit shall be sensor operated. The unit shall have the following features: Rated Power - 2500 watts High grade brushed stainless steel body Maintenance free dryer - capacitor initiated for quick starts 360 degree revolving nozzle Power cut off automatically in case of irregular use of over 90s Voltage - 207V-253V~50Hz Digital circuit and infrared sensor Weight - 5.9kg Air Velocity - 30m/s Air Volume - 270m³/h The unit shall be complete with all necessary mounting brackets, fittings, fixtures and accessories for the works. The unit shall be as Luft or equal approved. Costa: CLX Automatic hand dryer	No	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty		Amount
		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 16 OF 20 COLLECTION FANS, DRYERS & EXTRACTORS Page 38 Page 77 Page 116				
		FANS, DRYERS & EXTRACTORS				
		TOTAL CARRIED TO BILL SUMMARY Page				

	Item	Description	Unit	Qty	Rate	Amount
		HIGHBAY FLUORESCENT OCCUPANCY SENSOR Industrial T5 & T8 fixtures Supply, deliver and install ceiling mounted occupancy sensors. The units shall be suitable for application at 250V, 50Hz and be ETL, UL, cUL and Title 24 compliant. The units shall be digital passive infrared sensors with self adaptive technology. The unit shall be complete with a quick to install connector (QTI) and universal voltage power pack(UVP). The equipment shall include all necessary fittings, fixtures and accessories to complete the works. The units shall be as Hubbell Building Automation or equal approved. SINGLE OUTPUT VERSION(ON/OFF - OPTION)				
Q	4	HBA: WASP: FHB141NPUNV with adpators, QTI and UVP DUAL OUTPUT VERSION (Step Dimming & Smart Cycling - OPTION)	No	1		
Q	5	HBA: WASP: FHB142NPUNV with adpators, QTI and UVP	No	1		
Q	6	Occupancy and Daylight Harvesting Sensor Sensors are ceiling/surface mount devices that provide a range of daylight harvesting features for Light Control System installations with finished ceilings (e.g. office ceiling board, tiles, sheetrock, plaster)	No	1		
Q	7	High Bay Tridonic Sensors are ceiling/surface mount devices that provide a range of daylight harvesting features for Light Control System installations with finished ceilings (e.g. ceiling tiles, sheetrock, plaster)	No	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Total
		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 17 OF 20 COLLECTION OCCUPANCY SENSORS Page 38 Page 75				
		OCCUPANCY SENSORS				
		TOTAL CARRIED TO BILL SUMMARY Page				

	Item	Description	Unit	Qty	Rate	Amount
R		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 18 OF 20 LIGHTNING & SURGE PROTECTION Supply, deliver and install low voltage surge protection equipment and devices. The equipment shall include all necessary fittings, fixtures and accessories to complete the works. BARE COPPER EARTH CABLE Supply, deliver and install low voltage(600/1000V), bare, stranded, compacted, copper conductor cables. Checking of cable and overhead conductor lengths. The Contractor shall check such lengths on site before ordering the cable as he will not be paid for excess cable after the completion of the service. Any allowance for off-cuts shall be made in the unit rates. The final measurements shall be based on the net route length of cables concerned, installed in accordance with the requirements. However, the onus is on the Contractor to prove compliance with the specification. The cabling shall be installed either in excavations, cable trays, trunking, wireways, ground, sleeves, ducts, etc(measured elsewhere) and shall include all necessary fittings, fixtures and accessories required for the works. The cables shall be as per Abedare Cables or equal approved.				
R	1	70mm ² Bare Copper earth conductor	m	1		
R	2	70mm ² Insulated Copper earth conductor	m	1		
R	3	150mm ² Bare Copper earth conductor	m	1		
R	4	150mm ² Insulated Copper earth conductor	m	1		
		EARTH ROD (Roof Conductor) Supply, deliver and install low voltage(600/1000V), copper clad, 16mm diameter, 1.8m earth rods, SABS approved. The rods shall be complete with all terminations, double nuts, washers, coupling, clamps, etc required for the works.				
R	5	1.8m Copper Earth Rod	No	1		
R	6	Extensible copper earth electrodes into ground mech driving, incl cpl driv bit	No	1		
R	7	50mm ² Aluminium roof conductor insulated on roof including Aluminium fixing accessories	No	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 18 OF 20 COLLECTION LIGHTNING & SURGE PROTECTION Page 44 Page 90 Page 128				
		LIGHTNING & SURGE PROTECTION				
		TOTAL CARRIED TO BILL SUMMARY Page				

	Item	Description	Unit	Qty	Rate	Amount
S		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 19 OF 20 PHOTOVOLTAIC SYSTEMS Supply, deliver and install photovoltaics systems, including all accessories to complete the works in full compliance with applicable SABS or IEC and SANS standards. The technologies of the system must be market related. PV MODULES (inclusive of 25-year reliability and warranty) NB: Min +25 year performance warranty + 10 years equipment guarantee				
S	1	Canadian Solar SuperPower CS6K-305MS 305W Mono-crystalline Solar Panel with Integrated Compatible Power Optimizer, MC4 I/O connectors and all accessories inclusive or Equally Approved	ea	1		
S	2	Canadian Solar KuPower CS3K-320MS 320W Mono-crystalline Solar Panel with Integrated Compatible Power Optimizer, MC4 I/O connectors and all accessories inclusive or Equally Approved	ea	1		
S	3	Canadian Solar HiDM Black CS1H-320MS 320W Mono-crystalline Solar Panel with Integrated Compatible Power Optimizer, MC4 I/O connectors and all accessories inclusive or Equally Approved	ea	1		
S	4	Canadian Solar HiDM Black CS1H-325MS 325W Mono-crystalline Solar Panel with Integrated Compatible Power Optimizer, MC4 I/O connectors and all accessories inclusive or Equally Approved	ea	1		
S	5	Canadian Solar HiDM Black CS1H-330MS 330W Mono-crystalline Solar Panel with Integrated Compatible Power Optimizer, MC4 I/O connectors and all accessories inclusive or Equally Approved	ea	1		
S	6	Canadian Solar 330W Polycrystalline 72cells 35mm frame Polycrystalline Solar Panel with Integrated Compatible Power Optimizer, MC4 I/O connectors and all accessories inclusive or Equally Approved	ea	1		
S	7	Canadian Solar 265W Polycrystalline 60cells 40mm frame Polycrystalline Solar Panel with Integrated Compatible Power Optimizer, MC4 I/O connectors and all accessories inclusive or Equally Approved POWER OPTIMIZER NB: Min 25-year performance warranty + 10-years equipment guarantee (continue on next page)	ea	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
S	8	Solaredge or equally approved UV Resistance Power Optimizer Module P300 (for 60-cell modules) including MC4 Input/Output Connectors and Double Insulated Wire	ea	1		
S	9	Solaredge or equally approved UV Resistance Power Optimizer Module P370 (for high power 60 / 72 cell modules) including MC4 Input/Output Connectors and Double Insulated Wire	ea	1		
S	10	Solaredge or equally approved UV Resistance Power Optimizer Module P404 (for 60 / 72 cell short strings) including MC4 Input/Output Connectors and Double Insulated Wire	ea	1		
S	11	Solaredge or equally approved UV Resistance Power Optimizer Module P730 (for 2x 72-cell modules) including MC4 Input/Output Connectors and Double Insulated Wire	ea	1		
		INVERTORS (inclusive of 25-year reliability and warranty)				
S	12	Solaredge or equally approved Grid-Tied Three Phase SE10K 10kW String Inverter with Synergy Technology including Anti-Islanding Protection	ea	1		
S	13	Solaredge or equally approved Grid-Tied Three Phase SE33.3K 33.3kW String Inverter with Synergy Technology including Anti-Islanding Protection	ea	1		
S	14	Solaredge or equally approved Grid-Tied Three Phase SE50K 50kW String Inverter with Synergy Technology including Anti-Islanding Protection	ea	1		
S	15	Solaredge or equally approved Grid-Tied Three Phase SE60K 60kW String Inverter with Synergy Technology including Anti-Islanding Protection	ea	1		
S	16	Solaredge or equally approved Grid-Tied Three Phase SE82,5K 82,5kW String Inverter with Synergy Technology including Anti-Islanding Protection	ea	1		
S	17	Solaredge or equally approved Off-Grid Three Phase SE10K 10kW String Inverter with Synergy Technology including Protection	ea	1		
S	18	Solaredge or equally approved Off-Grid Three Phase SE33.3K 33.3kW String Inverter with Synergy Technology including Protection	ea	1		
S	19	Solaredge or equally approved Off-Grid Three Phase SE50K 50kW String Inverter with Synergy Technology including Protection	ea	1		
S	20	Solaredge or equally approved Off-Grid Three Phase SE60K 60kW String Inverter with Synergy Technology including Protection	ea	1		
S	21	Solaredge or equally approved Off-Grid Three Phase SE82,5K 82,5kW String Inverter with Synergy Technology including Protection	ea	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
		MISCELENIIOUS NB: Min 25-year performance warranty + 10-years equipment guarantee				
S	22	SolarEdge Module temperature sensor (SE1000-SEN-TMOD-S2) or Equally approved	ea	1		
S	23	SolarEdge Ambient temperature sensor (SE1000-SEN-TAMB-S2) or Equally approved	ea	1		
S	24	SolarEdge Irradiance sensor (SE1000-SEN-IRR-S1) or Equally approved	ea	1		
S	25	SolarEdge Wind sensor (SE1000-SEN-WIND-S1) or Equally approved	ea	1		
S	26	ARTsolar 100Ah 12V GEL Deep-cycle Battery or Equally approved	ea	1		
S	27	ARTsolar 200Ah 12V GEL Deep-cycle Battery or Equally approved	ea	1		
S	28	SolarEdge StoreEdge Interface SEST1-S1 or Equally approved	ea	1		
S	29	SolarEdge StoreEdge Interface SEST1-S2 or Equally approved	ea	1		
S	30	SolarEdge StoreEdge Interface SEST1-S4 or Equally approved	ea	1		
S	31	Victron Energy or Equally approved SmartSolar Charge Controllers with load output MPPT BlueSolar 150/85	ea	1		
S	32	Victron Energy or Equally approved SmartSolar Charge Controllers with load output EasySolar 12/1600/70	ea	1		
S	33	Victron Energy or Equally approved SmartSolar Charge Controllers with load output EasySolar 24/3000/70-50 MPPT 150/70	ea	1		
S	34	100 MPPT 150/100 Controllers with load output EasySolar 48/5000/70-100 MPPT 150/100	ea	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
		CABLES Cable installation Incl U-clamps, tag numbers and cable straps. Supply deliver to site and store 1000/600 volt Cu/PVC/SWA/PVC/ECC cables. Install, rack, strap and testing of cables as per specification including clamps, ties and cable numbering system. Rates to include for wastage. Contractor will only be reimbursed for installed cable measured on site between terminations. Cable bonding of all Earth Continuity Conductors from the incoming and outgoing cables will be properly crimped into cable lugs and bolted to their respective earth bars. NB: All cables installed in outdoors environment shall be UV resistance and shall have MC4 Input/Output connectors				
S	35	Lapp Ölflex Solar XLR 4mm² single core DC cable	ea	1		
S	36	Lapp Ölflex Solar XLR 6mm² single core DC cable	m	1		
S	37	Lapp Ölflex Solar XLR 10mm² single core DC cable	m	1		
S	38	Lapp Ölflex Solar XLR 16mm² single core DC cable	m	1		
S	39	LV AWA 25mm² PVC copper single core DC cable	m	1		
S	40	LV AWA 35mm² PVC copper single core DC cable	m	1		
S	41	16mm² x 4 core copper PVC/SWA+ECC 600/1000V + 10mm² Earth Wire	m	1		
S	42	25mm² x 4 core copper PVC/SWA+ECC 600/1000V + 16mm² Earth Wire	m	1		
S	43	50mm² x 4 core copper PVC/SWA+ECC 600/1000V + 25mm² Earth Wire	m	1		
S	44	70mm² x 4 core copper PVC/SWA+ECC 600/1000V + 35mm² Earth Wire	m	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
		TERMINATIONS				
		Cable terminations & Joints - Incl glands, cable numbers, wire numbers, lugs. For PVC/SWA/PVC/ECC cables, shall include supply installation and testing of the IP 65 glands with corrosion guard, making -off the cable, gland plate, switchgear or appliance and final connection of cable tails into board or terminals. NB: All cables terminations installed in outdoor environment shall be UV resistance and shall have MC4 Input/Output connectors				
S	45	Lapp Ölflex Solar XLR 4mm² single core DC cable	ea	1		
S	46	Lapp Ölflex Solar XLR 6mm² single core DC cable	ea	1		
S	47	Lapp Ölflex Solar XLR 10mm² single core DC cable	ea	1		
S	48	Lapp Ölflex Solar XLR 16mm² single core DC cable	ea	1		
S	49	LV AWA 25mm² PVC copper single core DC cable	ea	1		
S	50	LV AWA 35mm² PVC copper single core DC cable	ea	1		
S	51	16mm² x 4 core copper PVC/SWA+ECC 600/1000V + 10mm² Earth Wire	ea	1		
S	52	25mm² x 4 core copper PVC/SWA+ECC 600/1000V + 16mm² Earth Wire	ea	1		
S	53	50mm² x 4 core copper PVC/SWA+ECC 600/1000V + 25mm² Earth Wire	ea	1		
S	54	70mm² x 4 core copper PVC/SWA+ECC 600/1000V + 35mm² Earth Wire	ea	1		
		TESTING, MONITORING and COMMISSIONING				
S	55	Testing, Monitoring and Commission PV System to Remote Monitoring Software and Provide As-Built Maintenance Manuals and COC's in accordance to the applicable SANS for the complete installation	ea	1		
		Carried to Collection Page				

