

 GAUTENG PROVINCE PROVINCIAL TREASURY REPUBLIC OF SOUTH AFRICA	Provincial Supply Chain Management	
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BID NUMBER	GT/GDSD/009/2025
BID DESCRIPTION	Establishment of pre-qualified list of service providers to render day to day maintenance in the form of refurbishment building, plumbing, electrical, mechanical, civil, landscaping and fencing works required at Gauteng Department of Social Development: Johannesburg Region

CUSTOMER DEPARTMENT	Gauteng Department of Social Development
CUSTOMER INSTITUTION	Gauteng Department of Social Development: Johannesburg Region

BRIEFING SESSION	Y	☒	N	☐	SESSION COMPULSORY	Y	☒	N	☐
					SESSION HIGHLY RECOMMENDED	Y	☒	N	☐
BRIEFING VENUE	Johannesburg City Hall, Legislature				DATE	19 March 2025		TIME	10h00
COMPULSORY SITE INSPECTION	Y	☐	N	☒	DATE			TIME	
SITE INSPECTION ADDRESS	N/A								

TERM AGREEMENT CALLED FOR?	Y	☒	N	☐	TERM DURATION	02 Years
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CLOSING DATE	28 March 2025	CLOSING TIME	11h00
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TENDER BOX LOCATION
69 Commissioner Street, Thusanong Building (Ground-floor), Marshalltown, Johannesburg, 2000

NOTES

THE TENDER BOX IS OPEN 24 hours a day, 7 days a week

- Bids / tenders must be deposited in the Tender Box on or before the closing date and time.
- Bids / tenders submitted by fax will not be accepted.
- This bid is subject to the preferential procurement policy framework act, 2000 and the preferential procurement regulations, 2022, the general conditions of contract (gcc) 2010 and, if applicable, any other special conditions of contract.

ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL GPG BID FORMS – (NOT TO BE RE-TYPED) - ALL REQUIRED INFORMATION MUST BE COMPLETED (FAILURE TO DO SO MAY RESULT IN YOUR BID BEING DISQUALIFIED)

THE TENDERING SYSTEM

The Invitation to Bid Pack consists of one Section (Section 1). This section must be submitted separately, clearly marked with the Tender Number and the Section Number.

TRAINING SESSIONS

Non-compulsory **"How to tender"** workshops are held every Wednesday from 10:00 to 13:00. Kindly follow our social media platforms / etenders@gauteng.gov.za (Publications) for the venue of the training.



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PART A INVITATION TO BID

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
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES OFFERED?	☐ Yes ☐ No [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES OFFERED?		☐ Yes ☐ No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]

QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS

IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?	☐ YES ☐ NO
DOES THE ENTITY HAVE A BRANCH IN THE RSA?	☐ YES ☐ NO
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?	☐ YES ☐ NO
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?	☐ YES ☐ NO
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?	☐ YES ☐ 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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TENDER DOCUMENTS CAN BE OBTAINED FROM: <https://e-tenders.gauteng.gov.za/Pages/Advertised-Open-Tenders.aspx>
OR

ALTERNATIVELY SEND AN E-MAIL TO: Tender.admin@gauteng.gov.za

ANY ENQUIRIES REGARDING BIDDING PROCEDURE MAY BE DIRECTED TO:

DEPARTMENT	Gauteng Department of Social Development
CONTACT PERSON	Ntombi Mekgoe
TELEPHONE NUMBER	011 355 7648
FACSIMILE	N/A
E-MAIL ADDRESS	Ntombi.Mekgoe@gauteng.gov.za

ANY ENQUIRIES REGARDING TECHNICAL INFORMATION MAY BE DIRECTED TO:

DEPARTMENT	Department of Social Development
CONTACT PERSON	Njabulo Hadebe
TELEPHONE NUMBER	066 486 5492
FACSIMILIE	N/A
E-MAIL ADDRESS	Njabulo.Hadebe@gauteng.gov.za



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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 POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 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		DATE	
CAPACITY UNDER WHICH THIS BID IS SIGNED (Proof of authority must be submitted e.g. company resolution)			



CONSENT FORM TO PROCESS PERSONAL INFORMATION IN TERMS OF THE PROTECTION OF PERSONAL INFORMATION ACT, NO. 4 OF 2013 (POPIA).

The purpose of the POPIA is to protect personal information of individuals and businesses and to give effect to their right of privacy as provided for in the Constitution.

By signing this form, you consent to your personal information being processed by the Gauteng Department of Social Development. Said consent is effective immediately and will remain effective until consent is withdrawn.

APPLICATION FOR CONSENT OF A DATA SUBJECT, FOR THE PROCESSING OF PERSONAL INFORMATION REGARDING THE PURPOSE OF BIDS.

Name & Surname/Company: _____

Residential/Postal or Business Address: _____

Contact number (s): _____

Email address: _____

1. In the furtherance of the Gauteng Department of Social Development (**The Department**) operational requirements and for purposes of complying with its policies, procedures, and privacy laws, we may be required to disclose, process and/or further process your personal information provided to us and/or made available by virtue of submission of this bid.
2. For purposes contemplated in paragraph 1, the Department, hereby requests your consent and/or authorisation for the disclosure, processing and/or further processing of any and/or all your personal information as may be necessary for reasons provided in paragraph 1.
3. By signing this Personal Information Processing Consent Form, you hereby grant the Department permission, consent and/or authorisation to disclose, process and further process your personal information within our records, as may be required and/or necessary from time to time.

I, the undersigned, _____ (INSERT FULL NAME AND SURNAME) with Identity Number _____, in my personal capacity or acting on behalf of _____ (Name of **Company**), confirm that:

4. I have read and understood the contents of this Personal Information Processing Consent form, the details of which have been explained to me and furthermore I understand my right to privacy and the right to have my personal information processed in accordance with the conditions for the lawful processing of personal information.
5. I declare that all my personal information supplied to the Department is accurate, up to date, not misleading and that it is complete in all respects and will be held and/ or stored securely for the purpose for which it was collected and that I will immediately advise the Department of any changes to my Personal Information should any of these details change.
6. I also understand that I have the right to request that my personal information be corrected or deleted, if it is inaccurate, irrelevant, excessive, out of date, incomplete, misleading, or obtained unlawfully or that the personal information or record be destroyed or deleted if the Department is no longer authorised to retain it.
7. I declare that my personal/the Company's information and/or data may be disclosed, processed and/or further processed by the Department (including its employees, agents, contractors and representatives) and such other third parties contracted with the Department involved in the processing, verification and management of my and/or Company's Personal Information in accordance with the requirements set out in paragraph 1.
8. I accept the data security and protection measures adopted and/or applied by the Department in their retention, disclosure, processing, and further processing of my and/or Company's personal information/data.
9. I accept that the Department may retain any of my personal/the Company information/data as may be required for purposes contemplated in paragraph 1 during the time period that it may be so required.
10. With my signature below, I do hereby give my or the Company's irrevocable consent, and/or authorisation for purposes required and/or detailed in this *Personal Information Processing Consent* form.

Signed at on this day of 20.....

.....

Name of data subject/ designated person

Signature

.....

.....

Name/Surname/Dept of Responsible Party

Signature

Date:

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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 1 in the enterprise, employed by the state?

YES	☐	NO	☐
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- 2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State Institution

1 the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

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	BIDDER'S DISCLOSURE	Page: 2 of 3

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	
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2.3.1 If so, furnish particulars:

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 I 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 consortium ² 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.

² 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.

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- 3.5 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.6 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.
- 3.7 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 PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

Signature		Date	
Position		Name of the Bidder	



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INSTRUCTION TO BIDDERS

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1.	The INVITATION TO BID Pack is drawn up so that certain essential information should be furnished in a specific manner. Any additional particulars shall be furnished in a separate annexure.
2.	The INVITATION TO BID forms should not be retyped or redrafted, but photocopies may be prepared and used. Additional offers may be made for any item, but only on a photocopy of the page in question or on other forms obtainable from the relevant Department or Institution advertising this BID. Additional offers made in any other manner may be disregarded.
3.	Should the INVITATION TO BID forms not be filled in by means of electronic devices, bidders are encouraged to complete forms in a black ink.
4	Bidders shall check the numbers of the pages and satisfy themselves that none are missing or duplicated. No liability shall be accepted with regards to claims arising from the fact that pages are missing or duplicated.
5	The INVITATION TO BID forms shall be completed, signed and submitted with the bid. SBD 5 (National Industrial Participation Programme Form) will only be added to the INVITATION TO BID pack when an imported component in excess of US \$ 10 million is expected.
6	A separate SBD 3.1, SBD 3.2 or SBD 3.3 form (PRICING SCHEDULE per item) shall be completed in respect of each item. Photocopies of this form may be prepared and used or additional copies, (if required) are obtainable from the relevant Department or Institution advertising this BID (not applicable for PANEL of BIDDERS).
7	Firm delivery periods and prices are preferred. Consequently, bidders shall clearly state whether delivery periods and prices will remain firm for the duration of any contract, which may result from this BID, by completing SBD 3.1 (PRICING SCHEDULE per item) (not applicable for PANEL of BIDDERS).
8	If non-firm prices are offered bidders must ensure that a separate SBD 3.2 (Non-Firm Prices per item) is completed in respect of each item for which a non-firm price is offered. Photocopies of this form may be prepared and used or additional copies, (if required) are obtainable from the relevant Department or Institution advertising this BID (not applicable for PANEL of BIDDERS).



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INSTRUCTION TO BIDDERS

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9	Where items are specified in detail, the specifications form an integral part of the BID document (see the attached specification) and bidders shall indicate in the space provided whether the items offered are to specification or not (not applicable for PANEL of BIDDERS).
10	In respect of the paragraphs where the items offered are strictly to specification, bidders shall insert the words "as specified" (see the attached specification) (not applicable for PANEL of BIDDERS).
11	In cases where the items are not to specification, the deviations from the specifications shall be indicated (see the attached specification).
12	In instances where the bidder is not the manufacturer of the items offered, the bidder must as per SBD 3.1 or SBD 3.2 (PRICING SCHEDULE per item) submit a Letter of Supply from the relevant manufacturer or his supplier (not applicable for PANEL of BIDDERS).
13	The offered prices shall be given in the units shown in the attached specification, as well as in SBD 3.1 or SBD 3.2 (PRICING SCHEDULE per item) (not applicable for PANEL of BIDDERS).
14	With the exception of imported goods, where required, all prices shall be quoted in South African currency. Where bids are submitted for imported goods, foreign currency information must be supplied by completing the relevant portions of SBD 3.1 (PRICING SCHEDULE per item) and SBD 3.2 (PRICING SCHEDULE per item) (not applicable for PANEL of BIDDERS).
15	Unless otherwise indicated, the costs of packaging materials (if applicable) are for the account of the bidder and must be included in the bid price on the (PRICING SCHEDULE per item) (not applicable for PANEL of BIDDERS).
16	Delivery basis (not applicable for PANEL of BIDDERS): a) Supplies which are held in stock or are in transit or on order from South African manufacturers at the date of offer shall be offered on a basis of delivery into consignee's store or on his site within the free delivery area of the bidder's centre, or carriage paid consignee's station, if the goods are required elsewhere. b) Notwithstanding the provisions of paragraph 16(a), offered prices for supplies in respect of which installation / erection / assembly is a requirement, shall include ALL costs on a "delivered on site" basis, as specified on the (PRICING SCHEDULE per item).



