



COEGA DEVELOPMENT CORPORATION (PTY) LTD

CONTRACT No. CDC/215/26

FOR

**CONSTRUCTION OF DIGISTICS WAREHOUSE EXTENSION
IN ZONE 1 OF THE COEGA SPECIAL ECONOMIC ZONE (SEZ)**

PROJECT DOCUMENT

BOOK 1 of 2: THE TENDER AND CONTRACT (RETURNABLE)

CLOSING DATE: 18 MAY 2026

PREPARED FOR:

**COEGA DEVELOPMENT CORPORATION (PTY) LTD
Corner Alcyon and Zibuko Street
Coega SEZ Zone 1
Gqeberha
6001**

NAME OF BIDDER: _____



RESPONSIVENESS CHECKLIST

TABLE 1: MANDATORY REQUIREMENTS TO BE SUBMITTED BY BIDDERS

ITEM NO.	DESCRIPTION
1	Completed and signed Invitation to Bid (SBD 1) . In the case of a Joint Venture/Consortium, each entity MUST provide the CSD number in the SBD 1 form.
2	Proof of an active CIDB grading of 7GB or higher . Emerging contractors with a CIDB grading designation of 6GB PE are not eligible to make a bid submission and will not be considered.
3	Completed and signed Bidder's Disclosure Form (SBD 4) . In case of a Joint Venture/Consortium, a SEPARATE SBD 4 form in respect of each party to the JV MUST be completed and submitted)
4	Signed Attendance Register at the mandatory briefing meeting. It must be completed in the name of the bidding entity. One person cannot represent more than one company . Failure to attend the compulsory briefing meeting <u>will</u> lead to the Bidder's elimination and the submission <u>will not</u> be evaluated further.
5	Completed and Signed Certificate of Authority of Signatory to be signed by ALL BIDDING organisations or entities. In case of a Joint Venture/Consortium, the Authority of Lead Partner to sign JV/Consortium documents MUST also be provided and signed by all parties in the JV/Consortium. Proof of authority to sign may be submitted in the form of a company resolution per bidding entity.
6	Fully completed, handwritten , priced Bill of Quantities filled in clearly legible with black permanent ink including the Health and Safety Bill of Quantities. In cases where the P&Gs are not priced but included within the tendered rates, the bidder must explicitly indicate as such. Failure to provide the total amount for P&Gs or to state if the amount is covered elsewhere will result in immediate disqualification. The bidder must expressly state "Included or elsewhere covered" for line items that are considered to be covered elsewhere in the Measured Works items. Non-compliance will lead to immediate disqualification. Any mistakes must be neatly crossed with one line and corrected rate written above it and initialized by the Tenderer.
7	Fully completed and Signed Form of Offer.
8	A Signed letter of intent to enter into a Joint Venture/Consortium. To be signed by all parties to the Joint Venture/ Consortium (Where applicable).

Note - Failure of bidders to meet all the above mandatory requirements will result in submissions being deemed null and void and shall be considered "non – responsive" and therefore not considered for further evaluation.



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TABLE 2: ADDITIONAL INFORMATION

NO.	DESCRIPTION
(1)	As per amended construction codes, companies with less than 51% black shareholding (QSEs & Generics) are to submit a valid SANAS Accredited B-BBEE Verification Certificate (with the full applicable B-BBEE elements). QSE with at least 51% or 100% black shareholding and EMEs with an annual turnover of above R3 Million are required to submit a B-BBEE verification certificate from a SANAS accredited verification agency as they have to comply with the 40% sub-minimum requirement on the QSE Skills Scorecard to avoid being discounted a level. EMEs with a turnover of less than R3 Million are exempt from complying with the subminimum requirement and may submit an affidavit or a certificate issued by CIPC, confirming their ownership and annual turnover. Refer to the B-BBEE Affidavit Template.
(2)	Completed and signed Form SBD 6.1 preference points claim form in terms of the Preferential Procurement Regulations 2022.
(3)	Supporting documents on project imperatives: <ul style="list-style-type: none"> (i) Plans for promoting and managing safety, health and environmental issues during the execution of the project. (ii) Plans for monitoring and applying quality assurance principles in the execution of the project. (iii) Plans for addressing socio-economic issues (with specific numbers to be achieved) which include <ul style="list-style-type: none"> a. Maximization of job opportunities (labour histograms); and b. Use of local material/local suppliers;
(4)	Proposed works programme and methodology covering and demonstration coherence of the: <ul style="list-style-type: none"> (i) Work organization programme; (ii) Methodology for executing the works; (iii) Resource plan; and (iv) Risks
(5)	Access/Ownership (availability) of plant and equipment. In case of hiring key plant, letter confirming the willingness of the hirer to hire equipment to the bidder.
(6)	Provide information that covers the level of education and training and the positions held by the key staff/personnel (specific to the Contracts Manager, Site Agent and Construction Supervisor) in the form of a CV. Bidders to provide copies of qualifications with relevant experience to execute the works.
(7)	Complete and duly sign Form B (T2.1.2) of the returnable book to provide a detailed record/list of contactable references for all previous completed with a value greater than R9 million of a similar nature (working in a live environment constructing a warehouse with a 11m eaves height with specialist concrete floors).
(8)	Bidders must submit a completed and signed POPIA consent form.
(9)	Bidders must complete and sign Protection of Personal Information: Consent Form



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TENDER DOCUMENT CHECKLIST

Bidders must complete this document checklist to ensure that all information is completed in the Tender Document.

ITEMS

CORRECT TENDER OFFER AMOUNT CARRIED FORWARD TO COVER PAGE AND FORM OF OFFER ON SECTION C1.1

ALL PAGES REQUIRING SIGNATURES SIGNED BY THE BIDDER

BILL OF QUANTITIES/ SCHEDULE OF QUANTITIES

1 COMPLETED IN **BLACK INK** ONLY

2 CORRECTIONS CROSSED OUT AND INITIALLED

CHECKED BY BIDDER

ALL RETURNABLE DOCUMENTS AND SCHEDULES SUBMITTED

ITEMS

T2.1.1 FORM A: AUTHORITY FOR SIGNATORY

T2.1.2 FORM B: SCHEDULE OF WORK CARRIED OUT BY THE BIDDER

T2.1.3 FORM C: PROPOSED KEY PERSONNEL

T2.1.4 FORM D: PLANT AND EQUIPMENT RESOURCES

T2.1.5 FORM E: SCHEDULE OF PROPOSED SUB-CONTRACTORS

T2.1.6 FORM F: FINANCIAL REFERENCES

T2.1.7 FORM G: ESTIMATED MONTHLY EXPENDITURE

T2.1.8 FORM H: DETAILS OF AMENDMENTS AND QUALIFICATIONS

T2.1.9 FORM J: OCCUPATIONAL HEALTH AND SAFETY ACT SPECIFICATIONS

T2.1.10 FORM K2: CONTRACT PARTICIPATION GOAL: EME / QSE TARGET FORM

T2.1.11 FORM L: RECORD OF ADDENDA TO TENDER DOCUMENTS

T2.1.12 FORM M: FULFILLMENT OF THE CONSTRUCTION REGULATIONS

T2.1.13 FORM N: JOINT VENTURE DISCLOSURE FORM

T2.1.14 FORM O: BBBEE PREFERENCING

T2.1.15 FORM P: PRELIMINARY PROGRAM AND METHOD STATEMENT

T2.1.16 FORM Q: QUALITY CONTROL MANAGEMENT PLAN

CHECKED BY BIDDER



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SBD1: INVITATION TO BID

SBD4: BIDDER'S DISCLOSURE FORM

SBD 6.1: PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL
PROCUREMENT REGULATIONS 2022

SBD 7.1 CONTRACT FORM - PURCHASE OF GOODS/WORKS

FORM H: PROTECTION OF PERSONAL INFORMATION: CONSENT



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**BOOK 1
THE TENDER**



**PART A
 INVITATION TO BID**

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NAME OF DEPARTMENT/ PUBLIC ENTITY)					
BID NUMBER:	CDC/215/26	CLOSING DATE:	18 May 2026	CLOSING TIME:	12:00
DESCRIPTION	CONSTRUCTION OF DIGISTICS WAREHOUSE EXTENSION IN ZONE 1 OF THE COEGA SEZ				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)					
Coega Development Corporation (Pty) Ltd Coega Business Centre Corner Alcyon and Zibuko Street Zone 1, Coega SEZ Gqeberha 6001					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO			TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON	SCM Unit Head: Zine Mtanda		CONTACT PERSON	N/A	
TELEPHONE NUMBER	Not allowed to phone		TELEPHONE NUMBER	N/A	
FACSIMILE NUMBER	N/A		FACSIMILE NUMBER	N/A	
E-MAIL ADDRESS	Tenderscdc21526@coega.co.za		E-MAIL ADDRESS	N/A	
SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No:	MAAA
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE	TICK APPLICABLE BOX] <input type="checkbox"/> Yes <input type="checkbox"/> No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT	[TICK APPLICABLE BOX] <input type="checkbox"/> Yes <input type="checkbox"/> No	
[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]					
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN-BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]	
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS					
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?	<input type="checkbox"/> YES <input type="checkbox"/> NO				
DOES THE ENTITY HAVE A BRANCH IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO				
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO				
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO				
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?	<input type="checkbox"/> YES <input type="checkbox"/> NO				
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.					



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**PART B
TERMS AND CONDITIONS FOR BIDDING**

1. BID SUBMISSION:

- 1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
- 1.2. **ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED-(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.**
- 1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT REGULATIONS, 2022, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
- 1.4. **THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).**

2. TAX COMPLIANCE REQUIREMENTS

- 2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
- 2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
- 2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
- 2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
- 2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
- 2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
- 2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:
(Proof of authority must be submitted e.g. company resolution)

DATE:

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T1.1: TENDER NOTICE AND INVITATION TO TENDER



INVITATION TO TENDER

**CONTRACT NO. CDC/215/26
CONSTRUCTION OF DIGISTICS WAREHOUSE EXTENSION
IN ZONE 1 OF THE COEGA SPECIAL ECONOMIC ZONE**

The Coega Development Corporation (CDC) is headquartered in the City of Gqeberha, Nelson Mandela Bay Municipality, South Africa, with a strategic operational footprint in South Africa and beyond the borders on the African continent. The CDC's vision is to be the leading catalyst for the championing of socio-economic development. This it seeks to achieve through the development and operation of the 9 003-hectare Coega Special Economic Zone (SEZ), a transshipment hub and a leading investment destination in Africa, providing highly skilled competence and capacity for the execution of complex infrastructure and related projects throughout South Africa and selected markets on the African continent, and advisory on the development of industrialisation and logistics zones. The CDC's advanced capabilities are successful enablers in sustainable economic zone development and management, real assets management, infrastructure planning and development, technology integration while realising related socio-economic impact areas such as skills and SMME development. The CDC's high-performance ethos is grounded in its commitment to sustainable development, the protection of its people and the planet, and the delivery of infrastructure solutions that support a just social and economic transition to a low-carbon, resource efficient, and climate resilient future. The foundational culture of the CDC's approach, backed by its core values, is innovation and continuous improvement.

The Coega Development Corporation (CDC) was established to stimulate investment and economic growth within the Eastern Cape Province of South Africa. Located within the Nelson Mandela Bay Metropolitan Municipality (NMBM) near Gqeberha, the multi-billion-rand Special Economic Zone (SEZ) is South Africa's premier location for new industrial investment, covering 9,003 hectares of land.

This project forms part of the Coega Development Corporation's (CDC) overall development of infrastructure for the Coega SEZ.

INVITATION AND SCOPE OF WORK

The CDC is inviting capable and competent contractors with proven experience and track record to submit their bids for the CONSTRUCTION OF DIGISTICS WAREHOUSE EXTENSION IN ZONE 1 OF THE COEGA SEZ. The service provider must have a CIDB grading of 7GB or higher, emerging contractors with a CIDB grading of 6GB PE are not eligible to make submissions and will not be considered.

Digistics is an existing tenant within zone 1 of the Coega Industrial Development zone and are urgently in need of extensions to their existing facility. The Coega Development Corporation is thus calling for

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interested contractors to tender for the construction of Digistics Warehouse Extensions. The proposed scope of works consists of:

- (a) 4250m² extension to existing warehouse (11m eaves height)
- (b) 160m² extension to existing office block (concrete frame double storey structure)
- (c) Alterations to existing offices
- (d) 95m² refuse area
- (e) Extension to existing hardstand and parking areas
- (f) Associated external works and services

CONDITIONS OF TENDER

- (a) Bidders must be registered with the Construction Industry Development Board (CIDB) and must have an active CIDB Contractor grading of **7GB or higher**. Potential bidders with a grading of **6GB PE** will not be eligible for this tender.
- (b) Bidders are required to have a valid and current CIDB registration on the date of closing and are required to maintain this registration throughout the Procurement Process. Failure to do so will invalidate the tender.
- (c) Entities who intend to submit a bid as a Joint Venture must ensure that their combined grading meets the required CIDB Grading.
- (d) The CIDB B.U.I.L.D Standard for Indirect Targeting for Enterprise Development through Construction works Contracts, published in Gazette Notice No. 36190 of 25 February 2013 applies to this project.
- (e) The CDC's Procurement Policy & Procedures shall apply.
- (f) The following legislation shall apply:
 - (i) Public Finance Management Act (PFMA);
 - (ii) Preferential Procurement Regulations, 2022;
 - (iii) The Construction Industry Development Board Act, (38 of 2000);
 - (iv) National Treasury Regulations;
 - (v) National Building Regulations and Building Standards Act (103 of 1977);
 - (vi) Infrastructure Development Act, 2014;
 - (vii) National Qualifications Framework Amendment Act, (12 of 2019);
 - (viii) The Skills Development Act, (97 of 1998);
 - (ix) Disaster Management Act (57 of 2002);
 - (x) Broad-Based Black Economic Empowerment – BBBEE Act Number 53 of 2003 (as amended by Act number 46 of 2013);
 - (xi) Occupational Health and Safety Act and Regulations, Act (85 of 1993);
 - (xii) Compensation for Occupational injuries and disease Act (130 of 1993);
 - (xiii) National Environmental Management (NEMA), Act (107 of 1998);
 - (xiv) The National Archives and Records Service of South Africa Act (Act No. 43 of 1996); and
 - (xv) Any other applicable legislation in the built environment including all Municipal Bylaws.

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- (g) 90/10 preference points system in terms of Price and Specific goals scoring will be applicable where a point of 90.00 is for Price and a point of 10 is for Specific Goals. The lowest acceptable tender will be used to determine the applicable point system.
- (h) An Entity that is part of the JV / Consortium is not permitted to form part of more than one bid submission as this is regarded as a Conflict of Interest.
- (i) In the case of a successful JV/Consortium at award, the entity will be expected to provide valid proof of registration with Compensation Fund or approved Licenced Insurer specified as the JV/Consortium entity for the project duration.
- (j) Bidders must be VAT registered and bids must be submitted VAT inclusive. Non-VAT vendors who submit bids for contracts that would, if successful, take their annual turnover above the threshold of R 1 million are obliged to include VAT in the prices quoted and must therefore immediately upon award of the contract register with the South African Revenue Services (SARS) as VAT vendors. The award of the contract would be conditional pending the successful bidder submitting proof of registration as a VAT vendor with SARS.
- (k) Bidders must provide proof of registration on the National Treasury's Central Supplier Database (CSD) or provide a National Treasury CSD registration number e.g., MAAA0...
- (l) The CDC will only award the tender to a bidder who is tax compliant. The tax status of the bidders will be verified through the CSD and SARS websites.
- (m) As per amended construction codes, companies with less than 51% black shareholding (QSEs & Generics) are to submit a valid SANAS Accredited B-BBEE Verification Certificate (with the full applicable B-BBEE elements). QSE with at least 51% or 100% black shareholding and EMEs with an annual turnover of above R3 Million are required to submit a B-BBEE verification certificate from a SANAS accredited verification agency as they have to comply with the 40% sub-minimum requirement on the QSE Skills Scorecard to avoid being discounted a level. EMEs with a turnover of less than R3 Million are exempt from complying with the subminimum requirement and may submit an affidavit or a certificate issued by CIPC, confirming their ownership and annual turnover. In the case of a JV, a consolidated B-BBEE certificate must be submitted as well as individual B-BBEE Certificates/affidavits of their entities to confirm the type of enterprise.
- (n) Bidders and all its Consortium/Joint Venture (JV) members, if any, must confirm their company registration with the Companies and Intellectual Property Commission (CIPC) (formerly CIPRO) as the CDC will not award any bid to any business that appears on the CIPC list of de-registered businesses. The CDC may verify company registration with CIPC through BizPortal.
- (o) No competitive bids will be awarded to a person or entities who are not Tax Compliant, therefore prospective bidders must ensure that they are Tax Compliant throughout the validity period of the bid in review. The tax status of the bidders will be verified through the CSD and SARS website.
- (p) Bidders will be evaluated on functionality and are expected to meet a minimum of 70 points threshold to be evaluated further. The evaluation criteria for measuring functionality and weight of each criterion are provided in the document.

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- (q) CDC will not award more than two active projects to one bidder unless one project has reached the 80% completion stage and beyond. A Capacity assessment may be conducted in the event that the recommended bidder is the only responsive service provider and has already been awarded two contracts and is to be considered for a third contract at the sole discretion of CDC and subject to their performance on the active two contracts.
- (r) The successful bidder will be required to comply with the Occupational Health and Safety Act and Regulations, Act (85 of 1993) and Compensation for Occupational Injuries and Disease Act, Act (130 of 1993) and all relevant and applicable legislations throughout the duration of the contract. Upon appointment of the successful bidder, the service provider will be required to develop Occupational Health, Safety and Environmental Management Systems to comply with the SANS Norms and Standards. CDC SHEQ Unit will monitor compliance and implementation of Occupational Health and Safety, Environmental and Quality requirements for the duration of the contract.
- (s) The successful bidder will be required to appoint a registered Construction Health and Safety Officer or Construction Health and Safety Manager (CHSO/M) with SACPCMP upon award on a full-time basis on site with a proven record of 5 years or more of experience. No candidate registration will be accepted.
- (t) Bidders must complete and sign the POPI Act consent form. In the case of a Joint Venture/Consortium, a **separate** form in respect of each party to the JV must be completed.
- (u) Public servants are prohibited from doing any form of business with organs of state, whether in their own capacity as individuals or through companies in which they are directors. Verification will be done, and bidders will be disqualified should they be found to be in contravention to the regulations.
- (v) Any misrepresentation of information will lead to immediate disqualification of the Bidder's Submission. It is imperative that the duly authorized person conducts quality control on all the documentation to be submitted to the CDC and part of this Bid and signs the submission as a correct and sound document that the CDC could put its reliance on.
- (w) The tender validity period shall be **Twelve (12) weeks** from the tender closing date.
- (x) It is incumbent upon and the responsibility of the Prospective Bidders to submit their full and correct contact details when they download the Bid Document to enable any communication that the CDC might need to issue to all the Prospective Bidders during the bidding process to be realized. The CDC will not be accountable for any such omission by the Prospective Bidders.
- (y) Incomplete Tender document Submissions will be deemed null and void and shall be considered non-responsive.

Bid documents for this Tender Process can be downloaded free of charge from the CDC website (www.coega.com) or the National Treasury e-tender portal publication from **12h00** on **17 April 2026**. The CDC will not take responsibility for any errors that may occur in the downloading of documents. Bidders are therefore required to ensure that they download the full pack with no missing pages.

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In case a bidder prefers to purchase a physical bid document, the Bidder must make a request in writing only and must be directed to: Ms Zine Mtanda: SCM Unit Head – **E-mail tenderscdc21526@coega.co.za**. Bid documents can be collected two working days after the written request during working hours, from the **CDC's Main Office**, situated at **Coega Business Centre, Cnr Alcyon Rd and Zibuko Street, Zone 1, Coega SEZ, Gqeberha** from **12h00 on 17 April 2026** at a non-refundable bid fee of **R 700.00** per set of bid documents, payable by electronic transfer to: **Account Name: CDC; Standard Bank; Gqeberha; Branch Code: 000017; Account No.: 0000 08000 8224**. Bidders are required to use the Contract Number for this bid **CDC/215/26** as the reference. Proof of deposit is required upon collection of the bid documents. **NO CASH WILL BE ACCEPTED. No documents will be available or issued at the Briefing Meeting and should therefore be collected beforehand.**

A mandatory briefing meeting be conducted on **24 April 2026 at 10h00** at the **Coega BPO Auditorium, Discovery Building, 136 Tutu Street, Zone 4, Coega SEZ, Gqeberha (33.788782° South and 25.618021° East)** where representatives from the Coega Development Corporation and the Consultants will meet prospective Bidders.

Any queries relating to the issue of these documents may be addressed to Ms Zine Mtanda, Unit Head: Supply Chain Management, e-mail: tenderscdc21526@coega.co.za., between the period of **17 April 2026 to 04 May 2026**. No new queries received after **04 May 2026** will be considered.

Bidders must ensure that all bid documents are submitted in a secure, sealed, tamper-proof envelope or container. The submission must be secure against any form of tampering, alteration, removal, or insertion of documents. Any bid submission received in packaging that appears to be torn, unsealed, loose papers or otherwise compromising the integrity of the contents may be deemed non-responsive and disqualified at the discretion of the CDC.

One original of the completed bid document shall be placed in a sealed envelope clearly marked: **“CDC/215/26 – CONSTRUCTION OF DIGISTICS WAREHOUSE EXTENSION IN ZONE 1 OF THE COEGA SEZ”**. The closing date and time for the receipt of completed bid documents is **Monday, 18 MAY 2026 at 12h00**. Bids are to be deposited in the tender box at the Document Control office at CDC main office Coega Business Centre, Cnr Alcyon Rd and Zibuko Street, Zone 1, Coega SEZ, Gqeberha, the lodging register must be completed by the person dropping the tender document. Bidders using courier services are to ensure that the person dropping the tender document registers the correct bidding entity name. Bids will be opened in public. **No late submissions will be considered.**

Bids will be opened in public. No more than two representatives of the tendering entity will be allowed to attend the tender opening session.

Failure to provide any **mandatory information** required in this bid will result in the submissions being deemed non-responsive.

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Telegraphic, telexed, tippexed, facsimiled or e-mail submissions will not be accepted.

No telephonic or any other form of communication relating to this Bid with any other CDC member of staff, CDC Agent, Client, or any other role players will be permitted. All enquiries regarding this tender must be in writing only, and must be directed to:

Ms Zine Mtanda, Unit Head: Supply Chain Management; e-mail: tenderscdc21526@coega.co.za

There shall be no disclosure, other than to the Clients legal and technical advisors of the tender amounts, method of work, terms, conditions, etc., to any other service tenderer nor to any parties who have not submitted tender documents. The CDC reserves the right not to accept the lowest proposal in part or in whole or any proposal.

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T1.2: Tender Data

Conditions of Tender

The Conditions of Tender are the Standard Conditions of Tender as contained in Annex C of the Construction Industry Development Board’s (CIDB) Standard for Uniformity in Engineering and Construction Works Contracts August 2019.

The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the Standard Conditions of Tender. Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies.

The following variations, amendments and additions to the Standard Conditions of Tender as set out in the Tender Data below shall apply to this tender:

Item	Data / Wording
<p>C.1.1.1 The Employer is:</p>	<p>The Employer is: Coega Development Corporation (Pty) Ltd Coega Business Centre Corner Alcyon and Zibuko Street Zone 1, Coega SEZ Gqeberha 6001</p>
<p>C.1.1.2 Conflict of Interest</p>	<p>Bidders shall declare any perceived, known and potential conflict of interest under Returnable Schedule SBD 4: Bidder’s Disclosure Form.</p>
<p>Tender Documents</p>	<p><u>BOOK 1 OF 2</u></p> <p><u>INDEX and introductory pages</u></p> <p><u>Documents that Relate to the Tender</u></p> <p>PART T1: TENDERING PROCEDURES T1.1 Tender Notice and Invitation to Tender T1.2 Tender Data</p> <p>PART T2: RETURNABLE DOCUMENTS T2.1 Returnable Schedules</p> <p><u>Documents that Relate to the Contract</u></p> <p>PART C1: AGREEMENT AND CONTRACT DATA C1.1 Form of Offer and Acceptance C1.2 Contract Data C1.3 Pro-Forma Forms to be Completed C1.3.1 Construction Guarantee C1.3.2 Construction Guarantee Pro-Forma C1.3.3 Agreement in Terms of OHS Act, 1993, (Act No 85 of 1993) C1.3.4 Certificate of Authority for Signatory in Terms of Occupational Health and Safety Act, 1993 (Act No 85 of 1993)</p>



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	<p>PART C2: PRICING DATA C2.1 Pricing Instructions C2.2 Bill of Quantities</p> <p>BILL OF QUANTITIES</p> <p><u>BOOK 2 OF 2</u></p> <p>PART C3: SCOPE OF WORKS C3.1 Description of the Works C3.2 Engineering C3.3 Procurement C3.4 Construction C3.5 Management</p> <p>PART C4: SITE INFORMATION C4.1 Site information</p> <p>PART C5: ANNEXURES C5.1 Annexure A: Tender Drawings C5.2 Annexure B: Project Specifications C5.3 Annexure C: Baseline Risk Assessment C5.4 Annexure D: Project Health and Safety Specifications C5.5 Annexure E: Project Environmental Specifications C5.6 Annexure F: Geotechnical Investigation Reports C5.7 Annexure G: CIDB Standard for developing skills through infrastructure contracts C5.8 Annexure H: Labour Management C5.9 Annexure I: SMME Specifications C5.10 Annexure J: CDC Planning Specification C5.11 Annexure K: Supplier Performance Evaluation</p>
<p>Employer's representative</p>	<p>Ms Zine Mtanda, email: tenderscdc21526@coega.co.za</p> <p>Coega Business Centre Corner Alcyon and Zibuko Street Zone 1, Coega SEZ Gqeberha 6001</p>
<p>C.2.1 Eligibility</p>	<p>The following Bidders who are registered with the CIDB, or are capable of being so registered prior to the evaluation of submissions, are eligible to have their tenders evaluated:</p> <p>a) Only those respondents who are registered with the Construction Industry Development Board or are capable of being so registered within twenty-one (21) working days from the closing date for submission of tenders, in a contractor grading designation of 7GB, are eligible to have their submissions evaluated. A simple way of establishing whether or not a contractor has a reasonable chance of being registered in the appropriate contractor grading designation is for the bidder to submit a copy of his/her application for CIDB registration with his or her tender submission.</p>

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	<p>b) Contractors who have a contractor grading designation equal to or higher than a contractor grading designation determined according to the sum tendered, or a value determined according to Regulation 25(1B) or 25(7A) of the Construction Industry Development Regulations, for a CIDB Contractor grading of 7GB. 6GB PE will not be eligible to bid for tender.</p> <p>c) The contractor shall achieve in the performance of the contract the Contract Participation Goals (CPG) related to the engagement of targeted enterprises as established in the CIDB Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts (published in GN 36190 of 25 February 2013).</p> <p>d) Bidders must be able to demonstrate suitable prior experience in the construction of at least a similar scale and value to those of the tender. Bidders shall complete Returnable Document Form B: Schedule of Work Carried out by the Tender in this regard.</p> <p>e) Bidders must attain the specified minimum number of points for functionality/Quality.</p> <p>Subject to subregulation (1), joint ventures are eligible to submit tender offers or expressions of interest if:</p> <p>a) Every member of the joint venture is registered with the CIDB;</p> <p>b) The lead partner has a contractor grading designation of not lower than one level below the required grading designation in the class of construction works under consideration and possesses the required recognition status; and</p> <p>c) The combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a 7GB class of construction work; or the category of registration of the joint venture, determined in accordance with subregulation (6) is equal to or higher than the category of registration specified in accordance with subregulation (3).</p>
<p>Qualifying Functionality/Quality Criteria</p>	<p>Only those bidders who attain the specified minimum of 70 points of the total number of points for quality (functionality) as defined in Part T1.2.1 hereunder, will be eligible for further consideration. Failure to meet the qualifying criteria will result in the tender being considered non-responsive and eliminated from further consideration.</p>
<p>C.2.7 Clarification Meeting</p>	<p>The arrangements and venue for the compulsory Tender Briefing meeting are: Venue: Coega BPO Auditorium, Discovery Building, 136 Tutu Street, Zone 4, Coega SEZ, Gqeberha Time: 10h00 Date: 24 April 2026 Name: Zine Mtanda tenderscdc21526@coega.co.za</p>
<p>C.2.12 Alternative Tender Offers</p>	<p>No alternative offers will be considered.</p>
<p>C.2.13 Returnable Documents</p>	<p>Bidders to note that the returnable document is Volume 1 (Book 1 of 2)</p>



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C.2.13 Number of copies of tender offers to be submitted to the Employer	The returnable part of the tender offer communicated on paper shall be submitted as an original only .
C.2.13.5 Sealing and Delivery of tender offers	<p>The Employer's address for delivery of tender offers and identification details to be shown on each tender offer package are:</p> <p>Note: Prospective Bidders are required to bring proof of identification (ID, driver's license or Passport) to gain access to the building.</p> <p>Location of tender box: CDC main office Coega Business Centre, Cnr Alcyon Rd and Zibuko Street, Zone 1, Coega SEZ, Gqeberha</p> <p>Physical address: Supply Chain Management Coega Development Corporation (Pty) Ltd Coega Business Centre Corner Alcyon and Zibuko Street Zone 1, Coega SEZ Gqeberha, 6001 Identification details: CDC/215/26 – CONSTRUCTION OF DIGISTICS WAREHOUSE EXTENSION IN ZONE 1 OF THE COEGA SEZ</p>
C.2.15 Closing time of tender offers	The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender.
C.2.16 Tender offer validity	The tender offer validity period is twelve (12) weeks from the tender closing date.
C.2.19 Inspections, tests and analysis	Bidders will not be able to visit the site, with information to be shared at the compulsory tender briefing meeting
C.2.23 Certificates	All certificates as listed under Part T2: Returnable Documents.
C.2.8 & C3.1.1 Request for clarification	Working days shall be as per a normal working week, Monday to Friday between the hours of 08h00 and 17h00 and shall exclude all gazetted public holidays.
C.3.2 Issue Addenda	Change "three days" to "seven working days".
C.3.4 Opening of tender submissions	Tender Offers will be opened in public. No more than two representatives of the tendering entity will be allowed to attend the tender opening session.
C.3.5 Two-Envelope system	A two-envelope system will not be followed.
C.3.8 Test for Responsiveness and Functionality Scoring	For Functionality Scoring, bidders are required to achieve a minimum threshold of 70% . For Functionality Criteria, refer to Appendix A1 .
C.3.11 Evaluation of Tender Offers	<p>The procedure for the evaluation of responsive tenders is Method 2 (Functionality, Price, and Preference). The 90/10 preference point system will apply:</p> <p>Formula of Scoring for Price</p>



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SCORING CRITERIA	WEIGHTING FOR 90:10
Price	90
Specific Goals (B-BBEE status level of contributor)	10
Total points	100

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

Where:

P_s = Points scored for price of tender under consideration;

P_t = Price of tender under consideration; and

P_{min} = Price of lowest acceptable tender.

The allocation of tender adjudication points for Contracts shall be as follows:

Area of Adjudication	Maximum Points
Tendered Price (S_p)	90
Specific Goals (B-BBEE status level of contributor) (S_e)	10
Total Points (s)	100

In addition to price evaluation, CDC will evaluate contractors, service providers, and professionals based on their B-BBEE status achieved according to the DTI.

As per amended construction codes, companies with less than 51% black shareholding (QSEs & Generics) are to submit a valid SANAS Accredited B-BBEE Verification Certificate (with the full applicable B-BBEE elements). QSE with at least 51% or 100% black shareholding and EMEs with an annual turnover of above R3 Million are required to submit a B-BBEE verification certificate from a SANAS accredited verification agency as they have to comply with the 40% sub-minimum requirement on the QSE Skills Scorecard to avoid being discounted a level. EMEs with a turnover of less than R3 Million are exempt from complying with the subminimum requirement and may submit an affidavit or a certificate issued by CIPC, confirming their ownership and annual turnover. In the case of a JV, a consolidated B-BBEE certificate must be submitted, as well as individual B-BBEE Certificates/affidavits of their entities to confirm the type of enterprise.

Note:

- ❖ A Trust, Consortium, or Joint venture will qualify for points for its B-BBEE Status Level as a legal entity provided that the entity submits its B-BBEE Status certificate.
- ❖ A Trust, Consortium, or Joint venture will qualify for points for its B-BBEE Status Level as an unincorporated entity provided that the entity submitted its consolidated B-BBEE Scorecard as if it were a group structure and that such a consolidated B-BBEE Scorecard is prepared for every separate tender.

Specific goals points shall be awarded to a bidder for attaining the B-BBEE status level of contributor according to the table below.



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	<table border="1"> <thead> <tr> <th>CONTRIBUTION LEVEL</th> <th>WEIGHTING FOR 90:10</th> </tr> </thead> <tbody> <tr> <td>Level One</td> <td>10</td> </tr> <tr> <td>Level Two</td> <td>9</td> </tr> <tr> <td>Level Three</td> <td>6</td> </tr> <tr> <td>Level Four</td> <td>5</td> </tr> <tr> <td>Level Five</td> <td>4</td> </tr> <tr> <td>Level Six</td> <td>3</td> </tr> <tr> <td>Level Seven</td> <td>2</td> </tr> <tr> <td>Level Eight</td> <td>1</td> </tr> <tr> <td>Non-Compliant Contributor</td> <td>0</td> </tr> </tbody> </table> <p>The points scored by a Bidder in respect of Price (S_P) will be added to the points scored for the Specific Goals (S_e). Only the Bidder with the highest number of points may be selected.</p>	CONTRIBUTION LEVEL	WEIGHTING FOR 90:10	Level One	10	Level Two	9	Level Three	6	Level Four	5	Level Five	4	Level Six	3	Level Seven	2	Level Eight	1	Non-Compliant Contributor	0
CONTRIBUTION LEVEL	WEIGHTING FOR 90:10																				
Level One	10																				
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Level Four	5																				
Level Five	4																				
Level Six	3																				
Level Seven	2																				
Level Eight	1																				
Non-Compliant Contributor	0																				
<p>C.3.13 Acceptance of Tender Offers</p>	<p>The tender offer will only be accepted if the Bidder: is registered with the Construction Industry Development Board in an appropriate contractor grading designation, refer to F.2.1; (a) or any of its directors is 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; (b) has not abused the Employer's Supply Chain Management System; (c) has met all the requirements in terms of the Mandatory Requirements; (d) has achieved the minimum threshold score on Functionality; and (e) has not failed to perform on any previous contract.</p> <p>CDC to also verify with Provincial Treasury prior to the award of contracts regarding impending restrictions in addition to verifying restrictions in the Database of Restricted Suppliers/ Central Supplier Database. In the event that there is a recommended bidder who is in the process of being restricted, the CDC will consult Provincial Treasury on the manner in which the award of such bid must be finalised.</p>																				



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APPENDIX A: FUNCTIONALITY SCORING SCHEDULES

#	FUNCTIONAL CRITERIA	SUB-CRITERIA		REQUIREMENTS FROM BIDDERS
		DESCRIPTION	MAX POINTS	
1.0	Demonstrated experience and past performance in comparable/equivalent projects executed by the Bidder – Construction and extensions to a warehouse type structure with an 11m eaves height and specialist concrete floors in a live environment while the existing facility remains operational	Experience with the construction and extensions to a warehouse type structure with an 11m eaves height and specialist concrete floors in a live environment	15	<p>This criterion covers the experience and knowledge that the Bidder has of previously completed construction projects that are comparable in terms of complexity, size, value, and construction duration. Bidders are to provide details on construction projects with the highest value that have been completed in the past 7 years. The submitted projects MUST specifically involve the construction and extensions of a warehouse type structures with an eaves height of 11m in a live environment while the existing facility remains operational.</p> <p>Bidders MUST provide appointment letters, completion certificates, performance reports (in the template provided in Annexure K), and Client completed reference letters (project scope, value, and completion date) as a PACK per completed project from the previous employer or consultants that they have worked with. Details of two (2) contactable references for each project listed are to be included with your bid submission.</p> <p>Note: Bidders must complete and submit performance reports that provide an assessment of the Bidder's past performance. Performance reports that do not show proof of past performance will not be considered in evaluating this functionality criteria.</p>
		Value of projects completed entailing construction of 11m high warehouse type structures with specialist concrete floors of comparable/equivalent projects.	10	
2.0	Proposed Construction Work Programme Completeness		10	<p>Bidders are to provide a Complete Construction Programme covering all key elements of the scope. The construction programme must align with the project duration, activities, project specifications, and project layout. The Basis of Schedule must consist of all assumptions made in delivering the schedule, time risk allowances and schedule opportunities.</p>



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#	FUNCTIONAL CRITERIA	SUB-CRITERIA		REQUIREMENTS FROM BIDDERS
		DESCRIPTION	MAX POINTS	
3.0	Demonstrate competency in providing a construction methodology for the proposed approach to the implementation of the project. The proposed Methodology must be project-specific and comprehensive.		10	<p>Bidders must provide a construction methodology for the proposed approach to the implementation of the project. The proposed Methodology must be project-specific (warehouse extension in a live environment) and comprehensive. The following MUST be included in the methodology documentation:</p> <ul style="list-style-type: none"> (1) Project-Specific Construction Approach (2) Project-Specific Risk Management Approach (3) Project-Specific Environmental Management Approach (4) Project-Specific Organogram (5) Project-Specific Safety and Security Management Approach
4.0	Quality Control System and Procedures: which ensure compliance with the standards and specifications required for delivery of the project		10	<p>Bidders are to provide documentation indicating the availability of a quality management system or quality management plan that will be utilised for this project.</p> <p>The Bidders must demonstrate that the system is functional and is being utilised by the bidder and that on this project it will adequately fulfil the required quality assurance standards specific to the project scope. For a 100% score, bidders must demonstrate ISO accreditation, such as ISO 9001:2015</p>
5.0	Locally based service providers from the targeted areas as follows		10	<p>The bidders must submit proof of office establishment as evidence to demonstrate locality. The evidence required should be in the form of a Title Deed in the name of the Bidder, a Valid signed Lease Agreement in the name of the Bidder (the landlord's contact number and e-mail address visible), a Municipal account not older than 3 months in the name of the Bidder, or a Municipal Billing Clearance Certificate in the name of the Bidder.</p> <p>Failure to submit sufficient proof of occupancy will render the bid non-responsive. Please note: CSD, CIPC registration documents, Letterheads, Search engines, Statements, etc. will not be considered as proof of office space.</p>
6.0	Sub-contracting with QSEs/ EMES within the targeted areas		10	<p>The bidders are to provide Form K2 – completed and signed – indicating their commitment to the Contract Participation Goal (in %) and rand-values for sub-contracting to EMEs/ QSEs.</p>



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#	FUNCTIONAL CRITERIA	SUB-CRITERIA		REQUIREMENTS FROM BIDDERS
		DESCRIPTION	MAX POINTS	
7.0	Qualifications, competency	Contracts Manager	5	<p>The bidders are to provide information that covers the level of qualifications, and competency (Specific to the Contracts Manager, Site Agent). Bidders must provide copies of qualifications. If no copies of qualifications are supplied, no score will be allocated.</p> <p>Please note below:</p> <p>NQF 6: National Diploma and Advanced Certificate in the Built Environment</p> <p>NQF 7: Bachelor's Degree, Advanced Diplomas, Post Graduate Certificates and Bachelor of Technology in the Built Environment</p> <p>NQF 8: Honour's Degree, Post Graduate Diploma in the Built Environment</p> <p>NQF 9: Master's Degree in the Built Environment</p> <p>NQF 10: Doctor's Degree in the Built Environment</p>
		Site Agent	5	
8.0	Experience of the Key Personnel ¹ that will be available to manage the execution of the project (as listed in the returnable sheet T2.1.3).	Contracts Manager	5	<p>The bidders are to provide information that covers the level of experience, and the positions held by the key staff /personnel (Specific to the Contracts Manager, Site Agent, and Construction Supervisor).</p> <p>Bidders to provide copies of CVs. CVs to make specific reference to relevant experience and position held in the construction of bulk distribution pipelines.</p> <p>Bidders to note: Only Candidates listed in the returnable sheet T2.1.3 documentation will be evaluated.</p>
		Site Agent	5	
		Construction Supervisor	5	

¹See **IMPORTANT NOTES** below regarding Key Personnel.

A maximum of **100 evaluation points** will be awarded in respect of functionality scoring.

A **minimum of 70 points** of the total number of points will be required to be considered further.

- **Key personnel** will be expected to be available for all site and other meetings (co-ordination and technical meetings) as the exigencies of this project require.
- Should it become necessary to replace or supplement any of the key personnel listed in the course of this contract, they may only be replaced by individuals with similar or better qualifications and experience, who satisfy the minimum requirements and then only with the approval of the Employer.
- Details of the key personnel proposed for this project must be included in **Form C (T2.1.3): Proposed Key Personnel (T2 Returnable Documents)**.



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T1.2.2 INDICATORS FOR THE SCORING OF FUNCTIONALITY CRITERIA A2

#	FUNCTIONALITY CRITERIA	EVALUATION INDICATORS				
		NO RESPONSE (0%)	POOR (25%)	SATISFACTORY (50%)	GOOD (75%)	VERY GOOD (100%)
1.0	Demonstrated experience and past performance in comparable/equivalent projects executed by the Bidder – Construction and extensions to a warehouse type structure with an 11m eaves height and specialist concrete floors in a live environment while the existing facility remains operational (General Building – GB classification)	Failed to provide relevant information that meets the criteria.	1 Completed Project Of a warehouse type structure with a 11m eaves height in a live environment completed in the last 7 years.	2 Completed projects Of a warehouse type structure with a 11m eaves height in a live environment completed in the last 7 years.	3 Completed projects Of a warehouse type structure with a 11m eaves height in a live environment completed in the last 7 years.	More than 3 Completed projects Of a warehouse type structure with a 11m eaves height in a live environment completed in the last 7 years.
		Failed to provide relevant information that meets the criteria.	Value of one (1) project completed in the last 7 years less than R9 million (incl. VAT)	Value of one (1) project completed in the last 7 years of R9 million (incl. VAT) or more.	Value of two (2) projects completed in the last 7 years of R9 million (incl. VAT) or more per single value of project.	More than two (2) projects completed in the last 7 years of R9 million (incl. VAT) or more per single value of project.
2.0	Proposed Construction Work Programme Completeness	Failed to provide relevant information that meets the criteria.	Construction Works Programme is not complete, missing some key scope. Furthermore, the schedule submitted omits important tasks and/or the timing of the activities are inadequate and the correlation among the activities are inconsistent with the execution of the scope of works.	The whole project scope is covered in Construction Works Programme but missing key milestones, resources and a critical path. Furthermore, there are partial inconsistencies between timing and project deliverables for the scope of works.	The whole project scope is covered in Construction Works Programme including key milestones, resources clearly listed, and a clear critical path. Furthermore, all key tasks or activities fits the scope of works well. All activities timing and sequence are appropriate and consistent with project scope of works.	The whole project scope is covered in Construction Works Programme including completion within planned duration, key milestones including tests on completion, resources clearly listed, and a clear critical path. Furthermore, besides meeting the “Good” rating, the sequencing and timing of activities are very well defined with all key resources also listed against the activities.



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#	FUNCTIONALITY CRITERIA	EVALUATION INDICATORS				
		NO RESPONSE (0%)	POOR (25%)	SATISFACTORY (50%)	GOOD (75%)	VERY GOOD (100%)
3.0	Demonstrate Competency in providing a Construction Methodology for the proposed approach in the implementation of the project. The proposed Methodology must be project-specific and comprehensive.	Failed to provide relevant information that meets the criteria.	Bidders must provide a Construction Methodology for the proposed approach in the implementation of the project. The proposed Methodology must be project-specific and comprehensive. The approach paper must include contingency planning and management covering various aspects including construction procedures, testing methods, excavation techniques, backfilling methods and installations of equipment. The Bidder ONLY included TWO of the following (1) Project Specific Construction Approach (2) Project Specific Risk Management Plan (3) Project Specific Environmental Management Plan	Bidders must provide a Construction Methodology for the proposed approach in the implementation of the project. The proposed Methodology must be project-specific and comprehensive. The approach paper must include contingency planning and management covering various aspects including construction procedures, testing methods, excavation techniques, backfilling methods and installations of equipment. The Bidder ONLY included THREE of the following (1) Project Specific Construction Approach (2) Project Specific Risk Management Plan (3) Project Specific Environmental Management Plan	Bidders must provide a Construction Methodology for the proposed approach in the implementation of the project. The proposed Methodology must be project-specific and comprehensive. The approach paper must include contingency planning and management covering various aspects including construction procedures, testing methods, excavation techniques, backfilling methods and installations of equipment. The Bidder ONLY included FOUR of the following: (1) Project Specific Construction Approach (2) Project Specific Risk Management Plan (3) Project Specific Environmental Management Plan	Bidders must provide a Construction Methodology for the proposed approach in the implementation of the project. The proposed Methodology must be project-specific and comprehensive. The approach paper must include contingency planning and management covering various aspects including construction procedures, testing methods, excavation techniques, backfilling methods and installations of equipment. The Bidder included ALL the following (1) Project Specific Construction Approach (2) Project Specific Risk Management Plan (3) Project Specific Environmental Management Plan



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#	FUNCTIONALITY CRITERIA	EVALUATION INDICATORS				
		NO RESPONSE (0%)	POOR (25%)	SATISFACTORY (50%)	GOOD (75%)	VERY GOOD (100%)
			(4) Project Specific Organogram (5) Project-Specific Safety and Security Management Plan	(4) Project Specific Organogram (5) Project-Specific Safety and Security Management Plan	(4) Project Specific Organogram (5) Project-Specific Safety and Security Management Plan	(4) Project Specific Organogram (5) Project-Specific Safety and Security Management Plan
4.0	Quality Control System and Procedures which ensure compliance with the standards and specifications required for delivery of the project	Failed to provide relevant information that meets the criteria.	Documented Quality Management System is available, utilized and not audited.	Documented Quality Management System is available, utilized and audited internally. Proof of internal audit is required.	Documented system / Quality Management Plan is available and proof to be supplied that the system is audited internally & externally, and quality control plan is specific to this project. Proof of external audit is required.	Documented Quality Management System is available, utilized and audited internally. Proof of the audit is required. The Contractor has attached his ISO 9001 accreditation.
5.0	Locally based Service Providers.	Failed to provide relevant information that meets the criteria.	Outside of the Eastern Cape Province	The bidder is based within the Eastern Cape Province	The bidder is based within the Sarah Baartman District Municipality	The bidder is based within the Nelson Mandela Bay Municipality Metropolitan area.