	Item	Description	Unit	Qty	Rate	Amount
		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 19 OF 20 COLLECTION PHOTO-VOLTAIC SYSTEM Page 52 Page 111 Page 161 Page 208 Page 255				
		PHOTOVOLTAIC SYSTEMS				
		TOTAL CARRIED TO BILL SUMMARY				

	Item	Description	Unit	Qty	Rate	Amount
S		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 20 OF 20 GENERATOR Supply and install, commission and test the Fully Enclosed Outdoor All-Weather Type Diesel Generator set including the cooling system, Trox or equally approved sound attenuation system (special care must be given to the attenuation as the set is proposed in an office environment - <75dB(A) or less at one meter from the set), Deutz Engine, under unit Double Skin base fuel tank with fully topped-up fuel tank diesel after commissioning, built-in fuel filtration system, stainless steel exhaust system clad with stainless steel, weather proof painted 3CR12 Canopy and radiator louver, battery and battery charger system and AMF DeepSea control panel, including cabling and stainless steel cable supports from AMF panel to generator, and remote emergency stop installed on pallisade fence via a P2000 HDG floor mounted bracket on chemical anchor bolts and wiring included. Refer to the Generator Standard and Technical Specification, and returnable schedule. Generator shall be CUMMINS, PERKINS, CATERPILLAR, SCANIA or other similar approved. Price must include testing, commissioning, As Built Drawings & Operating Manuals, 12 month service and maintenance, after sales support, guarantee and warranty all inclusive and Training of Employer's Site Staff (minimum 3 staff), inclusive of training manuals and attendance register)				
T	1	Supply and install 100kVA, 400/230V, 50Hz standby rig into position	No	1		
T	2	Supply and install 150kVA, 400/230V, 50Hz standby rig into position	No	1		
T	3	Supply and install 200kVA, 400/230V, 50Hz standby rig into position	No	1		
T	4	Supply and install 300kVA, 400/230V, 50Hz standby rig into position	No	1		
T	5	Supply and install 400kVA, 400/230V, 50Hz standby rig into position	No	1		
T	6	Supply and install 500kVA, 400/230V, 50Hz standby rig into position	No	1		
T	7	Supply and install 800kVA, 400/230V, 50Hz standby rig into position	No	1		
T	8	Supply and install 1000kVA, 400/230V, 50Hz standby rig into position	No	1		
		Carried to Collection Page				

		ELECTRICAL WORKS BILL OF QUANTITIES: BILL NO 20 OF 20 COLLECTION GENERATORS AND UPS Page 32 Page 83			
		TOTAL CARRIED TO BILL SUMMARY Page			

Mechanical Work

ITEM	DESCRIPTION	QTY	RATE	TOTAL
BILL 1: PREVENTATIVE MAINTENANCE				
<u>Preamble Notes:</u>				
	1. The rates in this bill shall cover the full preventative maintenance service of the listed equipment in accordance with the specification, manufacturer's recommendations, applicable standards, and good engineering practice.			
	2. The service rate shall include all labour, supervision, travelling, minor tools, instruments, testing equipment, consumables, cleaning materials, reporting, and all incidental works necessary to complete the service.			
	3. Unless specifically measured separately, the service rate shall the submission of a service report. service rate shall include all labour, supervision, travelling, minor tools, instruments, testing equipment, consumables, cleaning materials, reporting, and all incidental works necessary to complete the service.			
	4. Replacement of major defective components shall not be deemed included in the preventative maintenance rate unless specifically stated in the specification or BOQ item. Such replacements shall be measured separately under the relevant repair/replacement bill or instructed separately by the Employer.			
	5. The Contractor shall record all equipment details during servicing, including make, model, serial number, capacity, location, operating condition, defects observed, and recommendations for corrective action.			
	6. All equipment shall be left safe, clean, operational and fit for continued use after servicing, unless the equipment is found to be defective, unsafe or beyond economical repair. Any such finding shall be reported immediately to the Employer's Representative via a Service Report			
SECTION A: MINOR HVAC EQUIPMENT				
AIR-CONDITIONING UNITS (FIXED SPEED & INVERTER UNITS)				
A1	Service to 2.6 - 3.3 kW Mid-wall Split Unit inline with spec.	1		
A2	Service to 5.2 - 6.8 kW Mid-wall Split Unit inline with spec.	1		
A3	Service to 7.0- 10.0 kW Under-ceiling Split Unit inline with spec.	1		
A4	Service to 11.0 -16.0 kW Under-ceiling Split Unit inline with spec.	1		
A5	Service to 3.5 - 5.2 kW Cassett Split Unit inline with spec.	1		
A6	Service to 7.0 - 10.0 kW Cassett Split Unit inline with spec.	1		
A7	Service to 14.0 - 16.0 kW Cassett Split Unit inline with spec.	1		
A8	Service to 3.5 - 7.0 kW Ducted Split Unit inline with spec.	1		
A9	Service to 8.5 - 10.0 kW Ducted Split Unit inline with spec.	1		
A10	Service to 12.5 - 15.0 kW Ducted Split Unit inline with spec.	1		
A11	Service to 16.0 - 20.0 kW Ducted Split Unit inline with spec.	1		
A12	Service to 2.6 - 4.3 kW Console Unit inline with spec.	1		
A13	Service to 2.5 - 5.0 kW Window / Wall Unit inline with spec.	1		
A14	Service to 2.1 - 5 kW Fan-coil Unit inline with spec.	1		
A15	Service to 5.1 - 8 kW Fan-coil Unit inline with spec.	1		
A16	Service to 8.1 - 11 kW Fan-coil Unit inline with spec.	1		
A17	Service to 11.1 - 14 kW Fan-coil Unit inline with spec.	1		
A18	Service to 14.1 - 17 kW Fan-coil Unit inline with spec.	1		
A19	Service to 17.1 - 20 kW Fan-coil Unit inline with spec.	1		
VENTILATION				
A20	Service to 150mm - 250mm window/wall mounted extraction /ventilation fans inline with spec.	1		
A21	Service to 300mm - 400mm window/wall mounted extraction /ventilation fans inline with spec.	1		
A22	Service to 150mm - 250mm dia inline duct fans inline with spec.	1		