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INSTRUCTION TO BIDDERS

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17	Unless specifically provided for in the BID document, no bids transmitted by facsimile or email shall be considered.
18	Failure on the part of the bidder to sign any of the INVITATION TO BID forms and thus to acknowledge and accept the conditions in writing or to complete the attached INVITATION TO BID forms, Preference documents, questionnaires and specifications in all respects, may invalidate the bid.
19	Bids should preferably not be qualified by the bidder's own conditions of bid. Failure to comply with these requirements (i.e. full acceptance of the General Conditions of Contract or to renounce specifically the bidder's own conditions of bid, when called upon to do so, may invalidate the bid.
20	In case of samples being called for together with the bid, the successful bidder may be required to submit pre-production samples to the South African Bureau of Standards (SABS) or such testing authority as designated at the request of the relevant Department concerned. Unless the relevant Department decides otherwise, pre-production samples must be submitted within thirty (30) days of the date on which the successful bidder was requested to do so. Mass production may commence only after both the relevant Department and the successful bidder have been advised by the SABS that the pre-production samples have been approved.
21	Should the pre-production samples pass the inspections / tests at the first attempt, the costs associated with the inspections / tests will be for the account of the relevant Department. If the SABS or such testing authority as designated do not approve the pre-production samples, but requires corrections / improvements, the costs of the inspections / tests must be paid by the successful bidder and samples which are acceptable in all respects must then reach the SABS or such testing authority as designated within twenty-one (21) days of the date on which the findings of the SABS or such testing authority as designated were received by the successful bidder. Failure to deliver samples within the specified time and to the required standards may lead to the cancellation of the intended contract.
22	In case of samples being called for together with the bid, the samples must be submitted together with the bid before the closing time and date of the BID, unless specifically indicated otherwise. Failure to submit the requested sample(s) before the closing time and date of the BID may invalidate the bid.
23	In cases where large quantities of a product are called for, it may be necessary for the relevant item to be shared among two (2) or more suppliers.



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INSTRUCTION TO BIDDERS

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24	In cases where the relevant Department or Institution advertising this BID may deem it necessary, a formal contract may be entered into with the successful bidder, in addition to a Letter of Acceptance and / or purchase order being issued.
25	If any of the conditions on the BID forms are in conflict with any special conditions, stipulations or provisions incorporated in the bid invitation, such special conditions, stipulations or provisions shall apply.
26	This BID is subject to the General Conditions of Contract and re-issues thereof. Copies of these conditions are obtainable from any office of the Gauteng Provincial Government (GPG).
27	Each bid must be submitted in a separate, sealed envelope on which the following must be clearly indicated: • NAME AND ADDRESS OF THE BIDDER; • THE BID (GT) NUMBER; AND • THE CLOSING DATE. The bid must be deposited or posted; • To the address as indicated on SBD1 and to reach the destination not later than the closing time and date; OR • deposited in the tender box as indicated on SBD1 before the closing time and date.
28	The Gauteng Provincial Government has become a member and as such a key sponsor of the Proudly South African Campaign. GPG therefore would like to procure local products of a high quality, produced through the practise of sound labour relations and in an environment where high environmental standards are maintained. In terms of the Proudly South African Campaign South African companies are encouraged to submit interesting and innovative achievements in the manufacturing field (if relevant to this BID) – including information on new products, export achievements, new partnerships and successes and milestones.
29	Compulsory GPG Contract: It is a mandatory requirement that successful bidder/s (to whom a tender is awarded) sign a GPG Contract upon award of any given contract.

	PROVINCIAL SUPPLY CHAIN MANAGEMENT	
	POINT SYSTEM	Page 1 of 1

BID NUMBER	GT/GDSD/009/2025	CLOSING DATE	28 March 2025
VALIDITY OF BID	90 days	CLOSING TIME	11h00

The goods / services are required by the Customer Department / Institution, as indicated on SBD 01.

This BID will be evaluated on the basis of the under noted point system, as stipulated in the Preferential Procurement Policy Framework Act (Act number 5 of 2000).

POINT SYSTEM

The applicable preference point system for this tender is the 90/10 preference point system.	
The applicable preference point system for this tender is the 80/20 preference point system.	
Either the 90/10 or 80/20 preference point system will be applicable in this tender	✓

TYPE OF CONTRACT (COMPLETED BY PROJECT MANAGER)

SERVICE BASED	Y	☒	N	☐	SERVICE BASED	Y	☒	N	☐	VALUE BASED	Y	☐	N	☒
VALUE BASED	Y	☐	N	☒										
QUANTITY BASED	Y	☐	N	☒										
TERM BASED	Y	☒	N	☐										

 GAUTENG PROVINCE PROVINCIAL TREASURY REPUBLIC OF SOUTH AFRICA	Provincial Supply Chain Management	
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COMPULSORY BRIEFING DECLARATION OF ATTENDANCE

BID NUMBER	GT/GDSD/009/2025		
BID DESCRIPTION	Establishment of pre-qualified list of service providers to render day to day maintenance in the form of refurbishment building, plumbing, electrical, mechanical, civil, landscaping and fencing works required at Gauteng Department of Social Development: Johannesburg Region		
CLOSING DATE	28 March 2025	CLOSING TIME	11h00

The goods / services are required by the Customer Department / Institution, as indicated on form SBD1.

CUSTOMER DEPARTMENT	Gauteng Department of Social Development						
CUSTOMER INSTITUTION	Gauteng Department of Social Development: Johannesburg Region						
BRIEFING SESSION	Y	☒	N	☐	DATE	19 March 2025	TIME 10h00
VENUE	Legislature, City Hall						

I/We hereby declare that I/we attended the compulsory briefing session to understand the requirements of the Gauteng Provincial Government to supply all or any of the supplies and/or to render all or any of the services described in the attached Bid documents, on the terms and conditions and in accordance with the specifications stipulated in the Bid documents.

I, THE UNDERSIGNED (NAME)

CERTIFY THAT THE INFORMATION FURNISHED AT THE BRIEFING SESSION WAS UNDERSTOOD.

BIDDER OR ASSIGNEE(S) NAME		POSITION		SIGN		DATE	
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FULL COMPANY NAME	
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GPG OFFICIAL NAME		POSITION		SIGN		DATE	
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END USER STAMP



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- Bidders must complete Compulsory Documents and attach it to their Bid Document failing which the tender shall not be considered for further evaluation.
- Points will be awarded in accordance with the Preferential Procurement Policy Framework Act (PPPFA)

CRITERIA FOR FUNCTIONALITY

NOTE: Bidders who fail to meet the above minimum requirements (Stage 1) shall be automatically eliminated and will not be considered for further evaluation.



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EVALUATION METHODOLOGY PROCESS

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STAGE 2

CRITERIA FOR PRICE AND PREFERENCE POINTS (SPECIFIC GOALS)	POINTS
Bid Price	90 or 80
Preference Points (Specific Goals)	10 or 20
TOTAL	100

SPECIFIC GOALS SHALL BE ALLOCATED AS FOLLOWS:

	POINTS ALLOCATED
SPECIFIC GOALS	90 or 80
1. Enterprise owned by black	3 or 5
2. Enterprise owned by women	2 or 4
3. Enterprise owned by youth	2 or 4
4. Enterprise owned by pwd's	2 or 2
5. Gauteng Province	1 or 5
6.	
7.	
8.	
9.	
10.	

***It is the responsibility of the bidder to complete the relevant form (SBD 6.1) and submit it with this BID to the relevant office to qualify for the preference points.**



PROVINCIAL SUPPLY CHAIN MANAGEMENT

EVALUATION METHODOLOGY PROCESS

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BIDDERS JOB CREATION ANALYSIS

Company Name		Date Established	
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	Permanent	Temp	SA Citizens	Other	Comments
Staff compliment at Establishment of Enterprise					
Current staff compliment					
Number of jobs to be created if Bid is successful					

The successful bidder may be audited during the course of the contract to verify the above information.

Comments to include:

- If Job Creation is direct (by your own company) or indirect (by your source of supply)
- Where the jobs created for employees that were in existing positions or unemployed? (Net Job Creation)

NOTE: Job Creation should adhere to all applicable RSA Legislation and Regulations.

THIS SECTION IS FOR OFFICE USE ONLY						
Observations	Initial Job Count	Job Creation Potential	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter
Year 1						
Year 2						
Year 3						
Year 4						
Year 5						



TERMS OF REFERENCE

ESTABLISHMENT OF A PRE-QUALIFIED LIST OF SERVICE PROVIDERS TO RENDER DAY TO DAY MAINTENANCE IN THE FORM OF REFURBISHMENT BUILDING, PLUMBING, ELECTRICAL, MECHANICAL, CIVIL, LANDSCAPING AND FENCING WORKS REQUIRED AT GDSD INSTITUTIONS, REGIONAL OFFICE AND SERVICE POINTS GAUTENG PROVINCE (JOHANNESBURG REGION ONLY) FOR A FIXED TERM PERIOD OF TWO (02) YEARS

ESTABLISHMENT OF A PREQUALIFIED LIST OF SERVICE PROVIDERS TO RENDER DAY TO DAY MAINTENANCE IN THE FORM OF REFURBISHMENT BUILDING, PLUMBING, ELECTRICAL, MECHANICAL, CIVIL, LANDSCAPING, STRUCTURAL, FIRE COMPLIANCE AND EXTERNAL WORKS REQUIRED AT GDSD INSTITUTIONS, REGIONAL AND SERVICE POINTS IN GAUTENG PROVINCE (JOHANNESBURG REGION ONLY) FOR A FIXED TERM PERIOD OF 2 (TWO) YEARS

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ESTABLISHMENT OF A PREQUALIFIED LIST OF SERVICE PROVIDERS TO RENDER DAY TO DAY MAINTENANCE IN THE FORM OF REFURBISHMENT BUILDING, PLUMBING, ELECTRICAL, MECHANICAL, CIVIL, LANDSCAPING, STRUCTURAL, FIRE COMPLIANCE AND EXTERNAL WORKS REQUIRED AT GDSD INSTITUTIONS, REGIONAL AND SERVICE POINTS IN GAUTENG PROVINCE (JOHANNESBURG REGION ONLY) FOR A FIXED TERM PERIOD OF 2 (TWO) YEARS

1. BACKGROUND

The GDSD is committed to ensuring that the environment at facilities and offices are conducive and safe for clients and staff at all times. The need for repair services at GDSD facilities and offices has increased and this necessitates that a database of service providers be established to expedite the procurement process of these services in order to ensure quality service and timeous delivery.