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			NO RESPONSE (0%)	POOR (25%)	SATISFACTORY (50%)	GOOD (75%)	VERY GOOD (100%)
6.0	Commitment to sub-contracting with QSEs/ EMEs within the targeted area.		No Commitment to sub-contracting to QSEs / EMEs or Failed to complete Form K2	Commitment to sub-contracting less than 35% to QSEs / EMEs (Percentage confirmed on Form K2)	Commitment to sub-contracting 35% to QSEs/ EMEs (Percentage confirmed on Form K2)	Commitment to sub-contracting more than 35% up to 37% QSEs/ EMEs (Percentage confirmed on Form K2)	Commitment to sub-contracting more than 37% but not more than 39% to QSEs / EMEs (Percentage confirmed on Form K2)
7.0	Qualifications of the key staff/personnel who will be available to manage the execution of the project. Note that these scores will be applied to each required individual before the application of the weighting factor.	Contracts Manager	Failed to provide relevant information that meets the criteria.	National Diploma / NQF Level 6 Certificate in the built environment	National Diploma / NQF Level 6 Certificate in the built environment and a registration with SACPCMP as a Pr. CM/CPM or ECSA registration as a Pr. Technician (Pr. Technni)	BSc / B – Tech / NQF Level 7 Certificate in the built environment and a registration with SACPCMP as a Pr. CM/CPM or ECSA registration as a Pr. Engineer (Pr. Eng) or Pr. Technologist (Pr. Tech. Eng)	Honours / NQF Level 8 in the built environment and a registration with SACPCMP as a Pr. CM/CPM or ECSA registration as a Pr. Engineer (Pr. Eng) or Pr. Technologist (Pr. Tech. Eng)



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#	FUNCTIONALITY CRITERIA		EVALUATION INDICATORS				
			NO RESPONSE (0%)	POOR (25%)	SATISFACTORY (50%)	GOOD (75%)	VERY GOOD (100%)
		Site Agent		Short courses in the built environment – Certificate of attendance	National Diploma/ NQF Level 6 Certificate in the built environment.	National diploma/ NQF Level 6 Certificate in the built environment and a registration with SACPCMP as Pr. CM/CPM or ECSA registration as Pr. Technician (Pr. Technni)	BSc / B-Tech/ NQF Level 7 in the built environment and a registration with SACPCMP as Pr. CM/CPM or ECSA registration as Pr. Engineer (Pr. Eng) or Pr. Technologist (Pr. Tech. Eng)
8.0	Experience of the key staff personnel that will be available to manage the execution of the project – (Averaged score for the Contracts Manager, Site Agent, Construction Supervisor)	Contracts Manager	Failed to provide relevant information that meets the criteria.	Less than 5 years relevant experience in the position including at least 2 projects but less than 3 projects completed as stated in Section 1	5 to 10 years relevant experience in the position including 3 projects completed as stated in Section 1	10 years or more relevant experience in the position including 4 projects completed as stated in Section 1	10 years or more relevant experience in the position including more than 4 projects completed as stated in Section 1
		Site Agent		Less than 5 years relevant experience in the position including at least 2 projects but less than 3 projects completed as stated in Section 1	5 to 10 years relevant experience in the position including 3 projects completed as stated in Section 1	5 to 10 years relevant experience in the position including 4 projects completed as stated in Section	10 years or more relevant experience in the position including more than 4 projects completed as stated in Section 1



**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

#	FUNCTIONALITY CRITERIA		EVALUATION INDICATORS				
			NO RESPONSE (0%)	POOR (25%)	SATISFACTORY (50%)	GOOD (75%)	VERY GOOD (100%)
		Construction Supervisor		Less than 5 years relevant experience in the position including at least 2 projects but less than 3 projects completed as stated in Section 1	5 to 10 years relevant experience in the position including 3 projects completed as stated in Section 1	5 to 10 years relevant experience in the position including 4 projects completed as stated in Section 1	10 years or more relevant experience in the position including more than 4 projects completed as stated in Section 1

Note - Failure of bidders to reach a minimum score of 70 points the bidder will not be considered for further evaluation.

**Construction of Logistics Warehouse Extension
In Zone 1 of the Coega SEZ****EXPERIENCE OF KEY PERSONNEL**

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

Should any personnel change from the tender submission, their CV must be submitted and approved by the Employer's Representative and it shall be a like-for-like candidate or better.

- 1) General experience (total duration of professional activity), level of education, training, and positions held by 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 bidder considers pertinent to the project e.g. local conditions, affected communities, legislation, techniques etc.

Note to Bidder:

A CV shall be attached to this schedule of not more than 2 pages for the

- **Contracts Manager**
- **Site Agent**
- **Construction Supervisor**

Refer to the CDC SMME Specification for requirements of the SMME Construction Mentor.

Should more than one CV be included for Key Personnel positions, the most responsive CV will be evaluated.

The Bidder shall ensure that each CV is signed by the person nominated for the key staff position and that all the information provided is true. Any inconsistency in the information provided will lead to the conclusion that the person nominated is not suitably qualified for the position or did not submit their CV and will be scored **ZERO** points.

**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**
EXPERIENCE AND QUALIFICATIONS OF CONTRACTS MANAGER

Personal Particulars				
Full Name and Surname:				
ID/ Passport No.				
Age				
Tendered Post:				
Name of Professional Institution/s Registered With:				
Professional Registration Number:				
Qualifications (Copies of all relevant qualifications and registrations must be attached to this form)				
Education / Qualifications:		Year Obtained:	Institution:	
Overview of Experience				
Date	Organisation		Position Held	
Outline of Relevant Experience				
Start (MM/YYYY)	End (MM/YYYY)	Client, Contract Title & Detailed Description of Contract (Pressurised pipelines Dimensions, i.e.: diameter / length)	Capacity (Ø, km)	Client and Engineer Reference & Contact

NOTE:
Client Implies: Coega Development Corporation.
Make additional copies of this form if required for additional projects.



**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

Declaration by nominee for key staff position above:

I, the undersigned, declare that all the information provided above and in the forms that follow correctly describes me and my experience.

I, the undersigned, do hereby agree to present myself for an interview with the Client or a representative of the Client should further clarity be required on the information provided herein.

NAME.....

SIGNATURE DATE:
(of the person named on this form)

Note to Bidder:

The Bidder shall ensure that this form is signed by the person nominated for the above key staff position and that all the information provided is true. Any inconsistency in the information provided will lead to the conclusion that the person nominated is not suitably qualified for the position and NO points will be awarded. Should this key staff member not be available for deployment to this contract upon award, only approved candidates with similar or better credentials will be considered by the employer.

SIGNATURE DATE:

**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**
EXPERIENCE AND QUALIFICATIONS OF SITE AGENT

Personal Particulars				
Full Name and Surname:				
ID/ Passport No.				
Age				
Tendered Post:				
Name of Professional Institution/s Registered With:				
Professional Registration Number:				
Qualifications (Copies of all relevant qualifications and registrations must be attached to this form)				
Education / Qualifications:		Year Obtained:	Institution:	
Overview of Experience				
Date	Organisation		Position Held	
Outline of Relevant Experience				
Start (MM/YYYY)	End (MM/YYYY)	Client, Contract Title & Detailed Description of Contract (Pressurised pipelines Dimensions, i.e.: diameter / length)	Capacity (Ø, km)	Client and Engineer Reference & Contact

NOTE:
Client Implies: Coega Development Corporation.
Make additional copies of this form if required for additional projects.



**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

Declaration by nominee for key staff position above:

I, the undersigned, declare that all the information provided above and in the forms that follow correctly describes me and my experience.

I, the undersigned do hereby agree to present myself for an interview with the Client or a representative of the Client should further clarity be required on the information provided herein.

NAME.....

SIGNATURE DATE:
(of the person named on this form)

Note to Bidder:

The Bidder shall ensure that this form is signed by the person nominated for the above key staff position and that all the information provided is true. Any inconsistency in the information provided will lead to the conclusion that the person nominated is not suitably qualified for the position and NO points will be awarded. Should this key staff member not be available for deployment to this contract upon award, only approved candidates with similar or better credentials will be considered by the employer.

SIGNATURE DATE:



**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

EXPERIENCE OF CONSTRUCTION SUPERVISOR

Personal Particulars				
Full Name and Surname:				
ID/ Passport No.				
Age				
Tendered Post:				
Overview of Experience				
Date	Organisation		Position Held	
Outline of Relevant Experience				
Start (MM/YYYY)	End (MM/YYYY)	Client, Contract Title & Detailed Description of Contract (Pressurised pipelines Dimensions, i.e.: diameter / length)	Capacity (Ø, km)	Client and Engineer Reference & Contact

NOTE:
 Client Implies: Coega Development Corporation.
 Make additional copies of this form if required for additional projects.

**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

Declaration by nominee for key staff position above:

I, the undersigned, declare that all the information provided above and in the forms that follow correctly describes me and my experience.

I, the undersigned do hereby agree to present myself for an interview with the Client or a representative of the Client should further clarity be required on the information provided herein.

NAME.....

SIGNATURE DATE:
(of the person named on this form)

Note to Bidder:

The Bidder shall ensure that this form is signed by the person nominated for the above key staff position and that all the information provided is true. Any inconsistency in the information provided will lead to the conclusion that the person nominated is not suitably qualified for the position and NO points will be awarded. Should this key staff member not be available for deployment to this contract upon award, only approved candidates with similar or better credentials will be considered by the employer.

SIGNATURE DATE:

**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

EXPERIENCE OF SMME MENTOR

Personal Particulars			
Full Name and Surname:			
ID/ Passport No.			
Age			
Tendered Post:			
Overview of Experience			
Date	Organisation		Position Held
Outline of Relevant Experience			
Start (MM/YYYY)	End (MM/YYYY)	Client, Contract Title & Detailed Description of Contract	Client and Engineer Reference & Contact

NOTE:
 Client Implies: Coega Development Corporation.
 Make additional copies of this form if required for additional projects.

**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

Declaration by nominee for key staff position above:

I, the undersigned, declare that all the information provided above and in the forms that follow correctly describes me and my experience.

I, the undersigned do hereby agree to present myself for an interview with the Client or a representative of the Client should further clarity be required on the information provided herein.

NAME.....

SIGNATURE DATE:
(of the person named on this form)

Note to Bidder:

The Bidder shall ensure that this form is signed by the person nominated for the above key staff position and that all the information provided is true. Any inconsistency in the information provided will lead to the conclusion that the person nominated is not suitably qualified for the position and NO points will be awarded. Should this key staff member not be available for deployment to this contract upon award, only approved candidates with similar or better credentials will be considered by the employer.

SIGNATURE DATE:

**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

PART T2: RETURNABLE DOCUMENTS

**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**
T2.1.1 FORM A: AUTHORITY FOR SIGNATORY

Indicate the status of the bidder by ticking the appropriate box hereunder. The bidder must complete the certificate set out below for the relevant category.

A Company	B Partnership	C Joint Venture	D Sole Proprietor	E Close Corporation

A. Certificate for Company

I,, chairperson of the board of, hereby confirm that by resolution of the board (copy attached) taken on 20....., Mr/Ms acting in the capacity of, was authorised to sign all documents in connection with this tender for **Contract No. CDC/215/26** and any contract resulting from it on behalf of the company.

As witnesses:

1. Chairman:
2. Date:

B. Certificate for Partnership

We, the undersigned, being the key partners in the business trading as,
....., hereby authorise Mr/Ms
....., acting in the capacity of
....., to sign all documents in connection with this tender for **Contract No. CDC/215/26** and any contract resulting from it on our behalf.

Name	Address	Signature	Date

Note: This certificate is to be completed and signed by all key partners upon whom rests the direction of the affairs of the Partnership as a whole.

**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

C. Certificate for Joint Venture

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorise

Mr/Ms, authorised signatory of the company, acting in the capacity of lead partner, to sign all documents in connection with this tender for **Contract No. CDC/215/26** and any contract resulting from it on our behalf.

This authorisation is evidenced by the attached power of attorney signed by legally authorised signatories of all the partners to the Joint Venture.

Name of Firm	Address	Authorising and Capacity	Name	Authorising Signature
Lead Partner:				

D. Certificate for Sole Proprietor

I,, hereby confirm that I am the sole owner of the business trading as

As witnesses:

1.

Sole Owner:

2.

Date:

E. Certificate for Close Corporation

We, the undersigned, being the key members in the business trading as, hereby authorise Mr/Ms acting in the capacity of, to sign all documents in connection with this tender for **Contract No. CDC/215/26** and any contract resulting from it on our behalf.

Name	Address	Signature	Date

Note: This certificate is to be completed and signed by all key partners upon whom rests the direction of the affairs of the Partnership as a whole.

**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

T2.1.3 FORM C: PROPOSED KEY PERSONNEL

The Bidder shall list below the key personnel, whom they propose to employ on the contract should their offer be accepted, both at their headquarters and on the Site, to direct and for the execution of the work, together with their qualifications, experience, positions held, and their nationalities. The bidder shall submit a current **curriculum vitae** in respect of each key person and an **Organogram**. Failure to complete this Schedule may result in the Tender not being considered.

LOCATION	DESIGNATION	NAME AND NATIONALITY OF: (i) NOMINEE	SUMMARY OF QUALIFICATIONS, EXPERIENCE AND PRESENT OCCUPATION	SIGN FOR CONSENT
HEAD OFFICE	Partner/Director			
	Contracts Director			
	Other key staff (Give designation)			
SITE OFFICE	Contracts Manager			
	Site Agent (Civil)			
	Construction Supervisor			
	SMME Mentor			
	Health and Safety Officer			
	Operators			
	Other key staff (Give designation)			

Number of sheets, appended by the bidder to this Schedule (If nil, enter NIL).

**** CVs shall be provided for these personnel**

Should any personnel change from the tender submission, their CV must be submitted and approved by the Employers Representative and it shall be a like-for-like candidate or better.

SIGNATURE:
(person authorised to sign on behalf of the Bidder)

DATE:

**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

CONTRACTORS PLANT AND EQUIPMENT ON ORDER (State details of arrangements made)

DESCRIPTION, SIZE, CAPACITY	NUMBER

CONTRACTOR'S PLANT AND EQUIPMENT THAT WILL BE ACQUIRED OR HIRED

DESCRIPTION, SIZE, CAPACITY	NUMBER

Number of sheets appended by the bidder to this Schedule (If nil, enter NIL).

The Bidder 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.

SIGNATURE:
(person authorised to sign on behalf of the Bidder)

DATE:



**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

T2.1.6 FORM F: FINANCIAL REFERENCES

Financial Statements

I/We agree, if required, to furnish an audited copy of the latest set of financial statements together with my/our Directors' and Auditors' report for consideration by the Employer.

Details of the Company's Bank

I/We hereby authorise the Employer/Principal Agent to approach all or any of the following banks for the purposes of obtaining a financial reference:

DESCRIPTION OF BANK DETAIL	BANK DETAILS APPLICABLE TO BIDDER'S HEAD OFFICE
Name of Bank	
Branch Name	
Branch Code	
Street Address	
Postal Address	
Name of Manager	
Telephone Number	()
Fax Number	()
Account Number	

SIGNATURE:
(person authorised to sign on behalf of the Bidder)

DATE:.....

**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

T2.1.7 FORM G: ESTIMATED MONTHLY EXPENDITURE

The Bidder shall state below the estimated value of work to be completed every month based on his preliminary programme and his tendered unit rates.

*** The amounts for Contingencies and Contract Price Adjustment must not be included.**

MONTH	VALUE *
1	R
2	R
3	R
4	R
5	R
6	R
7	R
8	R
9	R
10	R
11	R
12	R
TOTAL	R

SIGNATURE:
(person authorised to sign on behalf of the Bidder)

DATE:

**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

T2.1.8 FORM H: DETAILS OF AMENDMENTS AND QUALIFICATIONS

AMENDMENTS AND QUALIFICATIONS

I / We herewith propose the amendments and discounts as set out in the tables below:

(a) AMENDMENTS

PAGE, CLAUSE, OR ITEM NO.	PROPOSED AMENDMENT

- [Notes: (1) Amendments to the Contract Data are not acceptable;
(2) The Bidder must give full details of all the financial implications of the amendments and qualifications in a covering letter attached to his tender.]

(b) ALTERNATIVES

PROPOSED ALTERNATIVE	DESCRIPTION OF ALTERNATIVE

- [Notes: (1) Individual alternative items that do not justify an alternative tender and an alternative offer for time for completion should be listed here.
(2) In the case of a major alternative to any part of the work, a separate Schedule of Quantities, programme, etc, and a detailed statement setting out the salient features of the proposed alternatives must accompany the tender.]



**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

(c) DISCOUNTS

ITEM ON WHICH DISCOUNT IS OFFERED	DESCRIPTION OF DISCOUNT OFFERED

[Note: The Bidder must give full details of the discounts offered in a covering letter attached to his tender, failing which, the alternative offer will be prej7udiced]

SIGNATURE:
(person authorised to sign on behalf of the Bidder)

DATE:.....

**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**
T2.1.9 FORM J: OCCUPATIONAL HEALTH AND SAFETY ACT SPECIFICATIONS
OCCUPATIONAL HEALTH AND SAFETY SPECIFICATION FOR CONSTRUCTION
ANNEXURE A

The Contractor shall submit Annexure A with the additional information in the Tender Document upon appointment.

Item No.	OHSS Requirement	OHSA Requirement	Submission Date
2.3.1	A copy of construction work permit certificate issued by the Client/Agent from Department of Labour.	CR 3 - Completed Annexure 1 of Construction Regulations 2014.	Before commencement on site.
2.3.2	A copy of acknowledgement certificate of construction work notification issued by the Department of Labour.	CR 4 - Completed Annexure 2 of Construction Regulations 2014.	Before commencement on site.
2.3.3	Assignment of competent persons to manage and supervise construction work.	All relevant appointment letters, as per OHSA and Regulations.	Before commencement on site.
2.3.4	Competency for Responsible Persons.	Proof of training records.	Before commencement on site.
2.3.5	Compensation of Occupational Injuries and Diseases Act (COIDA) 130 OF 1993.	Valid letter of good standing.	Before commencement on site.
2.3.6	Occupational Health and Safety Policy.	Health, Safety and Environmental policies.	Before Commencement on site.
2.3.7	Health and Safety Organogram.	Site organogram.	Before commencement on site.
2.3.8	Health, Safety and Environmental File.	Specifications, Risk Assessment, Plans, Method Statements, Appointments, Certificates, Registers, Records, other documents.	Within prescribed period of receipt of letter of acceptance by CDC.
2.3.9	Health & Safety Representative.	Section 17	Submit as soon as there are more than 20 employees on site.

Abbreviations:
CDC: Coega Development Corporation

CR: Construction Regulations

OHSA: Occupational Health and Safety Act and Regulations, Act (85 of 1993)

Acknowledgement:

I, _____ representing _____ Contractor / Agent have satisfied myself with the content of the Occupational Health and Safety Specification (OHSS) and shall ensure that the Contractor and his / her personnel comply with all relevant obligations in respect thereof. I furthermore have fully included in my tendered rates and prices (in the appropriate payment items provided in the Schedule of Quantities) for all resources, actions, training and any other costs required for the due fulfilment of the OHSA for the duration of the construction and defects repair period.

Signature of Contractor

Date

Signature of Agent

Date

**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

T2.1.10 FORM K2: CONTRACT PARTICIPATION GOAL: EME / QSE TARGET FORM

The CIDB Standard for Indirect Targeting is incorporated into this Contract. A Contract Participation Goal (CPG) of 35% (by value, excluding contingencies, escalation, VAT, Socio-economic deliverables, and EPWP allowances (if applicable)) is stipulated in this contract.

The Tenderer is to commit to targeted works that can be performed by EMEs/QSEs as subcontractors. The EME/ QSE targeted CPG must be calculated in relation to every entity involved in the project as defined in the CDC SMME Specification document. No Functionality Points will be scored for a commitment that is less than 35%.

The identification of SMME packages post-award will be done in conjunction with the CDC SMME Unit and the project team. The sourcing, procurement, appointment, mentoring, and graduating of SMMEs will be done in accordance with the CDC SMME Specification.

The overall percentage in the table below will be utilised for the allocation of points in the Functionality Assessment stage of Evaluation and will be monitored during construction for compliance. Penalties may be applied for achieving less than the committed CPG %.

Please refer to Tables A1 and A2 in the Functionality section of Volume 1 of the Tender documents for the Evaluation Indicators for scoring purposes.

CONTRACT NUMBER : _____

CONTRACT DESCRIPTION : _____

PROJECT MANAGER : _____

BIDDER/S NAME : _____

I/We tender the following targets:

Exempted Micro Enterprises (EMEs) / SMMEs Participation		
Participation	% Goal Tendered	Estimated RAND Value (R)
SMME Packages committed	%	R
Overall % Contract Participation Goal	%	R

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I/We commit to achieving the above-mentioned Contract Participation Goal and to respond promptly to points of clarification regarding my/our CPGs, failing which I/we understand that my/our Tender will be deemed non-responsive on the grounds of being incomplete and not meeting the mandatory requirements as stipulated in the Tender.

Penalty on non-compliance/not achieving the committed minimum target of 35% participation

“The tenderers must allow for all costs application that they may feel be associated with the successful integration, development of and completion of SMME Contractors’ work to the approval of the Principal Agent on this project. This includes all the costs associated with the provision of an SMME Participation as stipulated on the Form K at a minimum of 35% of construction costs excluding VAT, Contingencies and Escalation”. The employer shall be entitled without prejudice to its other remedies under the contract, deduct from the contract price, as penalty calculated on the following formula

$$35\% \text{ of PV (in monetary value) } - \% \text{ AV (in monetary value)} = \text{PAV (in monetary value);}$$

where PV = Project Value,

where AV= Achieved SMME Participation Value,

where PAV = Penalty Accumulated Value

Penalty = Target @ 35% - % Achieved SMME Participation = Balance of the % not achieved (which would be the penalty for non-compliance)

Duly authorised to sign on behalf of (name of tenderer)	:	

Name of person signing	:	
------------------------	---	--

Signature	:	
-----------	---	--

Date	:	
------	---	--

**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

T2.1.11 FORM L: RECORD OF ADDENDA TO TENDER DOCUMENTS

We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:

Addenda No.	Date	Title or Details

Number of sheets appended by the bidder to this Schedule (If nil, enter NIL).

SIGNATURE:
(person authorised to sign on behalf of the Bidder)

DATE:

**Construction of Digistics Warehouse Extension
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T2.1.12 FORM M: FULFILMENT OF THE CONSTRUCTION REGULATIONS, 2014

In terms of regulation 5(1)(h) of the Construction Regulations, 2014 (hereinafter referred to as the Regulations), promulgated on 7 February 2014 in terms of Section 43 of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) the Employer shall not appoint a contractor to perform construction work unless the Contractor can satisfy the Employer that his/her firm has the necessary competencies and resources to carry out the work safely and has allowed adequately in his/her tender for the due fulfilment of all the applicable requirements of the Act and the Regulations.

1 I confirm that I am fully conversant with the Regulations and that my company has (or will acquire/procure) the necessary competencies and resources to timeously, safely and successfully comply with all of the requirements of the Regulations. (Tick)

YES	<input type="checkbox"/>
NO	<input type="checkbox"/>

2 Proposed approach to achieve compliance with the Regulations (Tick)

Own resources, competent in terms of the Regulations (refer to 3 below)	<input type="checkbox"/>
Own resources, still to be hired and/or trained (until competency is achieved)	<input type="checkbox"/>
Specialist subcontract resources (competent) - specify:	<input type="checkbox"/>

3 Provide details of proposed key persons, competent in terms of the Regulations, who will form part of the Contract team as specified in the Regulations (CVs to be attached):

.....
.....
.....

4 Provide details of proposed training (if any) that will be undergone:

.....
.....

5 Potential key risks identified and measures for addressing risks:

.....
.....

6 I have fully included in my tendered rates and prices (in the appropriate payment items provided in the Schedule of Quantities) for all resources, actions, training and any other costs required for the due fulfilment of the Regulations for the duration of the construction and defects repair period. (Tick)

YES	<input type="checkbox"/>
NO	<input type="checkbox"/>

SIGNATURE OF PERSON(S) AUTHORISED TO SIGN THIS TENDER:

1 ID NO:

2 ID NO:

**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

T2.1.13 FORM N: JOINT VENTURE DISCLOSURE FORM

EMPLOYER: **COEGA DEVELOPMENT CORPORATION**

CONTRACT DESCRIPTION: **CONSTRUCTION OF DIGISTICS WAREHOUSE EXTENSION IN
ZONE 1 IN THE COEGA SEZ**

CONTRACT NUMBER: **CDC/215/26**

Note:

- 1) This form need not be completed for Joint Ventures which have enterprise partners.
- 2) All the information requested must be filled in the spaces provided. If additional space is required, additional sheets may be attached.
- 3) A copy of the joint venture agreement must be attached to this form. To demonstrate the targeted enterprise partner's share in the ownership, control, management responsibilities, risks and profits of the joint venture, the proposed joint venture agreement must include specific details relating to:
 - i) The contributions of capital and equipment
 - ii) Work items to be performed by the enterprise partner's own forces.
 - iii) The commitment of management, supervisory and operative personnel employed by the targeted enterprise partner to be dedicated to the performance of the Contract.
- 4) Copies of all written agreements between partners concerning the contract must be attached to this form, including those which relate to ownership options and restrictions/limits regarding ownership and control.
- 5) Each enterprise partner must complete an Enterprise Declaration Affidavit.

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In Zone 1 of the Coega SEZ**

JOINT VENTURE PARTICULARS

Name : _____

Postal address : _____

Physical address : _____

Telephone : _____ Fax : _____

IDENTITY OF EACH ENTERPRISE PARTNER

Name : _____

Postal address : _____

Physical address : _____

Telephone : _____ Fax : _____

Contact Person : _____

Name : _____

Postal address : _____

Physical address : _____

Telephone : _____ Fax : _____

Contact Person : _____

Name : _____

Postal address : _____

Physical address : _____

Telephone : _____ Fax : _____

Contact Person : _____

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**RECENT CONTRACTS EXECUTED BY PARTNERS IN THEIR OWN RIGHT OR AS PARTNERS
IN OTHER JOINT VENTURES**

Targeted Enterprise Partners

- 1. :
- 2. :
- 3. :
- 4. :
- 5. :

CONTROL AND PARTICIPATION IN THE JOINT VENTURE

(Identify by name and firm those individuals who are, or will be, responsible for, and have authority to engage in the relevant management functions and policy and decision-making, indicating any limitations in their authority e.g. co-signature requirements and Rand limits).

(Continue on next page)

CONTROL AND STRUCTURE OF THE JOINT VENTURE

Briefly describe the manner in which the Joint Venture is structured and controlled.

The undersigned warrants that he/she is duly authorised to sign this Joint Venture Disclosure Form and affirms that the foregoing statements are correct and include all material information necessary to identify and explain the terms and operations of the Joint Venture and the intended participation of each partner in the undertaking



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The undersigned further covenants and agrees to provide the Employer with complete and accurate information regarding actual Joint Venture work and the payment therefore, and any proposed changes in any provisions of the Joint Venture agreement, and to permit the audit and examination of the books, records and files of the Joint Venture, or those of each partner relevant to the Joint Venture, by duly authorized representatives of the Employer.

Signature :

Name :

Duly authorized to sign on behalf of :

Address: :

Telephone :

Fax :

Date :



**Construction of Digistics Warehouse Extension
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T2.1.14 FORM O: BBBEE PREFERENCING

The Bidder shall attach to this page a certified copy of the BBBEE Validation Certificate issued by an accredited Verification Agency and/or financial statement in case of an EME/SMME.

In the case of Joint Ventures (JV), each JV partner must submit their BBBEE Validation Certificate.

Certified Copy attached

Yes	No

The Bidder shall attach to this page a copy of their CIDB Registration Certificate.

In the case of Joint Ventures (JV), each JV partner must submit their CIDB Registration Certificate.

Copy attached

Yes	No

SIGNATURE:
(person authorised to sign on behalf of the Bidder)

DATE:



**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

T2.1.15 FORM P: PRELIMINARY PROGRAMME AND METHOD STATEMENT

(FOR TENDER ADJUDICATION PURPOSES ONLY)

The Bidder shall attach a preliminary programme and indicative method statements to this schedule.

This programme shall be in the form of a bar chart (Gantt chart) or similar acceptable time/activity form reflecting the proposed sequence and tempo of the various activities and the quantities that will be carried out every week under each of the elements, comprising the work for this contract. The working hours shall be indicated.

Should the bidder be able to complete the work in a shorter timer period, please indicate this in the cover letter.

The indicative method statements shall cover the Contractor’s proposed methodology and technical approach detailing the execution of the project, which is consistent with the construction programme, listing the risk factors for the scoring of functionality.

The Bidder shall also take into account the requirements stated in the Scope of Work when drawing up the programme and considering his method statements for tender adjudication.

Details of the preliminary programme shall be appended to this Schedule.

Number of sheets appended by the bidder to this Schedule (If nil, enter NIL).

**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

T2.1.16 FORM Q: QUALITY MANAGEMENT PLAN

The Contractor shall propose and include for the methodology and pricing a comprehensive quality Management system (QMS) for the Employer’s Agent’s approval, to ensure the work is delivered without deficiencies and that the Employer’s Agent is informed and/or consulted on a daily basis on all matters relating to the quality and progress of the work. The QMS shall further be developed to include clear Quality Control Procedures (QCPs) that will outline how works will be staged and where the Employer’s Agent’s approval will be required to sign off any work, whether in full or in stages. A clear distinction is required for verification, hold points, and approvals, as may be required.

The quality management plan will be used with the preliminary programme and method statement for the scoring of functionality.

Due consideration must be given to the deliverables required to execute and complete the contract and should include but not be limited to:

Item	Document to be submitted	Attached? (Y/N)
1	ISO 9001:2000 Certification	
2	Quality Manual table of contents	
3	Quality Policy	
4	Schedule / List Quality Management System Procedures	
5	Typical Project Quality Plan	
6	Typical Data Pack Indices	

The Bidder shall attach to this form a certified copy of his ISO 9001 accreditation.

SIGNATURE:
(person authorised to sign on behalf of the Bidder)

DATE:

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SBD 4

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and/or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. BIDDER'S DECLARATION

2.1 Is the bidder, or any of its directors, trustees, shareholders, members, partners, or any person having a controlling interest in the enterprise, employed by the state?

YES/NO

2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietors, directors, trustees, shareholders, members, partners, or any person having a controlling interest in the enterprise, in the table below.

Full Name	Identity Number	Name of State institution

2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution?

YES/NO

2.2.1 If so, furnish particulars:
.....
.....

2.3 Does the bidder or any of its directors, trustees, shareholders, members, partners, or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract?

YES/NO

2.3.1 If so, furnish particulars:
.....
.....

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3 DECLARATION

I, the undersigned, (name)..... in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- 3.1 I have read and understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 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 consortium¹ will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 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 the awarding of the contract.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.6 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.

I CERTIFY THAT THE INFORMATION FURNISHED IN SECTIONS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF SECTION 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON ENHANCING COMPLIANCE, TRANSPARENCY AND ACCOUNTABILITY IN SUPPLY CHAIN MANAGEMENT SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of bidder

¹ 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.

Preference Points Claim Form in Terms of The Preferential Procurement Regulations 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1. GENERAL CONDITIONS

1.1. The following preference point systems are applicable to invitations to tender:

- a) the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included)

1.2.

- a) The applicable preference point system for this tender is the 90/10 preference point system.
- b) The 90/10 preference point system will be applicable in this tender.

1.3. Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- a) Price; and
- b) Specific Goals.

1.4. The maximum points for this tender are allocated as follows:

	POINTS
PRICE	90
Specific Goals	10
Total points for Price and Specific Goals	100

1.5. Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

1.6. The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

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2. DEFINITIONS

- (a) “**tender**” means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) “**price**” means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) “**rand value**” means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) “**tender for income-generating contracts**” means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) “**the Act**” means the Preferential Procurement Policy Framework Act, 2000 (Act No.5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES**3.1. POINTS AWARDED FOR PRICE****3.1.1. THE 90/10 PREFERENCE POINT SYSTEM**

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

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

Where:

- P_s = Points scored for price of tender under consideration
- P_t = Price of tender under consideration
- P_{min} = Price of lowest acceptable tender

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4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
 - (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
 - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

5. DECLARATION WITH REGARD TO COMPANY/FIRM

5.1. Name of company/firm:.....

5.2. Company registration number:.....

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5.3. TYPE OF COMPANY/ FIRM

- Partnership/Joint Venture / Consortium
- One-person business/sole propriety
- Close corporation
- Public Company
- Personal Liability Company
- (Pty) Limited
- Non-Profit Company
- State Owned Company

[TICK APPLICABLE BOX]

5.4. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the audit alteram partem (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution, if deemed necessary

.....	
SIGNATURE(S) OF TENDERER(S)	
SURNAME AND NAME:
DATE:
ADDRESS:

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SBD 7.1

CONTRACT FORM - PURCHASE OF GOODS/WORKS

THIS FORM MUST BE FILLED IN DUPLICATE BY BOTH THE SUCCESSFUL BIDDER (PART 1) AND THE PURCHASER (PART 2). BOTH FORMS MUST BE SIGNED IN THE ORIGINAL SO THAT THE SUCCESSFUL BIDDER AND THE PURCHASER WOULD BE IN POSSESSION OF ORIGINALLY SIGNED CONTRACTS FOR THEIR RESPECTIVE RECORDS.

PART 1 (TO BE FILLED IN BY THE BIDDER)

1. I hereby undertake to supply all or any of the goods and/or works described in the attached bidding documents to (name of institution) according to the requirements and specifications stipulated in bid number..... at the price/s quoted. My offer/s remain binding upon me and open for acceptance by the purchaser during the validity period indicated and calculated from the closing time of the bid.
2. The following documents shall be deemed to form and be read and construed as part of this agreement:
 - (i) Bidding documents, viz
 - Invitation to bid;
 - Tax clearance certificate;
 - Pricing schedule(s);
 - Technical Specification(s);
 - Preference claims for Broad-Based Black Economic Empowerment Status Level of Contribution in terms of the Preferential Procurement Regulations 2011;
 - Declaration of interest;
 - Declaration of bidder's past SCM practices;
 - Certificate of Independent Bid Determination
 - Special Conditions of Contract;
 - (ii) FIDIC Conditions of Contract for Construction 2017; and
 - (iii) Other (specify)
3. I confirm that I have satisfied myself as to the correctness and validity of my bid; that the price(s) and rate(s) quoted cover all the goods and/or works specified in the bidding documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.
4. I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this agreement as the principal liable for the due fulfilment of this contract.
5. I declare that I have no participation in any collusive practices with any bidder or any other person regarding this or any other bid.
6. I confirm that I am duly authorised to sign this contract.

NAME (PRINT)

CAPACITY

SIGNATURE

NAME OF FIRM

DATE

WITNESSES	
1
2.
DATE:

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SBD 7.1

CONTRACT FORM - PURCHASE OF GOODS/WORKS

PART 2 (TO BE FILLED IN BY THE PURCHASER)

1. I..... in my capacity as..... accept your bid under reference numberdated.....for the supply of goods/works indicated hereunder and/or further specified in the annexure(s).
2. An official order indicating delivery instructions is forthcoming.
3. I undertake to make payment for the goods/works delivered according to the terms and conditions of the contract, within 30 (thirty) days after receipt of an invoice accompanied by the delivery note.

ITEM NO.	PRICE (ALL APPLICABLE TAXES INCLUDED)	BRAND	DELIVERY PERIOD	B-BBEE STATUS LEVEL OF CONTRIBUTION	MINIMUM THRESHOLD FOR LOCAL PRODUCTION AND CONTENT (if applicable)

4. I confirm that I am duly authorised to sign this contract.

SIGNED ATON.....

NAME (PRINT)

SIGNATURE

OFFICIAL STAMP

WITNESSES

1.

2.

**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ****FORM H: PROTECTION OF PERSONAL INFORMATION: CONSENT**

The introduction of The Protection of Personal Information Act (POPIA) ensures the regulation of personal information through its entire life cycle of collection, transfer, storing and deletion.

As part of its business activities, the Coega Development Corporation (CDC) obtains and requires access to personal data from a wide range of internal and external parties, including without limitation bidders who respond to requests for proposals that are published by the CDC from time to time. The CDC confirms that it shall process the information disclosed by Bidders to evaluate and subsequently award/appoint a successful Bidder.

To comply with procurement principles set out in Section 217 of the Constitution and national procurement legislative prescripts, the names of all entities that submitted a bid, the tendered price thereof, and the subsequent award will be made public.

The CDC hereby states that it does not and will never modify, amend, or alter any personal information submitted to it by a Bidder. Unless directed to do so by an order of court, the CDC does not disclose or permit the disclosure of any personal information to any Third Party without the prior written consent of the owner of the information.

Similarly, Bidders will from time-to-time access and will be seized with information of a personal nature pertaining to the CDC. Some of the information may, because of legislative compliances be available in the public domain, whilst some is uniquely provided to bidders in pursuit of procurement or other business-related activities. In this regard, the CDC requires that Bidders who receive or have access to its personal information, process any such information in a manner compliant with the requirements of the POPIA.

AGREEMENT

1. The CDC and the Bidder (the Parties) agree and undertake that upon obtaining and having access to personal information relating to either of them, they shall always ensure that:
 - a) They process the information only for the express purpose for which it was obtained.
 - b) Information is provided only to designated and authorized personnel who require the personal information to carry out the Parties' respective obligations in terms of the Procurement processes.
 - c) They will introduce, and implement all reasonable measures to ensure the protection of all personal information from unauthorized access and/or use.
 - d) They have taken appropriate measures to safeguard the security, integrity, and authenticity of all personal information in its possession or under its control.
 - e) The Parties agree that if personal information will be processed for any other purpose other than the one for which the accessing of the information was intended, explicit written consent will be obtained prior to the execution of such reason.
 - f) The Parties shall carry out regular assessments to identify all reasonably foreseeable internal and external risks to the interception of personal information in its possession or under its control and shall implement and maintain appropriate controls in the mitigation of such risks.
2. The Parties agree that they will promptly return or destroy any personal data in their possession or control which belongs to the other Party once it no longer serves the purpose for which it was collected, subject to any legal retention requirements. The information will be destroyed in such a manner that it cannot be reconstructed to its original form, linking it to any individual or organisation.
3. Bidder's Obligations:
 - g) The Bidder is required to notify the Information Officer of CDC, in writing as soon as possible after it becomes aware of or suspects any loss, unauthorised access or unlawful use of any of the CDC's personal information.

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- h) The Bidder shall, at its own cost, promptly and without delay take all necessary steps to mitigate the extent of the loss or compromise of personal data.
- i) The Bidder shall be required to provide the CDC with details of the persons affected by the compromise and the nature and extent of the compromise, including details of the identity (if known) of the unauthorized person who may have accessed or acquired the personal data.
- j) The Bidder undertakes to co-operate with any investigation relating to security breach which is carried out by or on behalf of CDC.

On behalf of the Bidder:

.....
Signature Date

.....
Position Name of the Bidder

On behalf of the Client:

.....
Signature Date

.....
Position Name of Client Representative

**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

PART C1: AGREEMENTS AND CONTRACT DATA

**Construction of Digistics Warehouse Extension
In Zone 1 of the Coega SEZ**

C1.1 FORM OF OFFER AND ACCEPTANCE

OFFER

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a Contract for the procurement of:

CONTRACT No. CDC/215/26

CONSTRUCTION OF DIGISTICS WAREHOUSE EXTENSION IN ZONE 1 OF THE COEGA SEZ. The Bidder, identified in the Offer signature block, has examined the documents listed in the Tender Data and addenda thereto as listed in the returnable schedules, and by submitting this offer has accepted the conditions of tender.

By the representative of the bidder, deemed to be duly authorized, signing this apart of this form of offer and acceptance, the bidder offers to perform all of the obligations and liabilities of the contractor under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined according to the conditions of contract identified in the contract data.

THE OFFERED TOTAL PRICE INCLUSIVE OF VALUE ADDED TAX (VAT) IS

.....
.....
..... Rand (in words);

R..... (in figures),

This offer may be accepted by the employer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the bidder before the end of the period of validity stated in the tender data, whereupon the bidder becomes the party named as the contractor in the conditions of contract identified in the contract data.

Signature(s) _____

Name(s) _____

Capacity _____

for the Bidder _____

(Name and address of organisation)

Name and _____

signature of
witness _____

Date _____

CIDB
Registration No: _____

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ACCEPTANCE

By signing this part of this form of offer and acceptance, the employer identified below accepts the bidder's offer. In consideration thereof, the Employer shall pay the Contractor the amount due according to the Conditions of Contract identified in the contract data. Acceptance of the bidder's offer shall form an agreement, between the employer and the bidder 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 Agreements and contract data, (which includes this agreement)

Part C2 Pricing data

Part C3 Scope of work

Part C4 Site information

and drawings and documents or parts thereof, which may be incorporated by reference into Parts C1 to C4 above (including all Annexures).

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the tender schedules as well as any changes to the terms of the offer agreed by the bidder 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.

The bidder 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. Failure to fulfil any of these obligations according to those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the bidder receives one fully completed original copy of this document, including the schedule of deviations (if any). Unless the bidder (now contractor) within five working 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(s) _____

Name(s) _____

Capacity _____

for the Employer _____
(Name and address of organisation)

Name and _____

signature of _____
witness

Date _____

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C1.2 CONTRACT DATA

1.2.1 GENERAL CONDITIONS OF CONTRACT

The following standardised General Conditions of Contract shall apply and form the General Conditions of Contract:

The Conditions of Contract for Construction for Building and Engineering Works Designed by the Employer, Second Edition 2017, (FIDIC “Red Book”) issued by the International Federation of Consulting Engineers (FIDIC).

Copies of these Conditions of Contract (Red Book) may be obtained from:

The South African Institution of Civil Engineering (SAICE), Private Bag X200, Halfway House 1685,
Tel: +27 011 805 5947, Fax: +27 11 805 5971,
E-mail: civilinfo@saice.org.za.

or

Consulting Engineers South Africa (CESA)
P O Box 68482, Bryanston 2021, Johannesburg, South Africa
Balvenie Building, Kildrummy Office Park, c/o Witkoppen and Umhlanga Rd, Paulshof, Johannesburg
Tel: +27 11 463 2022
Cell: 073 422 0680
Email: [blessings@cesa.co.za](mailto: blessings@cesa.co.za)
Fax: 086 668 3539 or (011) 463 7383

The Annexes and Forms bound in the Conditions of Contract (Red Book) shall not apply and shall be replaced with the documentation bound into this tender document.

The Conditions make reference to the Appendix to Tender and Particular Conditions (contained in the Contract 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 General Conditions of Contract.

The Conditions of Contract shall be read in conjunction with the variations, amendments and additions set out in the Contract Specific Data below. Each item of data given below is cross-referenced to the clause in the FIDIC Red Book to which it mainly applies.