ITEM	DESCRIPTION	QTY	RATE	TOTAL
A23	Service to 300mm - 400mm dia inline duct fans inline with spec.	1		
A24	Service to 50mm - 500mm dia ducting inline with spec.	1		
A25	Service to 550mm - 1000mm dia ducting inline with spec.	1		
A26	Service to 1050mm - 1500mm dia ducting inline with spec.	1		
A27	Service to 1550mm - 2000mm dia ducting inline with spec.	1		
A28	Service to 2550mm - 3000mm dia ducting inline with spec.	1		
SECTION A TOTAL (CARRIED OVER TO COLLECTION)				
SECTION B: MAJOR HVAC EQUIPMENT				
WATER-COOLED CHILLERS (FIXED SPEED & VARIABLE SPEED)				
B1	Minor Service to 100 - 300 kW Screw Chiller inline with spec.	1		
B2	Minor Service to 301 - 600 kW Screw Chiller inline with spec.	1		
B3	Minor Service to 601 - 900 kW Screw Chiller inline with spec.	1		
B4	Minor Service to 901 - 1200 kW Screw Chiller inline with spec.	1		
B5	Minor Service to 1201 - 1500 kW Screw Chiller inline with spec.	1		
B6	Minor Service to 1501 - 2000 kW Screw Chiller inline with spec.	1		
B7	Major Service to 100 - 300 kW Screw Chiller inline with spec.	1		
B8	Major Service to 301 - 600 kW Screw Chiller inline with spec.	1		
B9	Major Service to 601 - 900 kW Screw Chiller inline with spec.	1		
B10	Major Service to 901 - 1200 kW Screw Chiller inline with spec.	1		
B11	Major Service to 1201 - 1500 kW Screw Chiller inline with spec.	1		
B12	Major Service to 1501 - 2000 kW Screw Chiller inline with spec.	1		
B13	Minor Service to 1500 -1800 kW Centrifugal Chiller inline with spec.	1		
B14	Minor Service to 1801 - 2100 kW Centrifugal Chiller inline with spec.	1		
B15	Minor Service to 2100 - 2400 kW Centrifugal Chiller inline with spec.	1		
B16	Minor Service to 2401 - 2700 kW Centrifugal Chiller inline with spec.	1		
B17	Major Service to 1500 - 1800 kW Centrifugal Chiller inline with spec.	1		
B18	Major Service to 1801 - 2100 kW Centrifugal Chiller inline with spec.	1		
B19	Major Service to 2100 - 2400 kW Centrifugal Chiller inline with spec.	1		
B20	Major Service to 2401 - 2700 kW Centrifugal Chiller inline with spec.	1		
AIR-COOLED CHILLERS (FIXED SPEED & VARIABLE SPEED)				
B21	Minor Service to 50 - 100 kW Scroll Chiller inline with spec.	1		

ITEM	DESCRIPTION	QTY	RATE	TOTAL
B22	Minor Service to 101 - 150 kW Scroll Chiller inline with spec.	1		
B23	Minor Service to 151 - 200 kW Scroll Chiller inline with spec.	1		
B24	Minor Service to 201 - 250 kW Scroll Chiller inline with spec.	1		
B25	Minor Service to 251 - 300 kW Scroll Chiller inline with spec.	1		
B26	Minor Service to 301 - 350 kW Scroll Chiller inline with spec.	1		
B27	Minor Service to 351 - 400 kW Scroll Chiller inline with spec.	1		
B28	Major Service to 50 - 100 kW Scroll Chiller inline with spec.	1		
B29	Major Service to 101 - 150 kW Scroll Chiller inline with spec.	1		
B30	Major Service to 151 - 200 kW Scroll Chiller inline with spec.	1		
B31	Major Service to 201 - 250 kW Scroll Chiller inline with spec.	1		
B32	Major Service to 251 - 300 kW Scroll Chiller inline with spec.	1		
B33	Major Service to 301 - 350 kW Scroll Chiller inline with spec.	1		
B34	Major Service to 351 - 400 kW Scroll Chiller inline with spec.	1		
B35	Minor Service to 50 - 100 kW Screw Chiller inline with spec.	1		
B36	Minor Service to 101 - 150 kW Screw Chiller inline with spec.	1		
B37	Minor Service to 151 - 200 kW Screw Chiller inline with spec.	1		
B38	Minor Service to 201 - 250 kW Screw Chiller inline with spec.	1		
B39	Minor Service to 251 - 300 kW Screw Chiller inline with spec.	1		
B40	Minor Service to 301 - 350 kW Screw Chiller inline with spec.	1		
B41	Minor Service to 351 - 400 kW Screw Chiller inline with spec.	1		
B42	Major Service to 50 - 100 kW Screw Chiller inline with spec.	1		
B43	Major Service to 101 - 150 kW Screw Chiller inline with spec.	1		
B44	Major Service to 151 - 200 kW Screw Chiller inline with spec.	1		
B45	Major Service to 201 - 250 kW Screw Chiller inline with spec.	1		
B46	Major Service to 251 - 300 kW Screw Chiller inline with spec.	1		
B47	Major Service to 301 - 350 kW Screw Chiller inline with spec.	1		
B48	Major Service to 351 - 400 kW Screw Chiller inline with spec.	1		
WATER-COOLED PACKAGE UNITS (FIXED SPEED & VARIABLE SPEED)				
B49	Service to 20-50 kW Unit inline with spec.	1		

ITEM	DESCRIPTION	QTY	RATE	TOTAL
B50	Service to 51-80 kW Unit inline with spec.	1		
B51	Service to 81-100 kW Unit inline with spec.	1		
B52	Service to 101-120 kW Unit inline with spec.	1		
B53	Service to 121-150 kW Unit inline with spec.	1		
AIR-COOLED (ROOF-TOP) PACKAGE UNITS (FIXED SPEED & VARIABLE SPEED)				
B54	Service to 20-50 kW Unit inline with spec.	1		
B55	Service to 51-80 kW Unit inline with spec.	1		
B56	Service to 81-100 kW Unit inline with spec.	1		
B57	Service to 101-120 kW Unit inline with spec.	1		
B58	Service to 121-150 kW Unit inline with spec.	1		
CLOSE CONTROL UNITS (INDOOR & OUTDOOR)				
B59	Service to 10-15 kW Unit inline with spec.	1		
B60	Service to 16-20 kW Unit inline with spec.	1		
B61	Service to 21-25 kW Unit inline with spec.	1		
B62	Service to 26-30 kW Unit inline with spec.	1		
B63	Service to 31-35 kW Unit inline with spec.	1		
B64	Service to 31-40 kW Unit inline with spec.	1		
EVAPORATIVE CONDENSOR				
B65	Service to 50-100 kW Unit inline with spec.	1		
B66	Service to 101-150 kW Unit inline with spec.	1		
B67	Service to 150-200 kW Unit inline with spec.	1		
B68	Service to 201-250 kW Unit inline with spec.	1		
B69	Service to 251-300 kW Unit inline with spec.	1		
B70	Service to 301-350 kW Unit inline with spec.	1		
AIR-HANDLING UNITS				
B71	Service to 20-50 kW Unit inline with spec.	1		
B72	Service to 51-80 kW Unit inline with spec.	1		
B73	Service to 81-120 kW Unit inline with spec.	1		
B74	Service to 121-150 kW Unit inline with spec.	1		
VRF/VRV UNITS INDOOR UNITS				
B75	Service to 2.6 - 3.3 kW Mid-wall Unit inline with spec.	1		
B76	Service to 5.2 - 6.8 kW Mid-wall Unit inline with spec.	1		
B77	Service to 7.0- 10.0 kW Under-ceiling Unit inline with spec.	1		
B78	Service to 14.0 -16.0 kW Under-ceiling Unit inline with spec.	1		
B79	Service to 3.5 - 5.2 kW Cassett Unit inline with spec.	1		
B80	Service to 7.0 - 10.0 kW Cassett Unit inline with spec.	1		
B81	Service to 14.0 - 16.0 kW Cassett Unit inline with spec.	1		
B82	Service to 3.5 - 7.0 kW Ducted Unit inline with spec.	1		
B83	Service to 8.5 - 10.0 kW Ducted Unit inline with spec.	1		
B84	Service to 12.5 - 15.0 kW Ducted Unit inline with spec.	1		
B85	Service to 16.0 - 20.0 kW Ducted Unit inline with spec.	1		
B86	Service to 2.6 - 4.3 kW Console Unit inline with spec.	1		
VRF/VRV UNITS OUTDOOR UNITS				
B87	Service to 20 - 35 kW Outdoor Unit inline with spec.	1		
B88	Service to 36 - 50 kW Outdoor Unit inline with spec.	1		
B89	Service to 51 - 65 kW Outdoor Unit inline with spec.	1		

ITEM	DESCRIPTION	QTY	RATE	TOTAL
B90	Service to 66 - 80 kW Outdoor Unit inline with spec.	1		
B91	Service to 81 - 95 kW Outdoor Unit inline with spec.	1		
HEAT-PUMPS (WATER HEATING)				
B92	Service to 5 - 15 kW Unit inline with spec.	1		
B93	Service to 16 - 25 kW Unit inline with spec.	1		
B94	Service to 26 - 35 kW Unit inline with spec.	1		
B95	Service to 36 - 45 kW Unit inline with spec.	1		
B96	Service to 81 - 55 kW Unit inline with spec.	1		
B97	Service to 56 - 65 kW Unit inline with spec.	1		
B98	Service to 66 - 75 kW Unit inline with spec.	1		
MOBILE-COLD ROOM				
B99	Service to 2 - 5 kW Unit inline with spec.	1		
B100	Service to 5.1 - 7.5 kW Unit inline with spec.	1		
B101	Service to 7.6 - 10 kW Unit inline with spec.	1		
FREEZER-ROOM				
B102	Service to 2 - 5 kW Unit inline with spec.	1		
B103	Service to 5.1 - 7.5 kW Unit inline with spec.	1		
B104	Service to 7.6 - 10 kW Unit inline with spec.	1		
COMMERCIAL REFRIGERATORS				
B105	Service to 50 - 100L Fridge inline with spec.	1		
B106	Service to 101 - 200L Fridge inline with spec.	1		
B107	Service to 201 - 300L Fridge inline with spec.	1		
B108	Service to 301 - 400L Fridge inline with spec.	1		
SECTION B TOTAL (CARRIED OVER TO COLLECTION)				

SECTION C: AUXILLARY EQUIPMENT				
COOLING TOWERS (INCL. WATER TREATMENT)				
C1	Service to 50 - 300 kW Unit inline with spec.	1		
C2	Service to 301 - 600 kW Unit inline with spec.	1		
C3	Service to 601 - 1000 kW Unit inline with spec.	1		
C4	Service to 1001 -1600 kW Unit inline with spec.	1		
C5	Service to 1601 -2300 kW Unit inline with spec.	1		
C6	Service to 2301 - 3000 kW Unit inline with spec.	1		
CHILLED WATER/CONDENSOR PUMP-SETS				
C7	Service to 5 - 10 kW Unit inline with spec.	1		
C8	Service to 11 - 15 kW Unit inline with spec.	1		
C9	Service to 16 - 20 kW Unit inline with spec.	1		
C10	Service to 21 - 25 kW Unit inline with spec.	1		
C11	Service to 26 - 30 kW Unit inline with spec.	1		
C12	Service to 31 - 35 kW Unit inline with spec.	1		
C13	Service to 36 - 40 kW Unit inline with spec.	1		
SECTION C TOTAL (CARRIED OVER TO COLLECTION)				