2. LEGAL FRAMEWORK

2.1. The following legislation framework informs these criteria:

- a. The Constitution of the Republic of South African (Act 108 of 1996), as amended
- b. Public Finance Management Act (PFMA) (Act 1 of 1999), as amended
- c. Treasury Regulations 2017 for departments, constitutional institutions and public entities issued in terms of the PFMA
- d. Preferential Procurement Policy Framework Act (PPPFA) (Act 5 of 2000), as amended
- e. The Broad Based Black Economic Empowerment (BBBEE) (Act 53 of 2003), as amended
- f. Framework for Infrastructure Delivery and Procurement Management (FIDPM)
- g. Social Services Legislation, Regulation and Policy Prescripts
 - **Integrated social facilities/ multipurpose centres**
The White paper for social welfare 1997 and Integrated Service Delivery Model.
 - **Secure centres**
The Child Justice Act 75 of 2008.
 - **Older persons facilities**
The Older Persons Act No 13 of 2006.
 - **Rehabilitation centres**
The Prevention of and Treatment of Substance Abuse Act, Act no. 70 of 2008 which provides the legal framework.
 - **Children facilities**
Children's Act, No. 38 of 2005.
- h. Occupational Health and Safety Act (OHS) (Act 85 of 1993), as amended
- i. Compensation for Occupational Injuries and Disaster (Act 130 of 1993), as amended
- j. Unemployment Insurance Act (Act No 61 of 2001), as amended
- k. Construction Industry Development Board (CIDB) (Act 38 of 2000), as amended
- l. National Building Regulations and Building Standards (Act 103 of 1977), as amended.

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m. Applicable Norms and Standards

- i. National Department of Public Works norms and standards for offices
- ii. National norms and standards for Social Service Delivery
- iii. National Norms and Standards for Drop-in Centres
- iv. National Norms and Standards for Partial Care
- v. National Norms and Standards for Prevention and Early Intervention Programmes
- vi. National Norms and Standards for Child and Youth Care Centres
- vii. National Norms and Standards for Early Childhood Development
- viii. National Department of Social Development Minimum Norms and Standards for Out-Patient Treatment Centres
- ix. SABS approved or higher standards

3. PROJECT BRIEF

- a. Appointed service providers will be expected to execute day-to-day maintenance in the form of refurbishment building, plumbing, electrical, mechanical, structural, fire compliance civil horticultural and external works as and when required at GDSD facilities and offices across Gauteng Province in order to render the facilities and offices safe, secure and functional in terms of the infrastructure.
- b. A number of facilities (Institutions, Regional Offices and Service Points) to be targeted and will be based on the unplanned maintenance needs as they occur. The needs may arise as a result of required preventative measures, aging of the buildings, natural and/ or man-made events or conditions.

4. SCOPE OF WORK / KEY DELIVERABLES

4.1 The services will involve the following:

- a. Building, plumbing, electrical, mechanical, civil horticultural, structural, fire compliance and external works renovations services through immediate intervention on site. Services must be rendered within the specified period to be determined in relation to the seriousness and/or urgency of the situation as well as the complexity and type of work.
- b. Restoration of GDSD facilities to make them safe, secure and functional immediately after disastrous events or emergencies.

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4.2. Areas of operation

The preferred TRADE OF SPECIALTY must be selected by placing a tick in the box next to the Region. **(If the company select all the trades proof of competency and CV's must be attached)**

PLEASE INDICATE THE PREFERRED TRADE(S) OF SPECIALITY BY A TICK IN THE SPACE PROVIDED AND MUST MATCH THE CIDB PROVIDED BY THE BIDDER

4.2.1 CLUSTER ONE (1)

REGION	TRADE OF SPECIALITY	CHOICE ✓
JOHANNESBURG	Building	
	Plumbing	
	Electrical	
	Mechanical	
	Civil	
	Landscaping	
	Structural	
	Fire Compliance	
	Eternal Works	

5 EVALUATION CRITERIA

Preferential Procurement Policy Framework Act 5 of 2000 (PPPFA), and the Preferential Procurement Regulations, 2022 (PPR).

- The evaluation of the bids will consist of a two-stage process as per the PPR, 2022
- The **first stage** of the evaluation of bids will consist of **Administrative Compliance** and **Functionality Evaluation** (Desktop and Presentation). During the Functionality Evaluation stage, bids that do not meet the minimum criteria or threshold for functionality will be disqualified and will not be considered for the second stage of evaluation
- The **second stage** of evaluation will consist of the **Preference Points System** on the 80/20 OR 90/10 principle, where 20 OR 10 points are allocated for specific goals and 80 OR 90 points for price only. (THE SECOND STAGE WILL BE APPLICABLE ONLY AFTER THE APPOINTMENT TO THE PANEL)

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The 2 Stage Evaluation Methodologies

5.1 Stage 1 a: Mandatory/Compulsory Administrative Documents

A paper-based administrative evaluation will be carried out on all the bids received. Should the undermentioned documentation not be signed and/or attached, such a bid will be eliminated from any further evaluation.

- a. Original tender document Note: please do not return the priced BOQ, as part of the returnable.
- b. Bidder's Disclosure should be completed, duly signed and dated by the bidder (SBD 4)
- c. Copy of valid Construction Industry Development Board (CIDB) registration and grading. (including certified Trade Certificates in case of Electrical Wireman's license, Mechanical, Civil and Plumbing) and it will be verified. **Only CIDB valid certificate will be accepted.** No proof of payment or dashboard will be accepted.
- d. Proof of valid registration with Compensation for Occupational Injuries and Disaster (COIDA), **only COIDA form the Department of Labour will be accepted.**
- e. Compulsory briefing session certificate
- f. Attach proof of address municipal tax invoice or lease agreement in the name of the company.

NOTE: Bidders that do not comply with all of the above criteria will be eliminated and not considered for further evaluation

NOTE: Additional Required Documents

- Valid Tax Clearance Certificate and/or SARS issued pin code (which will be verified)
- Proof of company registration on Central Supplier Database Registration (CSD)
- Copy of Companies and Intellectual Property Commission (CIPC) registration previously known as CK Document
- Audited financial statements for two consecutive year comparative financial years

ESTABLISHMENT OF A PREQUALIFIED LIST OF SERVICE PROVIDERS TO RENDER DAY TO DAY MAINTENANCE IN THE FORM OF REFURBISHMENT BUILDING, PLUMBING, ELECTRICAL, MECHANICAL, CIVIL, LANDSCAPING, STRUCTURAL, FIRE COMPLIANCE AND EXTERNAL WORKS REQUIRED AT GDSD INSTITUTIONS, REGIONAL AND SERVICE POINTS IN GAUTENG PROVINCE (JOHANNESBURG REGION ONLY) FOR A FIXED TERM PERIOD OF 2 (TWO) YEARS

5.2 Stage 1b: Paper Based / Functionality Evaluation

A paper-based functionality evaluation will be carried out on all shortlisted bids. Bids that score below the minimum threshold of **80** points in respect of **functionality** per category will be regarded as non-responsive and will therefore be disqualified.

Functionality evaluation will be based on the following criteria:

NOTE: Each bidder is allowed to bid for one category only.

5.2.1 CATEGORY 1

No	Criteria for functionality CIDB Grade 1 - 2	Points
1	Capacity to Deliver	55
1.1	Relevant Company Experience in the field. (Reference letter to contain the following: completion certificate, value, client, PO with a letter of reference, a clear company letter head, include contactable details, include value of work, be signed and dated). The Department may call to verify the information, which may impact the outcome. 1.1.1 <u>Projects done (55)</u> a. Bidder has successfully completed at least 2 projects of value greater than R200k, each with positive references in the case of Grade 1 contractor and greater than R650k in the case of Grade 2 contractor (55) b. Bidder has successfully completed at least 2 projects of value greater than R100k, each with positive reference in the case of Grade 1 contractors and greater than R200k in the case of Grade 2 contractor (40) c. Bidder has successfully completed at least 1 project in the built environment of any value with positive references (35) d. Bidder has submitted no information or inadequate information to determine scoring level (0)	

ESTABLISHMENT OF A PREQUALIFIED LIST OF SERVICE PROVIDERS TO RENDER DAY TO DAY MAINTENANCE IN THE FORM OF REFURBISHMENT BUILDING, PLUMBING, ELECTRICAL, MECHANICAL, CIVIL, LANDSCAPING, STRUCTURAL, FIRE COMPLIANCE AND EXTERNAL WORKS REQUIRED AT GDSD INSTITUTIONS, REGIONAL AND SERVICE POINTS IN GAUTENG PROVINCE (JOHANNESBURG REGION ONLY) FOR A FIXED TERM PERIOD OF 2 (TWO) YEARS

2	Human Resource Capacity	45
2.1	Relevant Skills, Attributes and Competencies in trades: (at least one CV and any accredited certificate in line with the trade must be attached. Experience included on the CV must be accompanied by certification as proof. Foreign qualifications must be accompanied by South African Qualifications Authority letter, or they will not be considered) (45) Each discipline will be evaluated and must be submitted separately. i. years and above (45) ii. 3 to 4 years (30) iii. No experience (00) a. Building –NHBRC must be in the name of the company and be accompanied by a relevant human resource skill/certification in the built environment. b. Plumbing – Trade Test c. Electrical – Trade Test and Wireman's Licence d. Mechanical – Trade Test e. Civil – N3 to N6 f. Landscaping – National Diploma /Certification g. Structural- National Diploma h. Fire Compliance- SAQCC Fire i. External Works – National Diploma/ Trade Test	
Total Points		100
Minimum threshold		80

ESTABLISHMENT OF A PREQUALIFIED LIST OF SERVICE PROVIDERS TO RENDER DAY TO DAY MAINTENANCE IN THE FORM OF REFURBISHMENT BUILDING, PLUMBING, ELECTRICAL, MECHANICAL, CIVIL, LANDSCAPING, STRUCTURAL, FIRE COMPLIANCE AND EXTERNAL WORKS REQUIRED AT GDSD INSTITUTIONS, REGIONAL AND SERVICE POINTS IN GAUTENG PROVINCE (JOHANNESBURG REGION ONLY) FOR A FIXED TERM PERIOD OF 2 (TWO) YEARS

5.2.2 CATEGORY 2

	Criteria for functionality CIDB Grade 3 - 6	Points
1	Capacity to Deliver	60
1.1	Relevant Company Experience in the field. (reference letters, job cards or purchase orders must be attached) 1.1.1 <u>Projects done (60)</u> a. Bidder has successfully completed at least 2 projects of value greater than R13m, each with positive references in the case of Grade 6 contractors, greater than R6,5m in the case of Grade 5 contractors, greater than R4m in the case of Grade 4 contractors greater than R2m in the case of Grade 3 contractors (60) b. Bidder has successfully completed at least 2 projects of value greater than R6.5m, each with positive references Grade 6 contractors and greater than R4m in the case of Grade 5 contractors and greater than R2m in the case of Grade 4 contractors and greater than R650k in the case of Grade 3 contractors (50) c. Bidder has submitted no information or inadequate information to determine scoring level. (0)	
2	Human Resource Capacity	40
2.1	Relevant Skills, Attributes and Competencies (at least one CV including copy/s of qualifications for the following required skills MUST be attached. Experience included on the CV must be accompanied by a certificate as proof. Foreign qualifications must be accompanied by South African Qualifications Authority letter, or they will not be considered)	

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	<u>Project Management Qualifications (Built Environment) (20)</u> a. Professional Engineer or Technologist (20) b. Graduate Engineer or B Tech (15) c. National Diploma (10) d. Project Management Training (5)	
	<u>Project Management Team Experience (Built Environment) (20)</u> a. 5 years and more (20) b. 3 – 4 years (15) c. 1 -2 years (10) d. 0 years (0)	
Total Points		100
Minimum threshold		80

Stage 2 Evaluation

Price Points and preferential points 80/20 or 90/10

SPECIFIC GOAL	No of Points	Points Claimed	No of Points	Points Claimed
ENTERPRISE OWNED BY BLACK PEOPLE	5		3	
ENTERPRISE OWNED BY WOMEN	4		2	
ENTERPRISE OWNED BY YOUTH	4		2	
ENTERPRISE OWNED BY PWD'S	2		2	
GAUTENG PROVINCE	5		1	
Total	20		10	

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5. FORMAT AND SUBMISSION OF BID

Each Invitation to Bid shall comprise of clearly indexed and properly bound returnable documents as follows:

Note: any loose documents that may be lost, the department will not be held accountable and this may affect the bidder's tendering results.