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1.2.2 APPENDIX TO CONDITIONS OF CONTRACT
Part 1: Contract Data Provided by the Employer:

The following contract specific data are applicable to this Contract and substitute / supplement the specific text referenced in the clause but are to be read together with the remaining un-substituted text unless the entire clause is replaced.:

FIDIC Clause	Description	Data
1.1.31	Employer	<p>The Employer is:</p> <p>Name: Coega Development Corporation (Pty) Ltd</p> <p>The address of the Employer is: Corner Alcyon and Zibuko Street Coega SEZ Zone 1 Gqeberha 6001</p>
1.1.35	Engineer	<p>The Engineer is:</p> <p>Name: Balshaw and Fogarty</p> <p>The address of the Engineer is: 111 Cape Road Mount Croix Gqeberha 6001</p> <p>Contact Person: Mr. S. Balshaw</p>
1.1.84	Time for Completion	<p>Time for Completion is 8 months from the commencement date of the Contract, including weekends, public holidays, and the annual year-end shut down period.</p> <p>Time for completion for the yard and concrete hardstand portion of the works is 5 months from the commencement date of the Contract.</p>
1.1.27	Defects Notification Period or DPN	Defects Notification Period is 12 months
1.3	Notices and Other Communications	Electronic Transmission Systems permitted are email
1.4	Law and Language	<p>Governing Law is that of the Republic of South Africa</p> <p>Ruling Language is English</p> <p>Language for Communications is English</p>



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FIDIC Clause	Description	Data
2.1	Right of Access to the Site	Right of Access to the Site is to be given immediately after the Commencement Date, subject to the Contractor's compliance with the OHS Act Construction Regulations and Environmental Requirements as specified in the relevant Annexures to this Contract.
4.2	Performance Security	Amount of Performance Security is 10% of the Accepted Contract Amount, in South African Rands, valid until the issue of the Performance Certificate. The period for submission of Performance Security is within 14 days of Commencement Date.
6.5	Working Hours	Normal Working Hours shall be from Monday to Friday between the hours of 08h00 and 17h00 and shall exclude all gazetted public holidays
8.8& 14.15 c	Delay Damages & Currencies of Payment	Delay damages for the works R10 000.00 per calendar day
8.8	Delay Damages	Maximum amount of delays damages: 10 % of the Contract Price
13.4 (b) (ii)	Provisional Sums	Percentage for adjustment of Provisional Sums is 5%
13.7	Adjustment for Changes in Cost	The amounts payable to the Contractor shall not be adjusted
14.2	Advance Payment	Advance Payment by the Employer is not permitted for this Contract
14.3 (c) (iii)	Application for Interim Payment	Percentage of Retention Money is 10% Limit of Retention Money is 5% of the Accepted Contract Amount
14.15	Currencies of Payment	The currency for all payments in terms of the Contract shall be the South African Rand
19.1	General Requirements	The Contractor shall produce all required insurances in terms of the Contract within 14 working days of the date of the Letter of Acceptance
19.2.4	Insurance against injury to Persons and Damage to Property	Supplementary/special insurance to be affected by: Contractor For sum of: Public Liability Insurance Limit of Liability of R10 million
21.1	Constitution of the DAAB	Date by which DAAB should be appointed: within 14 working days from date of receipt of written notice by one party from the other party requiring the appointment of a DAAB The DAAB shall comprise of: 1 member
21.2	Failure to Appoint DAAB Member(s)	Appointing entity: Association of Arbitrators (Southern Africa)

**Construction of Digistics Warehouse Extension
In Zone 1 of the SEZ**
Particular Conditions

The Particular Conditions are:

Clause No	Description
Sub-Clause 1.1	Sub-Clause 1.1 – Definitions
1.1.10	Delete and Replace Sub-Clause 1.1.10 with the following: “Contract” means the Form of Offer and Acceptance, Contract Data, these Conditions, the Specifications, the Drawings, the Schedules and the further documents (if any), which are listed in the Form of Offer and Acceptance, and further includes drawings and documents or parts thereof, which any of the aforesaid documents incorporate by reference.
1.1.11	Delete and Replace Sub-Clause 1.1.11 with the following: “Contract Agreement” means the document entitled Form of Offer and Acceptance.
1.1.50	Delete and Replace Sub-Clause 1.1.50 with the following: “Letter of Acceptance” means that section of the Form of Offer and Acceptance called Acceptance.
1.1.51	Delete and Replace Sub-Clause 1.1.51 with the following: “Letter of Tender” means that section of the Form of Offer and Acceptance called Offer.
1.1.71	Delete and Replace Sub-Clause 1.1.71 with the following: “Schedules” means the document(s) entitled Tender Schedules, completed by the Contractor and submitted with his tender offer, as included in the Contract. Such document(s) may include data, lists and schedules of payments and/or rates and prices, and guarantees.
1.1.81	Delete and Replace Sub-Clause 1.1.81 with the following: “Tender” means that section of the Form of Offer and Acceptance called Offer and all other documents which the Contractor submitted as Returnable Documents, as included in the Contract.
1.1.31	Add the following to Sub Clause 1.1.2.2: “Employer” and “Client” shall be used interchangeably and shall be the Coega Development Corporation (Pty) Ltd
1.1.89	Add the following new definition “SMME” means small, medium and micro enterprises as defined in the Specifications.
1.1.90	Add the following new definition “The Mediator means the person, or a three persons tribunal named in the Contract, or other person(s) appointed under Sub-Clause 21.1 (Appointment of the Mediator) or Sub-Clause 21.2 (Failure to agree on the Mediator)”

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Clause No	Description
Sub-Clause 1.2	<p>Sub-Clause 1.2 – Interpretation Replace 1.2(d) and replace with: “(d) The expressions ‘written’, ‘in writing’, ‘the giving of notice’, ‘giving consent’, ‘as instructed’ or ‘at the request of’ means that hand-written, type-written, printed or electronically made communications have been given by one Party to the other so that a permanent record results. However, such notices, instructions, consents or requests are not deemed to have been delivered by virtue of their appearance in the minutes of meetings unless such minutes have been signed as a true record of the proceedings of the meeting. Verbal communications will not be legally binding unless reduced to or confirmed in writing. All additional works deemed to be variations in terms of the Contract must be given in writing and no work to be executed if not duly approved by the Employer in terms of clause 13.</p> <p>Add the following sub-sub-clause: “(k) definitions, as contained in the Occupational Health and Safety Act (Act 85 of 1993) and the Construction Regulations, 2014, have been applied to Volume 1 and Volume 2 of the Contract. These definitions have been applied for consistency, but are interchangeable on an ad-hoc basis. In particular, the following definitions are applicable:</p>
(i) (ii) (iii)	<p>“(Principal Contractor” and “the Principal Contractor” means an employer appointed by the client to perform construction work. “Client” shall mean any person for whom construction work is performed. “Contractor” shall mean a person who performs construction work.</p>
Sub-Clause 1.5	<p>Sub-Clause 1.5 – Priority of Documents Delete and Replace Sub-Clause 1.5 with the following: “The documents forming the Contract are to be taken as mutually explanatory of one another. For the purpose of interpretation, the priority of the documents shall be in accordance with the following sequence: Letter of Offer of Acceptance Appendix to Tender within the Contract Data (what Contractor Specified in his tender during the tender phase) Particular Conditions of Contract General Conditional of Contract Scope of Works Project Drawings Project Specifications (Specials) Standard Specifications Standard Drawings Schedule and any other documents forming part of the Contract (SoQ’s) If an ambiguity or discrepancy is found in the documents, the Engineer shall issue any necessary clarification or instruction.”</p>
Sub-Clause 1.6	<p>Sub-Clause 1.6 – Contract Agreement Delete “within 35 days after the Contractor receives the Letter of Acceptance” in the first line and replace with “on the date of issue of the Letter of Acceptance”.</p>

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Clause No	Description
Sub-Clause 1.8	<p>Sub-Clause 1.8 – Care and Supply of Documents In the second line of the first paragraph, replace “two copies” with “a single copy”.</p>
Sub-Clause 2.4	<p>Sub-Clause 2.4 – Employer’s Financial Arrangements Add the following subclause: “The Employer will provide such financial arrangements in the form of a written confirmation letter that funding is available for this Contract”.</p>
Sub-Clause 3.2	<p>Sub-Clause 3.2 – Engineer’s Duties and Authority Add the following at the end of paragraph three and delete paragraph 4: “The Engineer shall obtain the specific approval of the Employer for the execution of the following functions or duties and the Contractor shall not proceed with any such additional works until the Employer has duly approved and physically signed a variation order, the Contractor should insist on such a signed copy of such a variation order before commencement of any additional works. The issuing of a Supplementary Agreement in terms of Sub-Clause 1.1.91 The award of claims in respect of extensions of time Sub-Clause 8.5 The issuing of Variation Orders, in terms of Sub-Clause 13.3. The award of claims in respect of additional costs.</p>
Sub-Clause 3.5	<p>Sub-Clause 3.5 – Engineer’s Instructions Add to the following paragraph to Sub-Clause 3.5: “Where the Engineer issues a written instruction that determines a reasonable date for the performance of a contractual obligation in terms of the Contract, and where the Principal Contractor fails to demonstrate compliance with the instruction, the following penalties will be imposed:</p> <ul style="list-style-type: none"> • If compliance is outstanding on the fifth day after the due date, an amount of R 5 000.00 is to be deducted from any amounts due to the Contractor at the next payment date. • If compliance remains outstanding there-after, a penalty amount equal to double the previous amount is to be imposed for every five days that elapse. • The maximum penalty deduction for any outstanding instruction shall be R 150 000.00 and a suspension of the Works for 48 hours. <p>The imposition of a penalty for non-compliance shall not prejudice the rights of the Client to other remedies, or relieve either party of any rights or obligations they may have in terms of the Contract.”</p> <p>Non-compliance to the following Environmental requirements will result in the application of the penalty, following an Engineer’s Instruction for corrective action as described above:</p> <ol style="list-style-type: none"> 1. Commencement of activities without submission or approval of Environmental Method statements. 2. Material failure to abide by the approved Method Statements. 3. Occupation of a no-go area, or areas within the SEZ but outside of the designated site by the Contractor, Contractor’s plant, materials, waste or spoil. 4. Uncontrolled waste material or litter on site.

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Clause No	Description
	<p>5. Uncontrolled dust, noise, effluent or other nuisance from the site that materially affects other properties or persons.</p> <p>6. Non-compliance to the following Environmental requirements will result in the application of the penalty, without a specific Engineer's Instruction, as described above: Bush clearing of an area outside of the site or the areas demarcated within the approved Method Statements.</p>
Sub-Clause 3.7	<p>Sub-Clause 3.7 – Agreement or Determination Delete the first paragraph under 3.7.1 and replace with: “The Engineer shall obtain the Employer’s specific approval to give notice to both Parties of each agreement and determination, with supporting particulars. Each party shall give effect to each agreement and determination unless and until revised under Clause 20 & 21 [Claims, Disputes and Arbitration]”</p>
Sub-Clause 4.2	<p>Sub-Clause 4.2 – Performance Security Replace paragraph one of 4.2.1 with the following: “The Contractor shall deliver the Performance Security to the Client within 21 working days of the date of issue of the Letter of Acceptance, with a copy to the Engineer. The Performance Security shall be issued by a Bank or Insurance Company registered or licensed to do business in the Republic of South Africa and having an Office or Banking Facility in the Republic of South Africa and shall be subject to approval by the Client and shall be in the form prescribed in the project documents or in another form approved by the Client.”</p> <p>Add the following to the end of Sub-Clause 4.2: “The above shall apply in respect of portions of work carried out by SMME's, except that the Principal Contractor shall assume the role of Employer in respect of requiring a Performance Security from the respective SMME's.</p> <p>The conditions of reduction and return of the Performance Guarantee shall apply as detailed on Pro-Forma 1.3.”</p>
Sub-Clause 4.3	<p>Sub-Clause 4.3 – Contractor’s Representative Add the following to the end of Sub-Clause 4.3: SMME SUB-CONTRACTORS “The Contractor shall provide a SMME construction manager for the full duration of the project.”</p>
Sub-Clause 5.1	<p>Sub-Clause 5.1 – Subcontractors Add the following to the end of Sub-Clause 5.1: “Provide for Contractor's overheads, handling charges, attendance and profit on SMME Sub-Contractors”.</p>
Sub-Clause 4.8	<p>Sub-Clause 4.8 – Health and Safety Obligations Add the following to the end of Sub-Clause 4.8: “(h) “The Client and the Contractor hereby agree, in terms of the provisions of Section 37(2) of the Occupational Health and Safety Amendment Act, 1993 (Act 85 of 1993), hereinafter referred to as the Act, that the following arrangements and procedures shall apply between them to ensure compliance by the Contractor with the provisions of the Act:</p>

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Clause No	Description
	<p>(i) The "Principal" Contractor undertakes to acquaint the appropriate officials and employees of the Contractor with all relevant provisions of the Act and the Regulations promulgated in terms of the Act.</p> <p>(ii) The Contractor undertakes that all relevant duties, obligations and prohibitions imposed in terms of the Act and Regulations on the Contractor will be fully complied with.</p> <p>(iii) The Contractor accepts sole liability for such due compliance with the relevant duties, obligations and prohibitions imposed by the Act and Regulations and expressly absolves the Client from himself being obliged to comply with any of the aforesaid duties, obligations and prohibitions, with the exception of such duties, obligations and prohibitions expressly assigned to the Client in terms of the Act and its associated Regulations.</p> <p>(iv) The Contractor agrees that any duly authorised officials of the Client shall be entitled, although not obliged, to take such steps as may be necessary to monitor that the Contractor has conformed to his undertakings as described in paragraphs (i) and (ii) above, which steps may include, but will not be limited to, the right to inspect any appropriate site or premises occupied by the Contractor, or any appropriate records or safety plans held by the Contractor.</p> <p>(v) The Contractor shall be obliged to report forthwith to the Client and Engineer any investigation, complaint or criminal charge which may arise as a consequence of the provisions of the Act and Regulations, pursuant to work performed in terms of this Contract, and shall, on written demand, provide full details in writing, to the Client and Engineer, of such investigation, complaint or criminal charge.</p> <p>(j) The Contractor shall furthermore, in compliance with Constructional Regulations 2014 to the Act:</p> <p>(i) Acquaint himself with the requirements of the Client's health and safety specification as laid down in regulation 5 (1)(b) of the Construction Regulation 2014, and prepare a suitable and sufficiently documented and coherent site specific health and safety plan as contemplated in regulation 7(1)(a) of the Construction Regulation 2014 for approval by the Client or his assigned agent. The Contractor's health and safety manual and risk assessment shall be submitted to the Client for approval within the time as stated in the Contract Data - Appendix to Tender and shall reviewed and updated by the Contractor as work progresses.</p> <p>The Client, or his assigned agent, reserves the right to conduct periodic audits, as contemplated in the Construction Regulations 2014, to ensure that the Contractor is compliant in respect of his obligations. Failure by the Contractor to comply with the requirements of these Regulations shall entitle the Engineer, at the request of the Client or his agent, to suspend all or any part of the Works, with no recourse whatsoever by the Contractor for any damages incurred as a result of such suspension, until such time that the Client or his agents are satisfied that the issues in which the Contractor has been in default have been rectified."</p>

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In Zone 1 of the SEZ**

Clause No	Description
Sub-Clause 4.9	<p>Sub-Clause 4.9 – Quality Management and Compliance Verification Systems Add the following to the end of Sub-Clause 4.9: “Where quality assurance testing is carried out by the nominated accredited testing laboratory, this testing may at the discretion of the Engineer also be taken as acceptable for Acceptance Testing.”</p>
Sub-Clause 4.16	<p>Sub-Clause 4.16 – Transport of Goods Delete item 4.16(a)</p>
Sub-Clause 4.17	<p>Sub-Clause 4.17 – Contractor’s Equipment Add the following to the end of Sub-Clause 4.17: “The Contractor shall notify the Engineer, in writing, of the names and addresses of the owners of all major items of equipment not owned by the Contractor”.</p>
Sub-Clause 4.18	<p>Sub-Clause 4.18 – Protection of the Environment In the second paragraph delete the full stop and add “and shall ensure compliance with all the environmental requirements indicated in the Standard Environmental Specification for Construction contained in the Scope of Works”.</p> <p>Environmental method statements shall be submitted to the Engineer for approval within 14 working days of the Letter of Acceptance by the Contractor as specified in the Specifications.”</p> <p>Add the following new Sub-Clause: 4.18.1 THE CONTRACTOR SHALL FURTHERMORE IN COMPLIANCE WITH ENVIRONMENTAL LEGISLATION AND SPECIFICATIONS, INCLUDING SUB-CONTRACTOR AND SMME SUB-CONTRACTORS PROVIDE FOR:</p> <ul style="list-style-type: none"> • An Environmental Officer or Responsible person to prepare and update Method Statements, conduct regular inspections, maintain records, and report to the engineer. • Compliance with Environmental Legislation and specifications. • Compliance with Environmental Legislation and specifications contractor. • Compliance with Environmental Legislation and specifications SMME sub-contractors. • Compliance with Environmental Legislation and specifications sub-contractors. • Site Occupation, Health, Safety and Environmental awareness signage. • Provision of venue and staff attendance at the environmental awareness training course. • Provide for adequate handling and storage of materials so as to minimize contamination of ground, air or water. • Provide for adequate and safe collection and disposal of waste material and effluent from site by an approved method. • Provide for safe temporary drainage of the site and works during construction. • Provide for firefighting equipment and siren. • Provide for adequate transport, handling and storage of hazardous chemical substances, flammable materials and explosives, where used and protective equipment and training for the explosive powered tools.

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Clause No	Description
	<p>Sub-Clause 4.18.1 – Protection of the Environment (Continued)</p> <ul style="list-style-type: none"> • Provide for adequate dust control measures, including regular watering of access routes. • Eating areas. • Provide for demarcation and safety of the works and temporary access by public, including other Contractors. • Provide for the rehabilitation on completion of site areas and temporary access routes not covered by construction or landscaping specifications. • Provide for plant and equipment maintenance area, if required, with adequate bunded and contained wet work area. • Provision of Environmental Method Statements. • Contractor's overheads, charges, and profit on last.
<p>Sub-Clause 4.20</p>	<p>Sub-Clause 4.20 – Progress Reports Add the following to the end of Sub-Clause 4.20: “The Contractor is to update the programme in the following manner: Each activity on the current schedule is to be progressed by recording the actual start date and the remaining duration for the activity. The remaining duration is to be assessed and adjusted in the light of expected progress slippage or gain. The entire current bar chart is to be rescheduled according to the current date of reporting such that all uncompleted activities are scheduled forward from the current date. The Contractor must fairly represent the duration of outstanding activities to calculate the current expected completion date. No shortening of outstanding durations in order to project a favorable completion date will be permitted, unless the Contractor has justified this by measures to expedite the work.</p> <p>Extension of time or other agreed changes are to be represented on the baseline bar chart such that the end date is adjusted accordingly. Comparison between the baseline and current bar chart will represent the status of the project. The difference in end dates and the gain or loss of time will be reported.</p> <p>The updated project programme, together with a written report is to be submitted to the Engineer 1 full day prior to the regular progress meetings. The Contractor must state in the written report what his expected completion date is, and what measures are being taken in order to meet the contractual completion date. The Contractor is also to report any delays that occur that are not critical, but which contribute to an erosion of float, and may therefore contribute to future delays. Failure to notify in this manner may lead to a discounting of these factors if insufficient documentation is subsequently found to exist.</p> <p>The impact of all delays suffered, from any source, must be incorporated into the current activity bars of the programme at each reporting period, either by a re- assessment of the remaining duration of the affected activity or by the insertion of any activity to represent the delay. The impact of delays suffered from which the Engineer has authorized an extension of time must be incorporated into the baseline programme by the insertion of an activity linked to the affected activities.</p> <p>The updated project programme, together with a written report is to be submitted to the Engineer 1 full day prior to the regular progress meetings. The Contractor must state in the written report what his expected completion date is, and what measures are being taken in order to meet the contractual completion date. The Contractor is also to report any delays that occur that are not critical, but which contribute to an erosion of float, and may therefore contribute to future delays. Failure to notify in this</p>



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Clause No	Description
	<p>manner may lead to a discounting of these factors if insufficient documentation is subsequently found to exist.</p> <p>The impact of all delays suffered, from any source, must be incorporated into the current activity bars of the programme at each reporting period, either by a re- assessment of the remaining duration of the affected activity or by the insertion of any activity to represent the delay.</p> <p>The impact of delays suffered from which the Engineer has authorized an extension of time must be incorporated into the baseline programme by the insertion of an activity linked to the affected activities.”</p>

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Clause No	Description
Sub-Clause 4.24	<p>Add new Sub-Clause 4.24 – Attendance on Nominated And / Or Other Contractors</p> <p>“Sub-Clause 4.24 – Attendance on Nominated And / Or Other Contractors</p> <p>The Principal Contractor shall provide General Attendance on nominated Contractors and other direct Contractors appointed by the Client including the Principal Contractor’s domestic Contractors to carry out work on or adjacent to the site during the construction period. General Attendance shall, without in any way limiting the meaning and interpretation thereof, include the following services to be rendered by the Principal Contractor:</p> <ol style="list-style-type: none"> 1) Access to the site and to places where the work is to be carried out. 2) The provision of an area for office accommodation, temporary workshops and for the storage of plant and materials. The Nominated Sub-contractor or Direct Contractor shall, at his own expense, provide and remove office accommodation, all temporary workshops, sheds or other structures required for his workmen at reasonable places on the site as the Contractor shall indicate and under the supervision of the Main Contractor. 3) The use of the site temporary services such as telephone, water and power, subject to the payment by the Contractor or Direct Contractor for all his usage and his specific reticulation. 4) Co-ordination of the work of the Contractor including the Principal Contractor’s domestic Contractors or Direct Contractor within the programme, including any intermittent work required by the Principal Contractor to allow the Contractor or Direct Contractor access to carry out his work. 5) Use of erected scaffolding <p>Special attendance, such as unloading, storing, hoisting, placing in position, providing special power supplies, specific scaffolding requirements, provision of temporary casing and/or other specific protection of the works, special security and removal of rubbish will be detailed separately in each case where required.”</p>
Sub-Clause 4.25	<p>Add new Sub-Clause 4.25 Early Warning</p> <p>The Contractor must give to the Employer an early warning by notifying the Employer as soon as the Contractor becomes aware of any matter which could increase the Contract Price, delay completion, change the accepted programme, delay the Time for Completion, impair the usefulness of the Works to the Employer or affect the work of any Subcontractor.</p> <p>The Contractor must attend a risk reduction meeting with the Engineer to discuss the early warning and to co-operate in finding a means to reduce the risk of the matter in respect of which the early warning has been given.</p> <p>At the risk reduction meeting the Contractor must co-operate in:</p> <ol style="list-style-type: none"> a. making and considering proposals for how the effect of the matter in respect of which the early warning has been given can be avoided or reduced; b. seeking solutions that will bring advantage to those who will be affected; c. decide on the actions that will be taken and who will take them; <p>Add new Sub-Clause 4.25 Early Warning (Continued)</p> <ol style="list-style-type: none"> d. co-operate with the Engineer to find a reasonable solution to any

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Clause No	Description
	<p>difficulties that arise from working on the Site with other contractors to achieve the aim of the Employer to complete the Project on budget and in accordance with the Project programme.</p>
Sub-Clause 5.2.4	<p>Sub-Clause 5.2.4 – Evidence of Payments</p> <p>Add the following new paragraph: Before issuing a Payment Certificate which includes an amount payable to a Small, Medium and Micro Enterprise (SMME) that is contracted to the Principal Contractor in a Domestic Contractor Relationship, the Engineer may request the Principal Contractor to supply evidence that such SMME has received all amounts due in accordance with previous payment certificates.”</p>
Sub-Clause 6.1	<p>Sub-Clause 6.1 – Engagement of Staff and Labour</p> <p>Add the following new paragraph: “The Principal Contractor shall engage all “non-core” labour from the Client’s database of labour and via the Labour Management Services Processes as contained in the contract tender documentation.”</p> <p>Add the following new Sub-clauses: COMPLIANCE WITH LABOUR MANAGEMENT REGULATIONS AND INDUSTRIAL RELATIONS POLICY</p> <p>6.1.1 'The Contractor shall provide for the appointment of an Industrial Relations Co-Ordinator for the full duration of the contract and for involvement in Zone IR Co-ordinating Committee as described in Annexure H attached to these Bills of Quantities.</p> <p>6.1.2 'The Contractor shall provide for the daily appropriate transport of workers from pickup points near public transport drop off zones, and from Construction Village and return for the full duration of the contract as described in Annexure H attached to these Bills of Quantities.</p> <p>6.1.3 'The Contractor shall provide for return bus transport for long weekends for qualifying seconded hourly paid employees for the full duration of the contract as described in Annexures H attached to these Bills of Quantities.</p> <p>6.1.4 'The Contractor shall provide for bus transport for qualifying seconded hourly paid employees for the full duration of the contract as described in Annexure H attached to these Bills of Quantities.</p> <p>6.1.5 'The Contractor shall provide for accommodation and full board for qualifying seconded employees in the Construction Village as described in Annexure H attached to these Bills of Quantities.</p> <p>6.1.6 'The Contractor shall provide site transport on request of shop stewards, during normal working hours as described in Annexures H attached to these Bills of Quantities.</p> <p>6.1.7 'The Contractor shall provide for lost time and transport for scheduled long weekends as described in Annexures H attached to these Bills of Quantities</p> <p>6.1.8 'The Contractor shall provide for lost time for worker attendance at SEZ induction, Environmental Awareness Course, Learnerships, Skills</p>

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Clause No	Description
	<p>Training and HIV/AIDS programs as described in Annexures H attached to these Bills of Quantities.</p> <p>6.1.9 'The Contractor shall provide venues and facilities for Environmental Awareness Course attendance by workers and staff as described in Annexures H attached to these Bills of Quantities.</p> <p>6.1.10 'The Contractor shall provide for the implementation of an approved HIV/AIDS program, including STI and TB awareness as described in Annexures H attached to these Bills of Quantities.</p> <p>6.1.11 'The Contractor shall provide R 0,33 per man hour worked for the contracts IR Co-ordinator costs, which will be billed through the Wage Bureau.</p> <p>6.1.12 'The Contractor shall provide all associated costs in respect of Coega HCS Labour Management Procedural requirements.</p>
Sub-Clause 6.2	<p>Sub-Clause 6.2 Rates of Wages and Conditions of Labour Add the following new sub clauses: COMPLIANCE WITH LABOUR MANAGEMENT REGULATIONS AND INDUSTRIAL RELATIONS POLICY</p> <p>6.2.1 'The Contractor shall provide for the payment of wages for the full duration of the contract via the CDC contracted Wage Bureau as described in Annexures H attached to these Bills of Quantities.</p> <p>6.2.2 'The contractor shall provide for the administration of payment to seconded hourly paid employees for the full duration of the contract via the CDC contracted Wage Bureau as described in Annexures H attached to these Bills of Quantities.</p> <p>6.2.3 'The Contractor shall provide for tool allowances for shutter hands Grades 1, 2 & 3 every 6 months for the full duration of the contract as described in Annexures H attached to these Bills of Quantities.</p> <p>6.2.4 'The Contractor shall provide for a Zone Bonus upon demobilization, for all hourly paid employees employed on the Site as described in Annexures H attached to these Bills of Quantities.</p> <p>6.2.5 'The Contractor shall provide for a Limited Duration Contract Employee's Completion Benefit upon operational requirement demobilization, for all hourly paid employees employed on the Site as described in Annexures H attached to these Bills of Quantities.</p> <p>6.2.6 'The Contractor shall provide for learnerships and training.'</p> <p>6.2.7 'The Contractor shall provide for annual leave, annual bonus and sick leave payments for workers.'</p> <p>6.2.8 'The Contractor shall provide for SEZ attendance bonus.</p>
Sub-Clause 6.11	<p>Sub-Clause 6.11 – Disorderly Conduct Delete the full stop and add the following: “and shall indemnify and hold the Client and Engineer harmless against and from all damage, losses and expenses (including legal fees and expenses) resulting from any unlawful, riotous or disorderly conduct by or amongst the Contractor’s Personnel”.</p>

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Clause No	Description
Sub-Clause 8.1	<p>Sub-Clause 8.1 – Commencement of Work</p> <p>(i) Replace paragraph one with “The Commencement of Works shall be the lesser of 28 days after approval by the Client of the Contractor’s health and safety manual and environmental method statements, or 42 days after the date of delivery of the Letter of Acceptance.”</p> <p>(ii) In the second line, of the second paragraph, between 'Date', and 'and', insert 'but within the period stated in the Appendix to Tender subject to the Contractor having an approved project specific health and safety plan in terms of the Occupational Health and Safety Act 1993: Construction Regulations 2014 and complied with the initial requirements thereof and environmental method statements.”</p>
Sub-Clause 8.3	<p>Sub-Clause 8.3 – Programme</p> <p>Add the following after Sub-Clause 8.3 (k) (v)</p> <p>(l) “A baseline or target bar representing the initial agreed construction programme. The baseline will be frozen for the duration of the construction period, subject to agreed amendments, and will indicate the contractual completion date.</p> <p>(m) A current bar equivalent to the baseline upon commencement, but which will be subject to adjustment due to progress and other factors.</p> <p>(n) All milestone activities for all major events in the programme, including dependencies on factors external to the project, or which are to be arranged by the Engineer or Client.</p> <p>(o) All linkages between activities, to fairly represent the logic of construction. Start dates of activities should be determined by preceding activities as far as possible. Where start dates are determined by factors external to the project these are to be shown as milestones with imposed start dates and the source and reasons are to be documented.</p> <p>(p) Resourcing of major activities, where resourcing is critical to the duration.</p> <p>(q) A logical and reasonable Work Breakdown Structure for the grouping of activities.</p> <p>(r) The critical path of the programme. The critical path must be demonstrable in terms of good planning practice, and is not to be manipulated by constraints imposed on activities.</p> <p>(s) An earned value table and graph, derived from the programme, representing the projected value of work to be completed in each payment period”.</p> <p>(t) Production rates for all items. Any other information as specified in the document to be provided by the Contractor.”</p>

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Clause No	Description
Sub-Clause 8.5	<p>Sub-Clause 8.5 – Extension of Time for Completion Add the following at the end of Sub-Clause 8.5:</p> <p>To provide for these normal weather conditions the allowance to be made by the Contractor in his programme for actual and consequential weather delays will be given in the relevant table in the specifications.</p> <p>If the Contractor has been prevented by these weather conditions from working on the critical path items of the Works, he shall notify the Engineer in writing. The submission shall be made within two calendar days of the resumption of work.</p> <p>Sub-Clause 8.5 – Extension of Time for Completion (Continued) The Engineer shall upon considering all the relevant factors determine the extension of time to be granted on the basis that an extension of time to the Contract will only be granted if the total number of days (over the full contract period) upon which work on the critical path items was prevented, exceeds the total number of days calculated in terms of the above allowance and considering the Time for Completion of the Works.</p> <p>Delays over and above these allowed for (the allowance being the sum of the days allowed for over the Time for Completion of the phase in question), whether actual or consequential due to such abnormal weather which may occur, will not automatically entitle the Contractor to an extension of time for the completion of the affected phase/s.</p> <p>Only under justifiable circumstances will such extension of time be granted. Such extension will be granted at the discretion of the Engineer who shall obtain the approval of the Client.</p> <p>Application for such extension of time shall be made in writing by the Contractor to the Engineer. The application shall set out in detail the particulars of such delays”.</p>
Sub-Clause 8.8	<p>Sub-Clause 8.8 – Delay Damages After the second paragraph add the following new paragraph: “If a Taking Over Certificate has been issued for a part of the Works (other than a Section), the delay damages thereafter for completion of the remainder of the Works shall be reduced in accordance with the provisions of Sub-Clause 10.2”.</p>
Sub-Clause 11.3	<p>Sub-Clause 11.3 – Extension of Defects Notification Period Add the following new Sub-Clause: Extension of Defects Notification Period “The latent defects liability period shall commence at the Commencement of the Works and end five (5) years from the date of Time for Completion where Time for Completion in terms of 8.2 or 8.5 is achieved. Defects that appear up to the date of Time for Completion or Extended Time for Completion shall be addressed in terms of 10.1, 10.2, 8.2 and 8.5.”</p>
Sub-Clause 12.2	<p>Sub-Clause 12.2 – Method of Measurement In Sub-Clause a, between the words 'Works' and 'and' add the words: 'built into its final position in the Works'</p>

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Clause No	Description
Sub-Clause 12.3	<p>Sub-Clause 12.3 – Valuation of the Works Replace Sub-Clause 12.3(b)(i): "(b)(i) the measured quantity of the item is changed by more than 25% from the quantity of this item in the bill of quantities or other schedule" Replace Sub-Clause 12.3(b)(ii): "(b)(ii) this change in quantity multiplied by such specified rate for this item exceeds 0,1% of the Accepted Contract Amount."</p>
Sub-Clause 13.1	<p>Sub-Clause 13.1 – Right to Vary Replace the following: "Each variation will include": In Sub-Clause 13.1(i) delete the words in parenthesis and replace with "No change in the quantity of any work scheduled, where such change is not the result of a Variation Order in terms of this Sub-Clause but is the result of changes to the quantities stated in the Bill of Quantities, shall be deemed to be a Variation to which this Sub-Clause applies." Add the following after Sub-Clause 13.1(vii): "(viii) an estimated cost for the variation".</p>
Sub-Clause 13.3	<p>Sub-Clause 13.3 – Variation Procedure</p> <p>Under 13.3.1</p> <p>Delete "28 days" in the second paragraph and replace with "within a period of 14 days or such extended time as agreed by the Parties".</p> <p>Add the following new sub-clause: 13.3.3 'The Engineer shall obtain the Employer's approval before issuing an instruction to execute a Variation (herein referred to as a Variation Order) if so required by the Employers Change Control Procedure.</p> <p>Add the following new sub-clause: 13.3.4 'No expenditure shall be incurred under a Contingency Allowance without the written approval on the Employer.'</p>
Sub-Clause 13.4	<p>Sub-Clause 13.4 – Provisional Sums Amend 13.4 (b) as follow, In the third line, delete the semi-colon between the words "otherwise" and "and" and insert "and including items for which a Prime Cost Sum has been provided in the Bill of Quantities".</p>
Sub-Clause 13.5	<p>Sub-Clause 13.5 – Day work Delete the second sentence in the second paragraph and replace with: "The following procedure shall apply" Add the following after the last paragraph of this Sub-Clause: "The work shall be valued in accordance with the Day work Schedule included in the Contract or, in the absence of a Day work Schedule or for items not included in the Day work Schedule the Contractor shall be paid the aggregate of (i) the gross remuneration of the workmen and any of the foremen for the time they are actually engaged on the work concerned, (ii) the net cost of the materials actually used, (iii) the percentage allowances stated in the Appendix, which allowance shall be held to cover all charges for the Contractor's and Subcontractor's profits, timekeeping, clerical work, insurance, establishment, superintendence and the use of hand tools, and an amount in respect of Constructional Plant which shall be charged on a time basis at the rates stated in the Tender, failing which at</p>

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Clause No	Description
	<p>rates to be agreed between the Contractor and the Engineer or, failing agreement, to be determined by the Engineer on the basis of ruling plant hire rates.</p>
Sub-Clause 13.7	<p>Sub-Clause 13.7 – Adjustments for Changes in Cost Adjustments for changes in cost is not permitted in this Contract</p>
Sub-Clause 14.3	<p>Sub-Clause 14.3 – Application for Interim Payment Certificates</p> <p>(i) In 14.3 (c) delete the fourth and fifth lines “which shall include the report on the progress during the month in accordance with Sub-Clause 4.20 (ProgressReports)”</p> <p>Sub-Clause 14.3 – Application for Interim Payment Certificates (Continued)</p> <p>(ii) Add the following to paragraph (iii) of this Sub-Clause: “If, as stated in the Appendix to Tender, a Retention Money Guarantee is permitted and the Contractor elects to furnish it, the guarantee shall, at the cost of the Contractor, be executed by an Insurance Company or Bank in the form approved by the Client.</p> <p>The said Company or Bank shall be registered or licensed to do business in the Republic of South Africa and shall have an Office and Banking Facility in the Republic of South Africa and shall be subject to approval by the Client.</p> <p>The aggregate liability under the guarantee shall be the maximum amount of retention monies to be retained by the Client, which amount shall be as stated in the Appendix to Tender.</p> <p>Other conditions, if any, additional to the above standard conditions shall be as stated in the Appendix to Tender.</p> <p>The guarantee shall expire 28 days after the date on which the last of the retention monies (which, but for the guarantee, would have been retained by the Client) becomes payable to the Contractor.</p> <p>The guarantee shall be returned upon final payment of the aggregate liability or on the date of expiry, whichever is the earlier.”</p>
Sub-Clause 14.7	<p>Sub-Clause 14.7 – Payment Delete paragraphs (a), (b), (c) and the final paragraph and replace with:</p> <p>(a) “The amount certified in each interim Payment Certificate within 30 days after the Employer receives this Payment Certificate.”; and</p> <p>(b) The amount certified in the Final Payment Certificate within 30 days after the Employer receives this Payment Certificate.”</p>
Sub-Clause 14.8	<p>Sub-Clause 14.8 – Delayed Payment Delete the second paragraph and replace with: “These financing charges shall be at the rate as prescribed in terms of the Prescribed Rate of Interest Act No 55 of 1975.”</p>
Sub-Clause 14.10	<p>Sub-Clause 14.10 – Statement at Completion In the first line of the first paragraph change “84 days” to “30 days”</p>
Sub-Clause 14.11	<p>Sub-Clause 14.11 – Final Statement 14.11.1 Change “56 days” to “30 days”</p>

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Clause No	Description
Sub-Clause 16.1	Sub-Clause 16.1 – Suspension by Contractor In the second paragraph of this sub-clause change “21 days” to “14 days”.
Sub-Clause 18.1	Sub-Clause 18.1 – Exceptional Events Under (c), add the following: “unless these risks are insurable with the South African Special Risk Insurance Association at the time of tendering and it is stipulated in the Appendix to Tender that the Contractor is to effect insurance against these risks”.
Sub-Clause 19.1	Sub-Clause 19.1 – General Requirements Replace the above clause with the following: “19.1.1 Insurance Effected by the Client. 19.1.1.1 Without limiting the obligations liabilities or responsibilities of the Contractor in any way whatsoever (including but not limited to any requirement for the provision by the Contractor of any other insurances) the Client shall effect and maintain as appropriate the following insurances which are subject to the terms limits exceptions and conditions of the Policy: <ul style="list-style-type: none"> a) CONTRACT WORKS Insurance - which will provide cover against accidental physical loss of or damage to the Works, Temporary Works and materials intended for incorporation in the Works. b) SASRIA SPECIAL RISKS Insurance - in respect of riot and associated risks of damage to the Works, Temporary Works and materials intended for incorporation in the Works. c) PUBLIC LIABILITY Insurance - which will provide indemnity against legal liability of the Client or the Contractor in the event of accidental death of or injury to third party persons and/or accidental loss of or damage to third party property arising directly from the execution of the contract and occurring during the period of insurance with a limit of indemnity of not less than the amount specified in the Appendix in respect of all claims arising from any one occurrence or series of occurrences consequent on or attributable to one source or original cause. 18.1.1.2 The Client shall pay any premium due in connection with the insurance effected by the Client. 18.1.1.3 The Contractor shall not include any premium charges for this insurance except to the extent that he may deem necessary in his own interests to effect supplementary insurance to the insurance effected by the Client. The Client reserves the right to call for full information regarding insurance costs included by the Contractor. 18.1.1.4 Any further clarification of the scope of cover provided by the Policies arranged by the Client should be obtained from the Client. 18.1.1.5 In the event of any occurrence which is likely to or could give rise to a claim under the insurances arranged by the Client the Contractor shall: <ul style="list-style-type: none"> a) in addition to any statutory requirement or other requirements contained in the Contract within 24 hours notify the Client by telephone followed by written notification or telefax giving the circumstances, nature and an estimate of the loss or damage or liability complete a Claims Advice Form available from the Client to whom the form must be returned within 7 days. b) negotiate the settlement of claims with the Insurers through

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In Zone 1 of the SEZ**

Clause No	Description
	<p>the Client's Insurance Brokers and shall when required to do so obtain the Clients approval of such settlement.</p> <p>The Client and Insurers shall have the right to make all and any enquiries on the site of the Works or elsewhere as to the cause and results of any such occurrence and the Contractor shall co-operate in the carrying out of such enquiries.</p> <p>Sub-Clause 19.1 – General Requirements for Insurances (Continued)</p> <p>18.1.1.6 The Contractor will be liable for the amount of the Deductible (First Amount Payable) in respect of any claim made by or against the Contractor or Subcontractors under the insurances effected by the Client.</p> <p>Where more than one Contractor is involved in the same claim the Deductible will be borne in pro-rata amounts by each Contractor in proportion to the extent of each Contractor's admitted claim.</p> <p>The maximum Deductibles (First Amount Payable) for open trenches and road layer works claims for which Contractors are responsible and which are applicable in respect of each and every occurrence or series of occurrences attributable to one source or original cause giving rise to loss or damage or liability indemnifiable shall be as follows:</p> <p>CONTRACT WORKS (OPEN TRENCH LIMITATION) In respect of loss or damage arising in the event of a 1,000 meter long trench limitation being exceeded in respect of any one contract then the deductible shall be as follows:</p> <p>Exposed length exceeding 1,000 meters but not exceeding 2,500 meters - additional deductible 15.00% of loss; minimum R25,000.00</p> <p>Exposed length exceeding 2,500 meters but not exceeding 5,000 meters - additional deductible 15.00% of loss; minimum R50,000.00</p> <p>In respect of loss or damage to trench exposed by the Insured exceeding 5,000 meters in length the Insurers shall only be liable for amounts associated with a maximum of 5,000 meters of such exposed trench</p> <p>CONTRACT WORKS (OPEN BASE COURSE SUB-BASE COURSE OR LAYER WORKS LIMITATION)</p> <p>In respect of loss or damage arising in the event of a 10,000 square meters open base course sub-base course or layer works limitation being exceeded in respect of any one contract then the deductible shall be as follows:</p> <p>Exposed base course sub-base course or layer works exceeding 10,000 meters but not exceeding 25,000 square meters -additional deductible 15.00% of loss; minimum R25,000.00.</p> <p>Exposed base course sub-base course or layer works exceeding 25,000 square meters but not exceeding 50,000 square meters - additional deductible 15.00% of loss; minimum R50,000.00</p> <p>In respect of loss or damage to base course sub-base course or layer</p>

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Clause No	Description
	<p>works exposed by the Insured exceeding 50,000 square meters the Insurers shall only be liable for amounts associated with a maximum of 50,000 square meters of such exposed base course sub-base course or layer works</p> <p>Sub-Clause 19.1 – General Requirements for Insurances (Continued)</p> <p>18.1.1.7 Any amount which becomes payable to the Contractor or any of his Subcontractors as a result of a claim under the Contract Works Insurance shall if required by the Client be paid net of the Deductible to the Client who shall pay the Contractor from the proceeds of such payment upon rectification repair or reinstatement of the loss or damage but this provision shall not in any way affect the Contractor's obligations liabilities or responsibilities in terms of the Contract.</p> <p>In respect of any amount which becomes payable as a result of a claim under the Public Liability Insurances the Contractor or his Subcontractors shall be required to pay the amount of the Deductible to the Insurer to facilitate settlement of such claim.</p> <p>19.1.2 Insurance Effected by the Contractor.</p> <p>19.1.2.1 The Contractor and Subcontractor shall where applicable provide as a minimum the following:</p> <ul style="list-style-type: none"> a) Insurance of Contractor's and Engineer's equipment (including tools offices and other temporary structures and contents) and other things (except those intended for incorporation into the Works) brought onto the site for a sum sufficient to provide for their replacement. b) Insurance in terms of the provisions of the Compensation for Occupational Injuries and Diseases Act No. 130 of 1993 as may be amended. c) Where the Contract involves manufacturing and/or fabrication of the Works or parts thereof at premises other than at the Contract Site the Contractor shall satisfy the Client that all materials and equipment for incorporation in the Works are adequately insured during manufacture and/or fabrication. In the event of the Client having an insurable interest in such Works during manufacture or fabrication then such interest shall be noted by endorsement to the relevant Policies of Insurance. d) Where design work is undertaken by or on behalf of the Contractor the Contractor shall satisfy the Client that Professional Indemnity Insurance in respect of liability arising from any act omission or neglect in such design work has been arranged. The limit of indemnity under this insurance shall be two times the professional fee. This insurance shall remain in force after completion of this Contract for a period of three years. <p>18.1.2.2 The insurances to be provided by the Contractor and his Subcontractor shall be effected with Insurers and on terms approved by the Client (which approval shall not be unreasonably withheld) and shall be maintained in force for the duration required (including any period of maintenance). The Contractor shall within fourteen (14) days of commencement of the contract produce to the Client the relevant Policy or Policies of Insurance.</p>

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Clause No	Description
	<p>18.1.2.3 In the event that the Contractor or his Subcontractor receives any notice of cancellation or restrictive modification to the insurance provided to them they shall immediately notify the Client in writing of such cancellation or restriction and shall advise what action the Contractor or his Subcontractor will take to remedy such action.</p> <p>Sub-Clause 19.1 – General Requirements for Insurances (Continued)</p> <p>If the Contractor fails to effect and keep in force the insurances referred to then the Client may effect and keep in force any such insurances and pay such premium or premiums as may be necessary for that purpose and from time to time deduct the amount paid by the Client from any monies due or which may become due to the Contractor or recover same as a debt from the Contractor.</p> <p>19.1.3 Sub-Contractors The Contractor shall:</p> <p>a) ensure that all potential and appointed Subcontractors are aware of the whole contents of clause 19.1.2, and enforce the compliance by Subcontractors with this clause where applicable.”</p>
Sub-Clause 19.2.4	<p>Sub-Clause 19.2.4 –Injury to Persons and Damage to Property <i>Amend the third paragraph as follows:</i> (i) In the last line, after the word “amount”, insert “(if any)” <i>Delete the last sentence.</i></p>
Sub-Clause 19.2.6	<p>Sub-Clause 19.2.6 – Other insurances required by Laws and by local practice <i>Add the following paragraph at the end:</i> “The Contractor shall provide proof that he has paid all contributions required in terms of the Compensation for Occupational Injuries and Diseases Act (Act No 130 of 1993)”.</p>
Sub-Clause 18.1	<p>Sub-Clause 18.1 – Exceptional Events Affecting Subcontractors <i>Add this Sub-Clause as follows:</i> (g) “In the event that a Contractor is prevented from performing any of his obligations under the Contract as a result of Force Majeure which prevented a Supplier from meeting its obligations to supply the Contractor or his Subcontractors the Contractor shall not be entitled to any relief under this Clause.”</p>
Sub-Clause 21.1	<p>Sub-Clause 21.1 – Constitution of the DAAB <i>Replace Sub-Clause 21.1 heading with:</i> “Sub-Clause 21.1 Appointment of Mediator” <i>Delete the entire Sub-Clause 21.1 and substitute with the following:</i> “Disputes shall be mediated by a Mediator in accordance with Sub-Clause 20.4 (Obtaining the Mediator’s Opinion). The Parties shall jointly appoint a Mediator to resolve any dispute. If the Parties do not agree otherwise, the Mediator shall comprise of three persons. Where the dispute is submitted to Mediation, the following shall apply: 21.1.1The Parties shall agree on and appoint the Mediator within ten (10) working days of the date on which the dispute was declared. Whether or not the mediation resolves the dispute,</p>

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Clause No	Description
	<p>the Parties shall bear their own costs concerning the mediation and share the costs of the Mediator and related cost equally.</p> <p>21.1.2 The Mediator shall agree the procedures, representation and dates for the mediation process with the Parties. The Mediator may meet the Parties together or individually to help reach a settlement.</p> <p>Where the Parties reach settlement of the dispute or any part thereof, the Mediator shall record such agreement and on signing thereof by the Parties, the agreement shall be final and binding.”</p>
Sub-Clause 21.2	<p>Sub-Clause 21.2 – Failure to Appoint DAAB Member(s) Replace Sub-Clause 21.2 heading with: "Sub-Clause 21.2 Failure to Agree on the Mediator" Delete the entire Sub-Clause 21.2 and substitute with the following: “Should the Parties fail to agree on the appointment of the mediator, the Chairman of the Association of Arbitrators (South Africa) shall appoint the Mediator on request of any of the Parties”</p>
Sub-Clause 21.4	<p>Sub-Clause 21.4 – Obtaining DAAB’s Decision Replace Sub-Clause 21.4 heading with: “Sub-Clause 21.4 Obtaining the Mediator’s Opinion”</p> <p>Amend Sub-Clause 21.4 as follows: “In the first paragraph, 4th line, replace reference to “DAB for its decision” to read “Mediator for its opinion”.</p> <p>Delete the second paragraph and replace with “For a 3 person mediation tribunal, the Mediator shall be deemed to have received such reference on the date when it is received by the chairman of the mediation tribunal.</p> <p>Amend the third paragraph first and second sentence by replacing the references to “DAB” with references to “Mediator” and first sentence reference to “decision” to read “opinion”.</p> <p>Amend the fourth paragraph first sentence by replacing the references to “DAB” with references to “Mediator” and first and second sentence references to “decision” to read “opinion”.</p> <p>Amend the fifth paragraph first and second sentences by replacing the references to “DAB’s” with a references to “Mediator’s” and references to “decision” to read “opinion” and in the second sentence by replacing the reference to “DAB” with reference to “Mediator”.</p> <p>Amend the sixth paragraph second sentence by replacing the reference to “Dispute Adjudication Board’s Decision” with the reference to “Mediator’s Opinion” and reference to “Dispute Adjudication Board’s” with the reference to “Mediator’s”.</p> <p>Amend the seventh paragraph first sentence by replacing the references to “DAB” with references to “Mediator” and references to “decision” to read “opinion”.</p>
Sub-Clause 21.7	<p>Sub-Clause 21.7 – Failure to Comply with DAAB’s Decision Replace Sub-Clause 21.7 heading with: “Sub-Clause 21.7 Failure to Comply with the Mediator’s Opinion” Amend Sub-Clause 21.7 as follows: Amend the first paragraph sentence by replacing the reference to</p>

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Clause No	Description
	<p>“Dispute Adjudication Board’s” with the reference to “Mediator’s”.</p> <p>Amend the first paragraph sentence by replacing the reference to “DAB’s” with reference to “Mediator’s”.</p> <p>Amend the second paragraph by replacing the reference to “Dispute Adjudication Board’s” with the reference to “Mediator’s”.</p>
Sub-Clause 21.8	Sub-Clause 21.8 – No DAAB In Place Delete this Sub-Clause.
New Sub-Clause 22.0	<p>Sub-Clause 22.0 – Labour-Intensive Methods and Requirements</p> <p>Add the following new Sub-Clause:</p> <p>The Contractor's attention is drawn to the fact that this is a labour intensive contract and the contractor is to utilise Labour - Intensive Methods were ever possible. All requirements of the aforementioned are to be priced hereunder and no additional claims in this regard will be entertained.</p>

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C 1.3.1 PERFORMANCE GUARANTEE

Brief description of Contract: **CONSTRUCTION OF DIGISTICS WAREHOUSE IN ZONE 1 OF THE COEGA SEZ**

Name and address of Beneficiary, Coega Development Corporation (Pty) Ltd
Corner Alcyon Road & Zibuko Street, Zone 1, Coega SEZ, GQEBERHA, 6100
Private Bag X6009, GQEBERHA, 6000
(whom the Contract defines as the Client).

We have been informed that (hereinafter called the "Principal") is your contractor under such Contract, which requires him to obtain a performance security.