ITEM	DESCRIPTION	QTY	RATE	TOTAL
SECTION C: CASSETTE SPLIT UNIT INSTALLATION				
C1	3.5 kW Cassette Unit (Supply as per spec)	1		
C1.1	Mechanical Installation - up to 6 metres (as per spec)	1		
C1.2	Electrical installation - up to 20 meters (as per spec)	1		
C1.3	Additional cost per meter piping (as per spec)	1		
C1.4	Additional cost per meter cable (as per spec)	1		
C1.5	Galvanised cage (as per spec)	1		
C2	5.2 kW Cassette Unit (Supply as per spec)	1		
C2.1	Mechanical Installation - up to 6 metres (as per spec)	1		
C2.2	Electrical installation - up to 20 meters (as per spec)	1		
C2.3	Additional cost per meter piping (as per spec)	1		
C2.4	Additional cost per meter cable (as per spec)	1		
C2.5	Galvanised cage (as per spec)	1		
C3	7.0 kW Cassette Unit (Supply as per spec)	1		
C3.1	Mechanical Installation - up to 6 metres (as per spec)	1		
C3.2	Electrical installation - up to 20 meters (as per spec)	1		
C3.3	Additional cost per meter piping (as per spec)	1		
C3.4	Additional cost per meter cable (as per spec)	1		
C3.5	Galvanised cage (as per spec)	1		
C4	10.0 kW Cassette Unit (Supply as per spec)	1		
C4.1	Mechanical Installation - up to 6 metres (as per spec)	1		
C4.2	Electrical installation - up to 20 meters (as per spec)	1		
C4.3	Additional cost per meter piping (as per spec)	1		
C4.4	Additional cost per meter cable (as per spec)	1		
C4.5	Galvanised cage (as per spec)	1		
C5	14.0 kW Cassette Unit (Supply as per spec)	1		
C5.1	Mechanical Installation - up to 6 metres (as per spec)	1		
C5.2	Electrical installation - up to 20 meters (as per spec)	1		
C5.3	Additional cost per meter piping (as per spec)	1		
C5.4	Additional cost per meter cable (as per spec)	1		
C5.5	Galvanised cage (as per spec)	1		
C6	16.0 kW Cassette Unit (Supply as per spec)	1		
C6.1	Mechanical Installation - up to 6 metres (as per spec)	1		
C6.2	Electrical installation - up to 20 meters (as per spec)	1		
C6.3	Additional cost per meter piping (as per spec)	1		
C6.4	Additional cost per meter cable (as per spec)	1		
C6.5	Galvanised cage (as per spec)	1		
C7	Removal & Disposal of Current Cassette Split unit (All Sizes)	1		
SECTION C TOTAL (CARRIED OVER TO COLLECTION)				

Lifts Work

GROUP 1

KONE LIFTS & ESCALATORS

36585-1B - Integrated Infrastructure Maintenance And Construction For Buildings, Facilities
and Engineering Systems Works For 36 Months.

SECTION 1 : KONE LIFTS & ESCALATORS		PRICE SCHEDULE (Note: all Prices to Exclude Value Added Tax)
Item		
1.1	The full comprehensive maintenance of Kone Lifts situated in various Municipal buildings within the eThekweni area as scheduled below.	Service Cost per Month Per Lift
1.1.1.	<u>Water and Sanitation : 3 Prior Road, Durban</u> Lift Number : DE 3585 - No. of Landing Stops : 6 Commission Date: 1994 Modification Date: 2011 Service	
1.1.2.	Lift Number : DE 3586 - No. of Landing Stops : 6 Commission Date: 1994 Modification Date: 2011 Service	
1.1.3.	<u>Old Courthouse : Aliwal Street, Durban</u> Sabiem Lift Number : DE 1333 - No. of Landing Stops : 2 Commission Date: 1965 Modification Date: N/A Service	
1.1.4.	<u>City Hall : Anton Lembede Street, Durban</u> Lift Number : 06/L5144 - No. of Landing Stops : 4 Commission Date: 2011 Modification Date: N/A Service	
1.1.5.	Goods Lift No: JLD3111 - No. of Landing Stops : 2 Commission Date: 1977 Modification Date: N/A Service	
1.1.6.	<u>HR Shared Service/Canteen : Archie Gumede Place, Durban</u> Lift Number : 06/L4403 - No. of Landing Stops : 3 Commission Date: 2008 Modification Date: N/A Service	

36585-1B - Integrated Infrastructure Maintenance And Construction For Buildings, Facilities and Engineering Systems Works For 36 Months.

1.1.7.	<u>Chatsworth Treasury : Chatsworth Old Main Rd</u> Lift Number : 06/L6426 - No. of Landing Stops : 2 Commission Date: Unknown Modification Date: N/A Service	
1.1.8.	<u>Umgeni Road Library : Greyville</u> Sabiem Lift Number : DE 3647 - No. of Landing Stops : 4 Commission Date: 1994 Modification Date: N/A Service	
1.1.9.	<u>Pinetown Fire Station : Pinetown</u> Lift Number : 06/L4930 - No. of Landing Stops : 2 Commission Date: 2012 Modification Date: N/A Service	
1.1.10.	<u>City Hall - Museum/Art Gallery : Anton Lambede Street, Durban</u> Sabiem Lift Number : 06/L57/4 - No. of Landing Stops : 4 Commission Date: 1977 Modification Date: 2013 Service	
1.1.11.	<u>LED Building : Civic Buildings, Clermont, Pinetown</u> Lift Number : L 3698 - No. of Landing Stops : 3 Commission Date: 2003 Modification Date: N/A Service	
1.1.12.	<u>Umkhumbane Mus.: 107 Chris Hani Rd, Cato Manor</u> Lift Number : 06/L6414 - No. of Landing Stops : 4 Commission Date: N/A Modification Date: N/A Service	
1.1.13.	Lift Number : 06/L6415- No. of Landing Stops : 4 Commission Date: N/A Modification Date: N/A Service	
1.1.14.	<u>Electricity - HQ : 1 Jeff Taylor Crescent, Durban</u> Lift Number : DE 3111 - No. of Landing Stops : 7 Commission Date: 1986 Modification Date: 2011 Service	

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and Engineering Systems Works For 36 Months.**

1.1.15.	Lift Number : DE 3112 - No. of Landing Stops : 7 Commission Date: 1986 Modification Date: 2011 Service	
1.1.16.	<u>Pinetown Clinic : Chapel Street, Pinetown</u> Sabiem Lift Number : DE 3845 - No. of Landing Stops : 2 Commission Date: N/A Modification Date: N/A Service	
1.1.17.	<u>Florence Mkize : 251 Anton Lembede Street, Durban</u> Lift Number : DE 2642 - No. of Landing Stops : 10 Commission Date: 1978 Modification Date: 2020 Service	
1.1.18.	Lift Number : DE2643 - No. of Landing Stops : 11 Commission Date: 2010 Modification Date:2020 Service	
1.1.19.	Lift Number : DE 2644 - No. of Landing Stops : 11 Commission Date: 1978 Modification Date: 2020 Service	
1.1.20.	Lift Number : DE 2645 - No. of Landing Stops : 10 Commission Date: 1978 Modification Date: 2020 Service	
1.1.21.	Service Lift No. : DE 2646 - No. of Landing Stops : 10 Commission Date: 1978 Modification Date: 2020 Service	
1.1.22.	<u>Rennie House : 41 Magaret Mncadi Road</u> Lift Number : DE 3113 - No. of Landing Stops : 12 Commission Date: 1972 Modification Date: 2019 Service	
1.1.23.	Lift Number : DE 3114 - No. of Landing Stops : 12 Commission Date: 1972 Modification Date: 2019 Service	
1.1.24.	Lift Number : DE 3115 - No. of Landing Stops : 12 Commission Date: 1972 Modification Date: 2019 Service	
1.1.25.	Lift Number : DE 3116 - No. of Landing Stops : 12	

36585-1B - Integrated Infrastructure Maintenance And Construction For Buildings, Facilities
and Engineering Systems Works For 36 Months.

	Commission Date: 1972 Modification Date: 2019	Service
1.1.26.	<u>Springfield DSW: 22 Electron Road</u> Lift Number : 06/L5542 - No. of Landing Stops : 4 Commission Date: 2013 Modification Date: N/A	Service
1.1.27.	<u>34 Kingsway, Pinetown</u> Lift Number : 06/L6896 - No. of Landing Stops: 5 Commission Date: 2013 Modification Date: N/A	Service
1.1.28.	<u>Midway Mall</u> Lift Number : 06/L4844 – No. of Landing Stops: 2 Commission Date: 2021 Modification Date: N/A	Service
1.1.29.	Lift Number : 06/L8236 – No. of Landing Stops: 3 Commission Date: 2021 Modification Date: N/A	Service
1.1.30.	Lift Number : 06/L4895 – No. of Landing Stops: 3 Commission Date: 2021 Modification Date: N/A	Service
1.1.31.	<u>Midway Mall : Escalators</u> Escalator Number : 06/E850 – No. of Landing Stops: 1 Commission Date: 2021 Modification Date: N/A	Service
1.1.32.	Escalator Number : 06/E851 – No. of Landing Stops: 1 Commission Date: 2021 Modification Date: N/A	Service
1.1.33.	Escalator Number : 06/E852 – No. of Landing Stops: 1 Commission Date: 2021 Modification Date: N/A	Service
1.1.34.	Escalator Number : 06/E853 – No. of Landing Stops: 1 Commission Date: 2021 Modification Date: N/A	Service

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1.1.35.	Escalator Number : 06/E854 – No. of Landing Stops: 1 Commission Date: 2021 Modification Date: N/A Service	
1.1.36.	Escalator Number : 06/E855 – No. of Landing Stops: 1 Commission Date: 2021 Modification Date: N/A Service	
1.1.37.	<u>ICC Arena: Durban</u> Lift Number: D2014L5 – No. of Landing Stops: 2 Commission Date: 2005 Modification Date: N/A Service	
1.1.38.	Lift Number: D2014L4 – No. of Landing Stops: 3 Commission Date: 2005 Modification Date: N/A Service	
1.1.39	Lift Number: D2014L6 – No. of Landing Stops: 2 Commission Date: 2005 Modification Date: N/A Service	
1.1.40	Lift Number: D2014L2 – No. of Landing Stops: 2 Commission Date: 2005 Modification Date: N/A Service	
Sub Total Carried Forward		

SECTION 1: KONE LIFTS

PRICE SCHEDULE (Note: all Prices to Exclude Value Added Tax)