1	Standard Bidding documents
2	Signed Bid Commitment and Declaration of Interest (SBD 4)
3	Copy of valid Construction Industry Development Board (CIDB) registration and grading (including trade certificates in case of Electrical Wireman's License and Plumbing)
4	Copy of Companies and Intellectual Property Commission (CIPC) registration previously known as CK Document.
5	Proof of valid registration with Compensation for Occupational Injuries and Disaster (COIDA)
6	Valid Tax clearance status and/or SARS Issued Pin Code (Which will be verified)
7	Proof of company registration on Central Supplier Database (CSD)

7 TERMS AND CONDITION

- 7.1 If a company has previously tendered for JHB they should retender/resubmit.
- 7.2 If a company has already applied and are part of the panel in one of the regions, it will not be considered in the Johannesburg Region. Companies that have already awarded as part of the panel in RFP NO GT/GDSD/095/2023 for other regions will not be considered.
- 7.3 Service Provider(s) will be appointed as per their trade(s) of speciality. GDSD reserves the right to appoint a successful service provider in only one cluster.
- 7.4 Only Service Providers registered as CIDB 1 to 6 will be considered.
- 7.5 GDSD will only consider the award of the new projects to Service Providers who completed previous projects in accordance with the contract and all relevant close-out documentation has been signed off.
- 7.6 GDSD reserves the right to terminate Service Providers contracts in the event where there is clear evidence of none/poor performance and/or deviations from the agreed scope, specifications and the signed contract.
- 7.7 The contractor who has been appointed on the database can only commence with a project upon being issued with a purchase order, a job card and Site Handover

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Certificate indicating the contract amount and contract period as an indication that the site has been officially handed over for repairs and or maintenance.

- 7.8 Service providers will be paid after receipt of correct invoices within 30 (thirty) days.
- 7.9 Payments will be processed in accordance with deliverables accomplished as per the contract after inspection and validation. Proof of completion of the relevant deliverables shall be in the form of documentation stating completion of the relevant deliverables as signed off by relevant parties. **Note Statutory sign off.**
- 7.10 No contractual relationship shall come into existence between GDSD and any sub-contractors or any other suppliers other than the contracted Service Providers. Hence, GDSD shall entertain no payment claims from any other party other than the contracted Service Providers. GDSD does not pay for material on or off site
- 7.11 A schedule of attached rates which are fixed shall include all material, labour, overheads, profits and any other costs to be incurred by the Service Provider. All successful contractors will be subject to the attached prescribed rates (see Annexure "A")
- 7.12 Service provider/s shall be registered with the Workman's Compensation and shall provide GDSD with credible proof of such registration upon request thereof.
- 7.13 Service Providers will only be appointed in Johannesburg region. The number of Service Providers appointed per cluster will be at GDSD's discretion. GDSD reserves the right to do cross-cluster appointments as and when required.
- 7.14 Service Providers shall only apply for appointment in their clusters of residence/ operation.
- 7.15 Service Providers shall have the capacity, functional skills and experience to provide the services required by GDSD.
- 7.16 Successful Service Providers shall be able to commence work as and when required. Particular project / service will be initiated by means of written instructions to the successful Service Providers Generally, timeframes cannot be agreed before entering into a contract. As such, the duration of any given assignment/project will depend mainly on the nature and scope of the work to be done. The appointed Service Provider shall be available at all stages to provide assistance within the agreed time frames.
- 7.17 Successful bidder(s) shall be able to commence work immediately upon receipt of an official Purchase order/job card and having been handed the site over

NB!!No work can commence prior to receipt of written instruction to start works.

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- 7.18 If it is shown that errors or shortcomings exist within the service provided, the Service Providers shall be notified in writing and shall be required to perform corrective services within 7 (seven) calendar days to remedy such errors at no cost to GDSD.
- 7.19 GDSD reserves the right to reject work that does not meet the required standard. GDSD shall serve 30 (thirty) days written notice for termination of contract in case of performance not being in accordance with the contract.
- 7.20 GDSD also has the right to terminate the contract at any stage if there is substantive proof of inefficiency in the delivery of the service

8. TIME FRAMES

Two (2) years

9. PENALTIES/WARRANTIES

- 9.1 If it is shown that errors or shortcomings exist within the service provided, the bidder shall be notified in writing and shall be required to perform corrective services within seven (7) days to remedy such errors at no cost to the Department of Social Development.
- 9.2 The GDSD reserves the right to inspect or audit any document pertaining to this contract within one year of the date of expiry of the contract. This may also include queries and complaints.
- 9.3 Should any audit or inspection reveal that the Contractor has not complied with any of the terms of this contract, the Contractor will be liable for the cost of the audit or inspection as well as the cost of any losses incurred by the State associated with such non-compliance.

10 INSTRUCTIONS FOR THE PROPOSAL

- 10.1 This Invitation to Bid does not constitute an offer. It intends to provide sufficient information for the preparation and submission of comparable proposals by the Service Providers.

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10.2 To facilitate the review of all the proposals, all Service Providers shall compile their responses in the format, marked as Proposal. Only the requested information should be inserted and no alterations to the layout shall be made.

10.3 GDSD requires a clear, concise and factual response. Service Providers shall consult, in writing, with the authorised representative of GDSD in case of any discrepancy, ambiguity or uncertainty pertaining to the meaning or effect of any description, dimension, quality, quantity or any other information contained in this BID.

10.4 Proposals shall be compiled in the following manner (non-compliance with the requirements below may lead to the disqualification of defaulting submission(s):

- a. Clear indexing of the proposal content shall be included
- b. 1 (One) original proposal (marked "original") shall be submitted

10.5 All proposals shall be delivered bound and in a sealed envelope. Each Bid shall be submitted in 1 (one) envelope and the envelope shall be marked with the following information:

- a) Name of Service Provider
- b) Description of proposal
- c) Bid number
- d) Closing date and time

10.6 Service Providers shall take note of the following:

- a) Tender Costs

The Service Provider will be liable for all costs incurred in response to this BID.

10.7 The Service Provider shall fully acquaint themselves with the conditions, requirements and specifications of the GDSD before submitting a completed response. Failure to do so will be at the Service Provider's own risk and the Service Provider cannot secure relief on the grounds of any mistake.

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- 10.8 Service Providers shall take into account that GDSD's total requirements may not be allocated to only one Service Provider.
- 10.9 The successful Service Provider(s) will be required to enter into a contract with GDSD. This BID or any part thereof may be incorporated into and made part of such a contract. GDSD shall not incur any obligation or liability towards the successful Service Provider(s) until a contract has been signed off by the duly authorised GDSD representative and the Service Provider(s).

11. LATE SUBMISSIONS

Proposals submitted after the specified closing date and time will not be entertained.

12. DECLARATION

I / We the undersigned hereby declare that I / We have read and understand the above and agree to be bound by the stated terms and conditions.

Name of Service Provider:

Name of Contact Person:

Capacity:

Signature:.....**Date**.....

SECTION 1					
SCHEDULED ESTABLISHMENT, OVERHEADS AND INCIDENTAL COSTS					
COMMON RATES					
No.	Item	Unit	Days	Rate	Total
1	Once-off establishment & overhead costs				
1,1	Costs for full compliance with all clauses of this contract and the Works Information, including inter alia performance bond (if applicable), insurances, UIF contributions, Occupational Health and Safety Act requirements and all other expenses and liabilities associated with contractual obligations, as well as costs for site establishment including inter alia equipped site office, storage and waste areas/structures, workshops, laboratories, accommodation, toilet and ablution facilities, services and any and all other costs related to the <i>Contractor's</i> establishment on site.	12%			R 240 311,87
2	People				
2.1	Site Manager	/day	1	R 2 304,42	R 2 304,42
2.2	Safety Officer	/day	1	R 1 280,00	R 1 280,00
2.3	Site Foreman (General Supervisor)	/day	1	R 1 713,41	R 1 713,41
2.4	Foreman (Supervisor)	/day	1	R 1 273,07	R 1 273,07
2.5	Administrative clerk	/day	1	R 696,00	R 696,00
2.6	Skilled Labourer (Artisan)	/day	1	R 1 520,00	R 1 520,00
2.7	Unskilled Labourer	/day	1	R 200,00	R 200,00
2.8	Site Security	/day	1	R 200,00	R 200,00
2.9	Plumber	/day	1	R 1 200,00	R 1 200,00
2.10	Electrician	/day	1	R 2 000,00	R 2 000,00
TOTAL : SECTION 1 : SCHEDULED ESTABLISHMENT, OVERHEADS AND INCIDENTAL COSTS					R 12 386,91