At the request of the Principal, we (*name of bank*) hereby irrevocably undertake to pay you, the Beneficiary/Client, any sum or sums not exceeding in total the amount of (the "guaranteed amount", say:) upon receipt by us of your demand in writing and your written statement stating:

- (a) that the Principal is in breach of his obligation(s) under the Contract, and
- (b) the respect in which the Principal is in breach.

Following the receipt by us of an authenticated copy of the taking-over certificate for the whole of the works under clause 10 of the Main Contract, such guaranteed amount shall be reduced to 50% of the above guaranteed amount and we shall promptly notify you that we have received such certificate and have reduced the guaranteed amount accordingly.

Any demand for payment must contain your directors' signature(s) which must be authenticated by your bankers or by a notary public. The authenticated demand and statement must be received by us at this office on or before (*the anticipated date of issuing of the Performance Certificate*)..... (The "expiry date"), when this guarantee shall expire and shall be returned to us.

We have been informed that the Beneficiary may require the Principal to extend this guarantee if the performance certificate under the Contract has not been issued by the date 28 days prior to such expiry date. We undertake to pay you such guaranteed amount upon receipt by us, within such period of 28 days, of your demand in writing and your written statement that the performance certificate has not been issued, for reasons attributable to the Principal, and that this guarantee has not been extended.

This guarantee shall be governed by the laws of South Africa.

Date Signature(s)

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C1.3.2 AGREEMENT IN TERMS OF THE OHS ACT, 1993 (ACT NO 85 OF 1993)

THIS AGREEMENT made at

on this the day of in the year

between Coega Development Corporation (Pty) Ltd (hereinafter called "the Employer") of the one part, herein represented by

in his capacity as

and

(hereinafter called "the Mandatory") of the other part, herein represented by

.....

in his capacity as

WHEREAS the Employer is desirous that certain works be constructed, viz **"CONTRACT NO. CDC/215/26 – CONSTRUCTION OF DIGISTICS WAREHOUSE EXTENSION IN ZONE 1 IN THE COEGA SEZ"** and has accepted a Tender by the Mandatory for the construction, completion and maintenance of such Works and whereas the Employer and the Mandatory have agreed to certain arrangements and procedures to be followed to ensure compliance by the Mandatory with the provisions of the Occupational Health and Safety Act, 1993 (Act 85 of 1993);

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. The Mandatory shall execute the work according to the Contract Documents pertaining to this Contract.
2. This Agreement shall hold good from its Commencement Date, which shall be the date of a written notice from the Employer or Principal Agent requiring him to commence the execution of the Works, to either
 - (a) the date of the Performance Certificate issued in terms of Sub-Clause 11.9 of the Conditions of Contract (FIDIC 2017), as contained in Contract Data of the Contract Documents pertaining to this Contract, or
 - (b) the date of termination of the Contract in terms of Clauses 15, 16 or 17 of the Conditions of Contract (FIDIC 2017).
 - (c) the date of termination of the Contract by whatever means
3. The Mandatory declares himself to be conversant with the following:
 - (a) All the requirements, regulations and standards of the Occupational Health and Safety Act (Act 85 of 1993), hereinafter referred to as "The Act", together with its amendments and with special reference to the following Sections of The Act:
 - (i) Section 8 : General duties of employers to their employees;
 - (ii) Section 9 : General duties of employers and self-employed persons to persons other than employees;

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- (iii) Section 37 : Acts or omissions by employees or mandatories, and
 - (iv) Sub-section 37(2) relating to the purpose and meaning of this Agreement.
 - (b) The procedures and safety rules of the Employer as pertaining to the Mandatory and all their subcontractors.

- 4. The Mandatory agrees to execute all the Works forming part of this Contract and to operate and utilise all machinery, plant and equipment according to the Act.

- 5. The Mandatory is responsible for compliance with the Act by all his subcontractors, whether or not selected and/or approved by the Employer.

- 6. The Mandatory warrants that all his and his subcontractors' workmen are covered in terms of the Compensation for Occupational Injuries and Diseases Act, 1993 which cover shall remain in force whilst any such workmen are present on site. A letter of good standing from the Compensation Commissioner to this effect must be produced to the Employer upon signature of the agreement.

- 7. The Mandatory undertakes to ensure that he and/or subcontractors and/or their respective employers will at all times comply with the following conditions:
 - (a) The Mandatory shall assume the responsibility in terms of Section 16.1 of the Occupational Health and Safety Act. The Mandatory shall not delegate any duty in terms of Section 16.2 of this Act without the prior written approval of the Employer. If the Mandatory obtains such approval and delegates any duty in terms of section 16.2 a copy of such written delegation shall immediately be forwarded to the Employer.
 - (b) All incidents referred to in the Occupational Health and Safety Act shall be reported by the Mandatory to the Department of Employment Labour as well as to the Employer.
 - (c) The Employer will further be provided with copies of all written documentation Relating to any incident
 - (d) The Employer hereby obtains an interest in the issue of any formal inquiry conducted in terms of section 32 of the Occupational Health and Safety Act into any incident involving the Mandatory and/or his employees and/or his subcontractors.

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C1.3.3 CERTIFICATE OF AUTHORITY FOR SIGNATORY TO AGREEMENT

CERTIFICATE OF AUTHORITY FOR SIGNATORY TO AGREEMENT IN TERMS OF OHS ACT (85 OF 1993)

The signatory for the company that is the Contractor in terms of the above-mentioned Contract and the Mandatory in terms of the above-mentioned Act shall confirm his or her authority thereto by attaching to this page a duly signed and dated copy of the relevant resolution of the Board of Directors.

An example is given below:

"By resolution of the Board of Directors passed at a meeting held on 202....., Mr/Ms
..... whose signature appears below, has been
duly authorised to sign the AGREEMENT in terms of THE OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT
85 of 1993) on behalf of

..... SIGNED ON

BEHALF OF THE COMPANY :

.....

IN HIS/HER CAPACITY AS :

DATE :

SIGNATURE OF SIGNATORY :

WITNESS: 1 2.....

NAME (in capitals): 1 2.

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C1.4 SCHEDULE OF DEVIATIONS

Notes:

1. The extent of deviations from the tender documents issued by the employer prior to the tender closing date is limited to those permitted in terms of the Conditions of Tender.
2. A bidder's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, become the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.
3. Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here.
4. Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the Contract.

SUBJECT _____
Details _____

SUBJECT _____
Details _____

SUBJECT _____
Details _____

SUBJECT _____
Details _____

SUBJECT _____
Details _____

By the duly authorised representatives signing this agreement, the employer and the bidder 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 changes to the terms of the offer agreed by the bidder 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 bidder of a completed signed copy of this agreement shall have any meaning or effect in the contract between the parties arising from this Agreement.

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FOR THE BIDDER:

Signature(s)

Names

Capacity

.....
(Name and address of organization)

Name and signature of witnesses Date.....

..... Date.....

FOR THE EMPLOYER:

Signature(s)

Names

Capacity

Coega Development Corporation (Pty) Ltd
Corner Alcyon and Zibuko Street
Coega SEZ Zone 1
Gqeberha
6001

Name and signature of witnesses Date.....

..... Date.....

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PART C2: PRICING DATA

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C2.1 PRICING INSTRUCTIONS

1. GENERAL

The Bill of Quantities forms part of the Contract Documents and must be read and priced in conjunction with all the other documents comprising the Contract Documents, which include the Conditions of Tender, Conditions of Contract, the Specifications (including the Project Specification), the Model Preamble for Trades and the Drawings.

2. DESCRIPTION OF ITEMS IN THE BILL OF QUANTITIES

Descriptions in the Bills of Quantities may differ from those in the Standardized and Project Specifications. The descriptions and specifications in the Bills of Quantities will however take preference over these specifications. No consideration will be given to any claim by the Contractor submitted on such a basis. Except for SANS 1200 A and 1200 AB all measurement and payment clauses (clause 8) of the standard specifications are deleted. The Bills of Quantities have been drawn up generally in accordance with the latest issue of Standard System of Measuring Building Work². Should any requirement of the measurement and payment clause of the appropriate Standardized or Project Specification(s) be contrary to the terms of the Bills of Quantities or, when relevant, to the Standard System of Measuring Building Work, the requirement of the Standard System of Measuring Building Work shall prevail.

3. QUANTITIES REFLECTED IN THE BILL OF QUANTITIES

All quantities are measured provisional and is subject to re-measure on completion of the project. The Contractor will be required to undertake whatever quantities may be directed by the Employer's Agent from time to time. The Contract Price for the completed contract shall be computed from the actual quantities of work done, valued at the relevant unit rates and prices.

The quantities of work as measured and accepted and certified for payment in accordance with the Conditions of Contract, and not the quantities stated in the Bills of Quantities, will be used to determine payments to the Contractor. The validity of the Contract shall in no way be affected by differences between the quantities in the Bills of Quantities and the quantities certified for payment.

Ordering of materials is not to be based on the Bills of Quantities, but only on information issued for construction purposes.

The validity of the contract will in no way be affected by differences between the quantities in the Bill of Quantities and the quantities finally certified for payment.

Unless stated to the contrary, items are measured net in accordance with the Drawings without any allowance having been made for waste.

4. PROVISIONAL SUMS

Where Provisional sums or Prime Cost sums are provided for items in the Bill of Quantities, payment for the work done under such items will be made according to the actual cost of these works, quotations will be provided by the Contractor for approval prior to executing such works. The Employer reserves the right, during the execution of the works, to adjust the stated amounts upwards or downwards according to the work done under the item, or the item may be omitted altogether, without affecting the validity of the Contract.

The bidder shall not under any circumstances whatsoever delete or amend any of the sums inserted in the "Amount" column of the Bill of Quantities and the Summary of the Bill of Quantities unless ordered or authorised in writing by the Employer before closure of tenders. Any unauthorised changes made by the bidder to provisional items in the schedule, or to the provisional percentages and sums in the Summary of the Bill of Quantities, will be treated as arithmetical errors.

2 The standard system of measurement of building work published by the Association of South African Quantity Surveyors.

Construction of Digistics Warehouse Extension**In Zone 1 of the SEZ****5. PRICING OF THE BILL OF QUANTITIES**

The prices and rates to be inserted by the bidder in the Bill of Quantities shall be the full inclusive prices to be paid by the Employer for the work described under the respective items, and shall include full compensation for all costs and expenses that may be required in and for the completion and maintenance during the defects liability period of all the work described and as shown on the drawings as well as all overheads, profits, incidentals and the cost of all general risks, liabilities and obligations set forth or implied in the documents on which the Tender is based.

Each item shall be priced and extended to the "Total" column by the bidder, except the items for which only rates are required, or items which already have Prime Cost or Provisional Sums affixed thereto. If the Contractor omits to price any items in the Bill of Quantities, then these items will be considered to have a nil rate or price.

All items for which terminology such as "inclusive" or "not applicable" have been added by the bidder will be regarded as having a nil rate which shall be valid irrespective of any change in quantities during the execution of the Contract.

The bidder shall fill in rates for all items where the words "rate only" appear in the "Total" column. "Rate Only" items have been included where:

- (a) an alternative item or material is contemplated;
- (b) variations of specified components in the make-up of a pay item may be expected; and
- (c) no work under the item is foreseen at the tender stage but the possibility that such work may be required is not excluded.

For "Rate Only" items no quantities are given in the "Quantity" column, but the quoted rate shall apply in the event of work under this item being required. The bidder shall however note that in terms of the Tender Data, the bidder may be asked to reconsider any such rates which the Employer may regard as unbalanced.

All rates and amounts quoted in the Bill of Quantities shall be in rands and cents and shall include all levies and taxes (other than VAT). VAT will be added to the summary of the Schedule of Quantities.

No alteration, erasure or addition is to be made in the text of the Bills of Quantities. Should any alteration, erasure or addition be made, it will not be recognised but the original wording of the Bills of Quantities will be adhered to.

6. CORRECTION OF ENTRIES

Incorrect entries shall not be erased or obliterated with correction fluid but must be crossed out neatly. The correct figures must be entered above or adjacent to the deleted entry, and the alteration must be initialled by the bidder.

7. ARITHMETICAL ERRORS

Arithmetical errors found in the Bill of Quantities as a result of faulty multiplication or addition will be corrected by the Quantity Surveyor at the tender evaluation stage.

8. UNIT OF MEASUREMENT

The units of measurement described in the Bill of Quantities are metric units for which the standard international abbreviations are used. Abbreviations, which may appear in the Bill of Quantities, are as follows:

Item	=	1 off
No.	=	Number
%	=	Percent
Sum	=	Lump sum
PC sum	=	Prime cost sum
Prov sum	=	Provisional sum
mm	=	millimetre
m	=	Meter
m ²	=	Square Meter
m ³	=	Cubic Meter
t	=	Ton (1000kg)
kg	=	Kilogram

**Construction of Digistics Warehouse Extension
In Zone 1 of the SEZ**

Note to Service Provider

Failure, by the Bidder, to price the items indicated below individually or per item will result in the Tender being deemed non-responsive. The legal requirements contemplated in the Construction Regulations (CR) 5(1)(g):

“A Client must ensure that potential principal contractors submitting tenders have made adequate provision for the cost of health and safety measures” and CR 5(1)(h)

“A client must ensure that the principal contractor to be appointed has the necessary competencies and resources to carry out the construction work safely”

Shall apply and will be used to motivate the disqualification of the Tender. The contractor’s attention is further drawn to Section 41 of the **Occupational Health and Safety Act and Regulations, (Act 85 of 1993): This Act is not affected by agreements.**

Subject to the provisions of Sections 10 (4) and 37 (2), a provision of this Act or a condition specified in any notice or direction issued there under or subject to which exemption was granted to any person under Section 40, shall not be affected by any condition of any agreement, whether such agreement was entered into before or after the commencement of this Act or before or after the imposition of any such condition, as the case may be.

Note to Service Provider

Prior to pricing the principal contractor **must familiarise him/herself** with the **Occupational Health and Safety Act and Regulations, (Act 85 of 1993), Construction Regulations 2014, other relevant Regulations and Standards as well as project-specific Safety, Health & Environmental Specifications.**

Note to Service Provider

After pricing the Health and Safety Schedule of Quantities, the **Contractor** must sign the **Certificate of Acquaintance** as evidence that he is up to date regarding the contents, obligations and demands of the **Occupational Health and Safety Act and Regulations, (Act 85 of 1993), Construction Regulations 2014, other relevant Regulations and Standards as well as project-specific Safety, Health, and Environmental Specifications.** Failure, by the Bidder, to sign the Certificate of Acquaintance may result in the Tender being deemed non-responsive.



Construction of Digistics Warehouse Extension

In Zone 1 of the SEZ

C2.2 PRICING SCHEDULE

See Schedule of Quantities:

- **Section 1: Preliminary and General**
- **Section 2: Warehouse Extension**
- **Section 3: Office Block Extension**
- **Section 4: External Works**
- **Section 5: External Services**
- **Section 6: Provisional Sums**
- **Final Summary**

**Construction of Digistics Warehouse Extension
In Zone 1 of the SEZ**

C2.3 CERTIFICATE OF ACQUAINTANCE WITH TENDER DOCUMENTS

Name of Company _____

I/We _____

Hereby certify that I/we acquainted ourselves with the Health and Safety Act 85 of 1993 as well as the Construction Regulations, 2014 and all conditions contained herein as laid down by the State for the carrying out of construction work for which I/We submit our response.

I/We further agree that the State shall recognise no claim from me/us for relief based on allegations that I/We overlooked any tender requirements or failed to take into account the purpose of completing the documentation as required.

Signed at _____ On this _____ Day of _____ 20 _____

WITNESS (signature)

NAME IN BLOCK LETTERS

For and on behalf of Contractor

Contractor Signature

ID of Signatory

**Construction of Digistics Warehouse Extension
In Zone 1 of the SEZ**

PROVISIONAL BILL OF QUANTITIES

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 1</u>			
	<u>PRELIMINARIES</u>			
	NOTES:			
	<ul style="list-style-type: none"> i. The Conditions of Contract applicable to this Contract comprise the: "General Conditions" which form part of the "Conditions of Contract for Construction" (for Building and Engineering Works designed by the Employer) Second Edition 2017, as published by the Fédération Internationale des Ingénieurs Conseils (FIDIC), and any amendments and additions to such General Conditions. ii. Copies of the FIDIC Conditions of Contract are available from the South African Federation of Civil Engineering Contractors, or the South African Association of Consulting Engineers iii. Tenderers are referred to the abovementioned document for the full intent and meaning of each clause thereof for which such allowance must be made as may be considered necessary. iv. Where standard clauses are not entirely applicable to this contract, such modifications, corrections or supplements as will apply are given under each relevant clause heading 			
	<u>Scheduled fixed-charge and value related items</u>			
A	Fixed Preliminary and General charges		SUM	
B	Value-related Preliminary and General charges		SUM	
	<u>Scheduled time related items</u>			
C	Time-related Preliminary and General charges		SUM	
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES 1785-BQ			

Brought Forward		R
<u>SMME Construction Manager, Mentor and Training</u>		
A	Provision of SMME Construction Manager	SUM
B	Provision of SMME Construction Mentor The Contractor is to provide for the employment of a full time SMME Construction Mentor for the full duration of the contract inclusive of all office accommodation, furniture and equipment associated with the execution of the SMME Construction Mentors duties in accordance with section D11.1 (a) 1 and 2 of the Specification for the Employment of SMME Sub Contractors (SES 003) - Annexure D	SUM
C	Provisonal sum of R200 000.00 (Two Hundred Thousand Rand) net for accredited training for the development of SMME's	200,000.00
	Item	
<u>Compliance with enviromental legislation and Specifications</u>		
Refer to Section No. 6 of the Bill of Quantities for pricing for compliance with environmental legislation and Specifications. Pricing of items is to include for the: <ul style="list-style-type: none"> • Contractor • Own Subcontractors • SMME Subcontractors • Nominated Subcontractors 		
Carried Forward		R
Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES 1785-BQ		

	Brought Forward	R
	<p><u>Compliance with Occupational Health and Safety Act (Act 85 of 1993) and all relevant and applicable regulations, especially the Construction Regulations, 2003 as promulgated on 18 July 2003 under section 43 of the Occupational Health and Safety Act (Act 85 of 1993), as amended from time to time, for the duration of the contract</u></p> <p>Refer to Section No. 6 of the Bill of Quantities for pricing for compliance with Occupational Health and Safety legislation and Specifications. Pricing of items is to include for the:</p> <ul style="list-style-type: none"> • Contractor • Own Subcontractors • SMME Subcontractors • Nominated Subcontractors <p><u>Compliance with Labour Management Regulations and Industrial Relations Policy for the Duration of the Contract</u></p>	
A	Allow for the appointment of an Industrial Relations Co-ordinator for the full duration of the Contract	SUM
B	Provisional sum for contractor contribution to IR-Coordinator	SUM
C	Allow for administration of payment to all employees for full duration of contract via the CDC contracted Wage Bureau	SUM
D	Allow for administration of payment to seconded personnel for full duration of contract	SUM
E	Allow for tool alliance to shutter hands grades 1, 2 and 3 every 6 months for the full duration of contract	SUM
F	Allow for the daily transport of hourly paid labour from collection points and return for the duration of the contract	SUM
G	Allow for the provision of bus transport for long weekends for all seconded personnel	SUM
	Carried Forward	R
	Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES 1785-BQ	

	Brought Forward	R
A	Allow for bus transport for start and end project for seconded personnel	SUM
B	Allow for accommodation and full board for seconded personnel in the Construction Village	SUM
C	Allow for the provision of a Zone Bonus upon demobilization for hourly paid employees employed on site	SUM
D	Allow for provision of a limited duration employee completion benefit upon operational requirement demobilisation for all hourly paid employees	SUM

Carried to Final Summary

R

Section No. 1
 PRELIMINARIES
 Bill No. 1
 PRELIMINARIES
1785-BQ

MODEL PREAMBLES

The Model Preambles (Latest Edition with amendments where applicable) published by the Association of South African Quantity Surveyors shall be taken to be incorporated herein.

Tenderers are referred to the above-mentioned document for the full intent and meaning of each clause thereof.

(Copies of the Model Preambles are obtained from the Eastern Cape Chapter of the Association of South African Quantity Surveyors - Tel 041 581 4271)

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>WAREHOUSE EXTENSION</u>			
	<u>BILL NO. 1</u>			
	<u>ALTERATIONS AND DEMOLITIONS</u>			
	<u>TEMPORARY SCREENS AND HOARDINGS</u>			
	<u>Temporary hoardings</u>			
A	Provide, erect and maintain temporary hoarding 2100mm high with 22mm five-ply shutterboard including support framework and remove on completion and make good to any surfaces disturbed	m	73	
	<u>Dust proof hoarding</u>			
B	Provide, erect and maintain temporary dust proof hoarding 10500mm high to underside of existing steel trusses with 250 micron plastic sheeting taped to bottom and sides of steel trusses, walls, floor and joints taped double sided with and including staining wires to both sides of sheeting at 300mm centres fixed to underside of existing steel trusses and secured at bottom with precast movable concrete blocks and remove on completion and make good to any surfaces disturbed	m	73	
	<u>ALTERATIONS</u>			
	<u>Note:</u> Prices for the following items are to include for carefully cutting through all material encountered in the line of the demolitions. Any damage caused to adjoining surfaces will be made good with material to match existing at the Contractor's own expense.			
	Carried Forward			R
	Section No. 2 WAREHOUSE EXTENSION Bill No. 1 ALTERATIONS AND DEMOLITIONS 1785-BQ			

Brought Forward			R
<u>Demolish, break up or take out and remove</u>			
A	Existing canopy structure overall size 6100 x 3900mm wide complete with structural steel, roof sheeting, flashing, gutters, etc.	No	1
<u>Brickwork</u>			
B	270mm Wall including finishes	m2	113
<u>Steel structure</u>			
C	305 x 305 x 118kg/m H-Section columns	m	190
D	150 x 65 x 20 x 2.5mm Lipped channel section girts	m	584
E	89mm Diameter x 6.35kg/m tubular bracing	m	34
F	60 x 60 x 5mm Angle section false rafter	m	73
<u>Roofs and side cladding</u>			
G	Vertical cladding and polycarbonate sheeting fixed to steel cladding rails (removal of cladding rails elsewhere measured)	m2	849
H	Gable trim fixed to steel purlins and cladding rails	m	73
I	Corner trim fixed to cladding rails	m	20
J	Drip flashing fixed to cladding rails	m	73
<u>Doors, etc.</u>			
K	Timber door and frame size 900 x 2100mm	No	1
L	Roller shutter door and surround size 4000 x 4500mm	No	1
<u>External works</u>			
M	60mm Thick precast concrete interlocking paving bricks	m2	136
Carried Forward			R
Section No. 2 WAREHOUSE EXTENSION Bill No. 1 ALTERATIONS AND DEMOLITIONS 1785-BQ			

	Brought Forward		R
A	Precast concrete sunken kerb size 150 x 75mm high	m	91
Carried Forward to Summary of Section No. 2			R
Section No. 2 WAREHOUSE EXTENSION Bill No. 1 ALTERATIONS AND DEMOLITIONS 1785-BQ			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 2</u>			
	<u>FOUNDATIONS</u>			
	<u>EARTHWORKS</u>			
	<u>Special Preamble</u>			
	<u>Classes of Excavation</u>			
	All materials encountered in any excavation for any purpose including restricted excavation will be classified as follows:			
	(a) Soft Rock Excavation Soft rock excavation shall be excavation in material that requires a back-acting excavator of flywheel power exceeding 0,10 kw per millimetre of tined-bucket width or the use of pneumatic tools.			
	(b) Hard Rock Excavation Hard rock excavation shall be excavation in material (including undecomposed boulders exceeding 0.17 cubic metres in individual volume) that cannot be efficiently removed without blasting, wedging and splitting, or hydraulic hammers.			
	This classification includes materials such as:			
	<ul style="list-style-type: none"> - solid unfractured rock occurring in bulk - solid ledges thicker than 200mm - igneous rock intrusions - cemented sedimentary rocks 			
	<u>Excavate in earth and deposit excavated material on site for use as filling or backfilling (elsewhere measured)</u>			
A	Foundation trenches for retaining walls not exceeding 2m deep	m3	404	
B	Foundation trenches for retaining walls exceeding 2m and not exceeding 4m deep	m3	67	
	Carried Forward			R
	Section No. 2 WAREHOUSE EXTENSION Bill No. 2 FOUNDATIONS 1785-BQ			

Brought Forward			R
A	Bases not exceeding 2m deep	m3	540
B	Bases exceeding 2m deep and not exceeding 4m deep	m3	197
C	Extra over excavation in earth for excavation in soft rock	m3	60
D	Ditto but in hard rock	m3	60
<u>Excavate in earth for working space for a width as necessary and backfill with granular earth filling arising from the excavations compacted in multiple layers not exceeding 150mm thick to 93% Mod AASHTO density including carting away from site surplus excavated material</u>			
E	Working space not exceeding 3m deep for formwork to sides of foundation retaining walls (excavation measured flush with face of concrete)	m2	211
<u>Sundries</u>			
F	Extra over all excavations for carting away from site surplus excavated material	m3	585
G	Risk of collapse to sides of excavations not exceeding 1,5m deep	m2	150
H	Risk of collapse to sides of excavations exceeding 1,5m deep	m2	2,275
I	Keep the excavations free of water other than subterranean and seepage water		Item
<u>Filling, etc.</u>			
J	Granular earth filling arising from the excavations compacted in multiple layers not exceeding 150mm thick to 93% Mod AASHTO density in backfilling to foundation excavations	m3	623
Carried Forward			R
Section No. 2 WAREHOUSE EXTENSION Bill No. 2 FOUNDATIONS 1785-BQ			

Brought Forward				R
<u>CONCRETE</u>				
<u>Test cubes</u>				
A	Set of three concrete strength cubes each size 150 x 150 x 150mm, send to an independent laboratory for test crushing including all charges	Sets	45	
<u>Plain concrete 10MPa/19mm stone</u>				
B	Mass concrete stoolings	m3	1	
C	Blinding under bases cast against excavated surfaces	m3	14	
D	Blinding under retaining wall footing cast against excavated surfaces	m3	10	
<u>Reinforced concrete 25MPa/19mm stone</u>				
E	Retaining wall footings cast against excavated surfaces	m3	51	
F	Bases cast against excavated surfaces	m3	162	
<u>Reinforced concrete 30MPa/19mm stone</u>				
G	Stub columns	m3	23	
H	Retaining walls	m3	31	
<u>Sundries</u>				
I	30mm Thick Prostruct Five Star or equal approved non-shrink cementateous grout caulked in between top of concrete and underside of steel base plate	m2	7	
J	Ditto but in filling to pocket size 75 x 75 x 150mm deep around 20mm holding down bolt	No	196	
K	Cast set of four holding down bolts in exact position in top of concrete stub column including forming of pocket size 75 x 75 x 150mm deep in top of concrete around each bolt, template, etc.	No	40	
Carried Forward				R
Section No. 2 WAREHOUSE EXTENSION Bill No. 2 FOUNDATIONS 1785-BQ				

Brought Forward			R
A	Ditto but set of six holding down bolts	No	6
<u>ROUGH FORMWORK</u>			
<u>Rough formwork to sides, edges, risers, etc.</u>			
B	Square or rectangular stub columns not exceeding 3,5m high above bearing	m2	196
C	Foundation retaining wall not exceeding 3,5m high above bearing	m2	104
D	Stoolings	m2	8
<u>SMOOTH FORMWORK</u>			
<u>Note:</u> The following formwork shall be of a type adequate to provide a finish of the concrete free from voids, projections, etc. Any defects in the surfaces of the concrete shall be made good at the contractor's own expense.			
<u>Smooth formwork to sides, edges, risers, etc</u>			
E	Foundation retaining wall not exceeding 3,5m high above bearing	m2	104
<u>REINFORCEMENT</u>			
<u>Mild steel reinforcement</u>			
F	10mm Diameter	t	2.62
<u>High tensile steel reinforcement</u>			
G	10mm Diameter	t	7.87
H	12mm Diameter	t	2.62
I	16mm Diameter	t	3.94
J	20mm Diameter	t	3.94
K	25mm Diameter	t	5.25
Carried Forward			R
Section No. 2 WAREHOUSE EXTENSION Bill No. 2 FOUNDATIONS 1785-BQ			

Brought Forward			R
<u>Mesh reinforcement</u>			
A	Reference 245 fabric reinforcement with 300mm wide side and end laps vertically in cavity of retaining wall	m2	413
<u>BRICKWORK</u>			
<u>Brickwork in extra hard burnt clay NFP bricks in cement mortar</u>			
B	110mm Wall in lining to concrete column	m2	32
C	340mm Hollow wall formed of two 110mm skins with cavity between including wire ties and with cavity filled solid with and including reinforced concrete 25 MPa/13mm stone	m2	289
D	360mm Hollow wall formed of two 110mm skins with cavity between including wire ties and with cavity filled solid with and including reinforced concrete 25 MPa/13mm stone	m2	124
<u>Sundries</u>			
E	75mm Wide galvanised brick reinforcement	m	9,901
F	1,2mm Galvanised hoop iron tie 30mm wide and 700mm girth, one end gun nailed to steel stanchion or concrete column and other end built into brickwork	No	1,082
<u>Movement joints</u>			
G	10mm Expanded polyethylene expansion joint filler fixed vertically between brick and concrete surfaces not exceeding 300mm wide	m	368
<u>WATERPROOFING</u>			
H	Two coats bituminous paint to inside face of retaining wall	m2	517
Carried Forward			R
Section No. 2 WAREHOUSE EXTENSION Bill No. 2 FOUNDATIONS 1785-BQ			

Brought Forward

R

Pointing

A Rake out 10mm expansion joint filler for a depth of 10mm, prime and point with polysulphide sealant complying with SANS 110 Type 2 Gun Grade

m

368

Carried Forward to Summary of Section No. 2

R

Section No. 2
WAREHOUSE EXTENSION
Bill No. 2
FOUNDATIONS
1785-BQ

Item No		Quantity	Rate	Amount
	<u>BILL NO. 3</u>			
	<u>SURFACE BEDS</u>			
	<u>EARTHWORKS</u>			
A	Scarify surface of ground to a depth of 150mm and compact to 90% Mod AASHTO density	m2	4,192	
B	150mm Compacted thickness sub-base of G5 material complying with SANS 1200 ME compacted to 98% Mod AASHTO density under surface beds	m2	4,192	
C	150mm Compacted thickness base course of G5 material complying with SANS 1200 ME compacted to 98% Mod AASHTO density under surface beds	m2	4,192	
	<u>Testing</u>			
D	Additional layerworks compaction check tests in addition to process control tests as instructed by the consulting engineer tested by a consulting Engineer's Laboratory and deliver results to the Engineer within 24 hours of the tests being completed	No	30	
	<u>CONCRETE</u>			
	<u>Test cubes</u>			
E	Set of three concrete strength cubes each size 150 x 150 x 150mm, send to an independent test laboratory for test crushing including all charges	Sets	125	
	<u>Plain concrete 10MPa/19mm stone</u>			
F	Blinding under base of dock leveller cast against excavated surfaces	m3	3	
	<u>Reinforced concrete 25MPa/19mm stone</u>			
G	Base of dock leveller recess cast against excavated surfaces	m3	8	
	Carried Forward			R
	Section No. 2 WAREHOUSE EXTENSION Bill No. 3 SURFACE BEDS 1785-BQ			

Brought Forward			R
A	Walling to dock leveller recess	m3	5
	<u>Plain concrete 35MPa/26mm stone with a slump between 75mm and 100mm</u>		
	<u>Note:</u> Concrete floors to be cast in large panels (approximately 40m x 40m) and levelled using laser screed leveller		
B	Surface beds including striking off and curing (power floating and formwork to form panels elsewhere measured)	m3	755
C	Diamond shaped infill panel around intermediate column including striking off and curing (formwork to form panels elsewhere measured)	m3	3
	<u>Sundries</u>		
D	Extra for curing top of surface bed with plastic sheeting	m2	4,192
E	Power float top of concrete surface bed to a smooth surface in one operation (surface hardener elsewhere measured)	m2	4,192
F	Finish top of concrete dock leveller base to smooth surface with a steel trowel	m2	51
G	One coat limewash as bond breaker to edge of concrete surface bed not exceeding 300mm high	m	138
H	Saw cut size 6 x 20mm deep in top of concrete surface bed	m	138
I	Saw cut size 3 x 70mm deep in top of concrete surface bed, reamed out to 6 x 20mm deep at top edge	m	1,774
	<u>Sleeves</u>		
J	50mm Diameter uPVC sleeve pipe and cast into concrete	m	45
K	Extra for 50mm bend	No	7
Carried Forward			R
Section No. 2 WAREHOUSE EXTENSION Bill No. 3 SURFACE BEDS 1785-BQ			

Brought Forward			R
<u>Movement joints</u>			
A	10mm Expanded polyethylene expansion joint filler not exceeding 300mm wide vertically between brick and concrete surfaces	m	318
<u>Tie-in to existing surface bed</u>			
B	Provisional sum of R50 000.00 (Fifty Thousand Rand) net for tie-in to existing surface bed to be used as directed by the Engineer	Item	50,000.00
<u>ROUGH FORMWORK</u>			
<u>Rough formwork to sides, edges, risers, etc.</u>			
C	Outer side of wall to dock leveller recess	m2	30
D	Edge of concrete not exceeding 300mm high	m	11
E	Ditto in short lengths in forming diamond infill panel around column	m	62
F	Edge of 175mm thick surface bed with and including 114.3 x 114.3 x 6.35mm thick diamond plate dowels spaced at 400mm centres with dowel pocket former	m	138
<u>SMOOTH FORMWORK</u>			
NOTE : The following formwork shall be of a type to provide an even finish to the concrete free from voids, projections, etc. Any defects in a surface of the concrete shall be made good at the contractors own expense			
<u>Smooth formwork to sides, edges, risers, etc.</u>			
G	Inner sides of wall to dock leveller recess	m2	30
<u>REINFORCEMENT</u>			
H	Reference 395 fabric reinforcement with 300mm wide side and end laps in concrete surface beds	m2	4,192
Carried Forward			R
Section No. 2 WAREHOUSE EXTENSION Bill No. 3 SURFACE BEDS 1785-BQ			

Brought Forward			R
<u>High tensile steel reinforcement</u>			
A	12mm Diameter	t	1.56
<u>METALWORK</u>			
<u>Mild steel hot dip galvanised after manufacture</u>			
B	30 x 30 x 5mm Angle edging with and including 10mm diameter split and spread lugs 100mm long welded on back at 300mm centres and set up and cast into edge of concrete at door threshold	m	6
C	Take delivery and set up and cast into position dock leveller surround framework	No	7
<u>WATERPROOFING</u>			
<u>Pointing</u>			
D	Rake out and vacuum clean saw cut size 6 x 20mm deep in top of concrete surface bed, prime, insert polycord backing strip and point 6 x 10mm joint with Sikaflex 11FC or equal approved polyurethane sealant	m	1,912
E	Rake out 10mm expanded polyethylene expansion joint filler for a depth of 10mm, prime and point with Sikaflex - Pro 2HP or equal approved joint sealant	m	318
Carried Forward to Summary of Section No. 2			R
Section No. 2 WAREHOUSE EXTENSION Bill No. 3 SURFACE BEDS 1785-BQ			

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 4</u></p> <p><u>STRUCTURAL STEELWORK</u></p> <p><u>SPECIFICATION</u></p> <p>All structural steelwork shall comply with SANS 294:2004 : Construction procurement process SANS 1921-3:2004 : Structural steelwork SANS 2001-CSI:2005 : Construction works</p> <p><u>Design</u></p> <p>All design for this project shall be done in accordance with the requirements of the following standards :</p> <ul style="list-style-type: none"> - SANS 10160 The general procedures and loadings to be adopted in the design of buildings - SANS 10162-1 Limit states design of hot-rolled steelwork - SANS 10162-2 Limit states design of cold-formed steelwork 			
	Carried Forward			R
	Section No. 2 WAREHOUSE EXTENSION Bill No. 4 STRUCTURAL STEEL 1785-BQ			

Brought Forward

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Grades of steel

The grade of mild steel shall be Grade 350 WA excepting the following :

- Purlins and girts may be of Commercial Quality steel
- Angles of leg length not exceeding 50mm may be of Commercial Quality steel
- Plates shall be of Grade 300 WA steel
- Tubular elements shall be of steel with a yield stress of 300 MPa
- Holding down bolts shall be of Commercial Quality/Grade Y reinforcing steel

Welding

All welds shall be at least 6mm continuous fillet welds and the strength of all welds shall be equal to the strength of the elements the weld interconnects, in compliance with SANS 044.

No butt welding shall be permitted unless approved by the Consulting Engineer.

No site welding shall be permitted unless approved by the Consulting Engineer.

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Bolts and nuts (other than HSG bolts)

All bolts, unless otherwise described, with a diameter not exceeding 16mm shall be of Class 4.8 and all fasteners with a diameter in excess of 16mm shall be of Class 8.8, except for bolts in high strength friction grip connections, which shall be of Class 10.9.

All bolts shall be fully threaded.

The maximum protrusion beyond the nut shall be 1mm.

Washers under nuts and bolt heads on flat surfaces are only required where clearly indicated in the design drawings.

Contractor to provide shop details

Shop details are required. The contractor shall submit shop drawings to the Consulting Engineer two weeks prior to fabrication, written approval of shop drawings must be given by the Consulting engineer prior to fabrication. The Contractor shall, prior to submitting his shop drawings to the Consulting Engineer, carefully check all dimensions of existing structures to ascertain the correctness of "As Built" dimensions and information as provided by the Consulting Engineer. The Contractor's shop details shall make provision for any deviation from this information. No shop details will be provided by the Engineer.

Erection

The sub-contractor shall familiarise himself with the site conditions and any other special crange requirements

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Section No. 2
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<u>Measurement and payment</u>			
<p>The price for steelwork shall include all welding, holes, bolts, nuts, washers, rivets, bolting and riveting integral with structural steelwork as well as all required weld and strength testing, these shall be deemed included in the descriptions of the relevant steelwork. The only bolts and anchors measured separately shall be those fixing the steel members to the structural concrete work. For clarity; fixing structural steelwork members to each other is deemed included in the description of the steelwork and has thus not been measured separately and should be priced within the steelwork rates.</p> <p>The quantities are provisional and will be re-measured upon completion of the works. The Contractor shall not use these quantities for ordering of materials. The Contractor must immediately notify the Quantity Surveyor if discrepancies are found between the quantities and/or descriptions in these Bills of Quantities and the Contractor's quantities measured from construction drawings and specifications.</p>			
<u>DETAILING OF STEELWORK</u>			
<u>Prepare detail drawings for fabrication and submit for approval</u>			
A	Structural steelwork	t	149.62
<u>SUPPLY AND FABRICATION OF STEELWORK</u>			
<u>The following in columns hot dip galvanised after manufacture including flat section base, cap and gusset plates, cleats, connections, bolts, etc.</u>			
B	305 x 305 x 118kg/m H - section columns in lengths exceeding 10m and not exceeding 16m (No. 6 columns)	t	11.26
C	356 x 171 x 45kg/m I - section columns in lengths exceeding 10m and not exceeding 16m (No. 10 columns)	t	5.43
Carried Forward			R
Section No. 2 WAREHOUSE EXTENSION Bill No. 4 STRUCTURAL STEEL 1785-BQ			

Brought Forward			R
A	406 x 140 x 46kg/m I - section columns in lengths exceeding 10m and not exceeding 16m (No. 18 columns)	t	12.53
B	406 x 178 x 54kg/m I - section columns in lengths exceeding 10m and not exceeding 16m (No. 12 columns)	t	9.56
<u>The following in beams hot dip galvanised after manufacture including flat section base, cap and gusset plates, cleats, connections, bolts, etc.</u>			
C	203 x 133 x 25kg/m H - section beams	t	0.64
<u>The following in false rafters hot dip galvanised after manufacture including flat section gusset plates, connections, bolts, etc.</u>			
D	60 x 60 x 5mm Angle section false rafter	t	0.64
<u>The following in (No. 8) steel roof trusses type T1 overall size 24200mm span x average 1600mm high hot dip galvanised after manufacture including flat section gusset plates, connections, bolts, etc.</u>			
E	102 x 133 x 15kg/m T-section (cut from I-Section) rafters in top chord	t	3.34
F	102 x 133 x 15kg/m T-section (cut from I-Section) rafters in bottom chord	t	3.34
G	50 x 50 x 4mm Angle section struts in truss rafters	t	1.63
H	60 x 60 x 4mm Angle section struts in truss rafters	t	2.06
<u>The following in (No. 8) steel roof trusses type T2 overall size 24500mm span x average 1600mm high hot dip galvanised after manufacture including flat section gusset plates, connections, bolts, etc.</u>			
I	102 x 133 x 15kg/m T-section (cut from I-Section) rafters in top chord	t	3.36
J	102 x 133 x 15kg/m T-section (cut from I-Section) rafters in bottom chord	t	3.36
Carried Forward			R
Section No. 2 WAREHOUSE EXTENSION Bill No. 4 STRUCTURAL STEEL 1785-BQ			

Brought Forward			R
A	50 x 50 x 4mm Angle section struts in truss rafters	t	1.63
B	60 x 60 x 4mm Angle section struts in truss rafters	t	2.06
<p><u>The following in (No. 8) steel roof trusses type T3 overall size 24200mm span x average 1600mm high hot dip galvanised after manufacture including flat section gusset plates, connections, bolts, etc.</u></p>			
C	102 x 133 x 15kg/m T-section (cut from I-Section) rafters in top chord	t	3.34
D	102 x 133 x 15kg/m T-section (cut from I-Section) rafters in bottom chord	t	3.34
E	50 x 50 x 4mm Angle section struts in truss rafters	t	1.63
F	60 x 60 x 4mm Angle section struts in truss rafters	t	2.06
<p><u>The following in (No. 8) steel roof trusses type T4 overall size 19700mm span x average 1600mm high hot dip galvanised after manufacture including flat section gusset plates, connections, bolts, etc.</u></p>			
G	102 x 133 x 15kg/m T-section (cut from I-Section) rafters in top chord	t	2.71
H	102 x 133 x 15kg/m T-section (cut from I-Section) rafters in bottom chord	t	2.71
I	50 x 50 x 4mm Angle section struts in truss rafters	t	1.15
J	60 x 60 x 4mm Angle section struts in truss rafters	t	1.88
<p><u>The following in (No. 9) steel girder trusses 15000mm span x average 2500mm high hot dip galvanised after manufacture including flat section gusset plates, connections, bolts, etc.</u></p>			
K	102 x 203 x 23.1kg/m T-section (cut from H-Section) rafters in top chord	t	3.57
L	102 x 203 x 23.1kg/m T-section (cut from H-Section) rafters in bottom chord	t	3.57
M	80 x 80 x 6mm Angle section struts in girder rafters	t	3.10
Carried Forward			R
<p>Section No. 2 WAREHOUSE EXTENSION Bill No. 4 STRUCTURAL STEEL 1785-BQ</p>			

Brought Forward			R
A	90 x 90 x 6mm Angle section struts in girder rafters	t	3.15
	<u>The following in gable rafters hot dip galvanised after manufacture including flat section gusset plates, connections, bolts, etc.</u>		
B	203 x 133 x 25kg/m I - section gable rafter	t	3.22
	<u>The following in eaves strut hot dip galvanised after manufacture including flat section gusset plates, connections, bolts, etc.</u>		
C	127mm Diameter x 9.2kg/m Tubular - section eaves strut	t	0.94
	<u>The following in roof and vertical bracing hot dip galvanised after manufacture including flat section gusset plates, connections, bolts, etc.</u>		
D	89mm Diameter x 6.4kg/m tubular horizontal bracing	t	1.67
E	102mm Diameter x 7.3kg/m tubular horizontal bracing	t	1.47
F	127mm Diameter x 9.2kg/m tubular horizontal bracing	t	3.04
G	89mm Diameter x 6.4kg/m tubular vertical bracing	t	0.83
H	114mm Diameter x 8.3kg/m tubular vertical bracing	t	1.29
I	50 x 50 x 3mm Angle section knee bracing	t	3.35
J	50 x 50 x 3mm Angle section horizontal sag angles	t	2.29
K	50 x 50 x 3mm Angle section vertical sag angles	t	1.34
	<u>The following in dockleveller canopy hot dip galvanised after manufacture including flat section gusset plates, connections, bolts, etc.</u>		
L	254 x 146 x 31kg/m I - section rafters (No. 10 canopy rafters)	t	1.47
M	102mm Diameter x 7kg/m tubular bracing	t	0.46
Carried Forward			R
Section No. 2 WAREHOUSE EXTENSION Bill No. 4 STRUCTURAL STEEL 1785-BQ			

Brought Forward			R
A	102mm Diameter x 7kg/m tubular hanger	t	0.33
<u>The following in roller shutter and dock leveller door surrounds hot dip galvanised after manufacture including flat section gusset plates, connections, bolts, etc.</u>			
B	3mm Thick plate girth 220mm bent once	t	0.20
C	6mm Thick plate girth 520mm bent twice	t	1.54
D	150 x 100 x 8mm Angle-section in short lengths	t	0.10
E	100 x 100 x 8mm Angle-section in short lengths	t	0.50
F	305 x 165 x 41kg/m I - section	t	1.89
<u>Cold rolled purlins and girts hot dip galvanised after manufacture including connections, bolts, etc.</u>			
G	150 x 75 x 20 x 2,5mm Lipped channel section purlins	t	18.12
H	150 x 65 x 20 x 2,5mm Lipped channel section purlins (canopies)	t	1.25
I	150 x 75 x 20 x 2,5mm Lipped channel section ventilator trimmers	t	1.12
J	150 x 75 x 20 x 2,5mm Lipped channel section girts	t	10.15
<u>The following in holding down bolts, etc hot dip galvanised after manufacture</u>			
K	M20 Mild steel holding down bolt 590mm long end threaded and fitted with two nuts and washers (casting in position elsewhere measured)	No	160
L	M24 Mild steel holding down bolt 654mm long end threaded and fitted with two nuts and washers (casting in position elsewhere measured)	No	36
Carried Forward			R
Section No. 2 WAREHOUSE EXTENSION Bill No. 4 STRUCTURAL STEEL 1785-BQ			

Brought Forward					
<u>The following in expanding bolts, etc hot dip galvanised after manufacture</u>					
A	M16 Hilti or equal approved HIT -V rods 150mm long with HIT - RE 500 epoxy adhesive including mortice in brickwork or concrete	No	52		
<u>TRANSPORT TO SITE, OFFLOADING, SITE STORAGE AND ERECTION OF STEELWORK</u>					
B	Columns	t	38.78		
C	Beams	t	0.64		
D	False rafters	t	0.64		
E	Trusses (approximately 11m above ground level)	t	39.60		
F	Girder trusses (approximately 11m above ground level)	t	13.39		
G	Rafters	t	3.22		
H	Eaves strut	t	0.94		
I	Bracing	t	15.28		
J	Dockleveller canopy	t	2.26		
K	Roller shutter door surrounds	t	4.23		
L	Purlins and cladding rails	t	30.64		
Carried Forward to Summary of Section No. 2					R
Section No. 2 WAREHOUSE EXTENSION Bill No. 4 STRUCTURAL STEEL 1785-BQ					