Item	SCOPE OF WORK			
	<u>Inspection and Reporting :</u> Cost of the initial Inspection to establish the condition and status of each lift installation and Report with recommendations and costs for any required remedial works and/or up-grades to ensure that the installation is compliant and fit for purpose. Note : The Inspection and Report for this Section of Works must be submitted to the Client within 2 (two) months of award of the Contract.			
1.2.	Statutory Inspections & Reports during Contract Period 2 per annum	Total No. of Lifts installed	Rate per Report	Total Amount
1.2.1.	Water and Sanitation : 3 Prior Road, Durban	2		
1.2.2.	Old Courthouse : Aliwal Street, Durban	1		
1.2.3.	City Hall : Anton Lembede Street, Durban	2		
1.2.4.	HR Shared Service/Canteen : Archie Gumede Place, Durban	1		
1.2.5.	Chatsworth Treasury : Chatsworth Old Main Rd	1		
1.2.6.	Umgeni Road Library : Greyville	1		
1.2.7.	Pinetown Fire Station : Pinetown	1		
1.2.8.	City Hall - Museum/Art Gallery : Anton Lambede Street, Durban	1		
1.2.9.	LED Building : Civic Buildings, Clermont, Pinetown	1		
1.2.10.	Umkhumbane Mus.: 107 Chris Hani Rd, Cato Manor	2		
1.2.11.	Electricity - HQ : 1 Jeff Taylor Crescent, Durban	2		
1.2.12.	Pinetown Clinic : Chapel Street, Pinetown	1		
1.2.13.	Florence Mkhize: 251 Anton Lambede Street	5		
1.2.14.	Rennie House : 41 Magaret Mncadi Road	4		
1.2.15.	Springfield DSW: 22 Electron Road	1		
1.2.16.	34 Kingsway, Pinetown	1		

36585-1B - Integrated Infrastructure Maintenance And Construction For Buildings, Facilities
and Engineering Systems Works For 36 Months.

1.2.17.	Midway Mall Lifts	3		
1.2.18.	Midway Mall Escalators	6		
1.2.19.	ICC Arena Lifts	4		
	Total for Initial Inspections			

36585-1B - Integrated Infrastructure Maintenance And Construction For Buildings, Facilities
and Engineering Systems Works For 36 Months.

		Total No. of Lifts installed	Rate per Report	Total Amount
1.3.	Statutory Inspections & Reports by Independent Lift Inspectors Every 2 years			
1.3.1.	Water and Sanitation : 3 Prior Road, Durban	2		
1.3.2.	Old Courthouse : Aliwal Street, Durban	1		
1.3.3.	City Hall : Anton Lambede Street, Durban	2		
1.3.4.	HR Shared Service/Canteen : Archie Gumede Place, Durban	1		
1.3.5.	Chatsworth Treasury : Chatsworth Old Main Rd	1		
1.3.6.	Umgeni Road Library : Greyville	1		
1.3.7.	Pinetown Fire Station : Pinetown	1		
1.3.8.	City Hall - Museum/Art Gallery : Anton Lambede Street, Durban	1		
1.3.9.	LED Building : Civic Buildings, Clermont, Pinetown	1		
1.3.10.	Umkhumbane Museum.: 107 Chris Hani Rd, Cato Manor	2		
1.3.11.	Electricity - HQ : 1 Jeff Taylor Crescent, Durban	2		
1.3.12.	Pinetown Clinic : Chapel Street, Pinetown	1		
1.3.13.	Florence Mkhize: 251 Anton Lambede Street	5		
1.3.14.	Rennie House : 41 Magaret Mncadi Road	4		
1.3.15.	Springfield DSW: 22 Electron Road	1		
1.3.16.	34 Kingsway, Pinetown	1		
1.3.17.	Midway Mall Lifts	3		
1.3.18.	Midway Mall Escalators	6		
1.3.19.	ICC Arena Lifts	4		
Total for Statutory Inspections				

	SECTION 1 SUMMARY: KONE LIFTS	
	Total for Servicing	
	Add Total for Initial Inspections	
	Add Total for Statutory Inspections	
	Section 1 - Total Cost for 40 Lifts & Escalators Excluding VAT carried to Summary	

GROUP 2 OTIS LIFTS

36585-1B - Integrated Infrastructure Maintenance And Construction For Buildings, Facilities and Engineering Systems Works For 36 Months.

SECTION 2 : OTIS LIFTS		PRICE SCHEDULE (Note: all Prices to Exclude Value Added Tax)
Item	SCOPE OF WORK	(a)
2	The full comprehensive maintenance of Otis Lifts situated in various Municipal buildings within the eThekweni area as scheduled below.	Service Cost per Month Per Lift
2.1.1.	<u>75 Winder St. : 75 Dr. Langalibalele Dube St, Durban</u> Lift Number : DE 2221 - No. of Landing Stops : 19 Commission Date: 1975 Modification Date: 1991 Service	
2.1.2.	Lift Number : DE 2222 - No. of Landing Stops : 19 Commission Date: 1975 Modification Date: 1991 Service	
2.1.3.	Lift Number : DE 2223 - No. of Landing Stops : 19 Commission Date: 1975 Modification Date: 1992 Service	
2.1.4.	Lift Number : DE 2224 - No. of Landing Stops : 19 Commission Date: 1975 Modification Date: 1992 Service	
2.1.5.	Lift Number : DE 2225 - No. of Landing Stops : 20 Commission Date: 1975 Modification Date: N/A Service	
2.1.6.	Fireman Lift No. : DE 2226 - No. of Landing Stops : 20 Commission Date: 1975 Modification Date: N/A Service	
2.1.7.	<u>Pinetown Civic Centre : Crompton Steet, Pinetown</u> Fuji Lift Number : 06/L8074 - No. of Landing Stops : 4 Commission Date: 2020 Modification Date: N/A Service	
2.1.8.	Fuji Lift Number : 06/L8075 - No. of Landing Stops : 5	

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and Engineering Systems Works For 36 Months.**

	Commission Date: 2020 Modification Date: N/A Service	
2.1.9.	<u>King Zwelithini Stadium : Umlazi</u> Lift Number : 06/L4812 - No. of Landing Stops : 3 Commission Date: 2010 Modification Date: N/A Service	
2.1.10.	<u>City fleet, Eletron Rd, Springfield</u> Lift Number : 06/L6711 - No. of Landing Stops : 5 Commission Date: 2021 Modification Date: N/A Service	
2.1.11.	Lift Number : 06/L6712 - No. of Landing Stops : 5 Commission Date: 2021 Modification Date: N/A Service	
2.1.12.	Lift Number : 06/L6713 - No. of Landing Stops : 5 Commission Date: 2021 Modification Date: N/A Service	
2.1.13.	Lift Number : 06/L6714 - No. of Landing Stops : 5 Commission Date: 2021 Modification Date: N/A Service	
2.1.14.	<u>Dumisani Makhaye Drive, (Go Bus Route)</u> Lift Number : - No. of Landing Stops : 2 Commission Date: Modification Date: N/A Service	
2.1.15.	Lift Number : - No. of Landing Stops : 2 Commission Date: Modification Date: N/A Service	
2.1.16.	Lift Number : - No. of Landing Stops : 2 Commission Date: Modification Date: N/A Service	
2.1.17.	<u>Moses Mabhida Stadium</u> Lift Number : 06/L4380 - No. of Stops 4 / 5 Openings Commission Date: 2010 Modification Date: N/A Service	
2.1.18.	Lift Number : 06/L4381 - No. of Stops 4 / 5 Openings Commission Date: 2010 Modification Date: N/A Service	

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and Engineering Systems Works For 36 Months.**

2.1.19.	Lift Number : 06/L4382 - No. of Stops 6 / 6 Openings Commission Date: 2010 Modification Date: N/A Service	-
2.1.20.	Lift Number : 06/L4383 - No. of Stops 6 / 6 Openings Commission Date: 2010 Modification Date: N/A (Glass Lift) Service	-
2.1.21.	Lift Number : - No. of Stops 4 / 5 Openings Commission Date: 2010 Modification Date: N/A Service	-
2.1.22.	Lift Number : 06/L4384 - No. of Landing Stops : 4 / 5 Commission Date: 2010 Modification Date: N/A Service	-
2.1.23.	Lift Number : 06/L4385 - No. of Stops 4 / 5 Openings Commission Date: 2010 Modification Date: N/A Service	-
2.1.24.	Lift Number : - No. of Stops 4 / 5 Openings Commission Date: 2010 Modification Date: N/A Service	-
2.1.25.	Lift Number : 06/L4387 - No. of Stops 6 / 6 Openings Commission Date: 2010 Modification Date: N/A Service	-
2.1.26.	Lift Number : - No. of Stops 4 / 5 Openings Commission Date: 2010 Modification Date: N/A Service	-
2.1.27.	Lift Number : - No. of Stops 4 / 5 Openings Commission Date: 2010 Modification Date: N/A Service	-
2.1.28.	Lift Number : 06/L4386 - No. of Stops 6 / 6 Openings Commission Date: 2010 Modification Date: N/A Service	-
2.1.29.	Lift Number : -No. of Stops 4 / 5 Openings Commission Date: 2010 Modification Date: N/A Service	-
2.1.30.	Lift Number : - No. of Stops 4 / 5 Openings Commission Date: 2010 Modification Date: N/A Service	-

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and Engineering Systems Works For 36 Months.

2.1.31.	<u>Westrich Station C3 : Dumisani Makhanya Road, Ntuzuma</u> Lift Number : 06/L7774 - No. of Stops 2 Openings Commission Date: 2019 Modification Date: N/A Service	
2.1.32.	<u>IRPTN Rapid Transport, CNR : Wyebank & Dumisani Makhanya roads, Claremont</u> Lift Number : 06/L7371 - No. of Stops 2 Openings Commission Date: 2018 Modification Date: N/A Service	
2.1.33.	Lift Number : 06/L7372 - No. of Stops 2 Openings Commission Date: 2018 Modification Date: N/A Service	
		-
	Sub Total Carried Forward	
	Section 2 - Total Cost for 30 Lifts Excluding VAT	R

36585-1B - Integrated Infrastructure Maintenance And Construction For Buildings, Facilities
and Engineering Systems Works For 36 Months.