EMERGENCY & PLANNED MAINTENANCE OF GENERAL BUILDINGS			
COMMON RATES			
	DESCRIPTION	RATE	TOTAL
	<u>BILL NO. 1</u>		
	<u>ALTERATIONS</u>		
	TEMPORARY BARRIERS, SCREENS, ETC		
	Temporary barriers, screens, etc. including removal		
1	Drywall barrier exceeding 1.8m and not exceeding 3m high between concrete floor and ceiling formed of suitable drywall, steel studs, corners, ends, etc. m <u>1</u>	650,53	650,53
2	Drywall barrier exceeding 3m and not exceeding 4.5m high between concrete floor and ceiling formed of suitable drywall, steel studs, corners, ends, etc. m <u>1</u>	836,99	836,99
	REMOVAL OF EXISTING WORK		
	Break down and remove brickwork etc:		
3	Half brick walls m² <u>1</u>	53,37	53,37
4	Half brick walls with steel mesh to one side of wall m² <u>1</u>	61,91	61,91
5	Half brick walls with steel mesh to both sides of wall m² <u>1</u>	68,69	68,69
6	One brick walls m² <u>1</u>	108,21	108,21
7	One brick walls with steel mesh to one side of wall m² <u>1</u>	115,12	115,12
8	One brick walls with steel mesh to both sides of wall m² <u>1</u>	121,09	121,09
	Take out and remove doors, windows, etc., including thresholds, cills, etc. from brickwork (making good measured elsewhere)		
9	Timber single door and steel frame ± 2m ² m² <u>1</u>	75,21	75,21
10	Timber double door and timber frame ± 4m ² m² <u>1</u>	90,65	90,65
11	Metal louvre ± 0.1m ² m² <u>1</u>	78,94	78,94
12	Metal strong room door including frame ± 2m ² m² <u>1</u>	191,50	191,50
13	Metal strong room door including frame ± 4m ² m² <u>1</u>	187,81	187,81
14	Glazed aluminium shopfronts including doors, etc. ± 36m ² m² <u>1</u>	72,65	72,65
	Take out and remove doors, windows, etc from partitions to be demolished.		
15	Timber single door and frame ± 2m ² m² <u>1</u>	59,61	59,61
16	Timber double door and frame ± 4m ² m² <u>1</u>	83,38	83,38
17	Glazed aluminium shopfronts including doors, etc ± 50m ² m² <u>1</u>	45,95	45,95
	Take out and remove doors, windows, etc from brick walls to be demolished.		
18	Timber sliding fire door and frame ± 6m ² m² <u>1</u>	69,30	69,30
19	Metal strong room door including frame ± 2m ² m² <u>1</u>	191,50	191,50
20	Metal strong room door including frame ± 5m ² m² <u>1</u>	203,67	203,67
	Carefully take out and remove doors, windows, etc. from brickwork and set aside for client		
21	Timber single door and frame ± 2m ² m² <u>1</u>	102,24	102,24
22	Single fire escape doors and frame ± 3m ² m² <u>1</u>	103,96	103,96
23	Heavy duty 'safe' door ± 2m ² m² <u>1</u>	273,09	273,09

	DESCRIPTION		RATE	TOTAL
24	Glazed aluminium shopfront with double door and frame ± 8m ²	m ² 1	76,06	76,06
25	Glazed aluminium shopfront including doors, etc ± 36m ²	m ² 1	76,06	76,06
	Take down and remove ceilings, partitions, etc			
26	Gypsum plasterboard ceilings, including cornices, timber brandlering, redundant hangers, etc.	m ² 1	29,55	29,55
27	Acoustic tile suspended ceiling , including cornices, suspension grid, redundant hangers, etc	m ² 1	27,43	27,43
28	Asbestos panelling ±550mm high from brickwork	m 1	197,82	197,82
29	Asbestos partitions exceeding 2m and not exceeding 3m high, including all doors, frames, screens, etc.	m 1	168,13	168,13
30	Asbestos partitions average ±2.1m high with sloping top, including all doors, frames, screens, etc.	m 1	208,97	208,97
31	Asbestos partitions exceeding 3m and not exceeding 4m high, including all doors, frames, screens, etc.	m 1	269,73	269,73
32	Drywall partitions exceeding 2m and not exceeding 3m high, including doors, frames, glazed borrowed lights, etc	m 1	103,11	103,11
33	Drywall partitions exceeding 3m and not exceeding 4m high, including doors, frames, glazed borrowed lights, etc	m 1	133,07	133,07
34	Drywall partitions exceeding 3m and not exceeding 4m high including doors, frames, glazed borrowed lights, etc	m 1	115,66	115,66
35	Veneer clad chipboard partitions exceeding 2m and not exceeding 3m high including doors, frames, glazed borrowed lights, etc	m 1	92,48	92,48
36	Veneer clad chipboard partitions exceeding 3m and not exceeding 4m high including doors, frames, glazed borrowed lights, etc	m 1	115,79	115,79
37	Toilet cubicles ranging from 1.5m to 2.5m high including doors, tiles, etc.	m 1	75,48	75,48
	Take out and remove sundry joinery work, fittings, etc. and make good cement plaster or screed where necessary:			
38	Timber shelves overall 1 800mm high, consisting of 3 shelves each 200mm deep	m 1	75,86	75,86
39	Free floating timber counter 150mm deep x 150mm high	m 1	53,26	53,26
40	Timber wall mounted cupboard 300mm deep x 600mm high	m 1	109,23	109,23
41	Timber wall mounted cupboard 300mm deep x 750mm high	m 1	137,28	137,28
42	Timber wall mounted cupboard 300mm deep x 800mm high	m 1	112,80	112,80
43	Timber wall mounted cupboard 400mm deep x 1 200mm high	m 1	127,10	127,10
44	Timber wall mounted cupboard 500mm deep x 800mm high	m 1	116,68	116,68
45	Floor mounted sink cupboard 400mm deep x 900mm high (removal of sink elsewhere)	m 1	119,95	119,95
46	Floor mounted cupboard 500mm deep x 870mm high	m 1	106,42	106,42
47	Floor mounted cupboard 500mm deep x 870mm high (removal of wash hand basins elsewhere)	m 1	95,43	95,43
48	Floor mounted cupboard 500mm deep x 870mm high including AC vents, etc.	m 1	123,48	123,48
49	Floor mounted cupboard 600mm deep x 900mm high (removal of sink and drainer elsewhere)	m 1	122,15	122,15
50	Floor mounted L-shaped cupboard 600mm deep x 900mm high	m 1	125,18	125,18

	DESCRIPTION		RATE	TOTAL
51	Timber cladding exceeding 2m and not exceeding 3m high	m 1	102,94	102,94
52	Timber cladding exceeding 3m and not exceeding 4m high	m 1	95,73	95,73
53	Timber skirtings in various heights not exceeding 150 mm high	m 1	6,30	6,30
	Take up and remove vinyl floor coverings, carpets, etc. and prepare screeds for new floor coverings			
54	Vinyl tile floor covering including preparing screed for new floor covering	m ² 1	31,73	31,73
55	Carpet floor covering including preparing screed for new floor covering	m ² 1	19,95	19,95
	Take out and remove vertical blinds			
56	Vertical blinds 2 100mm high	m 1	24,15	24,15
57	Vertical blinds 1 500mm high	m 1	24,15	24,15
58	Vertical blinds 900 x 2 100mm high	No 1	24,15	24,15
	Take out/off and remove sundry metalwork and make good cement plaster where necessary:			
59	100 x 100mm stainless steel angle to wall corners	m 1	49,08	49,08
60	75mm high stainless steel skirting	m 1	10,50	10,50
61	100 x 100mm Hollow section steel posts	m 1	25,90	25,90
	Strip off and remove wall paper from concrete or brickwork and prepare surfaces for new finishes, etc:			
62	Wall paper from walls and columns	m ² 1	25,20	25,20
	Hack up/off and remove granolithic, screeds, waterproofing, plaster, etc from concrete or brickwork and prepare surfaces for new screed, plaster, tile finishes, etc.			
63	Existing bitumen waterproofing	m ² 1	41,67	41,67
64	10-15mm Screed from floors so tiles line up with edge	m ² 1	50,41	50,41
65	25mm Screed from floors	m ² 1	50,91	50,91
66	Internal cement plaster from walls	m ² 1	52,00	52,00
67	Hack up/off and removal of ceramic/porcelain tiles and remove mortar bed or adhesive from concrete/brickwork and prepare of surfaces for new screed, plaster, tile finish, etc.			
68	Tiles to floors	m ² 1	57,53	57,53
69	Tiles to walls	m ² 1	49,90	49,90
70	Tile skirting	m 1	12,68	12,68
	Take out and set-aside bathroom accessories and fittings and make good floor and wall finishes (making good tiling and paintwork elsewhere)			
71	Condom holder	No 1	31,24	31,24
72	PVC Hygeine sanitary bin	No 1	31,24	31,24
73	PVC Wall mounted dustbin	No 1	31,24	31,24
74	Towel dispenser	No 1	31,24	31,24
75	Soap dispenser	No 1	31,24	31,24
76	Tissue dispenser	No 1	31,24	31,24
77	Toilet roll holder	No 1	25,99	25,99

	DESCRIPTION		RATE	TOTAL
78	Towel ring	No 1	31,24	31,24
79	Cistern grab rail	No 1	48,11	48,11
80	Dogleg grabrail with two flanges	No 1	48,11	48,11
	Take out and set aside piping, sanitary fittings, etc, including cutting off as necessary, disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)			
81	Single stainless steel wash hand basin including tap fittings, etc	No 1	166,30	166,30
82	Vitreous china wash hand basin, including short lengths of piping, etc	No 1	175,77	175,77
83	Vitreous china wall hung urinal with flush valve, including short lengths of piping, etc	No 1	253,30	253,30
84	Vitreous china WC pan with cistern, including lengths of piping, etc	No 1	213,82	213,82
85	Slop hopper/ sink combination	No 1	382,55	382,55
86	Double bowl stainless steel kitchen sink	No 1	211,81	211,81
87	Undercounter sink geyser	No 1	324,06	324,06
88	Hydroboil automatic boiling water dispenser, wall mounted.	No 1	208,73	208,73
89	7.5L E-Boil hydroboil, complete	No 1	250,12	250,12
90	Water purifier	No 1	197,62	197,62
	Take out and remove plumbing and drainage works including blanking off connections and making good plaster to match existing (Paintwork measured elsewhere)			
91	15mm Copper pipes chased into brick walls	m 1	35,63	35,63
92	22mm Copper pipes chased into brick walls	m 1	45,63	45,63
93	35mm Copper pipes chased into brick walls	m 1	50,51	50,51
94	40mm uPVC Pipes chased into brickwork	m 1	47,91	47,91
95	50mm uPVC Pipes chased into brickwork	m 1	58,24	58,24
96	110mm uPVC Pipes	m 1	71,37	71,37
97	160mm Cast iron vent pipe	m 1	106,37	106,37
98	15mm Copper fittings	No 1	27,11	27,11
99	22mm Copper fittings	No 1	27,11	27,11
100	35mm Copper fittings	No 1	35,93	35,93
101	40mm uPVC Bend	No 1	30,52	30,52
102	50mm uPVC Bend	No 1	30,52	30,52
103	50mm uPVC Junction	No 1	32,84	32,84
104	110mm uPVC Bend	No 1	26,29	26,29
105	110mm uPVC Access junction	No 1	41,21	41,21
106	110mm uPVC Access eye cap	No 1	44,28	44,28
107	110mm uPVC Access end cap	No 1	32,16	32,16
108	110mm uPVC Pan connector	No 1	33,92	33,92
109	110 x 50mm uPVC Reducing junction	No 1	39,03	39,03