Item No		Quantity	Rate	Amount
	<u>BILL NO. 5</u>			
	<u>BRICK STRUCTURE</u>			
	<u>BRICKWORK</u>			
	<u>Brickwork in burnt clay NFP bricks in Class II mortar</u>			
A	110mm Wall	m2	35	
B	230mm Wall	m2	145	
C	270mm Hollow wall formed of two 110mm skins with cavity between including wire ties	m2	626	
D	Build 50mm wide cavity of hollow wall solid for one course at top of wall	m	215	
E	Build 50mm wide cavity of hollow wall solid 110mm wide at end of wall or reveals of opening	m	107	
	<u>Sundries</u>			
F	Weepholes through outer half brick thickness of hollow wall formed by leaving every fourth perpend open in one course	m	226	
G	Class II mortar triangular fillet 50mm wide and one course high to bottom of cavity of hollow wall to receive stepped dampproof course	m	226	
H	75mm wide galvaniswd brick reinforcement	m	5,148	
I	150mm Wide galvanised brick reinforcement	m	580	
J	70 x 102mm Prestressed concrete lintol not exceeding 3m long cut to lengths with both ends built into brickwork including propping	m	55	
K	70 x 152mm Prestressed concrete lintol not exceeding 3m long cut to lengths with both ends built into brickwork including propping	m	55	
	Carried Forward			R
	Section No. 2 WAREHOUSE EXTENSION Bill No. 5 BRICK STRUCTURE 1785-BQ			

	Brought Forward			R
A	1,2mm Galvanised hoop iron tie 30mm wide and 700mm girth, one end gun nailed to steel stanchion or concrete column and other end built into brickwork	No	1,292	
	<u>Movement joints, etc.</u>			
B	10mm Expanded polyethylene expansion joint filler fixed vertically between brick and concrete surfaces not exceeding 300mm wide	m	330	
	<u>WATERPROOFING</u>			
C	375 Micron polyethylene sheeting complying with SANS 952 Type C as dampproof course on walls, reveals, etc.	m2	72	
	<u>Pointing</u>			
D	Rake out 10mm expansion joint filler for a depth of 10mm, prime and point with polysulphide sealant complying with SANS 110 Type 2 Gun Grade	m	330	
Carried Forward to Summary of Section No. 2				R
Section No. 2 WAREHOUSE EXTENSION Bill No. 5 BRICK STRUCTURE 1785-BQ				

Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>ROOF COVERINGS</u>			
	<u>METAL ROOF COVERINGS</u>			
	Note: The Contractor will be required to provide a ten year written guarantee in respect of this roof sheeting			
	<u>Klip-Lok 406 concealed fix aluminium sheeting to match existing with Global-Tech 5000 finish to one side and accessories</u>			
A	0,8mm Roof sheeting in single continuous lengths fixed to steel purlins spaced at approximately 1700mm centres with KL 65 clips including stop ends at apex and turn down at eaves	m2	4,229	
B	0,8mm Ridge capping 550mm girth, three times bent and notched to suit roof profile.	m	46	
C	0,8mm Gable trim 550mm girth three times bent in the length	m	113	
D	0,8mm Gutter flashing 375mm girth, two times bent in the length	m	91	
E	0,8mm Back flashing to louvred ventilator 2100mm girth twice bent and fixed to roof sheeting	m	25	
F	0,8mm Boxing in of smoke vent 375mm girth, two times bent in the length	m	112	
G	1,6mm Smoke ventilator support 175mm girth three times bent in the length	m	25	
H	Broad flute polyclosers sealed with sealing compound	m	91	
I	Narrow flute polyclosers sealed with sealing compound	m	91	
J	Cut opening size 1800 x 2200mm in roof sheeting	No	14	
	Carried Forward			R
	Section No. 2 WAREHOUSE EXTENSION Bill No. 6 ROOFS 1785-BQ			

Brought Forward			R
<u>Klip-Lok 406 conceal fix aluminium sheeting to match existing with Global-Tech 5000 finish to both sides and accessories</u>			
A	0,8mm Roof sheeting in single continuous lengths to canopy fixed to steel purlins spaced at approximately 1200mm centres with KL 65 clips including stop ends at apex and turn down at eaves	m2	180
B	0,8mm Gutter flashing 375mm girth, two times bent and notched on site to suit roof profile.	m	45
C	0,8mm Gable trim 550mm girth three times bent in the length	m	8
D	0,8mm Back flashing to canopy suspension arm 250mm girth and twice bent in the length and fixed to roof sheeting	m	36
E	0,8mm Cover flashing size 250 x 500mm fixed to side cladding around canopy suspension arm penetration	No	9
<u>Tie-in to existing roof</u>			
F	Provisional sum of R25 000.00 (Twenty Five Thousand Rand) net for tie-in to existing roof to be used as directed by the Engineer	Item	25,000.00
<u>Roof insulation</u>			
G	Super Sisalation FR430 or equal approved fire retardant industrial grade reinforced aluminium foil over purlins with 1,6mm galvanised straining wires	m2	4,229
Carried Forward			R
Section No. 2 WAREHOUSE EXTENSION Bill No. 6 ROOFS 1785-BQ			

Brought Forward		R
<u>Slope mounted smoke ventilators</u>		
A	RVI Orion B15 or equal approved, low profile smoke ventilator complete, slope mounted, throat size 1616mm wide x 2059mm long x 150mm high overall, with bird mesh, burglar bars, wind deflector and dust seals, fixed through roof sheeting to steel purlins at 1850mm centres including watertight joints, necessary sealing strips, fixing accessories, etc. Ventilators complete with 24V Linear actuator & 138'C fusible link. Ventilators installed in accordance with the manufacturer's instructions to comply with EN12101-2 as per SANS 10400 (Part T) requirements.	No 16
B	RVI Orion or equal approved Control System, comprising of 300 x 400 x 200mm metal box with cable entry on top, voltage supply input of 230V/ac-50hz, voltage supply output of 27V/dc (+/-10%) and battery back-up of 2 x 12v/dc 7,5Ah with 72 hour emergency power supply, fire detection interface and emergency push button for maximum of 12, rain, wind, thermostat and CO2 compatible sensors all in accordance with EN12101-10	Item
C	Maintenance contract comprising two (2No) one day site inspections within the first year to inspect, service and certify compliance	Item
D	Delivery to site, hire of cherry picker and collection for use in installing ventilators and smoke screens	Item
<u>Smoke curtains</u>		
E	Cofab 3200-2-SP or equal approved fibre glass fabric smoke baffle fixed in position to roof steelwork complete as per manufacturer's instructions	m2 185
<u>The following in roof to warehouse offices</u>		
<u>Sawn S A Pine tanalith treated Grade M4</u>		
F	50 x 152mm Rafters with and including hangers	m 236
Carried Forward		R
Section No. 2 WAREHOUSE EXTENSION Bill No. 6 ROOFS 1785-BQ		

Brought Forward			R
A	38 x 228mm Fascia board	m	80
B	21mm Thick shutterply boards fixed to timber rafters	m2	136
<u>PLUMBING</u>			
<u>Colour Tech G4 aluminium rainwater goods and fittings</u>			
C	0,9mm Aluminium VHV box gutter size 220 x 250 x 250mm with beaded front edge and fix to falls on and including brackets spaced at 750mm centres with brackets fixed to steel sheeting rails	m	91
D	Extra for stop end	No	4
E	Extra for outlet with nozzle for 200mm diameter rainwater pipe	No	11
F	0,9mm Aluminium VHV box gutter size 220 x 250 x 200mm with beaded front edge and fix to falls on and including brackets spaced at 750mm centres with brackets fixed to steel sheeting rails	m	46
G	Extra for stop end	No	2
H	Extra for outlet with nozzle for 200mm diameter rainwater pipe	No	5
<u>uPVC pipe complying with SANS 967 as rainwater pipes</u>			
I	200mm Rainwater pipe and fixing to vertical cladding rails and plugged to walls with aluminium alloy screw-back type downpipe clips fixed to and including angle brackets with and including U bolts at 1500mm centres	m	163
J	Extra for bends	No	16
K	Extra for shoe	No	16
Carried Forward to Summary of Section No. 2			R
Section No. 2 WAREHOUSE EXTENSION Bill No. 6 ROOFS 1785-BQ			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 7</u>			
	<u>VERTICAL CLADDING</u>			
	Note: The Contractor will be required to provide a ten year written guarantee in respect of this vertical cladding			
	<u>METAL CLADDINGS</u>			
	<u>Klip-Lok 406 conceal fix aluminium sheeting to match existing with Global-Tech 5000 finish to one side and accessories</u>			
A	0,8mm Side cladding in single lengths lapped one corrugation at sides of sheets and fixed to steel cladding rails at approximately 1750mm centres with 19mm stainless steel hexagonal head top speed fasteners and stainless steel and bitumen washers	m2	1,807	
B	Raking cutting and waste	m	113	
C	0,8mm Birdproofing 200mm girth once bent in the length vertically at junction of vertical cladding and roof sheeting	m	204	
D	0,8mm Vertical external corner trim 616mm girth three times bent in the length	m	26	
E	0,8mm Internal corner flashing 231mm girth three times bent in the length between top of wall and bottom steel girt	m	10	
F	0,8mm Drip flashing 154mm girth, three times bent	m	204	
G	0,8mm Z-flashing 231mm girth three times bent in the length	m	294	
H	0,8mm Serrated broad flute closer	m	204	
I	Broad flute polyclosers sealed with sealing compound	m	204	
	Carried Forward			R
	Section No. 2 WAREHOUSE EXTENSION Bill No. 7 VERTICAL CLADDING 1785-BQ			

		Brought Forward		R
A	Narrow flute polyclosers sealed with sealing compound	m	204	
	<u>Galvanised steel flashing</u>			
B	1,6mm Purlin extension 175mm girth three times bent in the length	m	294	
	<u>Polycarbonate sheeting</u>			
C	Opal 50 1,25mm thick polycarbonate vertical cladding in single short lengths to match Klip-Lok profile in single lengths average 1,6m long lapped half a corrugation at sides of sheets and fixed to steel cladding rails spaced at approximately 1500mm centres with stainless steel top speed fasteners and stainless steel and PVC washers	m2	166	
Carried Forward to Summary of Section No. 2				R
Section No. 2 WAREHOUSE EXTENSION Bill No. 7 VERTICAL CLADDING 1785-BQ				

Item No		Quantity	Rate	Amount
	<u>BILL NO. 8</u>			
	<u>EXTERNAL FINISHES</u>			
	<u>BRICKWORK</u>			
	<u>External Cills</u>			
A	15 x 150mm fibre cement window cill set level on and including mortar bed slightly projecting beyond plastered wall face	m	3	
	<u>IN SITU FINISHES</u>			
	<u>One coat external 1:5 cement plaster finished smooth with a wood float</u>			
	<u>On brickwork</u>			
B	Walls	m2	752	
C	Walls and reveals in narrow widths not exceeding 300mm wide	m2	15	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 WAREHOUSE EXTENSION Bill No. 8 EXTERNAL FINISHES 1785-BQ			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 9</u>			
	<u>INTERNAL WALL FINISHES</u>			
	<u>CARPENTRY</u>			
	<u>Wrot Meranti</u>			
A	22 x 144mm Bullnosed cill plugged to wall with heads of screws sunk and pelleted	m	2	
	<u>IN SITU FINISHES</u>			
	<u>One coat internal 1:5 cement plaster finished smooth with a steel trowel</u>			
	<u>On brickwork</u>			
B	Walls	m2	1,052	
C	Walls and reveals in narrow widths not exceeding 300mm wide	m2	87	
	<u>TILING</u>			
	<u>Supply only ceramic wall tiles PC R250.00 (Two Hundred and Fifty Rand) per square metre net including all necessary waste (rate to include for waste) (area measured is net area of tiling)</u>			
D	Walls	m2	19	
E	Walls and reveals in narrow widths not exceeding 300mm wide	m2	2	
F	Attic stock	m2	4	
	<u>Take delivery, store until required and fix 200 x 200mm ceramic tiles (supply of tiles elsewhere measured) to plastered surfaces with TAL Professional cement based powder adhesive and flush point in TAL wall & floor waterproof grout</u>			
G	Walls	m2	19	
	Carried Forward			R
	Section No. 2 WAREHOUSE EXTENSION Bill No. 9 INTERNAL FINISHES 1785-BQ			

	Brought Forward			R
A	Walls and reveals in narrow widths not exceeding 300mm wide	m2	2	
	<u>Sundries</u>			
B	Kirk or equal approved aluminium 10mm straight edge trim Code ASE100	m	30	

Carried Forward to Summary of Section No. 2

Section No. 2
 WAREHOUSE EXTENSION
 Bill No. 9
 INTERNAL FINISHES
1785-BQ

R

Item No		Quantity	Rate	Amount
	<u>BILL NO. 10</u>			
	<u>FLOOR FINISHES</u>			
	<u>CARPENTRY</u>			
	<u>Skirtings</u>			
A	19 x 69mm Wrot Meranti angle rounded skirting plugged to wall	m	37	
	<u>IN SITU FINISHES</u>			
	<u>1:3 Cement mortar screed finished smooth with a steel trowel on concrete to receive floor finishes</u>			
B	25mm Thick to floors	m2	79	
	<u>TILING</u>			
	<u>Supply only porcelain floor tiles PC R350.00 (Three Hundred and Fifty Rand) per square metre net including all necessary waste (rate to include for waste) (area measured is nett area of tiling)</u>			
C	Floors	m2	152	
D	Skirting 100mm high	m	91	
E	Attic stock	m2	4	
	<u>Take delivery, store until required and fix 600 x 600mm porcelain tiles (supply of tiles elsewhere measured) with 3mm joints to screeded surface unless otherwise described with TAL Gold Star 6 rapid setting adhesive (mix 20kg adhesive bag with 5 litres of TAL bonding liquid) and flush point in TAL wall & floor waterproof grout</u>			
F	Floors	m2	152	
G	Skirting 100mm high	m	91	
	Carried Forward			R
	Section No. 2 WAREHOUSE EXTENSION Bill No. 10 FLOOR FINISHES 1785-BQ			

	Brought Forward		R
	<u>Sundries</u>		
A	Kirk or equal approved aluminium 10mm straight edge trim Code ASE100 to top of tiled skirting	m	91
B	Kirk or equal approved aluminium 10mm straight edge trim Code ASE100 between floor finishes	m	4
Carried Forward to Summary of Section No. 2			R
Section No. 2 WAREHOUSE EXTENSION Bill No. 10 FLOOR FINISHES 1785-BQ			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 11</u>			
	<u>CEILINGS</u>			
	<u>SUSPENDED NON-METAL CEILINGS</u>			
	<u>Suspended ceilings</u>			
A	Suspended ceiling formed of exposed tee system with 25mm wide tees with aluminium pre-painted low sheen satin exposed tees, built in with and including 12,7mm Rhinodek vinyl laminated ceiling tiles size 1200 x 600mm complete with holding down clips and suspended not exceeding 500mm below timber rafters at 750mm centres including any necessary supplementary support system	m2	152	
B	Extra for trimming around recessed light fittings size 600 x 600mm	No	25	
	<u>Cornices</u>			
C	Donn or equal approved SM25 Shadowline cornice with capping of aluminium pre-painted low sheen satin colour white plugged to wall for gypsum plastered ceilings	m	128	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 WAREHOUSE EXTENSION Bill No. 11 CEILINGS 1785-BQ			

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 12</u></p> <p><u>ALUMINIUM WINDOWS, SHOPFRONTS AND DOORS</u></p> <p><u>GENERAL SPECIFICATION</u></p> <p><u>Scope</u></p> <p>This general specification specifies materials, construction, finishes, fastenings, installation and performance standards for aluminium alloy shopfronts, doors and windows.</p> <p><u>Materials</u></p> <p>Extruded aluminium members shall be fabricated from alloy of designation 6063 or 6061 complying with BS EN 755</p> <p>Ancillary members such as cills, flashings, infill panels and the like which may be formed from flat sheet material having an appropriate alloy selected from alloy designations - 1200 or 3004 or 5251, of a temper suitable for the method of forming and a composition suitable for anodising or painting as required. Alloys shall comply with BS EN 573</p> <p><u>Anodising</u></p> <p>All architectural anodising shall be in strict accordance with SANS 999</p> <p><u>Powder coating</u></p> <p>All architectural powder coating shall be in accordance with SANS 1796 and SANS 1578</p> <p><u>Air Infiltration</u></p> <p>All fenestration air infiltration shall be in accordance with SANS 613 as per part XA of SANS 10400</p>			
	Carried Forward			R
	<p>Section No. 2 WAREHOUSE EXTENSION Bill No. 12 ALUMINIUM WINDOWS, DOORS AND SHOPFRONTS 1785-BQ</p>			

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Construction

Construction shall comply with the minimum performance requirements contained in the relevant "Selection Guides" as published by AAAMSA from time to time.

Designs not covered by AAAMSA shall comply with SANS 0160 specification in particular and current National Building Regulations.

Note:

Notwithstanding the foregoing, the sub-contractor must ensure the strength and stiffness of the aluminium section/s to be used i.e. after any surface finishing has been applied, is adequate for the purpose. The manufacturer shall at all times ensure that contact between incompatible materials shall be prevented.

Manufacture

Joints in frames and sashes shall be made by mechanical means (cleating, screwing, etc.) or by welding. Joints may have flush, stepped or lapped surfaces. Mitred joints shall only have flush surfaces.

The windows and door shall be free from all sharp edges, burrs and the like.

Welded joints shall be cleaned off smooth on surfaces abutting closing faces, i.e. glazing rebates, etc.

Hardware and fittings shall be removable without removing the aluminium frames from the structure.

Sliding members shall be constructed so that no metal to metal sliding contact occurs.

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Fittings

Weather sealing shall be of materials that are compatible with aluminium and shall be such that any degradation, shrinking, warping or adherence to closing surfaces does not impair the performance of the installation.

Glazing beads, gaskets and glazing compounds shall be of materials that are compatible with the aluminium, finishes, the glass or any other glazing materials.

Hardware, bearing devices and fittings in general must be made from non corrosive material, and shall be of a design so as to be accessible for adjustment, repair and replacement after the windows and door have been installed.

Fastenings shall be of materials which is compatible with aluminium and aluminium finishes.

Sub-frames shall be to manufacturer's specification and design and be compatible with aluminium and aluminium finishes.

Installation

Installation shall be such that the installed products are undamaged, securely anchored, sealed and meet with the above construction requirements in an installed position.

Exposed surfaces are to be protected by means of low tack adhesive tape

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Glazing

Glazing shall be carried out in accordance with current National Building Regulations Part B (structure), N (glazing), T (fire) and read in conjunction with SANS Code of Practice 10137 - including other SANS Standards referred to in this specification particularly the appropriate parts of SANS 10400 & 1263 and AAAMSA selection guide for safety glazing materials.

All Safety Glazing materials (individual panes) shall be permanently marked. Such marking to be visible after glazing.

In the case of structural glazing written proof is to be provided that all stages of fabrication and installation have been executed with disciplined quality assurance in accordance with the relevant parts of SANS ISO 9000.

Written confirmation of compatibility of structural sealant with extrusion surface, glazing tape and glass is to be supplied by the structural sealant manufacturer together with the regular test reports regarding the adhesion of the sealant to the aluminium frame in accordance with ASTM/C 794-80 (Standard test of adhesion-in-peel of elastometric joint sealants)

Performance Test Certificates, Warranties, etc.

All curtain walls, windows, doors and shopfronts are to meet the performance requirements for air leakage, water penetration and uniform loading of the Association of Architectural Aluminium Manufacturers of South Africa. The Contractor will be required to provide the following:

Tender Stage - Returnable Documentation with Tender

1. An AAAMSA Performance Test Certificate, as issued by the Manufacture/specialist Contractor supplying/installing the glazed architectural products, for each framing

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system, testifying that their products meet the requirements of the specified Performance Class Designation.

**FAILURE TO SUBMIT THESE
CERTIFICATES AT TENDER STAGE
WILL RESULT IN THE TENDER BEING
NON-COMPLIANT**

Prior to Commencement of any site work

A full set of detailed manufacturing drawings/manuals relevant to the installed products.

Upon Completion of all site work at Practical Completion

1. An AAAMSA Performance Test Certificate
2. An AAAMSA Surface Finishing Certificate of conformance in respect of product finishes such as anodising and powder coating.
3. A guarantee on powder coating of not less than 15 years against peeling and discolouration.
4. A warranty in laminated glass against delamination and colour degradation for a period of not less than 5 years.
5. An AAAMSA Glass and Glazing Certificate of conformance in respect of all glazed sections, glazed in accordance with National Building Regulations

Testing of windows for watertightness

All windows, doors and shopfronts shall be tested for watertightness with water sprayed on using adequate pressure. If in the opinion of the Principal Agent, the pressure proves to be inadequate, then the pressure shall be boosted by means of compressed air or other approved means

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Reference to drawings

All descriptions are for reference purposes only and must be read in conjunction with the attached drawings to ascertain the full scope and extent of the works.

Contractor to provide shop details

Shop details are required. The contractor shall submit shop drawings to the Architect two weeks prior to fabrication, written approval of shop drawings must be given by the Architect prior to ordering of materials and fabrication. The Contractor shall, prior to submitting his shop drawings to the Architect, carefully check all dimensions of existing structures to ascertain the correctness of "As Built" dimensions and information as provided by the Architect. The Contractor's shop details shall make provision for any deviation from this information. No shop details will be provided by the Architect.

Sealing

All joints between aluminium sections and wall finishes to be polyurethane sealed both sides (internal and external)

Carried Forward

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Brought Forward		R
<u>ALUMINIUM WINDOWS</u>		
<u>Wispeco 38 series or equal approved matt black powder coated aluminium windows including setting up and building in and glazing with thickness and type of glass to comply with current National Building Regulations Part B, N, T and SANS 10137, SANS 10400, SANS 1263 & AAAMSA SELECTION GUIDE for SAFETY GLAZING MATERIALS</u>		
A	Window type B size 600 x 1200mm glazed with and including ColourVue translucent arctic snow white NS laminated safety glass all in accordance with addendum drawing No. xxxx-01-A-BAS-P-500-00	No 2
B	Window type D size 1200 x 1200mm glazed with and including SolarVue NS laminated safety glass all in accordance with addendum drawing No. xxxx-01-A-BAS-P-500-00	No 1
<u>Nuklip or equal approved natural anodised aluminium windows including setting up and building in and glazing with thickness and type of glass to comply with current National Building Regulations Part B, N, T and SANS 10137, SANS 10400, SANS 1263 & AAAMSA SELECTION GUIDE for SAFETY GLAZING MATERIALS</u>		
C	Window type E size 1200 x 1200mm glazed with and including Armourplate clear laminated safety glass all in accordance with addendum drawing No. xxxx-01-A-BAS-P-500-00	No 5
<u>Nuklip or equal approved natural anodised aluminium shopfronts and doors including setting up and building in and glazing with thickness and type of glass to comply with current National Building Regulations Part B, N, T and SANS 10137, SANS 10400, SANS 1263 & AAAMSA SELECTION GUIDE for SAFETY GLAZING MATERIALS</u>		
D	Door type K overall size 900 x 2125mm with and including ClearVue NS laminated safety glass all in accordance with addendum drawing No. xxxx-01-A-BAS-P-500-00	No 4
Carried Forward		R
Section No. 2 WAREHOUSE EXTENSION Bill No. 12 ALUMINIUM WINDOWS, DOORS AND SHOPFRONTS 1785-BQ		

Brought Forward		R
<p><u>HBS Window Wall System or qual approved matt black powder coated aluminium shopfronts and doors including setting up and building in and glazing with thickness and type of glass to comply with current National Building Regulations Part B, N, T and SANS 10137, SANS 10400, SANS 1263 & AAAMSA SELECTION GUIDE for SAFETY GLAZING MATERIALS</u></p>		
A	Door type J overall size 900 x 2125mm including SolarVue NS laminated safety glass all in accordance with addendum drawing No. xxxx-01-A-BAS-P-500-00	No 1
<p><u>IRONMONGERY</u></p>		
<p><u>Hinges, etc</u></p>		
B	ALUFAB 1040 or equal approved 100mm aluminium sinkless hinges	Pairs 4.0
<p><u>Locks, etc</u></p>		
C	DORMAKABA PHX02 or equal approved Top and bottom locking latches	No 2
D	DORMAKABA PHX04 or equal approved Top and bottom rods for 2270mm high door	Sets 2.0
E	DORMAKABA D034S SS or equal approved multiple lever sash lock	No 1
F	DORMAKABA DKE-001 SS or equal approved round KH escutcheon	Pairs 1.0
<p><u>Door furniture, etc.</u></p>		
G	DORMAKABA PH2112 or equal approved push pad panic latch	No 2
H	DORMAKABA TH124 Cyl SS or equal approved lever handle on rose with cylinder escutcheons	Sets 1.0
Carried Forward		R
<p>Section No. 2 WAREHOUSE EXTENSION Bill No. 12 ALUMINIUM WINDOWS, DOORS AND SHOPFRONTS 1785-BQ</p>		

Item No		Quantity	Rate	Amount
	<u>BILL NO. 13</u>			
	<u>DOORS</u>			
	<u>BRICKWORK</u>			
A	Galvanised steel door cramp with one end screwed to timber frame and other end built into brickwork	No	18	
	<u>JOINERY</u>			
	<u>Semi-solid flush doors complying with SANS 545 with two hardwood concealed edges</u>			
B	40 x 813 x 2032mm Door with hardboard facing on both sides	No	3	
C	Under cut 813mm wide semi-solid door by 150mm	No	2	
	<u>Wrot Meranti doors</u>			
D	44 x 813 x 2032mm Swartland Cape Culture stock framed, ledged and braced batten door and fitted with 19 x 69mm moulded weatherboard	No	3	
	<u>Wrot Meranti framed door frames and set up and build in position</u>			
E	70 x 90mm Stock rebated frame for door size 813 x 2032mm with cill	No	3	
	<u>Wrot Meranti door mouldings</u>			
F	16mm Quadrant bead	m	15	
	<u>IRONMONGERY</u>			
	<u>Hinges, etc</u>			
G	DORMAKABA DBB-SS-009 or equal approved 102 x 75 x 3mm two ball bearing butt hinge	Pairs	4.5	
	Carried Forward			R
	Section No. 2 WAREHOUSE EXTENSION Bill No. 13 DOORS 1785-BQ			

Brought Forward			R
<u>Locks, etc</u>			
A	DORMAKABA PHX02 or equal approved Top and bottom locking latches	No	3
B	DORMAKABA PHX04 or equal approved Top and bottom rods for 2270mm high door	Sets	3.0
C	DORMAKABA D035S SS or equal approved bathroom sash lock	No	2
D	DORMAKABA DWC-005 or equal approved red and white WC indicator and turnknob	Sets	2
<u>Door furniture, etc.</u>			
E	DORMAKABA PH2112 or equal approved push pad panic latch	No	3
F	DORMAKABA TH124 Cyl SS or equal approved lever handle on rose with cylinder escutcheons	Sets	2.0
G	DORMAKABA DPH209 BTB or equal approved 200 x 22mm straight tubular pull handle including fixing sets	Pairs	1
<u>Door closer, etc.</u>			
H	DORMAKABA TS90-SL EN3/4 or equal approved Cam action slide channel NON HOLD OPEN door closer	No	1
<u>Hooks, etc.</u>			
I	DORMAKABA DHC-SS-030A or equal approved hat and coat hook	No	2
<u>Signage</u>			
J	DORMAKABA DSS-132 MF or equal approved 150 x 150mm MALE/FEMALE sign	No	1
Carried Forward			R
Section No. 2 WAREHOUSE EXTENSION Bill No. 13 DOORS 1785-BQ			

Brought Forward			R
	<u>Sundries</u>		
A	DORMAKABA DDS-SS-017 or equal approved floor mounted door stop	No	3
	<u>METALWORK</u>		
	<u>Pre-galvanised double rebated pressed steel door frames and set up and build in position</u>		
B	Frame for door size 813 x 2032mm to suit 110mm brick wall	No	3
	<u>Roller shutter doors</u>		
C	Chain operated galvanised steel roller shutter door to suit clear opening size 3000 x 4500mm high complete with galvanised T bar with rubber seal at bottom edge of door, canopy, channel guides fitted with anti-rattle plastic/nylon profiles and locking mechanism and fix in position including bolting to brickwork, concrete and structural steelwork	No	1
	<u>Insulated sectional doors</u>		
D	Richards-Wilcox or equal approved Model RWT175 vertical lift chain operated manual sectional door fabricated from pre-painted white hot dipped galvanised steel with rigid polyurethane insulation core (finish: White Stucco Embossed) to suit clear opening size 3000 x 3000mm high complete weather seals, 2no. glazed viewing panels size 200 x 600mm, 50,8mm galvanised steel track, hinges, brackets, springs, etc. and fix in position including bolting to brickwork, concrete or structural steelwork (Supplier Stab-A-Load: Tel No. (011) 900 2559)	No	7
Carried Forward to Summary of Section No. 2			R
Section No. 2 WAREHOUSE EXTENSION Bill No. 13 DOORS 1785-BQ			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 14</u>			
	<u>SUNDRIES</u>			
	<u>IRONMONGERY</u>			
	<u>Toilet roll holder</u>			
A	Franke or equal approved stainless steel satin toilet roll holder plugged to wall (code: BS 677)	No	2	
	<u>Towel rail</u>			
B	Halcast 261 or equal approved 19mm Diameter chrome plated steel towel rail 400mm long with pair of chromium plated wall brackets plugged to wall	No	2	
	<u>METALWORK</u>			
	<u>Dock leveller, surround seals and bump rails</u>			
C	Supply, deliver and install fully galvanised Stab-A-Load or equal approved LX710 air powered dock leveller size 2845mm x 2110mm with working range of 320mm above and 200mm below dock and maximum weight load of 10 tonnes complete with heavy duty laminated bumpers and galvanised pit frame	No	7	
	<u>Seals and bumpers</u>			
D	Provisional sum of R75 000.00 (Seventy Five Thousand Rand) net for seals and bumpers to be used as directed by the Engineer		Item	75,000.00
	<u>GLAZING</u>			
	<u>Mirrors</u>			
E	4mm Float glass silver backed mirror size 400 x 600mm with ground and polished edges four times holed for and plugged to wall with chromium plated dome headed screws and cork washers at back	No	2	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 WAREHOUSE EXTENSION Bill No. 14 SUNDRIES 1785-BQ			

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 15</u></p>			
<p><u>PLUMBING AND DRAINAGE</u></p>			
<p><u>Special Preamble</u></p>			
<p><u>Classes of Excavation</u></p>			
<p>All materials encountered in any excavation for any purpose including restricted excavation will be classified as follows:</p>			
<p>(a) Soft Rock Excavation</p>			
<p>Soft rock excavation shall be excavation in material that requires a back-acting excavator of flywheel power exceeding 0,10 kw per millimetre of tined-bucket width or the use of pneumatic tools.</p>			
<p>(b) Hard Rock Excavation</p>			
<p>Hard rock excavation shall be excavation in material (including undecomposed boulders exceeding 0.17 cubic metres in individual volume) that cannot be efficiently removed without blasting, wedging and splitting, or hydraulic hammers.</p>			
<p>This classification includes materials such as:</p>			
<ul style="list-style-type: none"> - solid unfractured rock occurring in bulk - solid ledges thicker than 200mm - igneous rock intrusions - cemented sedimentary rocks 			
<p>Carried Forward</p>			<p>R</p>
<p>Section No. 2 WAREHOUSE EXTENSION Bill No. 15 PLUMBING AND DRAINAGE 1785-BQ</p>			

Brought Forward			R
<u>WATER SUPPLIES</u>			
<u>Copper water supply pipes complying with SANS 460 Class II with brass compression couplings</u>			
A	15mm Pipe and fixing to walls, chases, roofs etc. including labour bends	m	18
B	22mm Pipe and fixing to walls, chases, roofs etc. including labour bends	m	12
<u>Extra over copper pipes for the following copper capillary fittings</u>			
C	15mm Elbow, tee, connector, etc.	No	12
D	22mm Elbow, tee, connector, etc.	No	8
<u>Extra over copper pipes for the following brass compression fittings</u>			
E	15mm Elbow, tee, connector, etc.	No	12
F	22mm Elbow, tee, connector, etc.	No	5
<u>Valves, etc. complying with SANS 226 and connections to copper pipes including connectors</u>			
G	15mm Chromium plated angle valve	No	6
H	15mm Braided hose connections approximately 300mm long to fittings	No	6
I	22mm Cobra or equal approved lever type ball-o-stop including adaptors to copper pipe	No	1
J	15mm Cobra or equal approved Ledimo LO-214-15 chromium plated pillar tap with and including aerator outlet and flanged backnut	No	4
K	20mm Cobra or equal approved 108 brass hose tap	No	1
L	Cobra or equal approved D-33XS-22 Wallplate elbow coupler fixed to wall	No	1
Carried Forward			R
Section No. 2 WAREHOUSE EXTENSION Bill No. 15 PLUMBING AND DRAINAGE 1785-BQ			

Brought Forward			R
<u>SANITARY PLUMBING</u>			
<u>Rigid PVC waste, soil and vent pipes complying with SANS 967</u>			
A	40mm Pipe and fixing to walls, chases, roofs etc.	m	2
B	50mm Pipe and fixing to walls, chases, roofs, etc.	m	9
C	110mm Pipe and fixing to walls, chases, roofs, etc.	m	5
<u>Extra over PVC pipes for</u>			
D	110mm Vent cowl	No	1
E	110mm End cap	No	2
F	50 x 40mm Reducer	No	2
G	40mm Bend	No	2
H	50mm Bend	No	3
I	110mm Bend	No	2
J	40mm Inspection eye bend	No	4
K	110mm Inspection eye bend	No	2
L	50mm Junction	No	3
M	40mm Inspection eye junction	No	4
N	50mm Inspection eye junction	No	3
O	110mm Inspection eye junction	No	2
P	110mm Inspection eye reducing junction	No	2
Q	110mm Inspection eye double reducing junction	No	1
R	110mm Pan connector and neoprene joint to outlet of pan	No	2
Carried Forward			R
Section No. 2 WAREHOUSE EXTENSION Bill No. 15 PLUMBING AND DRAINAGE 1785-BQ			

Brought Forward							
<u>Overflow pipes, traps etc.</u>							R
A	32mm Cobra or equal approved 345/40 chromium plated bottle trap and joint to outlet of fitting and PVC pipe	No		2			
<u>SANITARY FITTINGS</u>							
B	Lecico Atlas or equal approved (code: SUPSETFFL0N0SBE) vitreous china comprising semi close couple 90° outlet open rim wash down pan and 9 litre cistern including lid, fitments and chrome plated side flush lever including Lecico MDF (code: CHISEASTD0MDFUC) seat and cover plate, fix in position including bedding pan to floor, bolting cistern to wall and connecting up flush pipe	No		2			
C	Lecico "Atlas 50cm" or equal approved (code: ATLBASWHU0500UE) wall hung basin size 500 x 175 x 410mm with one tap hole complete with Cobra basin waste (code: COB-309), intergrated overflow including plug and chromium plated chain, fixed to wall including silicone sealant around fitting	No		2			
<u>SOIL DRAINAGE</u>							
<u>uPVC drainpipes and fittings with spigot and socket joints with 0 ring seals complying with SANS 791</u>							
D	110 mm Pipe vertically in ground (no excavation)	m		2			
E	110 mm Pipe and laying in ground not exceeding 1m deep including excavating trench, granular sand bedding 150mm thick under, around and above pipe compacted in multiple layers not exceeding 150mm thick to 93% Mod AASHTO density and backfilling to ground level with material arising from the excavations compacted in multiple layers not exceeding 150mm thick to 95% modified AASHTO density	m		13			
<u>Extra over uPVC pipes for the following uPVC fittings</u>							
F	110mm Bend	No		4			
Carried Forward							R

Section No. 2
 WAREHOUSE EXTENSION
 Bill No. 15
 PLUMBING AND DRAINAGE
 1785-BQ

Brought Forward			R
A	110mm Junction	No	2
B	110mm Access junction	No	2
<u>Sundries</u>			
C	PVC gully comprising P-trap with 110mm outlet, hopper head fitted with PVC grid, the whole encased in plain concrete 15MPa/19mm stone carried up to form kerb 75mm high above paving or ground level and dished to grating, finished smooth on exposed surfaces in cement mortar with rounded angles, including excavation, formwork. etc.	No	1
<u>TESTING</u>			
D	Test the plumbing and drainage installation		Item
<u>SUNDRIES</u>			
E	Extra over all excavations for carting away from site surplus excavated material	m3	4
F	Keep the trench and inspection chamber excavations free from water other than subterranean and seepage water		Item
<u>BUILDERS WORK INCLUDING MAKING GOOD</u>			
G	Chase in brickwork for pipe not exceeding 50mm diameter	m	12
H	Hole through 270mm hollow wall for pipe not exceeding 100mm diameter	No	2
I	Ditto for pipe not exceeding 200mm diameter	No	2
Carried Forward to Summary of Section No. 2			R
Section No. 2 WAREHOUSE EXTENSION Bill No. 15 PLUMBING AND DRAINAGE 1785-BQ			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 16</u>			
	<u>PAINTING</u>			
	<u>ON PLASTER ETC.</u>			
	<u>Prepare, one coat plaster primer thinned with 10% mineral turpentine and two coats Polvin Super Acrylic PVA paint internally</u>			
A	Plastered walls ("White" colour group)	m2	712	
	<u>Prepare, one coat plaster primer thinned with 10% mineral turpentine and two coats acrylic washable emulsion sheen paint internally</u>			
B	Plastered walls ("Pastel" colour group)	m2	427	
	<u>Prepare, one coat plaster primer thinned with 10% mineral turpentine and two coats Polvin Super Acrylic PVA paint externally</u>			
C	Plastered walls ("Pastel" colour group)	m2	767	
	<u>ON FIBRE CEMENT</u>			
	<u>Prepare, one coat plaster primer diluted with 10% mineral turpentine and two coats Polvin Super Acrylic PVA paint</u>			
D	Cills not exceeding 300mm girth ("Pastel" colour group)	m2	1	
	<u>ON METAL</u>			
	<u>Prepare, degrease with galvanised iron cleaner, prime with galvanised iron primer, one coat universal undercoat and two coats polyurethane enamel paint</u>			
E	Galvanised pressed steel door frames ("Dark" colour group)	m2	9	
	<u>ON WOOD</u>			
F	Prime backs of frames	m2	1	
	Carried Forward			R
	Section No. 2 WAREHOUSE EXTENSION Bill No. 16 PAINTING 1785-BQ			

Brought Forward		R
<u>Prepare, one coat wood primer, one coat universal undercoat and two coats polyurethane enamel paint</u>		
A	Framed, ledged and braced batten doors ("Deep" colour group) m2	11
B	Flush doors ("Deep" colour group) m2	11
C	Frames and linings including narrow widths ("Deep" colour group) m2	4
D	Fascias, etc. including narrow widths ("Deep" colour group) m2	9
E	Skirting, cill, etc. not exceeding 300mm girth ("Deep" colour group) m	39
<u>REDECORATION</u>		
<p>The term "clean down" shall mean that existing painted surfaces shall be treated in the following manner prior to applying the paint required:</p> <p>Existing PVA finished plaster surfaces shall be rubbed down ready to receive new PVA but where the PVA is in a poor condition, or otherwise unsuitable to receive further coats, or where the plaster is to receive a finish other than PVA, the old PVA shall be completely removed by wetting and scraping, and the surfaces filled where necessary and rubbed down ready to receive the new finishings</p> <p>Existing painted plaster surfaces shall be washed down, filled where necessary, spot primed and rubbed down ready to receive new paint.</p> <p>Existing painted metal surfaces shall be thoroughly rubbed and cleaned down before repainting, but where paint film has blistered or broken down, the paint must be completely removed down to the bare metal.</p>		
Carried Forward		R
Section No. 2 WAREHOUSE EXTENSION Bill No. 16 PAINTING 1785-BQ		

	Brought Forward			R
	<p>After cleaning off rust on metalwork, those portions so affected shall be treated with an approved rust inhibitor.</p> <p>Existing woodwork previously painted shall be washed and rubbed down before repainting, but where the old paint must be completely removed back to the bare surface by the use of a blow lamp or paint removed, and the woodwork knotted, primed, stopped and rubbed down ready to receive new paint.</p> <p>Care must be taken in burning off old paint not to char or otherwise damage the woodwork, and paint removers used must be free from soda or other caustic substances.</p> <p>Existing oiled or varnished wood shall be scraped as may be necessary, stopped with tinted stopping and rubbed down and existing woodwork shall be cleaned and similarly stopped and rubbed down.</p> <p><u>Clean down existing surfaces, prepare and two coats Polvin Super acrylic PVA paint internally</u></p>			
A	Plastered walls ("White" colour group)	m2	264	
	<p><u>Clean down existing surfaces, prepare and two coats acrylic washable emulsion sheen paint internally</u></p>			
B	Plastered walls ("Pastel" colour group)	m2	249	
C	Plastered drywall partitions ("Pastel" colour group)	m2	107	
	<p><u>Clean down existing surfaces, prepare and two coats Polvin Super Acrylic PVA paint externally</u></p>			
D	Plastered walls ("Pastel" colour group)	m2	385	
	<p><u>Clean down existing surfaces, prepare and two coats polyurethane enamel paint</u></p>			
E	Flush doors ("Deep" colour group)	m2	26	
F	Frames and linings including narrow widths ("Deep" colour group)	m2	8	
	Carried Forward to Summary of Section No. 2			R
	<p>Section No. 2 WAREHOUSE EXTENSION Bill No. 16 PAINTING 1785-BQ</p>			

SECTION SUMMARY - WAREHOUSE EXTENSION

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3	SURFACE BEDS	127	
4	STRUCTURAL STEEL	136	
5	BRICK STRUCTURE	138	
6	ROOFS	142	
7	VERTICAL CLADDING	144	
8	EXTERNAL FINISHES	145	
9	INTERNAL FINISHES	147	
10	FLOOR FINISHES	149	
11	CEILINGS	150	
12	ALUMINIUM WINDOWS, DOORS AND SHOPFRONTS	159	
13	DOORS	162	
14	SUNDRIES	163	
15	PLUMBING AND DRAINAGE	168	
16	PAINTING	171	
	Carried to Final Summary		R
	Section No. 2 WAREHOUSE EXTENSION 1785-BQ		

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>OFFICE BLOCK EXTENSION</u>			
	<u>BILL NO. 1</u>			
	<u>ALTERATIONS AND DEMOLITIONS</u>			
	<u>TEMPORARY SCREENS AND HOARDINGS</u>			
	<u>Temporary hoardings</u>			
A	Provide, erect and maintain temporary hoarding 2100mm high with 22mm five-ply shutterboard including support framework and remove on completion and make good to any surfaces disturbed	m	33	
	<u>Dust proof hoarding</u>			
B	Provisional sum of R15 000.00 (Fifteen Thousand Rand) net for dust proof hoarding to be used as directed by the Engineer		Item	15,000.00
	<u>DEMOLITIONS</u>			
	<u>Note:</u> Prices for the following items are to include for carefully cutting through all material encountered in the line of the demolitions. Any damage caused to adjoining surfaces will be made good with material to match existing at the Contractor's own expense.			
	<u>Demolish, break up or take out and remove</u>			
	<u>Concrete</u>			
C	Concrete steps	m3	1	
D	Concrete columns	m3	2	
E	Concrete plinths	m3	10	
	<u>Brickwork</u>			
F	110mm Wall including finishes	m2	11	
	Carried Forward			R
	Section No. 3 OFFICE BLOCK EXTENSION Bill No. 1 ALTERATIONS AND DEMOLITIONS			

Brought Forward			R
A	270mm Wall including finishes	m2	16
B	340mm Wall including finishes	m2	25
	<u>Steel structure</u>		
C	150 x 65 x 20 x 2.5mm Lipped channel section girts	m	37
	<u>Roofs and side cladding</u>		
D	Vertical cladding and polycarbonate sheeting fixed to steel cladding rails (removal of cladding rails elsewhere measured)	m2	55
E	Corner trim fixed to cladding rails	m	6
F	Drip flashing fixed to cladding rails	m	9
	<u>Wall finishes</u>		
G	Ceramic tiles to plastered walls	m2	5
	<u>Floor finishes</u>		
H	Floor tiles	m2	76
	<u>Ceilings</u>		
I	Ceiling tiles including steel grid and hangers	m2	76
	<u>Windows</u>		
J	Aluminium window size 900 x 900mm high	No	1
K	Aluminium window size 1800 x 1200mm high	No	1
L	Aluminium window size 3160 x 1200mm high	No	1
	<u>Doors, etc.</u>		
M	Timber door size 900 x 2100mm high complete with frame, ironmongery, architraves, etc	No	1
N	Aluminium door size 1700 x 2100mm high complete with frame, ironmongery, etc	No	1
Carried Forward			R
Section No. 3 OFFICE BLOCK EXTENSION Bill No. 1 ALTERATIONS AND DEMOLITIONS 1785-BQ			

Brought Forward			R
A	Aluminium door size 2100 x 2100mm high complete with frame, ironmongery, etc	No	1
	<u>Joinery</u>		
B	Floor cupboard fitting size 600mm wide x 900mm high	m	2
	<u>Sundries</u>		
C	Mirror size 500 x 1250mm high	No	2
	<u>External works</u>		
D	60mm Thick precast concrete interlocking paving bricks	m2	27
E	Precast concrete sunken kerb size 150 x 75mm high	m	18
	<u>Take out and remove piping, sanitary fittings, etc. including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>		
F	Wash hand basin complete with mixer, waste, etc. including disconnecting and stopping off water supply and waste pipes	No	3
G	Sink complete with mixer, waste, etc. including disconnecting and stopping off water supply and waste pipes	No	1
H	Urinal complete with flush pipe, waste, etc. including disconnecting and stopping off water supply and waste pipes	No	1
	<u>Carefully take off and set aside for re-use or hand over to Employer</u>		
I	Steel staircase comprising two flights of stairs and two landings overall size 10000 x 1200mm wide complete with balustrading	No	1
J	Aluminium sun louvre size 5600mm long x 900mm wide	No	1
Carried Forward			R
Section No. 3 OFFICE BLOCK EXTENSION Bill No. 1 ALTERATIONS AND DEMOLITIONS 1785-BQ			