SECTION 2: OTIS LIFTS		PRICE SCHEDULE (Note: all Prices to Exclude Value Added Tax)	
SCOPE OF WORK			
Inspection and Reporting :			
Cost of the initial Inspection to establish the condition and status of each lift installation and Report with recommendations and costs for any required remedial works and/or up-grades to ensure that the installation is compliant and fit for purpose.			
Note : The Inspection and Report for this Section of Works must be submitted to the Client within 2 (two) months of award of the Contract.			
Statutory Inspections & Reports during Contract Period 2 per annum	Total No. of Lifts installed	Rate per Report	Total Amount
75 Winder Street: 75 Dr.	6		
Langelibalele Dube St, Durban			
Pinetown Civic Centre: Crompton Street, Pinetown	2		
King Zwelithini Stadium, Umlazi	1		
City Fleet, Electron Road, Springfield	4		
Dumisani Makhaye Drive (Go Bus Route)	3		
Moses Mabhida Stadium	14		
Westrich Station C3	1		
IRPTN Rapid Transport, CNR	2		
Total for Initial Inspections			

36585-1B - Integrated Infrastructure Maintenance And Construction For Buildings, Facilities
and Engineering Systems Works For 36 Months.

2.3.	Statutory Inspections & Reports by Independent Lift Inspectors (Every 2 years)			
2.3.1.	75 Winder Street: 75 Dr.	6		
	Langelibalele Dube St, Durban			
3.2.2.	Pinetown Civic Centre: Crompton Street, Pinetown	2		
2.3.3.	King Zwelithini Stadium, Umlazi	1		
2.2.4.	City Fleet, Electron Road, Springfield	4		
2.3.5.	Dumisani Makhaye Drive (Go Bus Route)	3		
2.3.6.	Moses Mabhida Stadium	14		
2.3.7.	Westrich Station C3	1		
2.3.8.	IRPTN Rapid Transport, CNR	2		
	Total for Statutory Inspections			

	SECTION 2 SUMMARY: OTIS LIFTS		
	Total for Servicing		
	Add Total for Initial Inspections		
	Add Total for Statutory Inspections		
	Section 2 - Total Cost for 33 Lifts Excluding VAT carried to Summary		

GROUP 3 OTHER LIFTS

SECTION 3 : SCHINDLER LIFTS		PRICE SCHEDULE (Note: all Prices to Exclude Value Added Tax)
Item		
3.1.	The full comprehensive maintenance of Schindler Lifts situated in various Municipal buildings within the eThekweni area as scheduled below.	Service Cost per Month Per Lift
3.1.1.	<u>City Health : 9 Archie Gumede Place, Durban</u> Lift Number : DE 1195 - No. of Landing Stops : 4 Commission Date: 1964 Modification Date: 1996 Service	
3.1.2.	Lift Number : DE 1196 - No. of Landing Stops : 4 Commission Date: 1964 Modification Date: 1996 Service	
3.1.3.	Paraplegic Lift No. : DBH494 - No. of Landing Stops : 2 Commission Date: 1998 Modification Date: N/A Service	
3.1.4.	Dumbwaiter lift No. : DBH495 - No. of Landing Stops : 4 Commission Date: N/A Modification Date: N/A Service	
3.1.5.	<u>City Engineers : Old Fort Road, Durban</u> Lift Number : 06/L8032 - No. of Landing Stops : 7 Commission Date: 1957 Modification Date: 1994 Service	
3.1.6.	Lift Number : 06/L8033 - No. of Landing Stops : 7 Commission Date: 1957 Modification Date: 1994 Service	
3.1.7.	Lift Number : 06/L8034 - No. of Landing Stops : 7 Commission Date: 1957 Modification Date: 1994 Service	

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3.1.8.	Lift Number : 06/L8035 - No. of Landing Stops : 7 Commission Date: 1957 Modification Date: 1994 Service	
3.1.9.	Paraplegic Lift No. : DBH492 - No. of Landing Stops : 2 Commission Date: Unknown Modification Date: N/A Service	
3.1.10.	<u>ETA Building (OFP) : Archie Gumede Place, Durban</u> Lift Number : DE 1053 - No. of Landing Stops : 4 Commission Date: 1961 Modification Date: 1994 Service	
3.1.11.	Lift Number : DE 1054 - No. of Landing Stops : 4 Commission Date: 1961 Modification Date: 1994 Service	
3.1.12.	<u>Fortune House : 28 Seaward Road, Durban</u> Lift Number : DE 2145 - No. of Landing Stops : 4 Commission Date: 1973 Modification Date: N/A Service	
3.1.13.	Lift Number : DE 2164 - No. of Landing Stops : 4 Commission Date: 1973 Modification Date: N/A Service	
3.1.14.	<u>Electricity - Control Centre : 1 Jeff Taylor Crescent, Durban</u> Lift Number : DE 2807 - No. of Landing Stops : 7 Commission Date: 1974 Modification Date: 2012 Service	
3.1.15.	Lift Number : DE 2208 - No. of Landing Stops : 7 Commission Date: 1975 Modification Date: 2012 Service	
3.1.16.	Lift Number : 06/L6361 - No. of Landing Stops : 5 Commission Date: 2018 Modification Date: N/A Service	

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3.1.17.	<u>Traffic and Transportation : Alice Street, Durban</u> Lift Number : DE 948 - No. of Landing Stops : 4 Commission Date: 1959 Modification Date: 2012 Service	
3.1.18.	<u>Electricity - Store : Electron Road, Springfield Park, Durban</u> Hitech Lift Number : DE 2655 - No. of Landing Stops : 4 Commission Date: 1978 Modification Date: 2007 Service	
3.1.19.	Hitech Lift Number : DE 2656 - No. of Landing Stops : 4 Commission Date: 1978 Modification Date: 2007 Service	
3.1.20.	<u>Sugar Ray Soccer Stadium : Claremont</u> Lift Number : 06/L4770 - No. of Landing Stops : 3 Commission Date: 2010 Modification Date: N/A Service	
3.1.21.	<u>Princess Magogo Stadium : Kwa Mashu</u> Lift Number : 06/L4759 - No. of Landing Stops : 3 Commission Date: 2010 Modification Date: N/A Service	
3.1.22.	<u>ICC : Durban</u> Lift Number : DE 3693 - No. of Landing Stops : 5 Commission Date: 1997 Modification Date: N/A Service	
3.1.23.	Lift Number : DE 3694 - No. of Landing Stops : 3 Commission Date: 1997 Modification Date: N/A Service	
3.1.24.	Lift Number : DE 3695 - No. of Landing Stops : 3 Commission Date: 1997 Modification Date: N/A Service	
3.1.25.	Lift Number : DE 3697 - No. of Landing Stops : 3 Commission Date: 1997 Modification Date: N/A Service	

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and Engineering Systems Works For 36 Months.

3.1.26.	Lift Number : DE 3696 - No. of Landing Stops : 3 Commission Date: 1997 Modification Date: N/A Service	
3.1.27.	Lift Number : DE 3698 - No. of Landing Stops : 4 Commission Date: 1997 Modification Date: N/A Service	
3.1.28.	Lift Number : DE 3699 - No. of Landing Stops : 4 Commission Date: 1997 Modification Date: N/A Service	
3.1.29.	Lift Number : DE 3670 - No. of Landing Stops : 4 Commission Date: 1997 Modification Date: N/A Service	
	Sub Total Carried Forward	

SECTION 3: SCHINDLER LIFTS

PRICE SCHEDULE (ex Value Added Tax)

Item	SCOPE OF WORK <u>Inspection and Reporting :</u> Cost of the initial Inspection to establish the condition and status of each lift installation and Report with recommendations and costs for any required remedial works and/or up-grades to ensure that the installation is compliant and fit for purpose. Note : The Inspection and Report for this Section of Works must be submitted to the Client within 2 (two) months of award of the Contract.			
3.2.	Statutory Inspections & Reports during Contract Period 2 per annum	Total No. of Lifts installed	Rate per Report	Total Amount
3.2.1.	City Health : 9 Archie Gumede Place, Durban	4		
3.2.2.	City Engineers : Old Fort Road, Durban	5		
3.2.3.	ETA Building (OFP) : Archie Gumede Place, Durban	2		
3.2.4.	Fortune House : 28 Seaward Road, Durban	2		
3.2.5.	Electricity - Control Centre : 1 Jeff Taylor Crescent, Durban	3		
3.2.6.	Traffic and Transportation : Alice Street, Durban	1		
3.2.7.	Electricity - Store : Electron Road, Springfield Park, Durban	2		
3.2.8.	Sugar Ray Soccor Stadium : Claremont	1		
3.2.9.	Princess Magogo Stadium : Kwa Mashu	1		
3.2.10.	ICC Durban	8		
	Total for Initial Inspections			

36585-1B - Integrated Infrastructure Maintenance And Construction For Buildings, Facilities
and Engineering Systems Works For 36 Months.

3.3.	Statutory Inspections & Reports by Independent Lift Inspectors (Every 2 years)			
3.3.1.	City Health : 9 Archie Gumede Place, Durban	4		
3.3.2.	City Engineers : Old Fort Road, Durban	5		
3.3.3.	ETA Building (OFP) : Archie Gumede Place, Durban	2		
3.3.4.	Fortune House : 28 Seaward Road, Durban	2		
3.3.5.	Electricity - Control Centre : 1 Jeff Taylor Crescent, Durban	3		
3.3.6.	Traffic and Transportation : Alice Street, Durban	1		
3.3.7.	Electricity - Store : Electron Road, Springfield Park, Durban	2		
3.3.8.	Sugar Ray Soccer Stadium : Claremont	1		
3.3.9.	Princess Magogo Stadium : Kwa Mashu	1		
3.3.10	ICC Durban	8		
	Total for Statutory Inspections			

	SECTION 3 SUMMARY: SCHINDLER LIFTS		
	Total for Servicing		
	Add Total for Initial Inspections		
	Add Total for Statutory Inspections		
	Section 3 - Total Cost for 29 Lifts Excluding VAT carried to Summary		

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SECTION 4 : MELCO LIFTS		PRICE SCHEDULE (ex Value Added Tax)
Item		
4	The full comprehensive maintenance of Melco Lifts situated in various Municipal buildings within the eThekweni area as scheduled below.	Service Cost per Month Per Lift
4.1.1	<u>D.C.D.C : Warwick Avenue, Durban</u> Lift Number : DE 3847 - No. of Landing Stops : 3 Commission Date: 2002 Modification Date: N/A Service	
4.1.2	Dumb Weight Lift - No. of Landing Stops : 2 Commission Date: N/A Modification Date: N/A Service	
	Sub Total Carried Forward	R