	DESCRIPTION		RATE	TOTAL
	Take out/off and remove glass and mirrors			
110	Mirror 250 x 450mm high from wall	No 1	44,29	44,29
111	Mirror 500 x 1500mm high from wall	No 1	48,29	48,29
112	Mirror approximately 750 x 700mm high from wall	No 1	55,71	55,71
113	Mirror 750 x 1500mm high from wall	No 1	59,71	59,71
114	Mirror 1 200 x 600mm high from wall	No 1	55,71	55,71
115	Mirror 2 450 x 920mm high from wall	No 1	77,98	77,98
116	Mirror 2 600 x 600mm high from wall	No 1	77,98	77,98
	BUILDING UP OPENINGS			
	Brickwork in NFP bricks in class II mortar in building up openings, including bonding new to existing and making good cement plaster on both sides (Making good paintwork elsewhere measured)			
117	Opening not exceeding 0.5m ² in half brick wall	m ² 1	387,84	387,84
118	Opening exceeding 0.5m ² and not exceeding 2m ² in half brick wall	m ² 1	387,84	387,84
119	Opening exceeding 2m ² and not exceeding 4m ² in half brick wall	m ² 1	387,84	387,84
120	Opening not exceeding 0.5m ² in one brick wall	m ² 1	583,77	583,77
121	Opening exceeding 0.5m ² and not exceeding 2m ² in one brick wall	m ² 1	583,77	583,77
122	Opening exceeding 2m ² and not exceeding 4m ² in one brick wall	m ² 1	583,77	583,77
123	Opening exceeding 4m ² and not exceeding 6m ² in one brick wall	m ² 1	583,77	583,77
124	Opening exceeding 6m ² and not exceeding 8m ² in one brick wall	m ² 1	583,77	583,77
	PREPARATORY WORK TO EXISTING SURFACES			
	Preparatory work			
125	Hacking faces of existing concrete columns, beams, etc to receive plaster.	m ² 1	44,76	44,76
	SERVICING OF EXISTING COMPONENTS			
	Clean, service, repair, replace defective/missing components and ironmongery to windows:			
126	Service window overall size 840 x 2 055mm high by replacing spiral balancers, missing or broken window catches, clean all sliding tracks and lubricate, fix top pane and install and lubricate, fix top pane and add install lower pane restrictor, soundproof windows from wind related noise, clean windows and frames removing all remains of adhesive compounds where applicable.	m ² 1	1 327,33	1 327,33
127	Service window size 705 x 830mm high, replace sash cords, pulleys, balancing weights, sash fasteners, sash lifts, remove window putty and replace with new, weather seal, etc.	m ² 1	1 328,59	1 328,59
128	Service window size 705 x 1 130mm high, replace sash cords, pulleys, balancing weights, sash fasteners, sash lifts, remove window putty and replace with new, weather seal, etc.	m ² 1	1 328,59	1 328,59
129	Service window size 805 x 1 230mm high, replace sash cords, pulleys, balancing weights, sash fasteners, sash lifts, remove window putty and replace with new, weather seal, etc.	m ² 1	1 196,48	1 196,48
130	Service window size 1 005 x 1 480mm high, replace sash cords, pulleys, balancing weights, sash fasteners, sash lifts, remove window putty and replace with new, weather seal, etc.	m ² 1	994,99	994,99

	DESCRIPTION		RATE	TOTAL
131	Service window size 1 155 x 1 680mm high, replace sash cords, pulleys, balancing weights, sash fasteners, sash lifts, remove window putty and replace with new, weather seal, etc.	m ² 1	919,67	919,67
132	Service window size 1 155 x 1 930mm high, replace sash cords, pulleys, balancing weights, sash fasteners, sash lifts, remove window putty and replace with new, weather seal, etc.	m ² 1	877,64	877,64
133	Service window size 1 360 x 830mm high, replace sash cords, pulleys, balancing weights, sash fasteners, sash lifts, remove window putty and replace with new, weather seal, etc.	m ² 1	1 151,77	1 151,77
134	Service existing fullbore outlet	No 1	915,16	915,16
	Remove and replace glazing to sash windows			
135	Replace 3mm clear glass panes not exceeding 0.1m ² , including removal of window putty or glazing beads and fixing new glazing beads	m ² 1	608,38	608,38
136	Replace 3mm clear glass panes exceeding 0.1m ² and not exceeding 0.5m ² , including removal of window putty or glazing beads and fixing new glazing beads	m ² 1	630,83	630,83
137	Replace 4mm clear glass panes exceeding 0.5m ² and not exceeding 2m ² , including removal of window putty or glazing beads and fixing new glazing beads	m ² 1	711,54	711,54
138	Replace 5mm clear glass panes exceeding 0.5m ² and not exceeding 2m ² , including removal of window putty or glazing beads and fixing new glazing beads	m ² 1	793,65	793,65
139	Replace 6mm clear glass panes exceeding 2m ² and not exceeding 4m ² , including removal of window putty or glazing beads and fixing new glazing beads	m ² 1	882,84	882,84
140	Replace 6mm clear safety glass panes exceeding 0.5m ² and not exceeding 2m ² , removal of window putty or glazing beads and fixing new glazing beads	m ² 1	1 049,75	1 049,75
	OPENINGS THROUGH EXISTING FLOORS, CEILINGS, WALLS, ETC			
	Scan walls, floors, etc prior to core drilling (core drilling elsewhere measured):			
141	Scan	No 1	355,73	355,73
	Core drilling through half brick walls			
142	50mm Diameter	No 1	168,47	168,47
143	75mm Diameter	No 1	168,47	168,47
144	100mm Diameter	No 1	161,63	161,63
145	110mm Diameter	No 1	161,63	161,63
146	125mm Diameter	No 1	161,63	161,63
147	150mm Diameter	No 1	161,63	161,63
	Core drilling through one brick walls			
148	50mm Diameter	No 1	179,98	179,98
149	75mm Diameter	No 1	184,57	184,57
150	100mm Diameter	No 1	189,16	189,16
151	125mm Diameter	No 1	218,30	218,30
152	150mm Diameter	No 1	245,01	245,01
	Core drilling through 100mm thick concrete:			
153	50mm Diameter	No 1	142,51	142,51
154	75mm Diameter	No 1	144,42	144,42
155	100mm Diameter	No 1	146,33	146,33

	DESCRIPTION		RATE	TOTAL
156	125mm Diameter	No 1	148,24	148,24
157	150mm Diameter	No 1	152,07	152,07
	Core drilling through 200mm thick concrete:			
158	50mm Diameter	No 1	169,27	169,27
159	75mm Diameter	No 1	173,09	173,09
160	100mm Diameter	No 1	176,91	176,91
161	110mm Diameter	No 1	179,21	179,21
162	125mm Diameter	No 1	180,75	180,75
163	150mm Diameter	No 1	198,91	198,91
	Core drilling through 250mm thick concrete:			
164	50mm Diameter	No 1	182,66	182,66
165	75mm Diameter	No 1	187,44	187,44
166	100mm Diameter	No 1	199,23	199,23
167	150mm Diameter	No 1	248,64	248,64
	MAKING GOOD OF FINISHES, ETC			
	Make good structural floor cracks			
168	Clean all dirt and sand, reem and prepare crack, apply sikagrout and sikaflex to floor crack in accordance with the manufacturer's specifications	m 1	153,33	153,33
169	Break out top of screeded concrete floor 1 200mm wide x 60mm thick, scabble concrete, apply wet to dry epoxy epidermix 344 and cast 60mm screed including type 245 mesh (Floor crack solution)	m 1	732,75	732,75
	Make good existing floor			
170	Making good defects in existing skimmed screeded floors with 'Z100' self levelling screed or equal and approved to receive carpets (carpets elsewhere)	m ² 1	38,89	38,89
171	Making good defects in existing screeded floors with 'Pavelite' self levelling screed or equal and approved to receive carpets (carpets elsewhere)	m ² 1	38,89	38,89
172	Making good defects in existing screeded floors with 'TAL' Screedmaster self levelling screed or equal and approved	m ² 1	154,56	154,56
	Make good cement screeds			
173	25mm Thick on floors in patches	m ² 1	84,20	84,20
174	25mm Thick on floors where half brick walls removed	m ² 1	97,25	97,25
175	25mm Thick on floors where one brick walls removed	m ² 1	98,56	98,56
	Make good internal cement plaster on			
176	Walls in patches	m ² 1	92,80	92,80
177	Concrete ceilings in patches	m ² 1	107,01	107,01
178	Walls where half brick walls removed	m ² 1	56,79	56,79
179	Walls where one brick walls removed	m ² 1	56,79	56,79
180	Walls where partitions removed not exceeding 300mm wide	m 1	46,91	46,91
	Make good internal gypsum skim coat cement plaster on			

	DESCRIPTION		RATE	TOTAL
181	Walls in patches Make good drywall partitioning	m ² 1	96,24	96,24
182	Drywall intersection where drywall has been removed OPENINGS THROUGH EXISTING WALLS, ETC. Altering openings	m 1	495,24	495,24
183	Altering opening in one brick wall where door and frame overall size $\pm 2\text{m}^2$ removed to form opening for new door and frame overall size $\pm 2\text{m}^2$ by breaking out brickwork on both sides and top including necessary precast concrete lintel and making good plaster on both sides and into reveals (new door and frame and making good paintwork elsewhere)	No 1	1 679,87	1 679,87
184	Altering opening in one brick wall where door and frame overall size $\pm 2\text{m}^2$ removed to form opening for new door and frame overall size $\pm 4\text{m}^2$ by breaking out brickwork on both sides and top including necessary precast concrete lintel and making good plaster on both sides and into reveals (new door and frame and making good paintwork elsewhere)	No 1	2 267,20	2 267,20
185	Altering opening in one brick wall where door and frame overall size $\pm 2\text{m}^2$ removed to form opening for new door and frame overall size $\pm 6\text{m}^2$ by breaking out brickwork on both sides and top including necessary precast concrete lintel and making good plaster on both sides and into reveals (new door and frame and making good paintwork elsewhere) Breaking openings	No 1	2 285,60	2 285,60
186	Break opening in one brick wall for new door and frame overall size $\pm 2\text{m}^2$ including necessary precast concrete lintel and making good plaster on both sides and into reveals (new door and frame and making good paintwork elsewhere)	No 1	1 317,55	1 317,55
187	Break opening in one brick wall for new door and frame overall size $\pm 4\text{m}^2$ including necessary precast concrete lintel and making good plaster on both sides and into reveals (new door and frame and making good paintwork elsewhere)	No 1	1 721,24	1 721,24
188	Break opening in one brick wall for new door and frame overall size $\pm 6\text{m}^2$ including necessary precast concrete lintel and making good plaster on both sides and into reveals (new door and frame and making good paintwork elsewhere)	No 1	1 795,49	1 795,49
	TOTAL BILL NO. 1 - ALTERATIONS			48 923,01
	<u>BILL NO. 2</u> <u>EARTHWORKS</u> EXCAVATION OTHER THAN BULK Excavation in earth not exceeding 2m deep			
1	Trenches.	m ³ 1	140,48	140,48
2	Holes	m ³ 1	162,96	162,96
	Extra over excavations other than bulk in earth for excavation in:			
3	Soft rock.	m ³ 1	340,59	340,59
4	Hard rock.	m ³ 1	2 292,60	2 292,60
	Risk of collapse of excavations other than bulk:			
5	Sides of trench and hole excavations not exceeding 1,5m deep.	m ² 1	34,39	34,39