	Brought Forward			R
A	5 000 Litre JoJo vertical tank size 2230mm diameter x 1560mm high complete	No	4	
	<u>Take out from store and re-fix</u>			
B	Aluminium sun louvre size 5600mm long x 900mm wide and fixed to wall	No	1	
	<u>Build up, alter or break new openings in existing walls</u>			
	<u>Break new openings</u>			
C	Break through existing 270mm hollow wall for and form new window opening size 900 x 1200mm high, form new lintol over, build cavity solid at reveals and under cill, build damp proof course to reveals and under cill and make good smooth plaster to walls and reveals on both sides	No	1	
	<u>Building up openings</u>			
D	Build up existing door opening size 900 x 2100mm high in 270mm wall and make good smooth plaster on both sides	No	1	
E	Build up existing door opening size 1200 x 2100mm high in 230mm wall and make good smooth plaster on both sides	No	1	
	<u>SUNDRY ALTERATIONS</u>			
	<u>Relocation of existing water tanks</u>			
F	Provisional sum of R25 000.00 (Twenty Five Thousand Rand) net for relocation of existing water tanks to be used as directed by the Engineer		Item	25,000.00
	<u>Relocation and modifications to existing staricase</u>			
G	Provisional sum of R50 000.00 (Fifty Thousand Rand) net for relocation of existing staircase to be used as directed by the Engineer		Item	50,000.00
	Carried Forward to Summary of Section No. 3			R
	Section No. 3 OFFICE BLOCK EXTENSION Bill No. 1 ALTERATIONS AND DEMOLITIONS 1785-BQ			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 2</u>			
	<u>FOUNDATIONS</u>			
	<u>EARTHWORKS</u>			
	<u>Special Preamble</u>			
	<u>Classes of Excavation</u>			
	All materials encountered in any excavation for any purpose including restricted excavation will be classified as follows:			
	(a) Soft Rock Excavation Soft rock excavation shall be excavation in material that requires a back-acting excavator of flywheel power exceeding 0,10 kw per millimetre of tined-bucket width or the use of pneumatic tools.			
	(b) Hard Rock Excavation Hard rock excavation shall be excavation in material (including undecomposed boulders exceeding 0.17 cubic metres in individual volume) that cannot be efficiently removed without blasting, wedging and splitting, or hydraulic hammers.			
	This classification includes materials such as:			
	<ul style="list-style-type: none"> - solid unfractured rock occurring in bulk - solid ledges thicker than 200mm - igneous rock intrusions - cemented sedimentary rocks 			
	<u>Excavate in earth and deposit excavated material on site for use as filling or backfilling (elsewhere measured)</u>			
A	Foundation trenches not exceeding 2m deep	m3	39	
B	Bases not exceeding 2m deep	m3	14	
	Carried Forward			R
	Section No. 3 OFFICE BLOCK EXTENSION Bill No. 2 FOUNDATIONS 1785-BQ			

Brought Forward			R
A	Extra over excavation in earth for excavation in soft rock	m3	3
B	Ditto but in hard rock	m3	3
<u>Sundries</u>			
C	Extra over all excavations for carting away from site surplus excavated material	m3	23
D	Risk of collapse to sides of excavations not exceeding 1,5m deep	m2	128
E	Risk of collapse to sides of excavations exceeding 1,5m deep	m2	9
F	Keep the excavations free of water other than subterranean and seepage water		Item
<u>Filling, etc.</u>			
G	Granular earth filling arising from the excavations compacted in multiple layers not exceeding 150mm thick to 93% Mod AASHTO density in backfilling to foundation excavations	m3	31
<u>CONCRETE</u>			
<u>Test cubes</u>			
H	Set of three concrete strength cubes each size 150 x 150 x 150mm, send to an independent laboratory for test crushing including all charges	Sets	2
<u>Plain concrete 10MPa/19mm stone</u>			
I	Blinding under bases and footings cast against excavated surfaces	m3	0.4
J	Blinding under footing cast against excavated surfaces	m3	1
Carried Forward			R
Section No. 3 OFFICE BLOCK EXTENSION Bill No. 2 FOUNDATIONS 1785-BQ			

Brought Forward			R
<u>Reinforced concrete 25MPa/19mm stone</u>			
A	Foundation trenches cast against excavated surfaces	m3	7
B	Bases cast against excavated surfaces	m3	3
<u>Reinforced concrete 30MPa/19mm stone</u>			
C	Stub columns	m3	0.3
<u>Sundries</u>			
D	30mm Thick Prostruct Five Star or equal approved non-shrink cementateous grout caulked in between top of concrete and underside of steel base plate	m2	0.3
E	Ditto but in filling to pocket size 75 x 75 x 150mm deep around 20mm holding down bolt	No	8
F	Cast set of four holding down bolts in exact position in top of concrete stub column including forming of pocket size 75 x 75 x 150mm deep in top of concrete around each bolt, template, etc.	No	2
G	16mm Diameter dowel rods 300mm long including drilling 150mm deep into existing concrete footing and fixed with Hilti HIT - RE500 epoxy grout	No	21
<u>ROUGH FORMWORK</u>			
<u>Rough formwork to sides, edges, risers, etc.</u>			
H	Square or rectangular stub columns not exceeding 3,5m high above bearing	m2	4
<u>REINFORCEMENT</u>			
<u>Mild steel reinforcement</u>			
I	8mm Diameter	t	0.75
J	10mm Diameter	t	0.13
Carried Forward			R
Section No. 3 OFFICE BLOCK EXTENSION Bill No. 2 FOUNDATIONS 1785-BQ			

Brought Forward			R
<u>High tensile steel reinforcement</u>			
A	10mm Diameter	t	0.18
B	12mm Diameter	t	0.10
C	16mm Diameter	t	0.05
<u>BRICKWORK</u>			
<u>Brickwork in extra hard burnt clay NFP bricks in cement mortar</u>			
D	340mm Hollow wall formed of two 110mm skins with cavity between including wire ties and with cavity filled solid with and including reinforced concrete 25 MPa/13mm stone	m2	35
<u>Sundries</u>			
E	75mm Wide galvanised brick reinforcement	m	832
F	1,2mm Galvanised hoop iron tie 30mm wide and 700mm girth, one end gun nailed to steel stanchion or concrete column and other end built into brickwork	No	64
<u>Movement joints</u>			
G	10mm Expanded polyethylene expansion joint filler fixed vertically between brick and concrete surfaces not exceeding 300mm wide	m	5
<u>WATERPROOFING</u>			
<u>Derbigum or equal approved waterproofing comprising priming surface of substrata and 4mm thick Derbigum CG4 waterproofing laid with 100mm wide side laps and 150mm end laps sealed to substrata and at laps by torch-on fusion</u>			
H	Side of brick and concrete surfaces	m2	16
I	10mm Thick softboard	m2	16
Carried Forward			R
Section No. 3 OFFICE BLOCK EXTENSION Bill No. 2 FOUNDATIONS 1785-BQ			

		Brought Forward		R
A	Flashing at junction of waterproofing and wall surface	m	8	
	<u>Pointing</u>			
B	Rake out 10mm expansion joint filler for a depth of 10mm, prime and point with polysulphide sealant complying with SANS 110 Type 2 Gun Grade	m	5	
	<u>IN SITU FINISHES</u>			
	<u>Bagging to brick walls</u>			
C	Bag down brick walls to receive waterproofing	m2	16	
Carried Forward to Summary of Section No. 3				R
Section No. 3 OFFICE BLOCK EXTENSION Bill No. 2 FOUNDATIONS 1785-BQ				

Item No		Quantity	Rate	Amount
	<u>BILL NO. 3</u>			
	<u>SURFACE BEDS</u>			
	<u>EARTHWORKS</u>			
A	Excavate in earth not exceeding 2m deep to reduce levels under solid floors and deposit excavated material on site for use as filling or backfilling (elsewhere measured)	m3	21	
B	Scarify surface of ground to a depth of 150mm and compact to 90% Mod AASHTO density	m2	63	
C	150mm Compacted thickness sub-base of G5 material complying with SANS 1200 ME compacted to 98% Mod AASHTO density under surface beds	m2	63	
D	150mm Compacted thickness base course of G5 material complying with SANS 1200 ME compacted to 98% Mod AASHTO density under surface beds	m2	63	
E	25mm Thick compacted sand bed spread and levelled under solid floors	m2	63	
	<u>Sundries</u>			
F	Extra over all excavations for carting away from site surplus excavated material	m3	21	
	<u>CONCRETE</u>			
	<u>Test cubes</u>			
G	Set of three concrete strength cubes each size 150 x 150 x 150mm, send to an independent test laboratory for test crushing including all charges	Sets	1	
	<u>Plain concrete 25MPa/19mm stone</u>			
H	Surface beds including striking off and curing	m3	6	
	Carried Forward			R
	Section No. 3 OFFICE BLOCK EXTENSION Bill No. 3 SURFACE BEDS 1785-BQ			

Brought Forward			R
<u>Sundries</u>			
A	Extra for curing top of surface bed with plastic sheeting	m2	63
B	Power float top of concrete surface bed to a smooth surface in one operation	m2	63
C	Saw cut size 3 x 70mm deep in top of concrete surface bed, reamed out to 6 x 20mm deep at top edge	m	16
<u>Movement joints</u>			
D	10mm Expanded polyethylene expansion joint filler not exceeding 300mm wide vertically between brick and concrete surfaces	m	35
<u>REINFORCEMENT</u>			
<u>Mesh reinforcement</u>			
E	Reference 245 fabric reinforcement with 300mm wide side and end laps vertically in cavity of retaining wall	m2	63
<u>WATERPROOFING</u>			
F	250 Micron polyethylene sheeting complying with SANS 952 Type C with joints sealed with pressure sensitive tape and laying under concrete surface beds including turn-ups at walls	m2	63
<u>Pointing</u>			
G	Rake out and vacuum clean saw cut size 6 x 20mm deep in top of concrete surface bed, prime, insert polycord backing strip and point 6 x 10mm joint with Sikaflex 11FC or equal approved polyurethane sealant	m	16
H	Rake out 10mm expanded polyethylene expansion joint filler for a depth of 10mm, prime and point with Sikaflex PRO 2HP or equal approved polyurethane sealant	m	35
Carried Forward to Summary of Section No. 3			R
Section No. 3 OFFICE BLOCK EXTENSION Bill No. 3 SURFACE BEDS 1785-BQ			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 4</u>			
	<u>REINFORCED CONCRETE STRUCTURE</u>			
	<u>CONCRETE</u>			
	<u>Test Cubes</u>			
A	Set of three concrete strength cubes each size 150 x 150 x 150 mm, send to an independant laboratory for test crushing including all charges	Sets	4	
	<u>Reinforced concrete 25MPa/19mm stone</u>			
B	Slabs and beams including striking off and curing	m3	19	
C	Independent beams	m3	4	
	<u>Reinforced concrete 30MPa/19mm stone</u>			
D	Columns	m3	3	
	<u>ROUGH FORMWORK</u>			
	<u>Rough formwork to soffits and horsing up not exceeding 3,5m high</u>			
E	Slab not exceeding 250mm thick	m2	71	
F	Beams	m2	11	
G	Independent beams	m2	8	
	<u>Rough formwork to sides, edges, risers, etc.</u>			
H	Square or rectangular columns not exceeding 3,5m high above bearing	m2	22	
I	Square or rectangular columns not exceeding 5m high above bearing	m2	28	
J	Beams	m2	47	
K	Sides of independent beams	m2	34	
	Carried Forward			R
	Section No. 3 OFFICE BLOCK EXTENSION Bill No. 4 REINFORCED CONCRETE STRUCTURE 1785-BQ			

		Brought Forward	
A	Edge not exceeding 300mm high	m	10
	<u>Extra on rough formwork for blocking in, boxing in or out, etc. including angles, stop ends, etc. to form</u>		
B	20 x 20mm Chamfer	m	180
	<u>REINFORCEMENT</u>		
	<u>Mild steel reinforcement</u>		
C	8mm Diameter	t	0.47
D	10mm Diameter	t	0.56
	<u>High tensile steel reinforcement</u>		
E	10mm Diameter	t	0.69
F	12mm Diameter	t	0.94
G	16mm Diameter	t	0.47

R

Carried Forward to Summary of Section No. 3

Section No. 3
 OFFICE BLOCK EXTENSION
 Bill No. 4
 REINFORCED CONCRETE STRUCTURE
1785-BQ

R

Item No		Quantity	Rate	Amount
	<u>BILL NO. 5</u>			
	<u>BRICK STRUCTURE</u>			
	<u>BRICKWORK</u>			
	<u>Brickwork in burnt clay NFP bricks in Class II mortar</u>			
A	110mm Wall	m2	68	
B	110mm Walls in linings to concrete surfaces	m2	37	
C	110mm Shower kerb two courses high	m	1	
D	230mm Wall	m2	19	
E	270mm Hollow wall formed of two 110mm skins with cavity between including wire ties	m2	270	
F	340mm Hollow wall formed of two 110mm skins with cavity between including wire ties	m2	36	
G	Build 110mm wide cavity of hollow wall solid for one course at top of wall	m	38	
H	Build 50mm wide cavity of hollow wall solid 110mm wide at end of wall or reveals of opening	m	54	
I	Build 50mm wide cavity of hollow wall solid for two courses under cills	m	15	
	<u>Sundries</u>			
J	Weepholes through outer half brick thickness of hollow wall formed by leaving every fourth perpend open in one course	m	114	
K	Class II mortar triangular fillet 50mm wide and one course high to bottom of cavity of hollow wall to receive stepped dampproof course	m	76	
L	Class II mortar triangular fillet 110mm wide and one course high to bottom of cavity of hollow wall to receive stepped dampproof course	m	38	
	Carried Forward			R
	Section No. 3 OFFICE BLOCK EXTENSION Bill No. 5 BRICK STRUCTURE 1785-BQ			

Brought Forward			R
A	75mm wide galvaniswd brick reinforcement	m	2,828
B	150mm Wide galvanised brick reinforcement	m	76
C	70 x 102mm Prestressed concrete lintol not exceeding 3m long cut to lengths with both ends built into brickwork including propping	m	25
D	70 x 152mm Prestressed concrete lintol not exceeding 3m long cut to lengths with both ends built into brickwork including propping	m	20
E	1,2mm Galvanised hoop iron tie 30mm wide and 700mm girth, one end gun nailed to steel stanchion or concrete column and other end built into brickwork	No	440
<u>Movement joints, etc.</u>			
F	10mm Expanded polyethylene expansion joint filler fixed vertically between brick and concrete surfaces not exceeding 300mm wide	m	150
<u>WATERPROOFING</u>			
G	375 Micron polyethylene sheeting complying with SANS 952 Type C as dampproof course on walls, reveals, etc.	m2	51
H	Prepare and apply one coat bituminous paint on concrete surfaces abutting brickwork	m2	76
<u>Pointing</u>			
I	Rake out 10mm expansion joint filler for a depth of 10mm, prime and point with polysulphide sealant complying with SANS 110 Type 2 Gun Grade	m	150
Carried Forward to Summary of Section No. 3			R
Section No. 3 OFFICE BLOCK EXTENSION Bill No. 5 BRICK STRUCTURE 1785-BQ			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>INTERNAL PARTITIONS</u>			
	<u>Drywall Partitions</u>			
A	Drywall partition 3000mm high overall formed of 63,5mm drywall steel tracks with bottom track fixed to concrete floor and upper track to soffit of suspended ceiling and drywall studs spaced at 600mm centres, both sides covered with including 12,7mm Rhino drywall panels, the joints between boards covered with drywall jointing tape and finished with Rhinoglide drywall joint filler, with natural annodised aluminium channel to top rail	m	15	
B	Extra for end junction with wall including natural anodised aluminium channel at abutment with wall	No	7	
C	Extra for angle intersection	No	1	
D	Extra for T intersection	No	1	
E	Extra for trimming for and forming door opening to suit door size 813 x 2032mm and fitting with and including natural annodised aluminium frame (door and ironmongery elsewhere measured)	No	2	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3 OFFICE BLOCK EXTENSION Bill No. 6 INTERNAL PARTITIONS 1785-BQ			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 7</u>			
	<u>ROOF COVERINGS</u>			
	<u>WATERPROOFING</u>			
	Note: The Contractor will be required to provide a ten year written guarantee in respect of this roof sheeting			
	<u>Derbigum or equal approved waterproofing comprising priming surface of substrater and 3mm thick derbigum SP waterproofing laid with 75mm wide side laps and 100mm wide end laps with waterproofing sealed to screed and at laps by tortion on fusion</u>			
A	Vertical and horizontal surfaces of plastered brickwork and concrete beam	m2	30	
B	Two coats bituminous based aluminium paint on derbigum waterproofing	m2	30	
	<u>ROOF COVERINGS AND VERTICAL CLADDING</u>			
	Note: The Contractor will be required to provide a ten year written guarantee in respect of this roof sheeting and vertical cladding			
	<u>Klip-Lok 406 conceal fix aluminium sheeting to match existing with Global-Tech 5000 finish to one side and accessories</u>			
C	0,8mm Roof sheeting in single continous lengths fixed to timber purlins spaced at approximately 1200mm centres with KL 65 clips including stop ends at apex and turn down at eaves	m2	62	
D	0,8mm Headwall flashing 375mm girth, two times bent and notched on site to suit roof profile.	m	8	
E	0,8mm Sidewall flashing 408mm girth, two times bent	m	18	
	Carried Forward			R
	Section No. 3 OFFICE BLOCK EXTENSION Bill No. 7 ROOFS 1785-BQ			

Brought Forward			R
A	0,8mm Counter flashing 185mm girth, two times bent	m	26
B	0,8mm Gutter flashing 375mm girth, two times bent in the length	m	8
C	Broad flute polyclosers	m	8
D	Narrow flute polyclosers	m	8
<u>Roof Insulation</u>			
E	Isover Aerolite or equal approved 135mm thick non-combustible insulation blanket with aluminium foil facing laid over purlins with 1,6mm plastic coated straining wires all in accordance with the manufacturer's and/or suppliers specifications and recommendations	m2	62
<u>CARPENTRY</u>			
<u>Prefabricated timber roof trusses</u>			
F	Provisional sum of R25 000.00 (Twenty Five Thousand Rand) net for the design and supply of prefabricated timber roof trusses complete with bracing, brackets, bolts, clips, connectors, etc. to be supplied and delivered to site by a Selected Supplier	Item	25,000.00
G	Profit		%
<u>Take delivery, unload, store until required, hoist and fix in position the following roof members including all necessary temporary bracing and supports and cutting to lengths</u>			
<u>Hoisting and fixing approximately 6m above ground level</u>			
H	Single pitch roof truss 5.5m span and 3° pitch	No	2
I	Single pitch roof truss 8.6m span and 3° pitch	No	6
J	38 x 76mm Web and cross bracing	m	32
Carried Forward			R
Section No. 3 OFFICE BLOCK EXTENSION Bill No. 7 ROOFS 1785-BQ			

Brought Forward			R
A	38 x 114mm Windbracing	m	24
	<u>Sawn S A Pine tanalith treated Grade M4</u>		
B	50 x 76mm Purlins	m	85
	<u>Sundries</u>		
C	Teco standard galvanised sheet iron hurricane clip nailed to timber truss and purlin	No	96
D	Teco 90° standard galvanised sheet iron truss hanger to suit 38mm timber	No	16
E	8 x 30mm Galvanised coach screw and fixing	No	16
F	8mm Masonry expansion bolt 75mm long with nut and washer and fixing in and including mortice in brickwork or concrete	No	32
G	Hole through 38mm softwood for bolt	No	16
	<u>PLUMBING</u>		
	<u>0.8mm Aluminium mill finished gutters</u>		
H	VHV concealed box gutter size 200 x 270 x 200mm fixed to falls on timber trusses	m	8
I	Extra for stop end	No	4
J	Extra for outlet with nozzle for 110mm diameter rainwater pipe	No	3
	<u>uPVC rainwater goods</u>		
K	110mm Diameter rainwater pipe and fixing to walls with aluminium alloy screw-back type downpipe clips spaced one per length of downpipe and plugged to wall	m	21
L	Extra for shoe	No	3
	Carried Forward to Summary of Section No. 3		
	Section No. 3 OFFICE BLOCK EXTENSION Bill No. 7 ROOFS 1785-BQ		
			R

Item No		Quantity	Rate	Amount
	<u>BILL NO. 8</u>			
	<u>EXTERNAL FINISHES</u>			
	<u>BRICKWORK</u>			
	<u>External Cills</u>			
A	15 x 150mm fibre cement window cill set level on and including mortar bed slightly projecting beyond plastered wall face	m	15	
	<u>IN SITU FINISHES</u>			
	<u>One coat external 1:5 cement plaster finished smooth with a wood float</u>			
	<u>On brickwork</u>			
B	Walls	m2	382	
C	Slopping capping 25mm thick to top of external walls	m2	10	
D	Walls and reveals in narrow widths not exceeding 300mm wide	m2	12	
	<u>RESIN BONDED PLASTER FINISH</u>			
	<u>2mm Marmoran or equal approved PVC resin bonded trowel on plaster finish to random pattern externally</u>			
E	Plastered walls	m2	96	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3 OFFICE BLOCK EXTENSION Bill No. 8 EXTERNAL FINISHES 1785-BQ			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 9</u>			
	<u>INTERNAL WALL FINISHES</u>			
	<u>CARPENTRY</u>			
	<u>Wrot Meranti</u>			
A	22 x 144mm Bullnosed cill plugged to wall with heads of screws sunk and pelleted	m	15	
	<u>IN SITU FINISHES</u>			
	<u>One coat internal 1:5 cement plaster finished smooth with a steel trowel</u>			
	<u>On brickwork (small part on flush concrete)</u>			
B	Walls	m2	447	
C	Walls and reveals in narrow widths not exceeding 300mm wide	m2	15	
	<u>TILING</u>			
	<u>Supply only ceramic wall tiles PC R250.00 (Two Hundred and Fifty Rand) per square metre net including all necessary waste (rate to include for waste) (area measured is net area of tiling)</u>			
D	Walls	m2	41	
E	Splashbacks	m2	6	
F	Walls and reveals in narrow widths not exceeding 300mm wide	m2	3	
G	Attic stock	m2	4	
	Carried Forward			R
	Section No. 3 OFFICE BLOCK EXTENSION Bill No. 9 INTERNAL FINISHES 1785-BQ			

Brought Forward			R
<p><u>Take delivery, store until required and fix 200 x 200mm ceramic tiles (supply of tiles elsewhere measured) to plastered surfaces with TAL Professional cement based powder adhesive and flush point in TAL wall & floor waterproof grout</u></p>			
A	Walls	m2	41
B	Splashbacks	m2	6
C	Walls and reveals in narrow widths not exceeding 300mm wide	m2	3
<u>Sundries</u>			
D	Kirk or equal approved aluminium 10mm straight edge trim Code ASE100	m	48
Carried Forward to Summary of Section No. 3			R
Section No. 3 OFFICE BLOCK EXTENSION Bill No. 9 INTERNAL FINISHES 1785-BQ			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 10</u>			
	<u>FLOOR FINISHES</u>			
	<u>WATERPROOFING</u>			
	<u>Prepare and apply two coats ABE or equal approved Duraslurry elastomeric cementitious waterproof coating with each coat having a minimum 1mm film thickness</u>			
A	Plastered walls to showers	m2	8	
B	Screeded floors to showers	m2	1	
	<u>CARPENTRY</u>			
	<u>Skirtings</u>			
C	19 x 69mm Wrot Meranti angle rounded skirting plugged to wall	m	61	
	<u>RESILIENT FLOOR COVERINGS, ETC.</u>			
	<u>Carpeting</u>			
D	500 x 500mm Nexus Berber Point 920 or equal approved Stainproof NexBac Eco carpet tiles to screeded floors	m2	68	
	<u>IN SITU FINISHES</u>			
	<u>Screed leveller finished smooth with a steel trowel to receive floor tiles</u>			
E	Pavelite or equal approved screed leveller on existing screeded surfaces to receive new floor coverings	m2	76	
	<u>1:3 Cement mortar screed finished smooth with a steel trowel on concrete to receive floor finishes</u>			
F	25mm Thick to floors	m2	113	
G	65mm Average thick to shower floors to falls	m2	1	
	Carried Forward			R
	Section No. 3 OFFICE BLOCK EXTENSION Bill No. 10 FLOOR FINISHES 1785-BQ			

Brought Forward			R
A	15mm Thick to top and sides of shower kerb 450mm girth	m	1
<u>TILING</u>			
<u>Supply only porcelain floor tiles PC R350.00 (Three Hundred and Fifty Rand) per square metre net including all necessary waste (rate to include for waste) (area measured is nett area of tiling)</u>			
B	Floors	m2	108
C	Skirting 100mm high	m	97
D	Attic stock	m2	4
<u>Take delivery, store until required and fix 600 x 600mm porcelain tiles (supply of tiles elsewhere measured) with 3mm joints to screeded surface unless otherwise described with TAL Gold Star 6 rapid setting adhesive (mix 20kg adhesive bag with 5 litres of TAL bonding liquid) and flush point in TAL wall & floor waterproof grout</u>			
E	Floors	m2	108
F	Skirting 100mm high	m	97
<u>Supply only non-slip full body porcelain floor tiles PC R400.00 (Four Hundred Rand) per square metre net including all necessary waste (rate to include for waste) (area measured is nett area of tiling)</u>			
G	Floors	m2	13
H	Shower floors to falls with tiles cut to size 100 x 100mm	m2	1
I	Shower kerbs in narrow widths not exceeding 300mm wide	m2	1
J	Skirting 100mm high	m	28
K	Attic stock	m2	2
Carried Forward			R
Section No. 3 OFFICE BLOCK EXTENSION Bill No. 10 FLOOR FINISHES 1785-BQ			

Brought Forward			R
<p><u>Take delivery, store until required and fix 600 x 600mm non-slip full body porcelain tiles (supply of tiles elsewhere measured) with 3mm joints to screeded surface unless otherwise described with TAL Gold Star 6 rapid setting adhesive (mix 20kg adhesive bag with 5 litres of TAL bonding liquid) and flush point in TAL wall & floor waterproof grout</u></p>			
A	Floors	m2	13
B	Shower floors to falls with tiles cut to size 100 x 100mm	m2	1
C	Shower kerbs in narrow widths not exceeding 300mm wide	m2	1
D	Skirting 100mm high	m	28
<u>Sundries</u>			
E	Kirk or equal approved aluminium 10mm straight edge trim Code ASE100 to top of tiled skirting	m	125
F	Kirk or equal approved aluminium 10mm straight edge trim Code ASE100 between floor finishes	m	6
Carried Forward to Summary of Section No. 3			R
Section No. 3 OFFICE BLOCK EXTENSION Bill No. 10 FLOOR FINISHES 1785-BQ			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 11</u>			
	<u>CEILINGS</u>			
	<u>SUSPENDED NON-METAL CEILINGS</u>			
	<u>Suspended ceilings</u>			
A	Suspended ceiling formed of exposed tee system with 25mm wide tees with aluminium pre-painted low sheen satin exposed tees, built in with and including 12,7mm Rhinodek vinyl laminated ceiling tiles size 1200 x 600mm complete with holding down clips and suspended not exceeding 600mm below soffit of concrete slab including any necessary supplementary support system	m2	121	
B	Suspended ceiling formed of exposed tee system with 25mm wide tees with aluminium pre-painted low sheen satin exposed tees, built in with and including 12,7mm Rhinodek vinyl laminated ceiling tiles size 1200 x 600mm complete with holding down clips and suspended not exceeding 500mm below soffit of timber trusses including any necessary supplementary support system	m2	65	
C	Ditto but light fitting size 600 x 1200mm	No	41	
D	Cut and fit ceiling around 50mm diameter downlighter	No	83	
E	Ditto but 150mm diameter downlighter	No	62	
	<u>Cornices</u>			
F	Donn or equal approved SM25 Shadowline cornice with capping of aluminium pre-painted low sheen satin colour white plugged to wall for gypsum plastered ceilings	m	177	
	Carried Forward			R
	Section No. 3 OFFICE BLOCK EXTENSION Bill No. 11 CEILINGS 1785-BQ			

Brought Forward				R
<u>Ceiling insulation</u>				
A	Isover Aerolite or equal approved 75mm thick flexible acoustic insulation closely fitted with ends butted firmly and laid loose over existing ceiling tiles and drywall partitioning all in accordance with manufacturer's recommendations	m2	32	
<u>Bulkheads</u>				
B	Provisional sum of R15 000.00 (Fifteen Thousand Rand) net for bulkheads as instructed by the Engineer		Item	15,000.00
<u>IN SITU FINISHES</u>				
<u>One coat external 1:5 cement plaster finished smooth with a steel trowel</u>				
<u>On concrete</u>				
C	Soffit of slab	m2	1	
Carried Forward to Summary of Section No. 3				R
Section No. 3 OFFICE BLOCK EXTENSION Bill No. 11 CEILINGS 1785-BQ				

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 12</u></p> <p><u>ALUMINIUM WINDOWS, SHOPFRONTS AND DOORS</u></p> <p><u>GENERAL SPECIFICATION</u></p> <p><u>Scope</u></p> <p>This general specification specifies materials, construction, finishes, fastenings, installation and performance standards for aluminium alloy shopfronts, doors and windows.</p> <p><u>Materials</u></p> <p>Extruded aluminium members shall be fabricated from alloy of designation 6063 or 6061 complying with BS EN 755</p> <p>Ancillary members such as cills, flashings, infill panels and the like which may be formed from flat sheet material having an appropriate alloy selected from alloy designations - 1200 or 3004 or 5251, of a temper suitable for the method of forming and a composition suitable for anodising or painting as required. Alloys shall comply with BS EN 573</p> <p><u>Anodising</u></p> <p>All architectural anodising shall be in strict accordance with SANS 999</p> <p><u>Powder coating</u></p> <p>All architectural powder coating shall be in accordance with SANS 1796 and SANS 1578</p> <p><u>Air Infiltration</u></p> <p>All fenestration air infiltration shall be in accordance with SANS 613 as per part XA of SANS 10400</p>			
<p>Carried Forward</p>			<p>R</p>
<p>Section No. 3 OFFICE BLOCK EXTENSION Bill No. 12 ALUMINIUM WINDOWS AND DOORS 1785-BQ</p>			

Brought Forward

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Construction

Construction shall comply with the minimum performance requirements contained in the relevant "Selection Guides" as published by AAAMSA from time to time.

Designs not covered by AAAMSA shall comply with SANS 0160 specification in particular and current National Building Regulations.

Note:

Notwithstanding the foregoing, the sub-contractor must ensure the strength and stiffness of the aluminium section/s to be used i.e. after any surface finishing has been applied, is adequate for the purpose. The manufacturer shall at all times ensure that contact between incompatible materials shall be prevented.

Manufacture

Joints in frames and sashes shall be made by mechanical means (cleating, screwing, etc.) or by welding. Joints may have flush, stepped or lapped surfaces. Mitred joints shall only have flush surfaces.

The windows and door shall be free from all sharp edges, burrs and the like.

Welded joints shall be cleaned off smooth on surfaces abutting closing faces, i.e. glazing rebates, etc.

Hardware and fittings shall be removable without removing the aluminium frames from the structure.

Sliding members shall be constructed so that no metal to metal sliding contact occurs.

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Bill No. 12
ALUMINIUM WINDOWS AND DOORS
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Fittings

Weather sealing shall be of materials that are compatible with aluminium and shall be such that any degradation, shrinking, warping or adherence to closing surfaces does not impair the performance of the installation.

Glazing beads, gaskets and glazing compounds shall be of materials that are compatible with the aluminium, finishes, the glass or any other glazing materials.

Hardware, bearing devices and fittings in general must be made from non corrosive material, and shall be of a design so as to be accessible for adjustment, repair and replacement after the windows and door have been installed.

Fastenings shall be of materials which is compatible with aluminium and aluminium finishes.

Sub-frames shall be to manufacturer's specification and design and be compatible with aluminium and aluminium finishes.

Installation

Installation shall be such that the installed products are undamaged, securely anchored, sealed and meet with the above construction requirements in an installed position.

Exposed surfaces are to be protected by means of low tack adhesive tape

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OFFICE BLOCK EXTENSION
Bill No. 12
ALUMINIUM WINDOWS AND DOORS
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Glazing

Glazing shall be carried out in accordance with current National Building Regulations Part B (structure), N (glazing), T (fire) and read in conjunction with SANS Code of Practice 10137 - including other SANS Standards referred to in this specification particularly the appropriate parts of SANS 10400 & 1263 and AAAMSA selection guide for safety glazing materials.

All Safety Glazing materials (individual panes) shall be permanently marked. Such marking to be visible after glazing.

In the case of structural glazing written proof is to be provided that all stages of fabrication and installation have been executed with disciplined quality assurance in accordance with the relevant parts of SANS ISO 9000.

Written confirmation of compatibility of structural sealant with extrusion surface, glazing tape and glass is to be supplied by the structural sealant manufacturer together with the regular test reports regarding the adhesion of the sealant to the aluminium frame in accordance with ASTM/C 794-80 (Standard test of adhesion-in-peel of elastometric joint sealants)

Performance Test Certificates, Warranties, etc.

All curtain walls, windows, doors and shopfronts are to meet the performance requirements for air leakage, water penetration and uniform loading of the Association of Architectural Aluminium Manufacturers of South Africa. The Contractor will be required to provide the following:

Tender Stage - Returnable Documentation with Tender

1. An AAAMSA Performance Test Certificate, as issued by the Manufacture/specialist Contractor supplying/installing the glazed architectural products, for each framing

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Section No. 3
OFFICE BLOCK EXTENSION
Bill No. 12
ALUMINIUM WINDOWS AND DOORS
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system, testifying that their products meet the requirements of the specified Performance Class Designation.

**FAILURE TO SUBMIT THESE
CERTIFICATES AT TENDER STAGE
WILL RESULT IN THE TENDER BEING
NON-COMPLIANT**

Prior to Commencement of any site work

A full set of detailed manufacturing drawings/manuals relevant to the installed products.

Upon Completion of all site work at Practical Completion

1. An AAAMSA Performance Test Certificate
2. An AAAMSA Surface Finishing Certificate of conformance in respect of product finishes such as anodising and powder coating.
3. A guarantee on powder coating of not less than 15 years against peeling and discolouration.
4. A warranty in laminated glass against delamination and colour degradation for a period of not less than 5 years.
5. An AAAMSA Glass and Glazing Certificate of conformance in respect of all glazed sections, glazed in accordance with National Building Regulations

Testing of windows for watertightness

All windows, doors and shopfronts shall be tested for watertightness with water sprayed on using adequate pressure. If in the opinion of the Principal Agent, the pressure proves to be inadequate, then the pressure shall be boosted by means of compressed air or other approved means

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ALUMINIUM WINDOWS AND DOORS
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Reference to drawings

All descriptions are for reference purposes only and must be read in conjunction with the attached drawings to ascertain the full scope and extent of the works.

Contractor to provide shop details

Shop details are required. The contractor shall submit shop drawings to the Architect two weeks prior to fabrication, written approval of shop drawings must be given by the Architect prior to ordering of materials and fabrication. The Contractor shall, prior to submitting his shop drawings to the Architect, carefully check all dimensions of existing structures to ascertain the correctness of "As Built" dimensions and information as provided by the Architect. The Contractor's shop details shall make provision for any deviation from this information. No shop details will be provided by the Architect.

Sealing

All joints between aluminium sections and wall finishes to be polyurethane sealed both sides (internal and external)

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ALUMINIUM WINDOWS AND DOORS
1785-BQ

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ALUMINIUM WINDOWS

Wispeco 38 series or equal approved matt black powder coated aluminium windows including setting up and building in and glazing with thickness and type of glass to comply with current National Building Regulations Part B, N, T and SANS 10137, SANS 10400, SANS 1263 & AAAMSA SELECTION GUIDE for SAFETY GLAZING MATERIALS

A	Window type A size 900 x 1200mm glazed with and including ColourVue translucent arctic snow white NS laminated safety glass all in accordance with addendum drawing No. xxxx-01-A-BAS-P-500-00	No	6
B	Window type C size 1200 x 2100mm glazed with and including SolarVue NS laminated safety glass all in accordance with addendum drawing No.xxxx-01-A-BAS-P-500-00	No	2
C	Window type D size 1200 x 1200mm glazed with and including SolarVue NS laminated safety glass all in accordance with addendum drawing No.xxxx-01-A-BAS-P-500-00	No	4
<p><u>Nuklip or equal approved natural anodised aluminium windows including setting up and building in and glazing with thickness and type of glass to comply with current National Building Regulations Part B, N, T and SANS 10137, SANS 10400, SANS 1263 & AAAMSA SELECTION GUIDE for SAFETY GLAZING MATERIALS</u></p>			
D	Window type E size 1200 x 1200mm glazed with and including Armourplate clear laminated safety glass all in accordance with addendum drawing No. xxxx-01-A-BAS-P-500-00	No	2

Carried Forward

R

Section No. 3
 OFFICE BLOCK EXTENSION
 Bill No. 12
 ALUMINIUM WINDOWS AND DOORS
 1785-BQ

Brought Forward			R
<p><u>Nuklip or equal approved natural anodised aluminium shopfronts and doors including setting up and building in and glazing with thickness and type of glass to comply with current National Building Regulations Part B, N, T and SANS 10137, SANS 10400, SANS 1263 & AAAMSA SELECTION GUIDE for SAFETY GLAZING MATERIALS</u></p>			
A	Door type K overall size 900 x 2125mm with and including ClearVue NS laminated safety glass all in accordance with addendum drawing No. xxxx-01-A-BAS-P-500-00	No	2
B	Door type L overall size 1150 x 2125mm including ClearVue NS laminated safety glass all in accordance with addendum drawing No. xxxx-01-A-BAS-P-500-00	No	1
<p><u>HBS Window Wall System or equal approved matt black powder coated aluminium shopfronts and doors including setting up and building in and glazing with thickness and type of glass to comply with current National Building Regulations Part B, N, T and SANS 10137, SANS 10400, SANS 1263 & AAAMSA SELECTION GUIDE for SAFETY GLAZING MATERIALS</u></p>			
C	Door type D overall size 1690 x 2125mm with single door size 900 x 2125mm high including SolarVue NS laminated safety glass all in accordance with addendum drawing No. xxxx-01-A-BAS-P-500-00	No	1
<p><u>IRONMONGERY</u></p>			
<p><u>Hinges, etc</u></p>			
D	ALUFAB 1040 or equal approved 100mm aluminium sinkless hinges	Pairs	7.5
<p><u>Locks, etc</u></p>			
E	DORMAKABA PHX02 or equal approved Top and bottom locking latches	No	2
F	DORMAKABA PHX04 or equal approved Top and bottom rods for 2270mm high door	Sets	2.0
Carried Forward			R
<p>Section No. 3 OFFICE BLOCK EXTENSION Bill No. 12 ALUMINIUM WINDOWS AND DOORS 1785-BQ</p>			

Brought Forward			R
A	DORMAKABA D034S SS or equal approved multiple lever sash lock	No	1
B	DORMAKABA D036S SS or equal approved cylinder sash lock	No	1
C	DORMAKABA DDC056301 KA or equal approved 63mm 31.5 + 31.5mm Europrofile nickel plated E-SP 5 pin double cylinder - keyed alike	No	1
D	DORMAKABA DKE-001 SS or equal approved round KH escutcheon	Pairs	1.0
	<u>Door furniture, etc.</u>		
E	DORMAKABA CB30 Cyl SS or equal approved lever handle on 170 x 170mm plate with cylinder cut-out	Sets	1
F	DORMAKABA PH2112 or equal approved push pad panic latch	No	2
G	DORMAKABA TH124 Cyl SS or equal approved lever handle on rose with cylinder escutcheons	Sets	1.0
	<u>Flush bolts, etc.</u>		
H	DORMAKABA M1519AS or equal approved 150mm anodised aluminium flush bolt	No	2
	<u>Sundries</u>		
I	DORMAKABA DDS-SS-017 or equal approved floor mounted door stop	No	2
J	DORMAKABA DPS-SS-032 or equal approved dust proof strike	No	1
Carried Forward to Summary of Section No. 3			R
Section No. 3 OFFICE BLOCK EXTENSION Bill No. 12 ALUMINIUM WINDOWS AND DOORS 1785-BQ			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 13</u>			
	<u>DOORS</u>			
	<u>BRICKWORK</u>			
A	Galvanised steel door cramp with one end screwed to timber frame and other end built into brickwork	No	24	
	<u>JOINERY</u>			
	<u>Semi-solid flush doors complying with SANS 545 with two hardwood concealed edges</u>			
B	40 x 813 x 2032mm Door with hardboard facing on both sides	No	5	
C	Under cut 813mm wide semi-solid door by 150mm	No	2	
D	Cut opening size 400 x 500mm in solid flush door for ventilator grille (elsewhere measured)	No	1	
	<u>Wrot Meranti doors</u>			
E	44 x 813 x 2032mm Swartland Cape Culture stock framed, ledged and braced batten door and fitted with 19 x 69mm moulded weatherboard	No	4	
	<u>Wrot Meranti framed door frames and set up and build in position</u>			
F	70 x 90mm Stock rebated frame for door size 813 x 2032mm with cill	No	4	
	<u>Wrot Meranti door mouldings</u>			
G	16mm Quadrant bead	m	39	
	<u>IRONMONGERY</u>			
	<u>Hinges, etc</u>			
H	DORMAKABA DBB-SS-009 or equal approved 102 x 75 x 3mm two ball bearing butt hinge	Pairs	5.5	
	Carried Forward			R
	Section No. 3 OFFICE BLOCK EXTENSION Bill No. 13 DOORS 1785-BQ			

Brought Forward			R
A	ALUFAB 1040 or equal approved 100mm aluminium sinkless hinges <u>Locks, etc</u>	Pairs 	2.0
B	DORMAKABA PHX02 or equal approved Top and bottom locking latches	No	2
C	DORMAKABA PHX04 or equal approved Top and bottom rods for 2270mm high door	Sets	2.0
D	DORMAKABA D034S SS or equal approved multiple lever sash lock	No	3
E	DORMAKABA D035S SS or equal approved bathroom sash lock	No	2
F	DORMAKABA D036S SS or equal approved cylinder sash lock	No	1
G	DORMAKABA D037D SS or equal approved cylinder deadlock	No	1
H	DORMAKABA DDC056301 KA or equal approved 63mm 31.5 + 31.5mm Europrofile nickel plated E-SP 5 pin double cylinder - keyed alike	No	1
I	DORMAKABA DKC056501 KD or equal approved 65mm - 32.5 + 32.5mm Europrofile nickel plated E-SP 5 pin knob cylinder - key to differ	No	1
J	DORMAKABA DCE-002 SS or equal approved round cylinder escutcheon	Pairs	1.0
K	DORMAKABA DKE-001 SS or equal approved round KH escutcheon	Pairs	3.0
L	DORMAKABA DWC-005 or equal approved red and white WC indicator and turnknob <u>Door furniture, etc.</u>	Sets	2
M	DORMAKABA CB30 Cyl SS or equal approved lever handle on 170 x 170mm plate with cylinder cut-out	Sets	1
Carried Forward			R
Section No. 3 OFFICE BLOCK EXTENSION Bill No. 13 DOORS 1785-BQ			

Brought Forward			R
A	DORMAKABA PH2112 or equal approved push pad panic latch	No	2
B	DORMAKABA TH124 Cyl SS or equal approved lever handle on rose with cylinder escutcheons	Sets	5.0
C	DORMAKABA DPH209 BTB or equal approved 200 x 22mm straight tubular pull handle including fixing sets	Pairs	1
	<u>Door closer, etc.</u>		
D	DORMAKABA TS90-SL EN3/4 or equal approved Cam action slide channel NON HOLD OPEN door closer	No	1
	<u>Hooks, etc.</u>		
E	DORMAKABA DHC-SS-030A or equal approved hat and coat hook	No	2
	<u>Signage</u>		
F	DORMAKABA DSS-131 F or equal approved 150 x 150mm FEMALE sign	No	1
	<u>Sundries</u>		
G	DORMAKABA DDS-SS-017 or equal approved floor mounted door stop	No	4
H	DORMAKABA DDH-SS-020 or equal approved wall buffer	No	2
<u>METALWORK</u>			
<u>Pre-galvanised double rebated pressed steel door frames and set up and build in position</u>			
I	Frame for door size 813 x 2032mm to suit 110mm brick wall	No	3
Carried Forward			R
Section No. 3 OFFICE BLOCK EXTENSION Bill No. 13 DOORS 1785-BQ			

Brought Forward

R

ALUMINIUM WORK

Aluminium louvre units

A Natural anodised aluminium louvre grille size 500 x 600mm formed of outer frame and horizontal fixed louvre blades and fix in opening (opening elsewhere measured) in door

No

1

Carried Forward to Summary of Section No. 3

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Section No. 3
 OFFICE BLOCK EXTENSION
 Bill No. 13
 DOORS
1785-BQ

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 14</u></p> <p><u>JOINERY FITTINGS</u></p> <p><u>GENERAL SPECIFICATION</u></p> <p><u>Drawings, descriptions, etc.</u></p> <p>The fittings are to be constructed, installed and finished complete in accordance with the drawings issued with these bills of quantities and referred to in the descriptions of the fittings.</p> <p>The abbreviated descriptions of fittings are sufficient only to identify the respective fittings or group of fittings and their locations.</p> <p>The sizes of fittings are given either as length/girth x width x height or as length/girth x width or as length/girth x height as applicable. The dimensions given are the overall "squared off" dimensions measured to the major external surfaces of the fitting regardless of notchings, cut-backs, etc., and to the extremities of splayed ends. The exact size, shape and position of fittings must be ascertained by reference to the detail drawings and all dimensions are to be checked on site.</p> <p>In certain instances the fittings in a particular location form an integral whole; but to facilitate measuring, scheduling, pricing and adjustment in the event of variations, the various component fittings comprising an integrated arrangement have been scheduled as individual items, each of which is to be priced separately, and the prices for the individual items are to include for all work at the junctions of adjacent component fittings to form the integral arrangement as detailed.</p>			
	Carried Forward			R
	<p>Section No. 3 OFFICE BLOCK EXTENSION Bill No. 14 JOINERY FITTINGS 1785-BQ</p>			

Brought Forward

R

General

The fittings are to be constructed with materials and in the manner shown on the drawings, complete with all framing, bearers, rails, cleats, beads, fixing and assembly accessories, etc., as detailed or as necessary for rigid, best quality construction and finish.

Wherever possible all melamine finished chipboard worktops, etc., and plastic laminate finishes on worktops are to be in one piece without joints.

Where joints are unavoidable they are to be symmetrically spaced about the centre of the fitting or at the angle of L-shaped worktops, etc.

Joints in processed board worktops are to occur over the supporting framing, divisions, brackets, etc.

All abutments of worktops with walls or stainless steel sinks, etc., are to be pointed with silicone sealant, and the voids between the floor and the bottom of all fittings on wood bearers are to be sealed off by pointing with silicone sealant along the skirtings and bottoms at junctions with floor and walls.

Manufacture and Installation

All fittings, wherever possible, are to be completely manufactured in the joinery factory and must arrive on site with doors fitted.

Carried Forward

R

Section No. 3
OFFICE BLOCK EXTENSION
Bill No. 14
JOINERY FITTINGS
1785-BQ

Brought Forward

R

Finishes, etc.

Carcass, shelving, etc to be 16mm White Alpine melamine with exposed sides and doors in same and finished with 2mm high impact edging.

Doors to have 2mm high impact edging along all sides.

Where fittings are required to be painted they are to be finished as per the specification as indicated on the detailed drawings.

PC allowance for handles R50.00 each excluding Value Added Tax.

Prices of fittings

The joinery fittings are measured in number and are to be priced as complete units including all joinery work, ironmongery, metalwork, glazing, etc., and installation complete with all wall plugs, grounds, screws, bolts, expanding bolts, metal brackets, spacers and distance pieces, pointing with silicone sealant, painting, priming backs, etc., and all of the general provisions of this preamble.