SECTION 4: MELCO LIFTS			PRICE SCHEDULE (ex Value Added Tax)	
Item	SCOPE OF WORK			
	<u>Inspection and Reporting :</u>			
	Cost of the initial Inspection to establish the condition and status of each lift installation and Report with recommendations and costs for any required remedial works and/or up-grades to ensure that the installation is compliant and fit for purpose. Note : The Inspection and Report for this Section of Works must be submitted to the Client within 2 (two) months of award of the Contract.			
4.2.	Statutory Inspections & Reports during Contract Period 2 per annum	Total No. of Lifts installed	Rate per Report	Total Amount
4.2.1.	DCDC	2		
	Total for Initial Inspections			
4.3.	Statutory Inspections & Reports by Independent Lift Inspectors (Every 2 years)			
4.3.1.	DCDC	2		
	Total for Statutory Inspections			
	SUMMARY			
	Total for Servicing			
	Add Total for Initial Inspections			
	Add Total for Statutory Inspections			
	Section 4 - Total Cost for 2 Lifts Excluding VAT carried to Summary			

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SECTION 5: VIMEC LIFTS		PRICE SCHEDULE (ex Value Added Tax)
Item		
5	The full comprehensive maintenance of Vimec Lifts situated in various Municipal buildings within the eThekweni area as scheduled below.	Service Cost per Month Per Lift
5.1.1	<u>Kwa Mashu Police head Quarters</u> Stair climber TBC No of landings 2 Commission Date: 2008 Modification Date: N/A Service	
	Sub Total Carried Forward	R

SECTION 5: VIMEC LIFTS		PRICE SCHEDULE (ex Value Added Tax)		
Item	SCOPE OF WORK			
	<u>Inspection and Reporting :</u>			
	Cost of the initial Inspection to establish the condition and status of each lift installation and Report with recommendations and costs for any required remedial works and/or up-grades to ensure that the installation is compliant and fit for purpose. Note : The Inspection and Report for this Section of Works must be submitted to the Client within 2 (two) months of award of the Contract.			
5.2.	Statutory Inspections & Reports during Contract Period 2 per annum	Total No. of Lifts installed	Rate per Report	Total Amount
5.2.1.	Kwa Mashu Police head Quarters	1		
	Total for Initial Inspections			
5.3.	Statutory Inspections & Reports by Independent Lift Inspectors (Every 2 years)			
5.3.1.	Kwa Mashu Police head Quarters	1		
	Total for Statutory Inspections			
SUMMARY				
	Total for Servicing			
	Add Total for Initial Inspections			
	Add Total for Statutory Inspections			
	Section 5 - Total Cost for 1 Lift Excluding VAT carried to Summary			

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SECTION 6 : VISION LIFTS		PRICE SCHEDULE (ex Value Added Tax)
Item		
6	The full comprehensive maintenance of Otis Lifts situated in various Municipal buildings within the eThekweni area as scheduled below.	Service Cost per Month Per Lift
6.1.1	<u>EM Centre - Old Fort Complex</u> Lift Number : 06/L4843 - No. of Landing Stops : 2 Commission Date: 2010 Modification Date: N/A Service	
6.1.2	Lift Number : 06/L4844 - No. of Landing Stops : 2 Commission Date: 2010 Modification Date: N/A Service	
	Sub Total Carried Forward	

and Engineering Systems Works For 36 Months			PRICE SCHEDULE (ex Value Added Tax)	
SECTION 6: VISION LIFTS				
Item	SCOPE OF WORK			
	<u>Inspection and Reporting :</u>			
	Cost of the initial Inspection to establish the condition and status of each lift installation and Report with recommendations and costs for any required remedial works and/or up-grades to ensure that the installation is compliant and fit for purpose. Note : The Inspection and Report for this Section of Works must be submitted to the Client within 2 (two) months of award of the Contract.			
6.2.	Statutory Inspections & Reports during Contract Period 2 per annum	Total No. of Lifts installed	Rate per Report	Total Amount
6.2.1.	EM Centre - Old Fort Complex	2		
	Total for Initial Inspections			
6.3.	Statutory Inspections & Reports by Independent Lift Inspectors (Every 2 years)			
6.3.1.	EM Centre - Old Fort Complex	2		
	Total for Statutory Inspections			
SUMMARY				
	Total for Servicing			
	Add Total for Initial Inspections			
	Add Total for Statutory Inspections			
	Section 6 - Total Cost for 2 Lifts Excluding VAT carried to Summary			

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SECTION 7 : JESSEN LIFTS		PRICE SCHEDULE (ex Value Added Tax)
Item		
7	The full comprehensive maintenance of Jessen Lifts situated in various Municipal buildings within the eThekweni area as scheduled below.	Service Cost per Month Per Lift
7.1.1	<u>Pinetown Library : St Johns Avenue, Pinetown</u> Lift Number : 06/L7712 - No. of Landing Stops : 2 Commission Date: 2019 Modification Date: N/A Service	
7.1.2.	<u>Landfill Sites : Buffelsdraai Lane</u> Lift Number : 06/L7263 - No. of Landing Stops : 2 Commission Date: 2017 Modification Date: N/A Service	
7.1.3.	<u>DSW: 5 Koning Kramer Road, New Germany</u> - Lift Number : 06/L6389 - No. of Landing Stops : 3 Commission Date: 2015 Modification Date: N/A Service	
7.1.4.	<u>Training Facility: 17 Supply Road, Springfield</u> - Lift Number : 06/L7264 - No. of Landing Stops : 2 Commission Date: 2016 Modification Date: N/A Service	
7.1.5.	<u>Southern Depo: 24 Jeffels Road, Prospecton</u> - Lift Number: 06/L5884 - No. of Landing Stops: 2 Commissioning Date: 2014 Modification Date: N/A Service	
Sub Total Carried Forward		

SECTION 7: JESSEN LIFTS		PRICE SCHEDULE (ex Value Added Tax)		
Item	SCOPE OF WORK			
	<u>Inspection and Reporting :</u>			
	Cost of the initial Inspection to establish the condition and status of each lift installation and Report with recommendations and costs for any required remedial works and/or up-grades to ensure that the installation is compliant and fit for purpose. Note : The Inspection and Report for this Section of Works must be submitted to the Client within 2 (two) months of award of the Contract.			
7.2.	Statutory Inspections & Reports during Contract Period 2 per annum	Total No. of Lifts installed	Rate per Report	Total Amount
7.2.1.	Pinetwon Library, St Johns Ave, Pinetown	1		
7.2.2.	Landfill Site: Buffelsdraai Lane	1		
7.2.3.	DSW: 5 Koning Kramer Road, New Germany	1		
7.2.4.	Training Facility: 17 Supply Road, Springfield	1		
7.2.5.	Southern Depo: 24 Jeffels Road, Prospecton	1		
	Total for Initial Inspections			
7.3.	Statutory Inspections & Reports by Independent Lift Inspectors (Every 2 years)			
7.3.1.	Pinetwon Library, St Johns Ave, Pinetown	1		
7.3.2.	Landfill Site: Buffelsdraai Lane	1		
7.3.3.	DSW: 5 Koning Kramer Road, New Germany	1		
7.3.4.	Training Facility: 17 Supply Road, Springfield	1		
7.3.5.	Southern Depo: 24 Jeffels Road, Prospecton	1		
	Total for Statutory Inspections			

	SECTION 7 SUMMARY: JESSEN LIFTS	
	Add Total for Servicing	
	Add Total for Initial Inspections	
	Add Total for Statutory Inspections	
	Section 7 - Total Cost for 5 Lifts Excluding VAT carried to Summary	

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SECTION 8 : EXPRESS LIFTS		PRICE SCHEDULE (ex Value Added Tax)
Item		
8	The full comprehensive maintenance of Express Lifts situated in various Municipal buildings within the eThekweni area as scheduled below.	Service Cost per Month Per Lift
8.1.1	<u>Pinetown Library, Pinetown</u> Wheel Chair Platform - 2 openings Commission Date: N/A Modification Date: N/A Service	
8.1.2	Dumb Waitert Lift - 1/2 floor level Commission Date: N/A Modification Date: N/A Service	
	Sub Total Carried Forward	R

SECTION 8: EXPRESS LIFTS		PRICE SCHEDULE (ex Value Added Tax)		
Item	SCOPE OF WORK			
	<u>Inspection and Reporting :</u>			
	Cost of the initial Inspection to establish the condition and status of each lift installation and Report with recommendations and costs for any required remedial works and/or up-grades to ensure that the installation is compliant and fit for purpose. Note : The Inspection and Report for this Section of Works must be submitted to the Client within 2 (two) months of award of the Contract.			
8.2.	Statutory Inspections & Reports during Contract Period 2 per annum	Total No. of Lifts installed	Rate per Report	Total Amount
8.2.1.	Pinetown Library, Pinetown	2		
	Total for Initial Inspections			
8.3.	Statutory Inspections & Reports by Independent Lift Inspectors (Every 2 years)			
8.3.1.	Pinetown Library, Pinetown	2		
	Total for Statutory Inspections			
SUMMARY				
	Total for Servicing			
	Add Total for Initial Inspections			
	Add Total for Statutory Inspections			
	Section 8 - Total Cost for 2 Lifts Excluding VAT carried to Summary			

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SECTION 9 : THYSSEN LIFTS		PRICE SCHEDULE (ex Value Added Tax)
Item		
9	The full comprehensive of Thyssen Lifts situated in various Municipal buildings within the eThekweni area as scheduled below.	Service Cost per Month Per Lift
9.1.1.	<u>Metro City Police</u> Dumbwaiter - 4 openings Commission Date: N/A Modification Date: N/A Service	
9.1.2.	<u>Escalators for ICC and ICC Arena:</u> (Velino) Escalator Number: DESC 338 – No. of Landing Stops: Grd to First Commission Date: 02/05/1997 Modification Date: N/A Service	
9.1.3.	Escalator Number: DESC 339 – No. of Landing Stops: 1st to Ground Commission Date: 02/05/1997 Modification Date: N/A Service	
9.1.4.	Escalator Number: DESC 362 – No. of Landing Stops: Grd to Basement Commission Date: 02/05/1997 Modification Date: N/A Service	
9.1.5.	Escalator Number: DESC 395 – No. of Landing Stops: Base to Grd Commission Date: 02/05/1997 Modification Date: N/A Service	
9.1.6.	Escalator Number: DESC 341 – No. of Landing Stops: Grd to Mez Commission Date: 02/05/1997 Modification Date: N/A Service	
9.1.7.	Escalator Number: DESC 340 – No. of Landing Stops: 1st to Grd Commission Date: 02/05/1997 Modification Date: N/A Service	
9.1.8.	Escalator Number: DESC 391 – No. of Landing Stops: Grd to 1 st Commission Date: 02/05/1997 Modification Date: N/A Service	