	DESCRIPTION		RATE	TOTAL
	Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 95% Mod AASHTO density			
6	Exceeding 500m and not exceeding 1,5m deep for placing and removing formwork to walls etc, against excavated face	m ² 1	146,84	146,84
	CARTING AWAY.			
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):			
7	Off site to a dumping site to be found by the Contractor.	m ³ 1	226,29	226,29
	EARTH FILLING, ETC.			
	Filling supplied by the Contractor of G5 sub-base material compacted to 97% modified AASHTO density.			
8	Under floors, steps, pavings, etc	m ³ 1	600,22	600,22
9	Backfilling to trenches, holes, etc. (from excavations)	m ³ 1	94,78	94,78
	FILLING ETC OTHER THAN BULK			
	Filling supplied by the contractor of G7 material compacted to 100% modified AASHTO density.			
10	Under floors, steps, pavings, etc	m ³ 1	400,18	400,18
	KEEPING EXCAVATIONS FREE OF WATER			
11	Keeping excavations free of water:	Item 1	1 691,74	1 691,74
	TOTAL - BILL NO. 1 - EARTHWORKS			10 219,15
	<u>BILL NO. 3</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES			
	15MPa/19mm concrete			
1	Filling to cavity of hollow walls (provisional).	m ³ 1	1 773,44	1 773,44
2	Surface blinding under footings and bases	m ³ 1	1 711,45	1 711,45
	20 MPa/19mm concrete			
3	Strip footings	m ³ 1	1 672,91	1 672,91
	REINFORCED CONCRETE CAST ON/IN FORMWORK			
	35MPa/19mm concrete			
4	Underpinning to manhole	m ³ 1	2 061,85	2 061,85
5	Retaining walls	m ³ 1	1 989,20	1 989,20
6	Retaining wall footing	m ³ 1	1 930,24	1 930,24
7	Slabs including beams and inverted beams	m ³ 1	1 889,60	1 889,60
8	Coffered slabs including beams and inverted beams	m ³ 1	1 893,11	1 893,11
9	Isolated beams	m ³ 1	2 145,15	2 145,15

	DESCRIPTION		RATE	TOTAL
10	Bottoms and sides of isolated gutter beams	m ³ 1	2 145,15	2 145,15
11	Lift walls in foundations (Provisional)	m ³ 1	1 889,92	1 889,92
12	Lift walls.	m ³ 1	1 807,98	1 807,98
13	Columns	m ³ 1	2 113,59	2 113,59
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES			
	35MPa/19mm concrete			
14	Strip footings	m ³ 1	1 998,84	1 998,84
15	Surface beds on waterproofing cast in panels.	m ³ 1	1 957,33	1 957,33
16	Bases	m ³ 1	2 032,97	2 032,97
17	Pile caps	m ³ 1	2 032,97	2 032,97
18	Foundation beams	m ³ 1	2 073,84	2 073,84
19	Stub columns in foundations (Provisional).	m ³ 1	2 067,05	2 067,05
	TEST CUBES			
	Test cubes			
20	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No. 1	160,42	160,42
	GROUTING			
	25 MPa non-shrink grout:			
21	Bedding approximately 30mm thick under 450 x 350mm base plate including chamfered edges all round.	No. 1	131,57	131,57
	CONCRETE SUNDRIES			
	Finishing top surfaces of concrete powerfloated with rotary trowel:			
22	Surface beds, slabs, etc	m ² 1	50,99	50,99
	ROUGH FORMWORK (DEGREE OF ACCURACY III)			
	Rough formwork to sides			
23	Step in footing	m ² 1	296,63	296,63
24	Pile caps (Provisional)	m ² 1	309,75	309,75
25	Foundation beams (Provisional)	m ² 1	370,51	370,51
26	One side of footing (other side cast to excavated earth)	m ² 1	296,63	296,63
	Rough formwork to coffered slabs			
27	Soffits of coffered slabs with 775mm wide ribs at 900mm centres in both directions propped up exceeding 1,5m and not exceeding 3,5m high	m ² 1	692,69	692,69
28	Top and tapered sides of coffer 516 x 516mm at top, 797 x 797mm at bottom and 325mm high with all corners rounded	No. 1	541,03	541,03
	ROUGH FORMWORK (DEGREE OF ACCURACY II)			
	Rough formwork to sides and soffits			

	DESCRIPTION		RATE	TOTAL
29	Isolated beams	m ² 1	706,18	706,18
30	Beams	m ² 1	607,72	607,72
31	Inverted beams	m ² 1	558,63	558,63
32	Rectangular columns (Provisional).	m ² 1	478,13	478,13
33	Walls in foundations (Provisional)	m ² 1	515,21	515,21
34	Rectangular stub columns in foundations (Provisional)	m ² 1	473,74	473,74
35	Edges, risers, ends and reveals not exceeding 300mm high or wide	m 1	186,14	186,14
36	Isolated beams propped up exceeding 1m and not exceeding 1,5m high	m ² 1	710,38	710,38
37	Beams propped up exceeding 1,5m and not exceeding 3,5m high	m ² 1	611,92	611,92
38	Slabs propped up exceeding 1,5m and not exceeding 3,5m high.	m ² 1	498,96	498,96
	Rough formwork to sloping sides			
39	Battered and oversailing sides of retaining wall sloping 10 degrees, with a total height exceeding 5m and not exceeding 6.5m high above bearing level	m ² 1	855,15	855,15
40	Battered and oversailing sides of retaining wall sloping 10 degrees, with a total height exceeding 3.5m and not exceeding 5m high above bearing level	m ² 1	794,84	794,84
41	Battered and oversailing sides of retaining wall sloping 10 degrees, with a total height not exceeding 3.5m high above bearing level	m ² 1	739,78	739,78
	Rough formwork to vertical sides			
42	Walls with a total height exceeding 5m and not exceeding 6.5m above bearing level	m ² 1	627,59	627,59
	SMOOTH FORMWORK (DEGREE OF ACCURACY II)			
	Smooth formwork to sides			
43	Walls	m ² 1	639,11	639,11
44	Inner face of shaft walls	m ² 1	683,84	683,84
	MOVEMENT JOINTS, ETC.			
	Two layers of 375 micron dampproof course in slip joints between horizontal concrete and brick surfaces including cement mortar bed.			
45	Not exceeding 300mm wide.	m 1	32,62	32,62
	Expansion joints with Jointex sheet between vertical concrete and brick surfaces:			
46	10mm Joints not exceeding 300mm high.	m 1	39,43	39,43
	1,6mm Galvanised sheet steel slip joints between horizontal concrete and brick surfaces including cement mortar bed:			
47	Not exceeding 300mm wide.	m 1	87,57	87,57
	Sleeve joints casted between vertical concrete surfaces in expansion joints:			
48	16mm Diameter galvanised reinforcement sleeve joint 400mm long at 300mm centres casted deep into concrete surface bed at expansion joint.	m 1	329,24	329,24
	Saw cut joints:			
49	6 x 10mm Saw cut joints in top of concrete (Provisional).	m 1	24,74	24,74
	REINFORCEMENT (PROVISIONAL)			

	DESCRIPTION	RATE	TOTAL
	High tensile steel reinforcement to structural concrete work:		
50	Bars of varying length and diameter. Tonnes <u>1</u>	15 750,00	15 750,00
	Fabric reinforcement		
51	Type 500 fabric reinforcement in concrete surface beds etc m² <u>1</u>	86,60	86,60
	MOVEMENT JOINTS ETC		
	Expansion joints with 10mm Expandite between vertical concrete surfaces, including necessary formwork		
52	10mm Expandite expansion joint 510mm girth shaped with four obtuse angles through walls m <u>1</u>	148,95	148,95
	Expansion joints with 10mm softboard between vertical concrete ground beam and existing thrust block		
53	Exceeding 300mm high through slabs and beams m² <u>1</u>	101,64	101,64
	TOTAL - BILL NO. 3 - CONCRETE, FORMWORK AND REINFORCEMENT		66 324,91
	<u>BILL NO. 4</u>		
	<u>PRECAST CONCRETE</u>		
	CEMENT BRICK PAVING		
1	50mm Thick SABS approved coloured cement brick paving of 112 x 224mm bricks laid to falls on 25mm sand layer with joints filled in with sand and vibrated, including all straight cutting including approved weedkiller m² <u>1</u>	204,75	204,75
	INTERLOCKING PRECAST CONCRETE PAVING		
2	60mm Thick grey interlocking precast concrete paving blocks with butt joints on and including 20mm thick river-sand bedding treated with weedkiller and with clean sand swept into joints. m² <u>1</u>	262,50	262,50
3	80mm Thick grey interlocking precast concrete paving blocks with butt joints on and including 20mm thick river-sand bedding treated with weedkiller and with clean sand swept into joints. m² <u>1</u>	308,70	308,70
4	Extra over for circular cutting to 60mm thick precast concrete paving blocks m <u>1</u>	165,90	165,90
5	Extra over for circular cutting to 80mm thick precast concrete paving blocks m <u>1</u>	165,90	165,90
	Kerbs, slabs, etc		
6	Precast concrete garden kerb to SABS 927, size 50 x 225mm high in 1000mm lengths wet pressed, placed in position, bedded and jointed in (3:1) cement mortar and flush pointed on exposed faces, including 15MPa/19mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, ramming, etc. m <u>1</u>	275,63	275,63
7	Precast concrete garden kerb to SABS 927, size 150 x 300mm high in 1000mm lengths wet pressed, placed in position, bedded and jointed in (3:1) cement mortar and flush pointed on exposed faces, including 15MPa/19mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, ramming, etc. m <u>1</u>	330,75	330,75
8	But circular on plan to radius not exceeding 2m m <u>1</u>	358,31	358,31
9	Precast concrete mountable kerbing to SABS 927, size 150		

	DESCRIPTION	RATE	TOTAL
	x 300mm high in 1000mm lengths, with and including 250 x 180mm thick concrete weathered channel cast in suitable lengths, including all necessary formwork, wet pressed, placed in position, bedded and jointed in (3:1) cement mortar and flush pointed on exposed faces, including 15MPa/19mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, ramming, etc.	m 1 330,75	330,75
10	Precast concrete mountable kerbing to SABS 927, size 150 x 300mm high in 1000mm lengths, with and including 250 x 180mm thick concrete weathered channel cast in suitable lengths, including all necessary formwork, wet pressed, placed in position, bedded and jointed in (3:1) cement mortar and flush pointed on exposed faces, including 15MPa/19mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, ramming, etc but circular on plan to radius not exceeding 2m	m 1 330,75	330,75
	TOTAL - BILL NO. 4 - PRECAST CONCRETE		2 529,19
	<u>BILL NO. 5</u>		
	<u>MASONRY</u>		
	BRICKWORK IN FOUNDATIONS (PROVISIONAL)		
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class II mortar:		
1	One brick walls against existing surfaces (Provisional).	m ² 1 477,82	477,82
2	One brick walls circular on plan	m ² 1 510,00	510,00
3	280mm Hollow walls of two half brick skins including wire ties	m ² 1 499,44	499,44
	BRICKWORK IN SUPERSTRUCTURE		
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class II mortar:		
4	Half brick walls in beamfilling	m ² 1 178,50	178,50
5	Half brick walls against existing surfaces	m ² 1 246,51	246,51
6	One brick walls circular on plan	m ² 1 510,00	510,00
7	One brick walls against existing surfaces	m ² 1 488,99	488,99
8	One brick walls in gables, parapets, etc	m ² 1 357,00	357,00
9	One brick walls in fire wall	m ² 1 357,00	357,00
10	280mm Hollow walls of two half brick skins including wire ties	m ² 1 412,00	412,00
	Brickwork of NFP bricks in class II mortar		
11	Half brick walls	m ² 1 233,53	233,53
12	Half brick ledge to house plumbing fixtures	m ² 1 247,26	247,26
13	One brick walls	m ² 1 477,82	477,82
	BRICKWORK SUNDRIES		
	Cutting toothings and bonding new brickwork to existing		
14	Half brick walls	m ² 1 114,42	114,42
15	One brick walls	m ² 1 139,90	139,90
	Sundries		