Prices are also to include for any additional pointing with silicone sealant and/or trimming with beads as may be directed by the Principal Agent to make good any imperfect abutments of fittings with walls, etc.

Prices of joinery fittings are to exclude brick walls, under counter fittings, electrical installation to counters and sinks, all of which are elsewhere measured.

Carried Forward

R

Section No. 3
OFFICE BLOCK EXTENSION
Bill No. 14
JOINERY FITTINGS
1785-BQ

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R

JOINERY FITTINGS

Kitchenette in Canteen as per drawing No xxxx-01-A-BAS-P-940-00

A Floor mounted sink cupboard overall size 2100mm long x 600mm wide x 900mm high complete with 32mm bullnosed Formica work top, ironmongery, etc. and fix in position all in accordance with drawing no. xxxx-01-A-BAS-P-940-00

No

1

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Section No. 3
 OFFICE BLOCK EXTENSION
 Bill No. 14
 JOINERY FITTINGS
 1785-BQ

Item No		Quantity	Rate	Amount
	<u>BILL NO. 15</u>			
	<u>SUNDRIES</u>			
	<u>IRONMONGERY</u>			
	<u>Toilet roll holder</u>			
A	Franke or equal approved stainless steel satin toilet roll holder plugged to wall (code: BS 677)	No	1	
	<u>Towel rail</u>			
B	Halcast 261 or equal approved 19mm Diameter chrome plated steel towel rail 400mm long with pair of chromium plated wall brackets plugged to wall	No	1	
	<u>Internal signage</u>			
C	Provisional Sum allowance of R5 000.00 (Five Thousand Rand) net for internal signage by a Selected Subcontractor		Item	5,000.00
D	Profit		%	
E	Attendance		%	
	<u>METALWORK</u>			
	<u>Duct floor</u>			
F	Provisional Sum allowance of R15 000.00 (Fifteen Thousand Rand) net for rectagrid duct floor platform by a Selected Subcontractor		Item	15,000.00
G	Profit		%	
H	Attendance		%	
	<u>Sun louvres</u>			
I	Provisional Sum allowance of R75 000.00 (Seventy Five Thousand Rand) net for sun louvres by a Selected Subcontractor		Item	75,000.00
	Carried Forward			R
	Section No. 3 OFFICE BLOCK EXTENSION Bill No. 15 SUNDRIES 1785-BQ			

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 16</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>Special Preamble</u></p> <p><u>Classes of Excavation</u></p> <p>All materials encountered in any excavation for any purpose including restricted excavation will be classified as follows:</p> <p>(a) Soft Rock Excavation</p> <p style="padding-left: 40px;">Soft rock excavation shall be excavation in material that requires a back-acting excavator of flywheel power exceeding 0,10 kw per millimetre of tined-bucket width or the use of pneumatic tools.</p> <p>(b) Hard Rock Excavation</p> <p style="padding-left: 40px;">Hard rock excavation shall be excavation in material (including undecomposed boulders exceeding 0.17 cubic metres in individual volume) that cannot be efficiently removed without blasting, wedging and splitting, or hydraulic hammers.</p> <p>This classification includes materials such as:</p> <ul style="list-style-type: none"> - solid unfractured rock occurring in bulk - solid ledges thicker than 200mm - igneous rock intrusions - cemented sedimentary rocks 			
	Carried Forward			R
	<p>Section No. 3 OFFICE BLOCK EXTENSION Bill No. 16 PLUMBING AND DRAINAGE 1785-BQ</p>			

Brought Forward			R
<u>WATER SUPPLIES</u>			
<u>Copper water supply pipes complying with SANS 460 Class II with brass compression couplings</u>			
A	15mm Pipe and fixing to walls, chases, roofs etc. including labour bends	m	49
B	22mm Pipe and fixing to walls, chases, roofs etc. including labour bends	m	28
<u>Extra over copper pipes for the following copper capillary fittings</u>			
C	15mm Elbow, tee, connector, etc.	No	27
D	22mm Elbow, tee, connector, etc.	No	15
<u>Extra over copper pipes for the following brass compression fittings</u>			
E	15mm Elbow, tee, connector, etc.	No	27
F	22mm Elbow, tee, connector, etc.	No	6
<u>Valves, etc. complying with SANS 226 and connections to copper pipes including connectors</u>			
G	15mm Chromium plated angle valve	No	15
H	15mm Braided hose connections approximately 300mm long to fittings	No	15
I	22mm Cobra or equal approved lever type ball-o-stop including adaptors to copper pipe	No	1
J	15mm Cobra or equal approved Ledimo LO-296 chromium plated mixer with overarm swivel outlet including mounting kit and angle valves	No	1
K	15mm Cobra or equal approved Ledimo LO-214-15 chromium plated pillar tap with and including aerator outlet and flanged backnut	No	8
L	15mm Cobra or equal approved Star 128-15 with stoptap under tile with sliding wall flange	No	2
Carried Forward			R
Section No. 3 OFFICE BLOCK EXTENSION Bill No. 16 PLUMBING AND DRAINAGE 1785-BQ			

Brought Forward			R
A	15mm Cobra or equal approved chromium plated vandal resistant shower head (Code: KP2-6EX) with classic spray and self-cleaning spray nozzle	No	1
B	20mm Cobra or equal approved Junior Slimline Flushmaster (code: FJ6.000) chromium plated urinal flush valve	No	2
<u>Lagging</u>			
<u>25mm Thick 'Armor flex' or equal approved nitrile rubber with an R value of greater than 1, insulating pipe cladding, closely fitted to pipe diameter with joints and ends butted firmly together and wrapped in reinforced foil membrane and strapped securely into position.</u>			
C	15mm Pipe and couplings	m	14
D	22mm Pipe and couplings	m	13
E	Extra for lagging around 15mm diameter fitting	No	5
F	Extra for lagging around 22mm diameter fitting	No	3
<u>SANITARY PLUMBING</u>			
<u>Rigid PVC waste, soil and vent pipes complying with SANS 967</u>			
G	40mm Pipe and fixing to walls, chases, roofs etc.	m	8
H	50mm Pipe and fixing to walls, chases, roofs, etc.	m	11
I	110mm Pipe and fixing to walls, chases, roofs, etc.	m	2
<u>Extra over PVC pipes for</u>			
J	110mm Vent cowl	No	1
K	110mm End cap	No	1
L	50 x 40mm Reducer	No	6
M	40mm Bend	No	12
Carried Forward			R
Section No. 3 OFFICE BLOCK EXTENSION Bill No. 16 PLUMBING AND DRAINAGE 1785-BQ			

Brought Forward			R
A	50mm Bend	No	17
B	110mm Bend	No	3
C	40mm Inspection eye bend	No	6
D	50mm Inspection eye bend	No	4
E	110mm Inspection eye bend	No	1
F	50mm Junction	No	4
G	110mm Junction	No	1
H	40mm Inspection eye junction	No	2
I	50mm Inspection eye junction	No	2
J	110mm Inspection eye junction	No	1
K	110mm Pan connector and neoprene joint to outlet of pan	No	1
<u>Overflow pipes, traps etc.</u>			
L	32mm Cobra or equal approved 345/40 chromium plated bottle trap and joint to outlet of fitting and PVC pipe	No	6
M	Wirquin Twisto or equal approved square shower waste size 115 x 115mm and fix in position in concrete surface bed and joint to PVC pipe	No	1
<u>SANITARY FITTINGS</u>			
N	Lecico Atlas or equal approved (code: SUPSETFFLONOSBE) vitreous china comprising semi close couple 90° outlet open rim wash down pan and 9 litre cistern including lid, fitments and chrome plated side flush lever including Lecico MDF (code: CHISEASTD0MDFUC) seat and cover plate, fix in position including bedding pan to floor, bolting cistern to wall and connecting up flush pipe	No	1
Carried Forward			R
Section No. 3 OFFICE BLOCK EXTENSION Bill No. 16 PLUMBING AND DRAINAGE 1785-BQ			

Brought Forward				R
A	Lecico "Atlas 50cm" or equal approved (code: ATLBASWHU0500UE) wall hung basin size 500 x 175 x 410mm with one tap hole complete with Cobra basin waste (code: COB-309), intergrated overflow including plug and chromium plated chain, fixed to wall including silicone sealant around fitting	No	4	
B	Lecico "BS 50" or equal approved (code: ATLBOXURIOT50UE) vitreous china wall hung urinal size 380 x 302 x 500mm high including 38mm chromium plated domical grating and chromium plated top inlet spreader, fixed on and including two hanger brackets (flushmaster elsewhere measured)	No	2	
C	Franke Quinline or equal approved QLX621 Grade 304 18/10 polished stainless steel double end bowl inset sink (code: 1990007), overall size 1200 x 500mm with two 343 x 410 x 149mm deep bowls, fitted onto cupboard (cupboard elsewhere measured) including silicone sealant between fitting and cupboard including Spazi F/2 plumbing kit (code: 301252)	No	1	
<u>SOIL DRAINAGE</u>				
<u>uPVC drainpipes and fittings with spigot and socket joints with 0 ring seals complying with SANS 791</u>				
D	110 mm Pipe vertically in ground (no excavation)	m	2	
E	110 mm Pipe and laying in ground not exceeding 1m deep including excavating trench, granular sand bedding 150mm thick under, around and above pipe compacted in multiple layers not exceeding 150mm thick to 93% Mod AASHTO density and backfilling to ground level with material arising from the excavations compacted in multiple layers not exceeding 150mm thick to 95% modified AASHTO density	m	5	
<u>Extra over uPVC pipes for the following uPVC fittings</u>				
F	110mm Bend	No	3	
Carried Forward				R
Section No. 3 OFFICE BLOCK EXTENSION Bill No. 16 PLUMBING AND DRAINAGE 1785-BQ				

Brought Forward			R
A	110mm Junction	No	1
B	110mm Access junction	No	1
<u>Sundries</u>			
C	PVC gully comprising P-trap with 110mm outlet, hopper head fitted with PVC grid, the whole encased in plain concrete 15MPa/19mm stone carried up to form kerb 75mm high above paving or ground level and dished to grating, finished smooth on exposed surfaces in cement mortar with rounded angles, including excavation, formwork. etc.	No	1
D	ABC cast iron 45° type cleaning eye cover and frame and fix to top of 110mm uPVC pipe	No	2
<u>TESTING</u>			
E	Test the plumbing and drainage installation		Item
<u>SUNDRIES</u>			
F	Extra over all excavations for carting away from site surplus excavated material	m3	2
G	Keep the trench and inspection chamber excavations free from water other than subterranean and seepage water		Item
<u>BUILDERS WORK INCLUDING MAKING GOOD</u>			
H	Chase in brickwork for pipe not exceeding 50mm diameter	m	8
I	Hole through 270mm hollow wall for pipe not exceeding 100mm diameter	No	1
Carried Forward to Summary of Section No. 3			R
Section No. 3 OFFICE BLOCK EXTENSION Bill No. 16 PLUMBING AND DRAINAGE 1785-BQ			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 17</u>			
	<u>PAINTING</u>			
	<u>ON PLASTER ETC.</u>			
	<u>Prepare, one coat plaster primer thinned with 10% mineral turpentine and two coats acrylic washable emulsion sheen paint internally</u>			
A	Plastered walls ("Pastel" colour group)	m2	412	
B	Plastered drywall partitions ("Pastel" colour group)	m2	90	
C	On plastered soffit of slab ("White" colour group)	m2	1	
	<u>Prepare, one coat plaster primer thinned with 10% mineral turpentine and two coats Polvin Super Acrylic PVA paint externally</u>			
D	Plastered walls ("Pastel" colour group)	m2	404	
	<u>ON FIBRE CEMENT</u>			
	<u>Prepare, one coat plaster primer diluted with 10% mineral turpentine and two coats Polvin Super Acrylic PVA paint</u>			
E	Cills not exceeding 300mm girth ("Pastel" colour group)	m2	2	
	<u>ON METAL</u>			
	<u>Prepare, degrease with galvanised iron cleaner, prime with galvanised iron primer, one coat universal undercoat and two coats polyurethane enamel paint</u>			
F	Galvanised pressed steel door frames ("Dark" colour group)	m2	9	
	<u>ON WOOD</u>			
G	Prime backs of frames	m2	2	
	Carried Forward			R
	Section No. 3 OFFICE BLOCK EXTENSION Bill No. 17 PAINTING 1785-BQ			

Brought Forward			R
<u>Prepare, one coat wood primer, one coat universal undercoat and two coats polyurethane enamel paint</u>			
A	Framed, ledged and braced batten doors ("Deep" colour group)	m2	14
B	Flush doors ("Deep" colour group)	m2	18
C	Frames and linings including narrow widths ("Deep" colour group)	m2	5
D	Skirting, cill, etc. not exceeding 300mm girth ("Deep" colour group)	m	76
<u>REDECORATION</u>			
<p>The term "clean down" shall mean that existing painted surfaces shall be treated in the following manner prior to applying the paint required:</p> <p>Existing PVA finished plaster surfaces shall be rubbed down ready to receive new PVA but where the PVA is in a poor condition, or otherwise unsuitable to receive further coats, or where the plaster is to receive a finish other than PVA, the old PVA shall be completely removed by wetting and scraping, and the surfaces filled where necessary and rubbed down ready to receive the new finishings</p> <p>Existing painted plaster surfaces shall be washed down, filled where necessary, spot primed and rubbed down ready to receive new paint.</p> <p>Existing painted metal surfaces shall be thoroughly rubbed and cleaned down before repainting, but where paint film has blistered or broken down, the paint must be completely removed down to the bare metal.</p>			
Carried Forward			R
<p>Section No. 3 OFFICE BLOCK EXTENSION Bill No. 17 PAINTING 1785-BQ</p>			

Brought Forward			R
<p>After cleaning off rust on metalwork, those portions so affected shall be treated with an approved rust inhibitor.</p> <p>Existing woodwork previously painted shall be washed and rubbed down before repainting, but where the old paint must be completely removed back to the bare surface by the use of a blow lamp or paint removed, and the woodwork knotted, primed, stopped and rubbed down ready to receive new paint.</p> <p>Care must be taken in burning off old paint not to char or otherwise damage the woodwork, and paint removers used must be free from soda or other caustic substances.</p> <p>Existing oiled or varnished wood shall be scraped as may be necessary, stopped with tinted stopping and rubbed down and existing woodwork shall be cleaned and similarly stopped and rubbed down.</p> <p><u>Clean down existing surfaces, prepare and two coats acrylic washable emulsion sheen paint internally</u></p>			
A	Plastered walls ("Pastel" colour group)	m2	298
<p><u>Clean down existing surfaces, prepare and two coats polyurethane enamel paint</u></p>			
B	Flush doors ("Deep" colour group)	m2	18
C	Frames and linings including narrow widths ("Deep" colour group)	m2	8
Carried Forward to Summary of Section No. 3			R
<p>Section No. 3 OFFICE BLOCK EXTENSION Bill No. 17 PAINTING 1785-BQ</p>			

SECTION SUMMARY - OFFICE BLOCK EXTENSION

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	Carried to Final Summary		R
	Section No. 3 OFFICE BLOCK EXTENSION 1785-BQ		

Brought Forward

R

**VARIATIONS AND ADDITIONS TO THE
 STANDARDIZED SPECIFICATIONS APPLICABLE TO
 THIS WORK**

PSA	General
PSAB	Engineer's Office
PSC	Site Clearance
PSD	Earthworks
PSDB	Earthworks (Pipe Trenches)
PSDM	Earthworks (Roads, Subgrade)
PSGA	Concrete (Small Works)
PSL	Medium Pressure Pipelines
PSLB	Bedding (Pipes)
PSLC	Cable Ducts
PSLD	Sewers
PSLE	Stormwater drainage
PSM	Roads (General)
PSME	Subbase
PSMF	Base
PSMJ	Segmental Paving
PSMK	Kerbing and Channeling
PSMM	Ancillary Roadworks

Notwithstanding the method of measurement prescribed in the above Standardized Specifications, measurement shall be in accordance with the latest issue of the Standard System of Measuring Builders Work issued by the Association of South African Quantity Surveyors and current at the time of measuring.

Carried Forward

R

Section No. 4
 EXTERNAL WORKS
 Bill No. 1
 BULK EARTHWORKS
1785-BQ

Brought Forward

R

Special Preamble

Classes of Excavation

All materials encountered in any excavation for any purpose including restricted excavation will be classified as follows:

- (a) Soft Rock Excavation
 Soft rock excavation shall be excavation in material that requires a back-acting excavator of flywheel power exceeding 0,10 kw per millimetre of tined-bucket width or the use of pneumatic tools.
- (b) Hard Rock Excavation
 Hard rock excavation shall be excavation in material (including undecomposed boulders exceeding 0.17 cubic metres in individual volume) that cannot be efficiently removed without blasting, wedging and splitting, or hydraulic hammers.

This classification includes materials such as:

- solid unfractured rock occurring in bulk
- solid ledges thicker than 200mm
- igneous rock intrusions
- cemented sedimentary rocks

DEMOLITIONS

Temporary fencing and gates

A Provide, erect, maintain temporary mesh fencing with shade cloth 1500mm high fixed to timber poles in drums (concrete hardstand not to be damaged) in around demarcated building site complete and remove on completion of contract and make good to any surfaces disturbed

m

158

Carried Forward

R

Section No. 4
 EXTERNAL WORKS
 Bill No. 1
 BULK EARTHWORKS
 1785-BQ

Brought Forward			R
<u>Demolish, break up or take out and remove</u>			
<u>External works</u>			
A	60mm Thick precast concrete interlocking paving bricks	m2	50
B	Precast concrete barrier kerb size 150 x 250mm high	m	25
<u>Relocation of existing services</u>			
C	Provisional sum of R75 000.00 (Seventy Five Thousand Rand) net for relocation of existing services to be used as directed by the Engineer	Item	75,000.00
<u>SITE CLEARANCE</u>			
D	Clear the area of the site of all rubbish, debris, rubble, grass, roots, shrubs, bush and trees not exceeding 200mm girth and top soil for a depth of 100mm and cart away	m2	8,137
<u>BULK EARTHWORKS</u>			
<u>Specification</u>			
Bulk earthworks to comply with PSD (Refer to PART C3 : Scope of Works : PSD - Earthworks)			
E	Excavate in earth to reduce levels in varying depths over site to open face including trimming sides to form sloping banks, etc., and <u>cart away</u> from site surplus excavated material to a designated dumping site located in Zone 5, Coega IDZ	m3	694
F	Excavate in earth to reduce levels in varying depths over site to open face including trimming sides to form sloping banks, etc., and deposit in spoil heaps on site for use as filling or backfilling (elsewhere measured)	m3	926
Carried Forward			R
Section No. 4 EXTERNAL WORKS Bill No. 1 BULK EARTHWORKS 1785-BQ			

	Brought Forward			R
A	Excavate in earth to reduce levels over site to open face and fill in adjacent portions to make up levels in multiple layers not exceeding 200mm thick compacted to 93% Mod AASHTO density <u>in cut and fill</u> operation	m3	3,934	
B	Filling arising from the spoil heaps suitable for in making up levels behind walls, kerbs, etc and over site compacted in layers not exceeding 200mm thick to 93% Mod AASHTO density	m3	463	
C	Cart away from site surplus excavated material to a designated dumping site located in Zone 5, Coega IDZ	m3	463	
D	Natural gravel sub-grade G7 material complying with SANS 1200 ME compacted in layers not exceeding 150mm thick to 93% Mod AASHTO density in filling to form platform	m3	750	
<u>DENSITY TESTS</u>				
E	Additional layerworks compaction check tests in addition to process control tests as instructed by the consulting engineer tested by a consulting Engineer's Laboratory and deliver results to the Engineer within 24 hours of the tests being completed	No	25	
Carried Forward to Summary of Section No. 4				R
Section No. 4 EXTERNAL WORKS Bill No. 1 BULK EARTHWORKS 1785-BQ				

Item No		Quantity	Rate	Amount
	<u>BILL NO. 2</u>			
	<u>ROADWORKS AND PARKING</u>			
	LIST OF STANDARDIZED SPECIFICATIONS APPLICABLE TO THIS WORK (NOT BOUND IN THIS DOCUMENT)			
	SANS 1200 A General			
	SANS 1200 AB Engineers Office			
	SANS 1200 C Site Clearance			
	SANS 1200 D Earthworks			
	SANS 1200 DB Earthworks (Pipe trenches)			
	SANS 1200 DM Earthworks (Roads subgrade)			
	SANS 1200 G Concrete			
	SANS 1200 GA Concrete (Small works)			
	SANS 1200 L Medium pressure pipes			
	SANS 1200 LB Bedding (pipes)			
	SANS 1200 LC Cable ducts			
	SANS 1200 LD Sewers			
	SANS 1200 LE Stormwater drainage			
	SANS 1200 M Roads (General)			
	SANS 1200 ME Sub base			
	SANS 1200 MF Base			
	SANS 1200 MJ Segmental paving			
	SANS 1200 MK Kerbing and channelling			
	SANS 1200 MM Ancillary roadworks			
	Carried Forward			R
	Section No. 4 EXTERNAL WORKS Bill No. 2 ROADS AND PARKING 1785-BQ			

Brought Forward

R

**VARIATIONS AND ADDITIONS TO THE
 STANDARDIZED SPECIFICATIONS APPLICABLE TO
 THIS WORK**

PSA	General
PSAB	Engineer's Office
PSC	Site Clearance
PSD	Earthworks
PSDB	Earthworks (Pipe Trenches)
PSDM	Earthworks (Roads, Subgrade)
PSGA	Concrete (Small Works)
PSL	Medium Pressure Pipelines
PSLB	Bedding (Pipes)
PSLC	Cable Ducts
PSLD	Sewers
PSLE	Stormwater drainage
PSM	Roads (General)
PSME	Subbase
PSMF	Base
PSMJ	Segmental Paving
PSMK	Kerbing and Channeling
PSMM	Ancillary Roadworks

Notwithstanding the method of measurement prescribed in the above Standardized Specifications, measurement shall be in accordance with the latest issue of the Standard System of Measuring Builders Work issued by the Association of South African Quantity Surveyors and current at the time of measuring.

Carried Forward

R

Section No. 4
 EXTERNAL WORKS
 Bill No. 2
 ROADS AND PARKING
1785-BQ

Brought Forward			R
<u>CONCRETE HARDSTAND</u>			
<u>Earthworks</u>			
A	Scarify surface of ground to a depth of 300mm and compact to 90% Mod AASHTO density	m2	2,049
B	150mm Compacted thickness sub-base of G5 material complying with SANS 1200 ME compacted to 98% Mod AASHTO density	m2	2,049
C	150mm Compacted thickness base course of G5 material complying with SANS 1200 ME compacted to 98% Mod AASHTO density	m2	2,049
<u>Test cubes</u>			
D	Set of three concrete strength cubes each size 150 x 150 x 150mm, send to an independent test laboratory for test crushing including all charges	Sets	58
<u>Concrete</u>			
E	Reinforced concrete with design flexural strength of 3,8MPa and crushing strength of 35MPa/19mm stone in pavings including striking off and curing	m3	348
<u>Sundries</u>			
F	Extra for curing top of paving with plastic sheeting	m2	2,049
G	Finish top of concrete pavings to falls to a broom swept surface in one operation, including any additional mortar required	m2	2,049
H	One coat limewash as bond breaker to edge of concrete surface bed not exceeding 300mm high	m	124
I	Saw cut size 6 x 20mm deep in top of concrete surface bed	m	124
J	Saw cut size 3 x 70mm deep in top of concrete paving, reamed out to 6 x 20mm deep at top with edges rounded to 5mm radius	m	989
Carried Forward			R
Section No. 4 EXTERNAL WORKS Bill No. 2 ROADS AND PARKING 1785-BQ			

Brought Forward			R
A	10mm Expanded polyethylene expansion joint filler not exceeding 300mm wide vertically between brick and concrete surfaces	m	144
B	Grind slot into edge of existing concrete hardstand at 350mm centres for and including 114.3 x 114.3 x 6.35mm thick diamond plated dowels with one oval shaped edge and grout solid with Hilti HIT-HY200 injection mortar	m	35
<u>Formwork</u>			
C	Rough formwork to edge of paving not exceeding 300mm high	m	53
D	Edge of 150mm thick paving with and including 114.3 x 114.3 x 6.35mm thick galvanised diamond plate dowels spaced at 450mm centres with dowel pocket former	m	89
<u>Reinforcement</u>			
E	Reference 245 fabric reinforcement with 300mm wide side and end laps in concrete surface beds	m2	2,120
<u>Waterproofing</u>			
F	Rake out and vacuum clean saw cut size 6 x 20mm deep in top of concrete surface bed, prime, insert polycord backing strip and point 6 x 10mm joint with Sikaflex 11FC or equal approved polyurethane sealant	m	1,112
G	Rake out 10mm expanded polyethylene expansion joint filler for a depth of 10mm, prime and point with Sikaflex 11FC or equal approved polyurethane sealant	m	144
<u>BRICK PAVED ROADS AND PARKING AREAS</u>			
<u>Earthworks</u>			
H	Scarify surface of ground to a depth of 300mm and compact to 90% Mod AASHTO density	m2	919
Carried Forward			R
Section No. 4 EXTERNAL WORKS Bill No. 2 ROADS AND PARKING 1785-BQ			

Brought Forward				R
A	150mm Compacted thickness sub-base of G5 material complying with SANS 1200 ME compacted to 98% Mod AASHTO density	m2	919	
B	150mm Compacted thickness base course of G5 material complying with SANS 1200 ME compacted to 98% Mod AASHTO density	m2	919	
<u>Specification</u>				
C	60mm Thick precast concrete 25MPa type S-A interlocking paving bricks laid to herringbone pattern on and including 20mm thick sand bed compacted to 100% Mod AASHTO density including margin around pavings and all straight and circular cutting and waste	m2	919	
<u>KERBS AND CHANNELS</u>				
D	Precast concrete 30MPa/12mm stone barrier kerb Fig 4 size 150 x 250mm cast in lengths not exceeding 1m joints finished smooth off the mould on all exposed surfaces with one side splayed back 25mm for a height of 125mm along top edge including exposed angle rounded to 20mm radius bedded on and including 120mm thick plain concrete 20MPa/19mm stone base with 150 x 150mm mortar fillet backing including excavation, formwork, expansion joints at not exceeding 10m centres etc.	m	52	
Carried Forward				R
Section No. 4 EXTERNAL WORKS Bill No. 2 ROADS AND PARKING 1785-BQ				

Brought Forward			R
A	Precast concrete 30MPa/12mm stone barrier kerb Fig 4 size 150 x 250mm cast in lengths not exceeding 1m joints finished smooth off the mould on all exposed surfaces with one side splayed back 25mm for a height of 125mm along top edge including exposed angle rounded to 20mm radius bedded on and including 120mm thick plain concrete 20MPa/19mm stone base with 150 x 150mm mortar fillet backing and with plain concrete 20MPa/19mm stone cast in-situ channel size 300 x 200mm deep trowelled smooth on exposed top surface with exposed angle rounded to 20mm radius and cast against side of kerb including excavation, formwork, expansion joints at not exceeding 10m centres etc.	m	77
B	Precast concrete 30MPa/12mm stone sunken kerb Fig 11 size 150 x 75mm cast in lengths not exceeding 1m joints finished smooth off the mould on all exposed surfaces bedded on and including 10mm mortar bed with 150 x 150mm mortar fillet backing including excavation, formwork, expansion joints at not exceeding 10m centres etc.	m	160
<u>ROAD MARKING</u>			
<u>All paints used shall comply with the requirements CKS 193</u>			
C	Prepare and two coats roadmarking in road and runway markings paint TP 24 complying with SANS 731-1 on concrete or brick pavings to form 100mm wide solid white line	m	200
D	Ditto but to form 150mm wide solid white line	m	30
E	Ditto but to form 300mm wide solid white line	m	30
F	Ditto but to form 1000mm Numeral or letter	No	8
G	Ditto but for paraplegic sign	No	4
H	Ditto but to form 800 x 5000mm Traffic arrow	No	1
Carried Forward			R
Section No. 4 EXTERNAL WORKS Bill No. 2 ROADS AND PARKING 1785-BQ			

Brought Forward			R
<u>COMPACTION AND ADDITIONAL TESTS</u>			
A	Additional layerworks compaction check tests in addition to process control tests as instructed by the consulting engineer tested by a consulting Engineer's Laboratory and deliver results to the Engineer within 24 hours of the tests being completed	No	25
<u>LOFFELSTEIN RETAINING WALLS</u>			
<u>Excavate in earth and deposit excavated material on site for use as filling or backfilling (elsewhere measured)</u>			
B	Foundation trenches not exceeding 2m deep	m3	74
<u>Sundries</u>			
C	Extra over all excavations for carting away from site surplus excavated material	m3	37
D	Risk of collapse to sides of excavations not exceeding 1,5m deep	m2	134
<u>Filling, etc.</u>			
E	Granular earth filling arising from the excavations compacted in multiple layers not exceeding 150mm thick to 93% Mod AASHTO density in backfilling to foundation excavations	m3	37
F	150mm Compacted thickness sub base of G5 material complying with SANS 1200 ME compacted to 98% Mod AASHTO density under retaining wall footing	m2	123
<u>Reinforced concrete 30MPa/19mm stone</u>			
G	Foundation trenches cast against excavated surfaces	m3	37
Carried Forward			R
Section No. 4 EXTERNAL WORKS Bill No. 2 ROADS AND PARKING 1785-BQ			

	Brought Forward			R
	<u>Mesh reinforcement</u>			
A	Reference 888 fabric reinforcement with 300mm wide side and end laps vertically in cavity of retaining wall	m2	123	
	<u>Precast concrete</u>			
B	Terraforce precast concrete retaining wall blocks size 400 x 500 x 250mm high laid to form retaining wall including filling blocks with granular earth filling arising from excavations	m2	185	
Carried Forward to Summary of Section No. 4				R
Section No. 4 EXTERNAL WORKS Bill No. 2 ROADS AND PARKING 1785-BQ				

Item No		Quantity	Rate	Amount
	<u>BILL NO. 3</u>			
	<u>PATHS AND PAVINGS</u>			
	LIST OF STANDARDIZED SPECIFICATIONS APPLICABLE TO THIS WORK (NOT BOUND IN THIS DOCUMENT)			
	SANS 1200 A General			
	SANS 1200 AB Engineers Office			
	SANS 1200 C Site Clearance			
	SANS 1200 D Earthworks			
	SANS 1200 DB Earthworks (Pipe trenches)			
	SANS 1200 DM Earthworks (Roads subgrade)			
	SANS 1200 G Concrete			
	SANS 1200 GA Concrete (Small works)			
	SANS 1200 L Medium pressure pipes			
	SANS 1200 LB Bedding (pipes)			
	SANS 1200 LC Cable ducts			
	SANS 1200 LD Sewers			
	SANS 1200 LE Stormwater drainage			
	SANS 1200 M Roads (General)			
	SANS 1200 ME Sub base			
	SANS 1200 MF Base			
	SANS 1200 MJ Segmental paving			
	SANS 1200 MK Kerbing and channelling			
	SANS 1200 MM Ancillary roadworks			
	Carried Forward			R
	Section No. 4 EXTERNAL WORKS Bill No. 3 PATHS AND PAVING 1785-BQ			

Brought Forward

R

**VARIATIONS AND ADDITIONS TO THE
 STANDARDIZED SPECIFICATIONS APPLICABLE TO
 THIS WORK**

- PSA General
- PSAB Engineer's Office
- PSC Site Clearance
- PSD Earthworks
- PSDB Earthworks (Pipe Trenches)
- PSDM Earthworks (Roads, Subgrade)
- PSGA Concrete (Small Works)
- PSL Medium Pressure Pipelines
- PSLB Bedding (Pipes)
- PSLC Cable Ducts
- PSLD Sewers
- PSLE Stormwater drainage
- PSM Roads (General)
- PSME Subbase
- PSMF Base
- PSMJ Segmental Paving
- PSMK Kerbing and Channeling
- PSMM Ancillary Roadworks

Notwithstanding the method of measurement prescribed in the above Standardized Specifications, measurement shall be in accordance with the latest issue of the Standard System of Measuring Builders Work issued by the Association of South African Quantity Surveyors and current at the time of measuring.

SIDEWALK AND APRONS PAVING

Earthworks

A	Scarify surface of ground to a depth of 150mm and compact to 90% Mod AASHTO density	m2	242
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Carried Forward

R

Section No. 4
 EXTERNAL WORKS
 Bill No. 3
 PATHS AND PAVING
1785-BQ

	Brought Forward			R
A	150mm Compacted thickness sub-base of G7 material complying with SANS 1200 ME compacted to 98% Mod AASHTO density	m2	242	
B	150mm Compacted thickness base course of G5 material complying with SANS 1200 ME compacted to 98% Mod AASHTO density	m2	242	
	<u>Brick pavers</u>			
C	50mm Thick natural grey concrete bevel edged paving bricks laid to herringbone pattern on and including 20mm thick sand bed compacted to 100% Mod AASHTO density including margin around pavings and all straight and circular cutting and waste	m2	242	
Carried Forward to Summary of Section No. 4				R
Section No. 4 EXTERNAL WORKS Bill No. 3 PATHS AND PAVING 1785-BQ				

Item No		Quantity	Rate	Amount
	<u>BILL NO. 4</u>			
	<u>HARDSTAND REPAIRS</u>			
	LIST OF STANDARDIZED SPECIFICATIONS APPLICABLE TO THIS WORK (NOT BOUND IN THIS DOCUMENT)			
	SANS 1200 A General			
	SANS 1200 AB Engineers Office			
	SANS 1200 C Site Clearance			
	SANS 1200 D Earthworks			
	SANS 1200 DB Earthworks (Pipe trenches)			
	SANS 1200 DM Earthworks (Roads subgrade)			
	SANS 1200 G Concrete			
	SANS 1200 GA Concrete (Small works)			
	SANS 1200 L Medium pressure pipes			
	SANS 1200 LB Bedding (pipes)			
	SANS 1200 LC Cable ducts			
	SANS 1200 LD Sewers			
	SANS 1200 LE Stormwater drainage			
	SANS 1200 M Roads (General)			
	SANS 1200 ME Sub base			
	SANS 1200 MF Base			
	SANS 1200 MJ Segmental paving			
	SANS 1200 MK Kerbing and channelling			
	SANS 1200 MM Ancillary roadworks			
	Carried Forward			R
	Section No. 4 EXTERNAL WORKS Bill No. 4 HARDSTAND REPAIRS 1785-BQ			

Brought Forward

R

**VARIATIONS AND ADDITIONS TO THE
 STANDARDIZED SPECIFICATIONS APPLICABLE TO
 THIS WORK**

- PSA General
- PSAB Engineer's Office
- PSC Site Clearance
- PSD Earthworks
- PSDB Earthworks (Pipe Trenches)
- PSDM Earthworks (Roads, Subgrade)
- PSGA Concrete (Small Works)
- PSL Medium Pressure Pipelines
- PSLB Bedding (Pipes)
- PSLC Cable Ducts
- PSLD Sewers
- PSLE Stormwater drainage
- PSM Roads (General)
- PSME Subbase
- PSMF Base
- PSMJ Segmental Paving
- PSMK Kerbing and Channeling
- PSMM Ancillary Roadworks

Notwithstanding the method of measurement prescribed in the above Standardized Specifications, measurement shall be in accordance with the latest issue of the Standard System of Measuring Builders Work issued by the Association of South African Quantity Surveyors and current at the time of measuring.

Carried Forward

R

Section No. 4
 EXTERNAL WORKS
 Bill No. 4
 HARDSTAND REPAIRS
1785-BQ

Brought Forward			R
<u>CONCRETE HARDSTAND REPAIRS</u>			
<u>Temporary hoardings and temporary access</u>			
A	Provisional sum of R75 000.00 (Seventy Five Thousand Rand) net for temporary hoardings and temporary access to be used as directed by the Engineer	Item	75,000.00
<u>Demolish, break up or take out and remove</u>			
B	Saw cut in top of existing 175mm thick hardstand where adjacent portion to be removed	m	295
C	175mm Thick reinforced concrete hardstand	m2	800
<u>Earthworks</u>			
D	Excavate in earth not exceeding 2m deep to reduce levels and cart away from site	m3	120
E	Scarify surface of ground to a depth of 300mm and compact to 90% Mod AASHTO density	m2	800
F	150mm Compacted thickness base course of C4 material complying with SANS 1200 ME and compacted to 97% Mod AASHTO density in base course under hardstand	m2	800
<u>Test cubes</u>			
G	Set of three concrete strength cubes each size 150 x 150 x 150mm, send to an independent test laboratory for test crushing including all charges	Sets	24
<u>Concrete</u>			
H	Reinforced concrete with design flexural strength of 3,8MPa and crushing strength of 35MPa/19mm stone in pavings including striking off and curing	m3	144
<u>Sundries</u>			
I	Extra for curing top of paving with plastic sheeting	m2	800
Carried Forward			R
Section No. 4 EXTERNAL WORKS Bill No. 4 HARDSTAND REPAIRS 1785-BQ			

Brought Forward			R
A	Finish top of concrete pavings to falls to a broom swept surface in one operation, including any additional mortar required	m2	800
B	Saw cut size 3 x 70mm deep in top of concrete paving, reamed out to 6 x 20mm deep at top with edges rounded to 5mm radius	m	528
C	10mm Expanded polyethylene expansion joint filler not exceeding 300mm wide vertically between brick and concrete surfaces	m	120
D	Grind slot into edge of existing concrete hardstand at 350mm centres for and including 114.3 x 114.3 x 6.35mm thick diamond plated dowels with one oval shaped edge and grout solid with Hilti HIT-HY200 injection mortar	m	140
E	12mm Diameter dowel rods 300mm long including drilling 150mm deep into existing concrete hardstand and fixed with Hilti HIT - RE500 epoxy grout	No	372
<u>Reinforcement</u>			
F	Reference 245 fabric reinforcement with 300mm wide side and end laps in concrete surface beds	m2	800
<u>Waterproofing</u>			
G	Rake out and vacuum clean saw cut size 6 x 20mm deep in top of concrete surface bed, prime, insert polycord backing strip and point 6 x 10mm joint with Sikaflex 11FC or equal approved polyurethane sealant	m	528
H	Rake out 10mm expanded polyethylene expansion joint filler for a depth of 10mm, prime and point with Sikaflex 11FC or equal approved polyurethane sealant	m	120
Carried Forward			R
Section No. 4 EXTERNAL WORKS Bill No. 4 HARDSTAND REPAIRS 1785-BQ			

Brought Forward

R

KERBS AND CHANNELS

A	Precast concrete 30MPa/12mm stone barrier kerb Fig 4 size 150 x 250mm cast in lengths not exceeding 1m joints finished smooth off the mould on all exposed surfaces with one side splayed back 25mm for a height of 125mm along top edge including exposed angle rounded to 20mm radius bedded on and including 120mm thick plain concrete 20MPa/19mm stone base with 150 x 150mm mortar fillet backing including excavation, formwork, expansion joints at not exceeding 10m centres etc.	m	64
B	Precast concrete 30MPa/12mm stone barrier kerb Fig 4 size 150 x 250mm cast in lengths not exceeding 1m joints finished smooth off the mould on all exposed surfaces with one side splayed back 25mm for a height of 125mm along top edge including exposed angle rounded to 20mm radius bedded on and including 120mm thick plain concrete 20MPa/19mm stone base with 150 x 150mm mortar fillet backing and with plain concrete 20MPa/19mm stone cast in-situ channel size 300 x 200mm deep trowelled smooth on exposed top surface with exposed angle rounded to 20mm radius and cast against side of kerb including excavation, formwork, expansion joints at not exceeding 10m centres etc.	m	20

RESEAL EXISTING JOINTS

Waterproofing existing joints

C	Rake out and vacuum clean existing saw cut joint size 6 x 20mm deep in top of existing concrete surface bed, prime, insert polycord backing strip and point 6 x 10mm joint with Sikaflex 11FC or equal approved polyurethane sealant	m	1,210
D	Rake out and vacuum clean existing 10mm expanded polyethylene expansion joint filler for a depth of 10mm, prime and point with Sikaflex 11FC or equal approved polyurethane sealant	m	325

Carried Forward

R

Section No. 4
 EXTERNAL WORKS
 Bill No. 4
 HARDSTAND REPAIRS
 1785-BQ

	Brought Forward		R
	<u>CUT-OFF DRAIN</u>		
A	Provisional sum of R175 000.00 (One Hundred and Seventy Five Thousand Rand) net for cut-off drain to be used as directed by the Engineer	Item	175,000.00
	<u>CRACK REPAIRS</u>		
B	Provisional sum of R250 000.00 (Two Hundred and Fifty Thousand Rand) net for crack repairs to be used as directed by the Engineer	Item	250,000.00
	Carried Forward to Summary of Section No. 4		R
	Section No. 4 EXTERNAL WORKS Bill No. 4 HARDSTAND REPAIRS 1785-BQ		

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 5</u></p> <p><u>STEPS TO WAREHOUSE</u></p> <p><u>Special Preamble</u></p> <p><u>Classes of Excavation</u></p> <p>All materials encountered in any excavation for any purpose including restricted excavation will be classified as follows:</p> <p>(a) Soft Rock Excavation Soft rock excavation shall be excavation in material that requires a back-acting excavator of flywheel power exceeding 0,10 kw per millimetre of tined-bucket width or the use of pneumatic tools.</p> <p>(b) Hard Rock Excavation Hard rock excavation shall be excavation in material (including undecomposed boulders exceeding 0.17 cubic metres in individual volume) that cannot be efficiently removed without blasting, wedging and splitting, or hydraulic hammers.</p> <p>This classification includes materials such as:</p> <ul style="list-style-type: none"> - solid unfractured rock occurring in bulk - solid ledges thicker than 200mm - igneous rock intrusions - cemented sedimentary rocks <p><u>EARTHWORKS</u></p> <p><u>Excavate in earth and deposit excavated material on site for use as filling or backfilling (elsewhere measured)</u></p>			
A	Foundation trenches not exceeding 2m deep	m3	14	
	Carried Forward			R
	Section No. 4 EXTERNAL WORKS Bill No. 5 STEPS TO WAREHOUSE 1785-BQ			

Brought Forward			R
<u>Sundries</u>			
A	Extra over all excavations for carting away from site surplus excavated material	m3	7
B	Risk of collapse to sides of excavations not exceeding 1,5m deep	m2	39
<u>Filling, etc.</u>			
C	Granular earth filling arising from the excavations compacted in multiple layers not exceeding 150mm thick to 93% Mod AASHTO density in backfilling to foundation excavations	m3	6
D	Scarify surface of ground to a depth of 300mm and compact to 93% Mod AASHTO density	m2	17
E	Natural gravel sub-grade G5 material complying with SANS 1200 ME compacted in layers not exceeding 150mm thick to 93% Mod AASHTO density in filling steps	m3	20
<u>CONCRETE</u>			
<u>Test cubes</u>			
F	Concrete test cube including test crushing by an independent laboratory and all charges	No	2
<u>Plain concrete 10MPa/19mm stone</u>			
G	Blinding under footings cast against excavated surfaces	m3	1
H	Blinding under steps cast against imported fill	m3	1
<u>Plain concrete 25MPa/19mm stone</u>			
I	Foundation trenches cast against excavated surfaces	m3	4
J	Stair cast against compacted filling	m3	4
Carried Forward			R
Section No. 4 EXTERNAL WORKS Bill No. 5 STEPS TO WAREHOUSE 1785-BQ			

Brought Forward			R
<u>ROUGH FORMWORK</u>			
<u>Rough formwork to sides, edges, risers,etc</u>			
A	Riser to steps not exceeding 300mm high	m	31
B	Edge not exceeding 300mm high	m	13
<u>REINFORCEMENT</u>			
<u>High tensile steel reinforcement</u>			
C	12mm Diameter	t	0.32
<u>Mesh</u>			
D	Reference 395 welded steel fabric reinforcement complying with SANS 1024 with 300mm wide side and end laps in concrete steps	m2	17
<u>BRICKWORK</u>			
<u>Brickwork in burnt clay NFP bricks in Class II mortar</u>			
E	230mm Wall	m2	25
<u>Sundries</u>			
F	225mm Wide galvanised brick reinforcement	m	100
<u>IN-SITU FINISHES</u>			
<u>One coat external 1:5 cement plaster finished smooth with a wood float</u>			
<u>On brickwork</u>			
G	Walls	m2	25
<u>1:3 Cement mortar screed finished smooth with a steel trowel on concrete to receive floor finishes</u>			
H	25mm Thick to treads and risers of stairs	m2	13
I	Set of stopped reedings 75mm wide in tread	m	26
Carried Forward			R
Section No. 4 EXTERNAL WORKS Bill No. 5 STEPS TO WAREHOUSE 1785-BQ			

	Brought Forward		R
	<u>METAL WORK</u>		
	<u>Handrails</u>		
A	Provisional sum of R20 000.00 (Twenty Thousand Rand) net for handrails by a Selected Subcontractor	Item	20,000.00
B	Profit		%
C	Attendance		%
Carried Forward to Summary of Section No. 4			R
Section No. 4 EXTERNAL WORKS Bill No. 5 STEPS TO WAREHOUSE 1785-BQ			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>REFUSE ROOM</u>			
	<u>FOUNDATIONS</u>			
	<u>EARTHWORKS</u>			
	<u>Excavate in earth and deposit excavated material on site for use as filling or backfilling (elsewhere measured)</u>			
A	Foundation trenches not exceeding 2m deep	m3	38	
B	Bases not exceeding 2m deep	m3	10	
C	Extra over excavation in earth for excavation in soft rock	m3	2	
D	Ditto but in hard rock	m3	2	
	<u>Sundries</u>			
E	Extra over all excavations for carting away from site surplus excavated material	m3	22	
F	Risk of collapse to sides of excavations not exceeding 1,5m deep	m2	120	
G	Keep the excavations free of water other than subterranean and seepage water		Item	
	<u>Filling, etc.</u>			
H	Granular earth filling arising from the excavations compacted in multiple layers not exceeding 150mm thick to 93% Mod AASHTO density in backfilling to foundation excavations	m3	26	
	Carried Forward			R
	Section No. 4 EXTERNAL WORKS Bill No. 6 REFUSE ROOM 1785-BQ			

Brought Forward			R
<u>CONCRETE</u>			
<u>Test cubes</u>			
A	Set of three concrete strength cubes each size 150 x 150 x 150mm, send to an independent laboratory for test crushing including all charges	Sets	2
<u>Plain concrete 10MPa/19mm stone</u>			
B	Blinding under bases cast against excavated surfaces	m3	0.5
C	Blinding under footing cast against excavated surfaces	m3	2
<u>Reinforced concrete 25MPa/19mm stone</u>			
D	Foundation trenches cast against excavated surfaces	m3	10
E	Bases cast against excavated surfaces	m3	2
<u>REINFORCEMENT</u>			
<u>High tensile steel reinforcement</u>			
F	12mm Diameter	t	0.99
<u>SURFACE BEDS</u>			
<u>EARTHWORKS</u>			
G	Scarify surface of ground to a depth of 150mm and compact to 90% Mod AASHTO density	m2	84
H	150mm Compacted thickness sub-base of G5 material complying with SANS 1200 ME compacted to 98% Mod AASHTO density under surface beds	m2	84
I	150mm Compacted thickness base course of G5 material complying with SANS 1200 ME compacted to 98% Mod AASHTO density under surface beds	m2	84
Carried Forward			R
Section No. 4 EXTERNAL WORKS Bill No. 6 REFUSE ROOM 1785-BQ			