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9.1.9.	Escalator Number: DESC 392 – No. of Landing Stops: Grd to First Commission Date: 02/05/1997 Modification Date: N/A Service	
9.1.10.	Escalator Number: DESC 393 – No. of Landing Stops: Grd to First Commission Date: 02/05/1997 Modification Date: N/A Service	
9.1.11.	Escalator Number: DESC 394 – No. of Landing Stops: Grd to First Commission Date: 02/05/1997 Modification Date: N/A Service	
9.1.12.	Escalator Number: DESC 389 – No. of Landing Stops: Grd to Basement Commission Date: 02/05/1997 Modification Date: N/A Service	
9.1.13.	Escalator Number: DESC 390 – No. of Landing Stops: Basement to Grd Commission Date: 02/05/1997 Modification Date: N/A Service	
	Sub Total Carried Forward	R

SECTION 9: THYSSEN LIFTS & ESCALATORS		PRICE SCHEDULE (ex Value Added Tax)		
Item	SCOPE OF WORK			
	<u>Inspection and Reporting :</u>			
	Cost of the initial Inspection to establish the condition and status of each lift installation and Report with recommendations and costs for any required remedial works and/or up-upgrades to ensure that the installation is compliant and fit for purpose. Note : The Inspection and Report for this Section of Works must be submitted to the Client within 2 (two) months of award of the Contract.			
9.2.	Statutory Inspections & Reports during Contract Period 2 per annum	Total No. of Lifts installed	Rate per Report	Total Amount
9.2.1.	Metro City Police	1		
9.2.2.	ICC and ICC Arena	12		
	Total for Initial Inspections			
9.3.	Statutory Inspections & Reports by Independent Lift Inspectors (Every 2 years)			
9.3.1.	Metro City Police	1		
9.3.2.	ICC and ICC Arena	12		
	Total for Statutory Inspections			
SUMMARY				
	Total for Servicing			
	Add Total for Initial Inspections			
	Add Total for Statutory Inspections			
	Section 9 - Total Cost for 1 Lifts and 12 Escalators Excluding VAT carried to Summary			

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SECTION 10:SHORTS LIFTS		PRICE SCHEDULE (ex Value Added Tax)
Item		
10	The full comprehensive maintenance of Shorts Lifts situated in various Municipal buildings within the eThekweni area as scheduled below.	Service Cost per Month Per Lift
10.1.1	<u>Westville Alternate Control</u> Lift Number : 06/L5963 - No. of Landing Stops : 2 Chair Lift Commission Date: 2016 Modification Date: N/A Service	
10.1.	<u>KwaMashu Trading Station</u> Lift Number : 06/L5739 - No. of Landing Stops : 2 Commission Date: 2015 Modification Date: N/A Service	
Sub Total Carried Forward		

SECTION 10: SHORTS LIFTS		PRICE SCHEDULE (ex Value Added Tax)		
Item	SCOPE OF WORK			
	<u>Inspection and Reporting :</u>			
	Cost of the initial Inspection to establish the condition and status of each lift installation and Report with recommendations and costs for any required remedial works and/or up-grades to ensure that the installation is compliant and fit for purpose.			
	Note : The Inspection and Report for this Section of Works must be submitted to the Client within 2 (two) months of award of the Contract.			
10.2.	Statutory Inspections & Reports during Contract Period 2 per annum	Total No. of Lifts installed	Rate per Report	Total Amount
10.2.1.	Westville Alternate Control	1		
10.2.2.	Kwa Mashu Trading Station	1		
	Total for Initial Inspections			
10.3.	Statutory Inspections & Reports by Independent Lift Inspectors (Every 2 years)			
10.3.1.	Westville Alternate Control	1		
10.3.2.	Kwa Mashu Trading Station	1		
	Total for Statutory Inspections			
SUMMARY				
	Total for Servicing			
	Add Total for Initial Inspections			
	Add Total for Statutory Inspections			
	Section 10 - Total Cost for 2 Lifts Excluding VAT carried to Summary			

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SECTION 11 :FOREIGN LIFTS		PRICE SCHEDULE (ex Value Added Tax)
Item		
	The full comprehensive maintenance of Foreign Lifts situated in various Municipal buildings within the eThekweni area as scheduled below.	Service Cost per Month Per Lift
11.1.1	<u>Chatsworth Soccer Stadium</u> Lift Number : 06/L7712 - No. of Landing Stops : 2 Service	
11.1.2.	<u>Intuthuko Junction</u> Lift Number : 06/L7263 - No. of Landing Stops : 2 Service	
11.1.3.	<u>Moses Mabhida Stadium</u> Hoist Number : 893 - No. of Landing Stops : 3 Service	
11.1.4.	Hoist Number : 894 - No. of Landing Stops : 2 Service	
Sub Total Carried Forward		

SECTION 11: FOREIGN LIFTS		PRICE SCHEDULE (ex Value Added Tax)		
Item	SCOPE OF WORK			
	<u>Inspection and Reporting :</u>			
	Cost of the initial Inspection to establish the condition and status of each lift installation and Report with recommendations and costs for any required remedial works and/or up-grades to ensure that the installation is compliant and fit for purpose. Note : The Inspection and Report for this Section of Works must be submitted to the Client within 2 (two) months of award of the Contract.			
11.2.	Statutory Inspections & Reports during Contract Period 2 per annum	Total No. of Lifts installed	Rate per Report	Total Amount
11.2.1.	Chatsworth Soccer Stadium	1		
11.2.2.	Intuthuko Junction	1		
11.2.3.	Moses Mabhida Stadium	2		
	Total for Initial Inspections			
11.3.	Statutory Inspections & Reports by Independent Lift Inspectors (Every 2 years)			
11.3.1.	Chatsworth Soccer Stadium	1		
11.3.2.	Intuthuko Junction	1		
11.3.3.	Moses Mabhida Stadium	2		
	Total for Statutory Inspections			

	SECTION 11 SUMMARY: FOREIGN LIFTS	
	Total for Servicing	
	Add Total for Initial Inspections	
	Add Total for Statutory Inspections	
	Section 11 - Total Cost for 4 Lifts Excluding VAT carried to Summary	

SCHEDULE OF DAYWORK RATES

It is a requirement of the Contract that this Schedule be completed in full.
Failure to complete this Schedule will invalidate the Tender.

MATERIALS

The cost of materials covered by Dayworks shall be based on proven net costs excluding VAT.

The cost of materials shall be substantiated with the suppliers' invoice(s).

Add Percentage Profit on proven cost of materials: 10%

[Cost shall be net cost (excluding VAT) of parts delivered to site with all discounts deducted.]

The following rates are for work not covered by any schedules rates

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	MAINTENANCE & REPAIR	UNIT	BASE RATE FOR 1ST YEAR
	LABOUR RATES		
1	LABOUR RATES NORMAL TIME		
1.1	Field Engineer	per hr	
1.2	Qualified Lift Technician/Artisan	per hr	
2	LABOUR RATES OVERTIME		
2.1	Field Engineer	per hr	
2.2	Qualified Lift Technician/Artisan	per hr	
3	LABOUR RATES OVERTIME SUNDAYS & PAID PUBLIC HOLIDAY		
3.1	Field Engineer	per hr	
3.2	Qualified Lift Technician/Artisan	per hr	
4	LIFT FAILURE CALLOUT RATES: NORMAL TIME		
4.1	Breakdown with Occupied Car - Maximum Response Time 45 minutes	per hr	
4.2	Breakdown with Unoccupied Car - Maximum Response Time 120minutes	per hr	
5	LIFT FAILURE CALLOUT RATES: OVERTIME		
5.1	Breakdown with Occupied Car - Maximum Response Time 45 minutes	per hr	
5.2	Breakdown with Unoccupied Car - Maximum Response Time 120minutes	per hr	
6	LIFT FAILURE CALLOUT RATES: SUNDAYS AND PUBLIC HOLIDAYS		
6.1	Breakdown with Occupied Car - Maximum Response Time 45 minutes	per hr	
6.2	Breakdown with Unoccupied Car - Maximum Response Time 120minutes	per hr	
7	TRAVELLING EXPENSES		
7.1	Travelling Expenses for vehicles not exceeding 1 ton - per km	per km	
7.2	Travelling Expenses for vehicles exceeding 1 ton but not exceeding 5 tons - per km	per km	
TOTAL (Excl. VAT) CARRIED TO GROUPS 1, 2 & 3 IN SCOPE OF WORK PRICE SCHEDULE SUMMARY:			

N.B. The contractor may be required to produce a report on findings and recommendations relating to any callouts and should factor such into their rates.

SCOPE OF WORK PRICE SCHEDULE SUMMARY		
Section	Description	Tender Amount
Group 1	The Comprehensive Maintenance Servicing of Lifts situated in various Municipal buildings within the eThekweni area as scheduled below.	
	3 year service contract for 40 Kone lifts	
	Total for Schedule of Daywork Rates	
	Group 1 Total	
Group 2	3 year service contract for 33 Otis lifts	
	Total for Schedule of Daywork Rates	
	Group 2 Total	
Group 3	3 year service contract for 21 Schindler lifts	
	3 year service contract for 2 Melco lifts	
	3 year service contract for 1 Vimec Stairclimber lift	
	3 year service contract for 2 Vision lifts	
	3 year service contract for 5 Jessen lifts	
	3 year service contract for 2 Express lifts	
	3 year service contract for 13 Thyssen lift	
	3 year service contract for 2 shorts lifts	
	3 year service contract for 4 Foreign lifts	
	Total for Schedule of Daywork Rates	
	Group 3 Total	
TOTAL AMOUNT EXCLUDING VAT CARRIED FORWARD TO FINAL SUMMARY:		
(Group 1 + Group 2 + Group 3 Totals)		

Thirty-Six Months Lifts Maintenance Contract for eThekweni Municipality

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<u>Section</u>	<u>FINAL SUMMARY</u>	<u>Page No.</u>	<u>Amount</u>
C 2.2	PRELIMINARIES	65 - 76	
C 2.2	PRICING SCHEDULE	77 - 116	
	NET TOTAL TENDERERS WORK (CARRIED TO FORM OF TENDER ITEM 1.0)	R	
	BUDGETARY ALLOWANCES (CARRIED TO FORM OF TENDER ITEM 2.0)	x	
	SUB-TOTAL (CARRIED TO FORM OF TENDER ITEM 3.0)	R	
	ADD: 15% ON THE ABOVE SUBTOTAL FOR VALUE-ADDED TAX (CARRIED TO FORM OF TENDER ITEM 4.0)	R	
	GROSS TOTAL (CARRIED TO FORM OF TENDER ITEM 5.0)	R	