Brought Forward		R
<u>CONCRETE</u>		
<u>Test cubes</u>		
A	Set of three concrete strength cubes each size 150 x 150 x 150mm, send to an independent test laboratory for test crushing including all charges	Sets 1
<u>Plain concrete 25MPa/19mm stone</u>		
B	Surface beds including striking off and curing	m3 8
<u>Sundries</u>		
C	Extra for curing top of surface bed with plastic sheeting	m2 84
D	Power float top of concrete surface bed to a smooth surface in one operation	m2 84
E	Saw cut size 3 x 60mm deep in top of concrete surface bed, reamed out to 6 x 20mm deep at top edge	m 55
<u>Movement joints</u>		
F	10mm Expanded polyethylene expansion joint filler not exceeding 300mm wide vertically between brick and concrete surfaces	m 40
<u>REINFORCEMENT</u>		
<u>Mesh reinforcement</u>		
G	Reference 245 fabric reinforcement with 300mm wide side and end laps vertically in cavity of retaining wall	m2 84
Carried Forward		R
Section No. 4 EXTERNAL WORKS Bill No. 6 REFUSE ROOM 1785-BQ		

Brought Forward				R
<u>WATERPROOFING</u>				
<u>Pointing</u>				
A	Rake out and vacuum clean saw cut size 6 x 20mm deep in top of concrete surface bed, prime, insert polycord backing strip and point 6 x 10mm joint with Sikaflex 11FC or equal approved polyurethane sealant	m	55	
B	Rake out 10mm expanded polyethylene expansion joint filler for a depth of 10mm, prime and point with Sikaflex PRO 2HP or equal approved polyurethane sealant	m	40	
<u>STRUCTURAL STEEL</u>				
<u>DETAILING OF STEELWORK</u>				
<u>Prepare detail drawings for fabrication and submit for approval</u>				
C	Structural steelwork	t	1.65	
<u>SUPPLY AND FABRICATION OF STEELWORK</u>				
<u>The following in refuse room structure hot dip galvanised after manufacture including flat section base, cap and gusset plates, cleats, connections, bolts, etc.</u>				
D	100 x 100 x 4mm Square hollow section columns	t	0.11	
E	203 x 133 x 25kg/m H - section rafters	t	0.81	
F	60 x 60 x 5mm Angle section false rafter	t	0.08	
G	60 x 60 x 5mm Angle section horizontal bracing	t	0.13	
H	125 x 65 x 20 x 2,5mm Lipped channel section purlins	t	0.52	
<u>TRANSPORT TO SITE, OFFLOADING, SITE STORAGE AND ERECTION OF STEELWORK</u>				
I	Refuse room structure	t	1.65	
Carried Forward				R
Section No. 4 EXTERNAL WORKS Bill No. 6 REFUSE ROOM 1785-BQ				

Brought Forward			R
<u>BRICK STRUCTURE</u>			
<u>CONCRETE</u>			
<u>Reinforced concrete 15MPa/12mm stone</u>			
A	Filling to cavity of hollow brick piers	m3	2
<u>REINFORCEMENT</u>			
<u>High tensile steel reinforcement</u>			
B	12mm Diameter	t	0.03
<u>BRICKWORK</u>			
<u>Brickwork in burnt clay NFP bricks in Class II mortar</u>			
C	110mm Wall forming brick pier	m2	37
D	230mm Wall	m2	98
<u>Sundries</u>			
E	75mm Wide galvanised brick reinforcement	m	111
F	150mm Wide galvanised brick reinforcement	m	294
<u>ROOF COVERINGS</u>			
<u>ROOF COVERINGS</u>			
<u>Klip-Lok 406 conceal fix aluminium sheeting with Global-Tech 5000 finish to one side and accessories</u>			
G	0,8mm Roof sheeting in single continous lengths fixed to timber purlins spaced at approximately 1200mm centres with KL 65 clips including stop ends at apex and turn down at eaves	m2	105
H	0,8mm Apex flashing 660mm girth	m	15
I	0,8mm Gable trim 550mm girth three times bent in the length	m	14
Carried Forward			R
Section No. 4 EXTERNAL WORKS Bill No. 6 REFUSE ROOM 1785-BQ			

Brought Forward			R
A	0,8mm Gutter flashing 375mm girth, two times bent in the length	m	15
B	Broad flute polyclosers	m	15
C	Narrow flute polyclosers	m	15
<u>PLUMBING</u>			
<u>Colour Tech G4 aluminium rainwater goods and fittings</u>			
D	0,9mm Aluminium VHV box gutter size 220 x 250 x 200mm with beaded front edge and fix to falls on and including brackets spaced at 750mm centres with brackets fixed to steel sheeting rails	m	15
E	Extra for stop end	No	2
F	Extra for outlet with nozzle for 200mm diameter rainwater pipe	No	2
<u>uPVC pipe complying with SANS 967 as rainwater pipes</u>			
G	200mm Rainwater pipe and fixing to vertical cladding rails and plugged to walls with aluminium alloy screw-back type downpipe clips fixed to and including angle brackets with and including U bolts at 1500mm centres	m	7
H	Extra for bends	No	4
I	Extra for shoe	No	2
<u>EXTERNAL FINISHES</u>			
<u>IN SITU FINISHES</u>			
<u>One coat external 1:5 cement plaster finished smooth with a wood float</u>			
<u>On brickwork</u>			
J	Walls	m2	78
Carried Forward			R
Section No. 4 EXTERNAL WORKS Bill No. 6 REFUSE ROOM 1785-BQ			

		Brought Forward		R
A	Slopping capping 25mm thick to top of external walls	m2	9	
B	Walls and reveals in narrow widths not exceeding 300mm wide	m2	3	
<u>INTERNAL WALL FINISHES</u>				
<u>IN SITU FINISHES</u>				
<u>One coat internal 1:5 cement plaster finished smooth with a steel trowel</u>				
<u>On brickwork</u>				
C	Walls	m2	78	
D	Walls and reveals in narrow widths not exceeding 300mm wide	m2	9	
<u>FLOOR FINISHES</u>				
<u>IN SITU FINISHES</u>				
<u>1:3 Cement mortar screed finished smooth with a steel trowel on concrete to receive floor finishes</u>				
E	65mm Average thick to floors to falls	m2	84	
<u>SUNDRIES</u>				
<u>METALWORK</u>				
<u>Gates</u>				
F	Provisional Sum allowance of R45 000.00 (Forty Five Thousand Rand) net for gates by a Selected Subcontractor		Item	45,000.00
G	Profit			%
H	Attendance			%
Carried Forward				R
Section No. 4 EXTERNAL WORKS Bill No. 6 REFUSE ROOM 1785-BQ				

Brought Forward			R
	<u>Refuse bin track</u>		
A	Provisional sum of R25 000.00 (Twenty Five Thousand Rand) net for refuse bin tracks to be used as directed by the Engineer	Item	25,000.00
	<u>Bollards</u>		
B	Provisional sum of R10 000.00 (Ten Thousand Rand) net for bollards to be used as directed by the Engineer	Item	10,000.00
<u>PLUMBING AND DRAINAGE</u>			
C	Provisional sum of R20 000.00 (Twenty Thousand Rand) net for plumbing and drainage to be used as directed by the Engineer	Item	20,000.00
<u>PAINTING</u>			
<u>ON PLASTER ETC.</u>			
	<u>Prepare, one coat plaster primer thinned with 10% mineral turpentine and two coats Polvin Super Acrylic PVA paint externally</u>		
D	Plastered walls ("White" colour group) m2	90	
	<u>Prepare, one coat plaster primer thinned with 10% mineral turpentine and two coats Polvin Super Acrylic PVA paint internally</u>		
E	Plastered walls ("White" colour group) m2	87	
Carried Forward to Summary of Section No. 4			R
Section No. 4 EXTERNAL WORKS Bill No. 6 REFUSE ROOM 1785-BQ			

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 7</u></p> <p><u>FENCING AND GATES</u></p> <p><u>Special Preamble</u></p> <p><u>Classes of Excavation</u></p> <p>AAll materials encountered in any excavation for any purpose including restricted excavation will be classified as follows:</p> <p>(a) Soft Rock Excavation Soft rock excavation shall be excavation in material that requires a back-acting excavator of flywheel power exceeding 0,10 kw per millimetre of tined-bucket width or the use of pneumatic tools.</p> <p>(b) Hard Rock Excavation Hard rock excavation shall be excavation in material (including undecomposed boulders exceeding 0.17 cubic metres in individual volume) that cannot be efficiently removed without blasting, wedging and splitting, or hydraulic hammers.</p> <p>This classification includes materials such as:</p> <ul style="list-style-type: none"> - solid unfractured rock occurring in bulk - solid ledges thicker than 200mm - igneous rock intrusions - cemented sedimentary rocks 			
	Carried Forward			R
	Section No. 4 EXTERNAL WORKS Bill No. 7 FENCING 1785-BQ			

Brought Forward				R
<u>FENCING</u>				
<u>Site clearance along fence line</u>				
A	Clear the area of the site of all rubbish, debris, rubble, grass, roots, shrubs and trees not exceeding 200mm girth, roughly level and cart away	m2	285	
<u>Take off and set aside for re-use or hand over to Employer</u>				
B	Carefully remove 2400mm high Palisade fence complete with posts	m	190	
<u>Take out from store and re-fix</u>				
C	2100mm High galvanised steel palisade fence with posts spaced at 3m centres with ends cast into and including 400 x 400 x 600mm thick 15MPa/19mm stone concrete base, excavation, etc	m	190	
<u>New palisade security fencing</u>				
D	2100mm High galvanised steel palisade fence formed of 76 x 76 x 1,6mm section posts spaced at 3m centres with ends cast into and including 400 x 400 x 600mm thick 15MPa/19mm stone concrete base, excavation, etc with two 40 x 40 x 3mm angle section rails with flat section fixing plates bolted to posts and 65 x 2,5mm D-profile palisade pales twice holed for and fixed to angle rails at 190mm centres with anti vandal shear nuts complete including anti sag pales, support posts, etc	m	5	
Carried Forward				R
Section No. 4 EXTERNAL WORKS Bill No. 7 FENCING 1785-BQ				

	Brought Forward		R
	<u>New security fencing</u>		
A	Cochrane ClearVu or equal approved (colour: Anthracite RAL 7021) high density anti-climbing and anti-cut pressed mesh panel fencing 2,1m high, formed of 3mm diameter horizontal and 4mm diameter vertical high tensile wires galvanised with marine fusion bond coating with aperture size 76,2mm x 12,7mm and reinforcing V-section ribs, bolted with vandal resistant bolts and clamping plates to 85 x 45 x 85mm taper locking post 2,7m high including locking recess mechanism at 3,382m centres with sealed end caps and 30 x 3mm x 250mm long angle section base anchors with posts bedded in and including 15MPa/19mm stone concrete bases size 400 x 400 x 600mm deep including all excavations, backfilling, carting away, etc. and fitted with galvanised steel sharktooth spike fixed to fencing panel at 150mm centres with anti-vandal bolts and 200mm concrete anti-burrow cill secured to the lower edge angle of fence	m	117
	<u>GATES</u>		
B	Provisional sum of R30 000.00 (Thirty Thousand Rand) net for pedestrian gates by a Selected Subcontractor	Item	30,000.00
C	Profit		%
D	Attendance		%
	Carried Forward to Summary of Section No. 4		R
	Section No. 4 EXTERNAL WORKS Bill No. 7 FENCING 1785-BQ		

Item No		Quantity	Rate	Amount
	<u>BILL NO. 8</u>			
	<u>LANDSCAPING</u>			
	<u>GRASSING</u>			
A	100mm Bed of topsoil supplied and carted to the site by the Contractor, spread and levelled to receive grass including all trimming of embankments to 1:1½ batter	m2	816	
B	Lay Kweek instant grass including fertilizing, watering and maintaining	m2	816	
	<u>LANDSCAPING</u>			
C	Provisional Sum of R50 000.00 (Fifty Thousand Rand) net for landscaping, planting and irrigation by a Selected SubContractor	Item		50,000.00
D	Profit		%	
E	Attendance		%	
	Carried Forward to Summary of Section No. 4			R
	Section No. 4 EXTERNAL WORKS Bill No. 8 LANDSCAPING 1785-BQ			

SECTION SUMMARY - EXTERNAL WORKS

Bill No		Page No	Amount
1	BULK EARTHWORKS	233	
2	ROADS AND PARKING	241	
3	PATHS AND PAVING	244	
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5	STEPS TO WAREHOUSE	254	
6	REFUSE ROOM	262	
7	FENCING	265	
8	LANDSCAPING	266	
Carried to Final Summary			R
Section No. 4 EXTERNAL WORKS 1785-BQ			

Brought Forward

R

**VARIATIONS AND ADDITIONS TO THE
 STANDARDIZED SPECIFICATIONS APPLICABLE TO
 THIS WORK**

- PSA General
- PSAB Engineer's Office
- PSC Site Clearance
- PSD Earthworks
- PSDB Earthworks (Pipe Trenches)
- PSDM Earthworks (Roads, Subgrade)
- PSGA Concrete (Small Works)
- PSL Medium Pressure Pipelines
- PSLB Bedding (Pipes)
- PSLC Cable Ducts
- PSLD Sewers
- PSLE Stormwater drainage
- PSM Roads (General)
- PSME Subbase
- PSMF Base
- PSMJ Segmental Paving
- PSMK Kerbing and Channeling
- PSMM Ancillary Roadworks

Notwithstanding the method of measurement prescribed in the above Standardized Specifications, measurement shall be in accordance with the latest issue of the Standard System of Measuring Builders Work issued by the Association of South African Quantity Surveyors and current at the time of measuring.

Carried Forward

R

Section No. 5
 EXTERNAL SERVICES
 Bill No. 1
 WATER SUPPLIES
1785-BQ

Brought Forward

R

Special Preamble

Classes of Excavation

All materials encountered in any excavation for any purpose including restricted excavation will be classified as follows:

- (a) Soft Rock Excavation
 Soft rock excavation shall be excavation in material that requires a back-acting excavator of flywheel power exceeding 0,10 kw per millimetre of tined-bucket width or the use of pneumatic tools.
- (b) Hard Rock Excavation
 Hard rock excavation shall be excavation in material (including undecomposed boulders exceeding 0.17 cubic metres in individual volume) that cannot be efficiently removed without blasting, wedging and splitting, or hydraulic hammers.

This classification includes materials such as:

- solid unfractured rock occurring in bulk
- solid ledges thicker than 200mm
- igneous rock intrusions
- cemented sedimentary rocks

WATER SUPPLIES

High density polyethylene Class 10 water supply piping and jointing with compression fittings

A 32mm Diameter pipe and laying in ground not less than 800mm deep including excavating trench, 150mm thick sand bed under, around and for 150mm above pipe, supplied by the Contractor and compacted to 93% Mod AASHTO density and backfilling to ground level with material arising from excavations compacted in multiple layers not exceeding 150mm thick to 95% modified AASHTO density

m

111

Carried Forward

R

Section No. 5
 EXTERNAL SERVICES
 Bill No. 1
 WATER SUPPLIES
1785-BQ

Brought Forward				R
<u>Extra over high density polyethylene water supply piping for the following plasson compression fittings</u>				
A	Excavate in earth, search for and cut into existing 75mm uPVC pipe for and fit 75mm tee	No	2	
B	32mm Elbow	No	4	
C	32mm Tee	No	2	
D	32mm Male straight adaptor	No	2	
<u>Valves, etc. complying with SANS</u>				
E	32mm Gate valve and joint to 32mm diameter uPVC pipe including adaptors	No	2	
<u>Sundries</u>				
F	Cement concrete 25 MPa/20mm stone in thrust block size 500 x 250 x 400mm thick extreme	No	2	
G	Valve box size 647 x 527 x 600mm externally formed of standard NMBM precast concrete chamber wall units compacted into in-situ material and fitted with 300 x 400mm Saint Gobain Hydrex ductile iron cover and frame (marked with "WW") to SANS 124 including excavation, backfilling, etc.	No	2	
<u>TESTING</u>				
H	Test water supply installation		Item	
<u>SUNDRIES</u>				
I	Extra over all excavations for carting away from the site surplus excavated material	m3	23	
J	Keep the trench excavations free from water		Item	
Carried Forward to Summary of Section No. 5				R
Section No. 5 EXTERNAL SERVICES Bill No. 1 WATER SUPPLIES 1785-BQ				

Item No	Quantity	Rate	Amount
<u>BILL NO. 2</u>			
<u>STORMWATER DRAINAGE</u>			
LIST OF STANDARDIZED SPECIFICATIONS APPLICABLE TO THIS WORK (NOT BOUND IN THIS DOCUMENT)			
SANS 1200 A		General	
SANS 1200 AB		Engineers Office	
SANS 1200 C		Site Clearance	
SANS 1200 D		Earthworks	
SANS 1200 DB		Earthworks (Pipe trenches)	
SANS 1200 DM		Earthworks (Roads subgrade)	
SANS 1200 G		Concrete	
SANS 1200 GA		Concrete (Small works)	
SANS 1200 L		Medium pressure pipes	
SANS 1200 LB		Bedding (pipes)	
SANS 1200 LC		Cable ducts	
SANS 1200 LD		Sewers	
SANS 1200 LE		Stormwater drainage	
SANS 1200 M		Roads (General)	
SANS 1200 ME		Sub base	
SANS 1200 MF		Base	
SANS 1200 MJ		Segmental paving	
SANS 1200 MK		Kerbing and channelling	
SANS 1200 MM		Ancillary roadworks	
		Carried Forward	R
Section No. 5 EXTERNAL SERVICES Bill No. 2 STORMWATER DRAINAGE 1785-BQ			

Brought Forward

R

**VARIATIONS AND ADDITIONS TO THE
 STANDARDIZED SPECIFICATIONS APPLICABLE TO
 THIS WORK**

PSA	General
PSAB	Engineer's Office
PSC	Site Clearance
PSD	Earthworks
PSDB	Earthworks (Pipe Trenches)
PSDM	Earthworks (Roads, Subgrade)
PSGA	Concrete (Small Works)
PSL	Medium Pressure Pipelines
PSLB	Bedding (Pipes)
PSLC	Cable Ducts
PSLD	Sewers
PSLE	Stormwater drainage
PSM	Roads (General)
PSME	Subbase
PSMF	Base
PSMJ	Segmental Paving
PSMK	Kerbing and Channeling
PSMM	Ancillary Roadworks

Notwithstanding the method of measurement prescribed in the above Standardized Specifications, measurement shall be in accordance with the latest issue of the Standard System of Measuring Builders Work issued by the Association of South African Quantity Surveyors and current at the time of measuring.

Carried Forward

R

Section No. 5
 EXTERNAL SERVICES
 Bill No. 2
 STORMWATER DRAINAGE
 1785-BQ

Brought Forward

R

Special Preamble

Classes of Excavation

All materials encountered in any excavation for any purpose including restricted excavation will be classified as follows:

- (a) Soft Rock Excavation
Soft rock excavation shall be excavation in material that requires a back-acting excavator of flywheel power exceeding 0,10 kw per millimetre of tined-bucket width or the use of pneumatic tools.

- (b) Hard Rock Excavation
Hard rock excavation shall be excavation in material (including undecomposed boulders exceeding 0.17 cubic metres in individual volume) that cannot be efficiently removed without blasting, wedging and splitting, or hydraulic hammers.

This classification includes materials such as:

- solid unfractured rock occurring in bulk
- solid ledges thicker than 200mm
- igneous rock intrusions
- cemented sedimentary rocks

Carried Forward

R

Section No. 5
EXTERNAL SERVICES
Bill No. 2
STORMWATER DRAINAGE
1785-BQ

Brought Forward			R
<u>STORMWATER DRAINAGE</u>			
<u>Ogee concrete pipes Class 100D complying with SANS 677</u>			
A	300mm Pipe and laying in ground not exceeding 1m deep including excavating trench, granular sand bedding 150mm thick under, around and 150mm above pipe compacted in multiple layers not exceeding 150mm thick to 100% Mod AASHTO density and filling to ground level with G7 material compacted in multiple layers not exceeding 150mm thick to 93% MOD AASHTO density	m	8
B	375mm Pipe and laying in ground not exceeding 1m deep including excavating trench, granular sand bedding 150mm thick under, around and 150mm above pipe compacted in multiple layers not exceeding 150mm thick to 100% Mod AASHTO density and filling to ground level with G7 material compacted in multiple layers not exceeding 150mm thick to 93% MOD AASHTO density	m	72
<u>Catchpits, inspection chambers, etc.</u>			
C	Catchpit size internally 930 x 1160 x average 1000mm deep to invert with galvanised steel hinged double grating and frame including concrete base, brick walls, precast concrete beams, fine cement benching in bottom, excavation, backfilling, formwork, holes through sides, etc. all in accordance with NMBM standard detail PSLE 6	No	4
<u>TESTING</u>			
D	Test the stormwater drainage installation		Item
<u>SUNDRIES</u>			
E	Extra over excavation in earth for trenches, inspection chambers, etc. for excavation in soft rock	m3	5
F	Ditto but in hard rock	m3	5
Carried Forward			R
Section No. 5 EXTERNAL SERVICES Bill No. 2 STORMWATER DRAINAGE 1785-BQ			

Brought Forward			R
A	Extra over all excavations for carting away from the site surplus excavated material	m3	78
B	Keep the trench and inspection chamber excavations free from water		Item
<u>STORMWATER DRAINAGE CHANNELS</u>			
<u>Earthworks</u>			
C	Excavate in earth for stormwater channels not exceeding 2m deep and deposit excavated material on site for use as filling or backfilling	m3	25
D	Extra over all excavations for carting away from site surplus excavated material	m3	25
E	Risk of collapse to sides of excavations not exceeding 1,5m deep	m2	50
F	Keep the excavations free of water		Item
<u>1:3 Cement mortar screed finished smooth with a steel trowel on concrete</u>			
G	Average 60mm thick to concrete slab to falls	m2	18
<u>Plain concrete 10MPa/19mm stone</u>			
H	Blinding cast against excavated surface	m3	2
<u>Reinforced concrete 30MPa/19mm stone</u>			
I	Bottom and sides to channels	m3	16
<u>Rough formwork to sides, edges, risers, etc.</u>			
J	Outside face of sides of channel	m2	50
<u>Smooth formwork to sides, edges, risers, etc.</u>			
K	Inside face of sides of channel	m2	50
Carried Forward			R
Section No. 5 EXTERNAL SERVICES Bill No. 2 STORMWATER DRAINAGE 1785-BQ			

Brought Forward			R
<u>High tensile steel reinforcement</u>			
A	10mm Diameter	t	1.60
<u>Mild steel hot dip galvanised gratings over channels, sumps, etc.</u>			
B	65 x 50 x 6mm Angle edging with 10mm diameter split and spread lugs 100mm long welded on back at 300mm centres and the whole set up and cast into edge of concrete walls	m	91
C	Extra for mitred and welded angle	No	4
D	480mm Wide Rectagrid RS40 fully banded grating with 60 x 4.5mm bearer bars laid loose between angle edging (elsewhere measured) in 1m lengths	m	45
<u>CONCRETE SURFACE WATER V-CHANNELS</u>			
<u>Earthworks</u>			
E	Excavate in earth to reduce levels under stormwater v-channels including trimming sides to form sloping banks, etc, and cart away from site	m3	6
F	Scarify surface of ground to a depth of 150mm and compact to 93% Mod AASHTO density to falls	m2	21
G	150mm Compacted thickness natural gravel sub-base G5 material complying with SANS 1200 ME and compacted to 98% Mod AASHTO density in base course under V-channels to falls	m2	21
<u>Concrete</u>			
H	Reinforced concrete 25MPa/19mm stone in V-channels to falls including striking off and curing	m3	3
I	Finish top of concrete aprons to a broom swept surface to falls in one operation including any additional mortar required	m2	21
Carried Forward			R
Section No. 5 EXTERNAL SERVICES Bill No. 2 STORMWATER DRAINAGE 1785-BQ			

Brought Forward			R
<u>Formwork</u>			
A	Rough formwork to edge not exceeding 300mm high	m	34
<u>Reinforcement</u>			
B	Reference 395 fabric reinforcement with 300mm wide side and end laps in concrete V-channel	m2	21
<u>Stone pitching</u>			
C	Provisional sum of R10 000.00 (Ten Thousand Rand) net for stone pitching to be used as directed by the Engineer	Item	10,000.00
<u>SUBSOIL DRAIN</u>			
<u>Seepage Drains</u>			
D	110mm Perforated PVC pipe laid behind retaining wall complete with 450 x 450mm deep 19mm stone aggregate filling around pipe with stone wrapped in Bidum A2 Geofabric	m	127
E	Extra for 110mm bend	No	5
Carried Forward to Summary of Section No. 5			R
Section No. 5 EXTERNAL SERVICES Bill No. 2 STORMWATER DRAINAGE 1785-BQ			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 3</u>			
	<u>SOIL DRAINAGE</u>			
	LIST OF STANDARDIZED SPECIFICATIONS APPLICABLE TO THIS WORK (NOT BOUND IN THIS DOCUMENT)			
	SANS 1200 A General			
	SANS 1200 AB Engineers Office			
	SANS 1200 C Site Clearance			
	SANS 1200 D Earthworks			
	SANS 1200 DB Earthworks (Pipe trenches)			
	SANS 1200 DM Earthworks (Roads subgrade)			
	SANS 1200 G Concrete			
	SANS 1200 GA Concrete (Small works)			
	SANS 1200 L Medium pressure pipes			
	SANS 1200 LB Bedding (pipes)			
	SANS 1200 LC Cable ducts			
	SANS 1200 LD Sewers			
	SANS 1200 LE Stormwater drainage			
	SANS 1200 M Roads (General)			
	SANS 1200 ME Sub base			
	SANS 1200 MF Base			
	SANS 1200 MJ Segmental paving			
	SANS 1200 MK Kerbing and channelling			
	SANS 1200 MM Ancillary roadworks			
	Carried Forward			R
	Section No. 5 EXTERNAL SERVICES Bill No. 3 SOIL DRAINAGE 1785-BQ			

	Brought Forward	
<p><u>VARIATIONS AND ADDITIONS TO THE STANDARDIZED SPECIFICATIONS APPLICABLE TO THIS WORK</u></p>		
PSA	General	
PSAB	Engineer's Office	
PSC	Site Clearance	
PSD	Earthworks	
PSDB	Earthworks (Pipe Trenches)	
PSDM	Earthworks (Roads, Subgrade)	
PSGA	Concrete (Small Works)	
PSL	Medium Pressure Pipelines	
PSLB	Bedding (Pipes)	
PSLC	Cable Ducts	
PSLD	Sewers	
PSLE	Stormwater drainage	
PSM	Roads (General)	
PSME	Subbase	
PSMF	Base	
PSMJ	Segmental Paving	
PSMK	Kerbing and Channeling	
PSMM	Ancillary Roadworks	
<p>Notwithstanding the method of measurement prescribed in the above Standardized Specifications, measurement shall be in accordance with the latest issue of the Standard System of Measuring Builders Work issued by the Association of South African Quantity Surveyors and current at the time of measuring.</p>		
Carried Forward		R
<p>Section No. 5 EXTERNAL SERVICES Bill No. 3 SOIL DRAINAGE 1785-BQ</p>		

Brought Forward

R

Special Preamble

Classes of Excavation

All materials encountered in any excavation for any purpose including restricted excavation will be classified as follows:

- (a) Soft Rock Excavation
Soft rock excavation shall be excavation in material that requires a back-acting excavator of flywheel power exceeding 0,10 kw per millimetre of tined-bucket width or the use of pneumatic tools.
- (b) Hard Rock Excavation
Hard rock excavation shall be excavation in material (including undecomposed boulders exceeding 0.17 cubic metres in individual volume) that cannot be efficiently removed without blasting, wedging and splitting, or hydraulic hammers.

This classification includes materials such as:

- solid unfractured rock occurring in bulk
- solid ledges thicker than 200mm
- igneous rock intrusions
- cemented sedimentary rocks

Carried Forward

R

Section No. 5
EXTERNAL SERVICES
Bill No. 3
SOIL DRAINAGE
1785-BQ

Brought Forward			R
<u>SEWER PIPES</u>			
<u>uPVC class 34 drainpipes and fittings with spigot and socket joints with 0 ring seals complying with SANS 791</u>			
A	110mm Pipe vertically in ground (no excavation)	m	5
B	110mm Pipe and laying in ground not exceeding 1m deep including excavating trench, granular sand bedding 150mm thick under, around and 150mm above pipe compacted in multiple layers not exceeding 150mm thick to 100% Mod AASHTO density and filling to ground level with G7 material compacted in multiple layers not exceeding 150mm thick to 93% MOD AASHTO density	m	54
C	110mm Ditto but exceeding 1m and not exceeding 2m deep	m	63
<u>Extra over uPVC pipes for the following uPVC fittings</u>			
D	110mm Bend	No	8
E	110mm Junction	No	2
F	ABC cast iron 45° type cleaning eye cover and frame and fix to top of 110mm uPVC pipe	No	5
G	PVC gully comprising P-trap with 110mm outlet, hopper head fitted with PVC grid, the whole encased in plain concrete 15MPa/19mm stone carried up to form kerb 75mm high above paving or ground level and dished to grating, finished smooth on exposed surfaces in cement mortar with rounded angles, including excavation, formwork. etc.	No	1
Carried Forward			R
Section No. 5 EXTERNAL SERVICES Bill No. 3 SOIL DRAINAGE 1785-BQ			

Brought Forward		R
<u>Inspection chambers</u>		
A	Cut into existing 160mm diameter uPVC soil drainage pipe for and build inspection chamber size 1000mm diameter x 1500mm deep to invert having 150mm thick plain concrete 20MPa/19mm stone bottom projecting 150mm beyond face of external walls all round, 1000mm diameter precast concrete chamber sections complying with SANS 1294 with 1:3 cement mortar caulked joints, 150mm thick precast concrete heavy duty roof slab with 560mm diameter opening with any variance in height made up of precast concrete spacer slabs bedded in Class II mortar, fitted with and including 550mm diameter x 190kg Type 2A cast iron circular manhole cover and frame complying with SANS 558 with the frame bedded in mortar and the cover in grease including fine cement concrete benching in bottom, vitrified clay main and branch inlet channels, excavation, backfilling, formwork, holes through sides, adaptors, etc. including carting away surplus excavated material	2
	No	
B	Inspection chamber size 1000mm diameter x 1000mm deep to invert having 150mm thick plain concrete 20MPa/19mm stone bottom projecting 150mm beyond face of external walls all around, 1000mm diameter precast concrete chamber sections complying with SANS 1294 with 1:3 cement mortar caulked joints, 150mm thick precast concrete heavy duty roof slab with 560mm diameter opening with any variance in height made up of precast concrete spacer slabs bedded in Class II mortar, fitted with and including 550mm diameter x 190kg Type 2A cast iron circular manhole cover and frame complying with SANS 558 with the frame bedded in mortar and the cover in grease including fine cement concrete benching in bottom, vitrified clay main and branch inlet channels, excavation, backfilling, formwork, holes through sides, adaptors, etc. including carting away surplus excavated material	1
	No	
Carried Forward		R
Section No. 5 EXTERNAL SERVICES Bill No. 3 SOIL DRAINAGE 1785-BQ		

Brought Forward			R
<u>TESTING</u>			
A	Test the drainage installation	Item	
<u>SUNDRIES</u>			
B	Extra over excavation in earth for trenches, inspection chambers, etc. for excavation in soft rock	m3	4
C	Ditto but in hard rock	m3	4
D	Extra over all excavations for carting away from the site surplus excavated material	m3	83
E	Keep the trench and inspection chamber excavations free from water	Item	
<u>HARDSTAND IN MAKING GOOD TO EXISTING</u>			
<u>Demolish, break up or take out and remove</u>			
F	Saw cut in top of existing 175mm thick hardstand where adjacent portion to be removed	m	234
G	175mm Thick reinforced concrete hardstand	m2	140
<u>Earthworks</u>			
H	Scarify surface of ground to a depth of 300mm and compact to 90% Mod AASHTO density	m2	140
I	150mm Compacted thickness sub-base of G5 material complying with SANS 1200 ME compacted to 98% Mod AASHTO density	m2	140
J	150mm Compacted thickness base course of G5 material complying with SANS 1200 ME compacted to 98% Mod AASHTO density	m2	140
<u>Concrete</u>			
K	Reinforced concrete with design flexural strength of 3,8MPa and crushing strength of 35MPa/19mm stone in pavings including striking off and curing	m3	24
Carried Forward			R
Section No. 5 EXTERNAL SERVICES Bill No. 3 SOIL DRAINAGE 1785-BQ			

Brought Forward				R
<u>Sundries</u>				
A	Extra for curing top of concrete hardstand with plastic sheeting	m2	140	
B	Finish top of concrete pavings to falls to a broom swept surface in one operation, including any additional mortar required	m2	140	
C	Saw cut size 3 x 70mm deep in top of concrete paving, reamed out to 6 x 20mm deep at top with edges rounded to 5mm radius	m	234	
<u>Reinforcement</u>				
D	Reference 245 fabric reinforcement with 300mm wide side and end laps in concrete surface beds	m2	140	
<u>Pointing</u>				
E	Rake out and vacuum clean saw cut size 6 x 20mm deep in top of concrete surface bed, prime, insert polycord backing strip and point 6 x 10mm joint with Sikaflex 11FC or equal approved polyurethane sealant	m	140	
Carried Forward to Summary of Section No. 5				R
Section No. 5 EXTERNAL SERVICES Bill No. 3 SOIL DRAINAGE 1785-BQ				

Item No		Quantity	Rate	Amount
	<u>BILL NO. 4</u>			
	<u>SLEEVES</u>			
	LIST OF STANDARDIZED SPECIFICATIONS APPLICABLE TO THIS WORK (NOT BOUND IN THIS DOCUMENT)			
	SANS 1200 A General			
	SANS 1200 AB Engineers Office			
	SANS 1200 C Site Clearance			
	SANS 1200 D Earthworks			
	SANS 1200 DB Earthworks (Pipe trenches)			
	SANS 1200 DM Earthworks (Roads subgrade)			
	SANS 1200 G Concrete			
	SANS 1200 GA Concrete (Small works)			
	SANS 1200 L Medium pressure pipes			
	SANS 1200 LB Bedding (pipes)			
	SANS 1200 LC Cable ducts			
	SANS 1200 LD Sewers			
	SANS 1200 LE Stormwater drainage			
	SANS 1200 M Roads (General)			
	SANS 1200 ME Sub base			
	SANS 1200 MF Base			
	SANS 1200 MJ Segmental paving			
	SANS 1200 MK Kerbing and channelling			
	SANS 1200 MM Ancillary roadworks			
	Carried Forward			R
	Section No. 5 EXTERNAL SERVICES Bill No. 4 SLEEVES 1785-BQ			

Brought Forward

R

**VARIATIONS AND ADDITIONS TO THE
 STANDARDIZED SPECIFICATIONS APPLICABLE TO
 THIS WORK**

- PSA General
- PSAB Engineer's Office
- PSC Site Clearance
- PSD Earthworks
- PSDB Earthworks (Pipe Trenches)
- PSDM Earthworks (Roads, Subgrade)
- PSGA Concrete (Small Works)
- PSL Medium Pressure Pipelines
- PSLB Bedding (Pipes)
- PSLC Cable Ducts
- PSLD Sewers
- PSLE Stormwater drainage
- PSM Roads (General)
- PSME Subbase
- PSMF Base
- PSMJ Segmental Paving
- PSMK Kerbing and Channeling
- PSMM Ancillary Roadworks

Notwithstanding the method of measurement prescribed in the above Standardized Specifications, measurement shall be in accordance with the latest issue of the Standard System of Measuring Builders Work issued by the Association of South African Quantity Surveyors and current at the time of measuring.

Carried Forward

R

Section No. 5
 EXTERNAL SERVICES
 Bill No. 4
 SLEEVES
1785-BQ

Brought Forward

R

Special Preamble

Classes of Excavation

All materials encountered in any excavation for any purpose including restricted excavation will be classified as follows:

- (a) Soft Rock Excavation
Soft rock excavation shall be excavation in material that requires a back-acting excavator of flywheel power exceeding 0,10 kw per millimetre of tined-bucket width or the use of pneumatic tools.
- (b) Hard Rock Excavation
Hard rock excavation shall be excavation in material (including undecomposed boulders exceeding 0.17 cubic metres in individual volume) that cannot be efficiently removed without blasting, wedging and splitting, or hydraulic hammers.

This classification includes materials such as:

- solid unfractured rock occurring in bulk
- solid ledges thicker than 200mm
- igneous rock intrusions
- cemented sedimentary rocks

Carried Forward

R

Section No. 5
EXTERNAL SERVICES
Bill No. 4
SLEEVES
1785-BQ

Brought Forward

R

SLEEVES

Specification

Earthworks (pipe trenches) to comply with PSDM
 (Refer to PART C3 : Scope of Works : PSDM -
 Earthworks (pipe trenches))

Bedding (pipes) to comply with PSLB (Refer to
 PART
 C3 : Scope of Works : PSLB - Bedding (pipes))

Cable ducts to comply with PSLC (Refer to PART
 C3 : Scope of Works : PSLC - Cable ducts)

**Builders work in connection with electrical, Telkom
 and data installations**

A	110mm Diameter Kabelflex or equal approved HDPE double wall cable ducting as sleeve pipe complete with 3mm galvanised steel draw wire and laying in ground 600mm deep including excavating trench, 150mm sand bed under around and 150mm thick above pipe and and filling to ground level with G7 material compacted in multiple layers not exceeding 150mm thick to 95% MOD AASHTO density	m	60
B	160mm Diameter Kabelflex or equal approved HDPE double wall cable ducting as sleeve pipe complete with 3mm galvanised steel draw wire and laying in ground 600mm deep including excavating trench, 150mm sand bed under around and 150mm thick above pipe and and filling to ground level with G7 material compacted in multiple layers not exceeding 150mm thick to 95% MOD AASHTO density	m	40

Carried Forward

R

Section No. 5
 EXTERNAL SERVICES
 Bill No. 4
 SLEEVES
 1785-BQ

	Brought Forward			R
A	Set of two 110mm diameter Kabelflex or equal approved HDPE double wall cable ducting as sleeve pipe complete with 3mm galvanised steel draw wire and laying in ground 600mm deep including excavating trench, 150mm sand bed under around and 150mm thick above pipe and and filling to ground level with G7 material compacted in multiple layers not exceeding 150mm thick to 95% MOD AASHTO density	m	10	
B	Extra for 110mm 90° bend	No	2	
C	Extra for 160mm 90° bend	No	1	
D	Extra for 160mm slow bend	No	2	
E	Draw box size internally 560 x 560mm not exceeding 1000mm deep to invert having 150mm thick plain concrete 25MPa/19mm stone bottom, 230mm brick sides in Class II mortar built to fair face, reinforced concrete 25MPa/19mm stone kerb rebated for and fitted with and including 600 x 600mm Type 4A medium duty single seal manhole cover and frame	No	4	
<u>SUNDRIES</u>				
F	Extra over excavation in earth for trenches, inspection chambers, etc. for excavation in soft rock	m3	3	
G	Ditto but in hard rock	m3	3	
H	Extra over all excavations for carting away from the site surplus excavated material	m3	49	
I	Keep the trench and inspection chamber excavations free from water		Item	
Carried Forward to Summary of Section No. 5				R
Section No. 5 EXTERNAL SERVICES Bill No. 4 SLEEVES 1785-BQ				

SECTION SUMMARY - EXTERNAL SERVICES

Bill No		Page No	Amount
1	WATER SUPPLIES	271	
2	STORMWATER DRAINAGE	278	
3	SOIL DRAINAGE	285	
4	SLEEVES	290	
Carried to Final Summary			R
Section No. 5 EXTERNAL SERVICES 1785-BQ			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 6</u></p> <p><u>OHS AND ENVIRONMENTAL MANAGEMENT</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Note to Principal Contractor</u></p> <p>Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Safety, Health and Environmental Specifications.</p> <p>After pricing of the health and safety bill of quantities, the Principal Contractor must sign the Certificate of Acquaintance as evidence that he is au fait regarding the contents, obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Safety, Health & Enviromental specifications. Failure, by the Tenderer, to sign the Certificate of Acquaintance may result in the Tender being deemed non-responsive.</p> <p><u>OCCUPATIONAL HEALTH AND SAFETY</u></p> <p><u>Compliance with project health and safety requirements</u></p>			
A	Allow for the necessary Compensation Fund or approved Insurer contributions for the duration of the project with and including renewals	Item		
B	Allow for the preparation and approval of project-specific H&S Plan & File [CR 7(1)(a)]	Item		
C	Allow for the implementation and maintenance of project-specific H&S Plan & File. [CR 7]	No	8	
	Carried Forward			R
	Section No. 6 OHS AND ENVIRONMENTAL MANAGEMENT Bill No. 1 OHS AND ENVIRONMENTAL MANAGEMENT 1785-BQ			

Brought Forward			R
A	Allow for the appointment of a Full-Time Competent Construction Health & Safety Office/ CHSM registered with SACPCMP (who has 5 or more years working practical experience in the type of construction work associated with the project) to assist in the control of all health and safety related aspects on site as per [CR 8 (5)] and under clause 4.1.2 in this OHS specification	No	8
B	Allow for provision of telecommunication facilities for the appointed Construction Health & Safety Officer/ Manager	No	8
C	Allow for provision of Basic Emergency Preparedness and Response equipment & at least one Level 2 First Aider	No	8
<u>Provide, supply and maintenance for each worker SANS approved personal protective equipment & clothing as per the site-specific risk assessments:</u>			
D	Hard hats (high density polyethylene & 6-point lining)	No	55
E	Overall / work suit (100 % cotton)	No	55
F	Safety boots / shoes (steel-toe)	No	55
G	Hand protection	No	55
H	Ear protection	No	55
I	Eye protection	No	55
J	High visibility reflective vests and/ or bibs	No	55
K	Hoarding		Item
L	Temporary warning signs and symbols		Item
M	SANS approved safety netting (orange colour with minimum of 1200 mm high)	m	500
N	Allow for pre-employment medical examinations	No	55
Carried Forward			R
Section No. 6 OHS AND ENVIRONMENTAL MANAGEMENT Bill No. 1 OHS AND ENVIRONMENTAL MANAGEMENT 1785-BQ			

Brought Forward			R
A	Allow for exit medical examinations	No	55
B	Allow for all existing valid medical certificates conducted by other Occupational Health Facilities to be verified by the CDC Occupational Health Centre at R136.99 for each medical certificate	No	55
<u>HEALTH AND SAFETY EDUCATION</u>			
C	Allow for HIV/AIDS awareness and implementation programmes, including STI and TB		Item
D	Allow for all compulsory health and safety awareness programme (e.g. inductions, toolbox talks, safety promotions, health and safety training, etc.)		Item
<u>ENVIROMENTAL</u>			
E	Provide for adequate handling and storage of materials to minimize pollution contamination of client's premises and property	No	8
F	Provide for the adequate and safe collection and disposal of waste material from site by an approved method	No	8
G	Provide facilities and eating area for workers	No	8
H	Provide for rehabilitation on completion of site areas and temporary access routes not covered by construction, grass seeding/hydro seeding and maintenance of alien vegetation or landscaping specifications upon completion of construction work	No	8
I	Provide for stockpiling of excessive natural material to the identified area i.e. prepare, spread and level	No	8
J	Provide for a responsible person to prepare and update Method Statements, conduct regular inspections, maintain records, and report to the Principal Agent	No	8
Carried to Final Summary			R
Section No. 6 OHS AND ENVIRONMENTAL MANAGEMENT Bill No. 1 OHS AND ENVIRONMENTAL MANAGEMENT 1785-BQ			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 7</u>			
	<u>PROVISIONAL SUMS</u>			
	<u>ELECTRICAL INSTALLATION</u>			
A	Provisional Sum of R3 770 000.00 (Three Million Seven Hundred and Seventy Thousand Rand) net for electrical installation by a Selected Subcontractor	Item		3,770,000.00
B	Profit		%	
C	Attendance		%	
	<u>VENTILATION INSTALLATION</u>			
	<u>Air conditioning and toilet ventilation</u>			
D	Provisional Sum of R420 000.00 (Four Hundred and Twenty Thousand Rand) net for air conditioning and toilet ventilation installation by a Selected Subcontractor	Item		420,000.00
E	Profit		%	
F	Attendance		%	
	<u>Smoke ventilation</u>			
G	Provisional Sum of R295 000.00 (Two Hundred and Ninety Five Thousand Rand) net for smoke ventilation installation by a Selected Subcontractor	Item		295,000.00
H	Profit		%	
I	Attendance		%	
	Carried Forward			R
	Section No. 7 PROVISIONAL SUMS Bill No. 1 PROVISIONAL SUMS 1785-BQ			

Brought Forward		R
<u>FIRE PROTECTION INSTALLATION</u>		
<u>Fire detection installation</u>		
A	Provisional Sum of R200 000.00 (Two Hundred Thousand Rand) net for fire detection installation by a Selected Subcontractor	Item 200,000.00
B	Profit	%
C	Attendance	%
<u>Sprinkler installation</u>		
D	Provisional Sum of R2 050 000.00 (Two Million and Fifty Thousand Rand) net for fire sprinkler installation by a Selected Subcontractor	Item 2,050,000.00
E	Profit	%
F	Attendance	%
<u>TENANT SPECIFIC EXTRAS</u>		
G	Provisional sum of R1 550 000.00 (One Million Five Hundred and Fifty Thousand Rand) net for tenant specific extras to be used as directed by the Engineer	Item 1,550,000.00
<u>BUILDER'S WORK RELATING TO M&E INSTALLATIONS</u>		
H	Provisional sum of R50 000.00 (Fifty Thousand Rand) net for builder's work relating to M&E installations to be used as directed by the Engineer	Item 50,000.00
Carried to Final Summary		R
Section No. 7 PROVISIONAL SUMS Bill No. 1 PROVISIONAL SUMS 1785-BQ		

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES	113	
2	WAREHOUSE EXTENSION	172	
3	OFFICE BLOCK EXTENSION	228	
4	EXTERNAL WORKS	267	
5	EXTERNAL SERVICES	291	
6	OHS AND ENVIRONMENTAL MANAGEMENT	294	
7	PROVISIONAL SUMS	296	
	SUB TOTAL		R
	<u>CONTINGENCY ALLOWANCE of R4 800 000.00</u> <u>(Four Million Eight Hundred Thousand Rand)</u> net for variations and site instructions to be used as directed by the Engineer or omitted in whole or in part if not required	Item	4,800,000.00
	SUB TOTAL		R
	ADD: 15% VALUE ADDED TAX		R
	Carried to Form of Tender		R