	DESCRIPTION		RATE	TOTAL
	2,5mm Brickwork reinforcement			
16	75mm Wide reinforcement built in horizontally <u>m</u> 1		2,56	2,56
17	150mm Wide reinforcement built in horizontally <u>m</u> 1		2,91	2,91
	Prestressed fabricated concrete lintels including necessary temporary supports			
18	110 x 75mm Lintels in lengths not exceeding 3m long <u>m</u> 1		60,90	60,90
	Galvanised hoop iron cramps, ties, etc			
19	30 x 1,6mm Wall tie 500mm long with one end shot pinned to concrete and other end built into brickwork <u>No</u> 1		25,01	25,01
	FACE BRICKWORK			
	Approved FBS face bricks (PC Sum of R 4500.00/1000 delivered to site) built in stretcher bond and pointed with square recessed horizontal and vertical joints, including fair cutting , angles, etc			
20	Extra over brickwork for face brickwork <u>m²</u> 1		283,25	283,25
21	Extra over brickwork for face brickwork in foundation walls, ramp, etc <u>m²</u> 1		283,25	283,25
22	Extra brickwork for face brickwork in soldier course panels <u>m²</u> 1		283,25	283,25
23	Face brick-on-edge flat lintel course 220mm wide pointed on soffit and both sides <u>m</u> 1		189,00	189,00
24	Face brick-on-edge flat coping 220mm wide pointed on both sides <u>m</u> 1		189,00	189,00
25	Cut face brick-on-edge external window cill, sloping and slightly projecting in cement mortar and pointed on top, front edge and projecting soffit including all necessary fair raking cutting to facings under and fair and fitted ends <u>m</u> 1		189,00	189,00
	TOTAL BILL NO. 5 - MASONRY			144 671,27

	DESCRIPTION	RATE	TOTAL
	BILL NO. 6		
	<u>WATERPROOFING</u>		
	DAMPPROOFING OF WALLS AND FLOORS		
	One layer of 375 micron embossed damp proof course		
1	In walls m² 1	26,25	26,25
	One layer of 250 micron green waterproof sheeting sealed at laps with pressure sensitive tape		
2	Under surface beds m² 1	20,60	20,60
	WATERPROOFING TO FLAT SCREEDED ROOFS		
	Two layers of 4mm thick Torch-on polyester based sheeting inclusive of additional membrane dressing around fullbores, pipes, etc		
3	On flat roofs m² 1	226,60	226,60
4	On turn-ups and turn-downs exceeding 500mm high m² 1	226,60	226,60
	"Cemflex" or other approved waterproofing and bonding agent applied according to manufacturers specifications, including bandages		
5	On shower floors m² 1	262,30	262,30
6	On shower walls m² 1	262,30	262,30
	Mildew resistant silicone sealing compound including backing cord, bond breaker, primer, etc		
7	Corner of shower floors m 1	45,56	45,56
	WATERPROOFING DRESSINGS		
	One layer Cemflex fabric in cemflex slurry (1 litre Cemflex to 1 litre water with 3,4 kilogram cement added) applied in accordance with manufacturers instructions:		
8	On floors. m² 1	301,39	301,39
9	On walls. m² 1	301,39	301,39
	PROTECTIVE ROOFING PAINT		
	Two coats bituminous aluminium paint		
10	On waterproofing to roofs m² 1	75,00	75,00
	JOINT SEALANTS ETC		
	Polysulphinde sealing compound including backing cord, bond breaker, primer, etc.		
11	10 x 10mm in vertical isolation joints m 1	30,90	30,90
	TOTAL BILL NO.6 :- WATERPROOFING		1 778,89

	DESCRIPTION		RATE	TOTAL
	BILL NO. 7			
	ROOFWORKS			
	ROOF COVERINGS			
	Tiles			
	420x 332mm concrete tiles nailed with non-corrosive tile nails to timber trusses			
1	Roof covering with pitch not exceeding 25 degrees	m ² 1	262,5	262,50
2	Side cladding to gables etc	m ² 1	262,5	262,50
3	Soffit cladding to overhangs etc.	m ² 1	262,5	262,50
4	Extra on roof covering for double course at eaves including sawn	m 1	94,5	94,50
5	softwood tilting fillet.	m 1	94,5	94,50
6	Circular cutting	m 1	94,5	94,50
7	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement	m 1	94,5	94,50
8	mortar tinted to match tile colour	m 1	94,5	94,50
9	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement	m 1	94,5	94,50
10	mortar tinted to match tile colour	m 1	94,5	94,50
11	Verge capping tiles to match roofing tiles fixed with non-corrosive fixing accessories	m 1	94,5	94,50
12	Purpose made tile to end of ridge bedded and pointed in 1:3 cement	no 1	94,5	94,50
13	mortar tinted to match tile colour	no 1	94,5	94,50
14	Purpose made tile to 3-way intersection of ridge with hips bedded and pointed in 1:3 cement mortar tinted to match tile colour	m ² 1	94,5	94,50
	PROFILED METAL SHEETING AND ACCESSORIES			
	0.6mm Thick concealed fix "Klip-Lok 700" or similar approved light industrial Z275 spelter galvanised steel sheeting with Globalcoator similar approved finish and colour to one side, Globalcoat Grey or similar approved finish to other side with and including accessories fixed to timber purlins at 2000mm centres			
15	Roof covering with pitch not exceeding 25 degrees	m ² 1	273	273,00
16	Brownbuilt Klip-Lok 700 or similar approved fascia external corner trim 616mm girth, three times bent along girth	m 1	57,75	57,75
17	Brownbuilt Klip-Lok 700 or similar approved gable trim 550mm girth, three times bent along girth	m 1	57,75	57,75
18	Brownbuilt Klip-Lok 700 or similar approved apex flashing 550mm girth, three times bent along girth and notched on site to suit roof	m 1	57,75	57,75
19	Brownbuilt Klip-Lok 700 or similar approved headwall flashing 375mm girth, two times bent along girth and notched on site to suit	m 1	57,75	57,75
20	Brownbuilt Klip-Lok 700 or similar approved counter flashing 185mm girth, two times bent along girth	m 1	57,75	57,75
21	Brownbuilt Klip-Lok 700 or similar approved broad flute polyclosers to suit roof profile	m 1	57,75	57,75
22	Brownbuilt Klip-Lok 700 or similar approved narrow flute polyclosers			

	DESCRIPTION		RATE	TOTAL
	to suit roof rofile	m 1	57,75	57,75
	TRANSLUCENT SHEETING			
	Ampagard or similar approved polycarbonate 1.25mm thick IBR profile sheeting and white permitted light transmission to be fixed to timber purlins at 2000mm centres all in accordance with manufacturers specifications (timber purlins elsewhere measured)			
23	Roof covering with pitch not exceeding 25 degrees	m ² 1	273	273,00
	ROOF INSULATION			
	Sisalation 410 housing grade glass fibre reinforced aluminium foil bonded insulation			
24	Insulation laid taut over rafters (at approximately 1200mm centres) and fixed concurrent with roof covering, etc	m ² 1	68,25	68,25
25	Aerolite insulation			
	50mm Insulation closely fitted and laid on top of brandering between roof timbers concurrent with roof covering, all in accordance with manufacturer's instructions	m ² 1	68,25	68,25
	TOTAL BILL NO. 7 - ROOFWORKS			2913,75

	DESCRIPTION		RATE	TOTAL
	BILL NO. 8			
	<u>CARPENTRY AND JOINERY</u>			
	SKIRTINGS			
	Wrought hardwood			
1	16 x 150mm hardwood timber skirting with pencil round profile. m <u>1</u>		181,92	181,92
2	22 x 140mm skirtings, nailed or plugged m <u>1</u>		139,01	139,01
	SOLID CORE FLUSH DOORS			
	40mm semi-solid flush doors with hardwood concealed edges			
3	Single door size 813 x 2032mm high overall No <u>1</u>		1 753,47	1 753,47
	44mm Thick semi-solid core flush doors with commercial veneer hung to timber or aluminium frame:			
4	Single door size 813 x 2032mm high No <u>1</u>		1 104,27	1 104,27
5	Single door size 1000 x 2032mm high No <u>1</u>		2 149,71	2 149,71
	Solid core flush doors with commercial veneer suitable for painting:			
6	44mm Door 813 x 2 700mm high No <u>1</u>		3 361,37	3 361,37
	FIRE DOORS AND FRAMES			
	Approved 2 hour fire doors, non-standard size, flush solid core with concealed hardwood edges, commercial veneer including 120min fire rated steel rebated metal frame including hinges as per door manufacturer specification, fixed and bolted in existing brickwork complete (Ironmongery elsewhere measured) elsewhere measured)			
7	Class B single door, size 1288 x 2032mm high overall No <u>1</u>		10 026,70	10 026,70
	Approved 30 minute doors, non-standard size, flush solid core with concealed hardwood edges, commercial veneer including 30min fire rated steel rebated metal frame including hinges as per door manufacturer specification, fixed and bolted in existing brickwork complete (Ironmongery elsewhere measured)			
8	Class F single door, size 1264 x 2064mm high overall No <u>1</u>		6 929,80	6 929,80
	Approved 2 hour fire doors with concealed hardwood edges, commercial veneer and standard hot dipped galvanised 1.6mm double rebated metal frame with threshold and including 3 pairs of 100 x 4.2mm heavy duty butt hinges fixed with fixing lugs into drywall/brickwall:			
9	Class B single door size 590 x 1 695mm high No <u>1</u>		6 140,37	6 140,37
10	Class B single door size 970 x 2 320mm high No <u>1</u>		7 772,35	7 772,35
11	Class B single door size 1 186 x 2 700mm high No <u>1</u>		11 648,43	11 648,43
12	Class B double door size 2 436 x 2 700mm high No <u>1</u>		25 492,23	25 492,23
	FRAMED FRAMES ETC			
	Wrought Meranti:			
13	69 x 90mm Rebated frame for single door size 813 x 2 700mm high No <u>1</u>		2 067,09	2 067,09
14	69 x 90mm Rebated frame for single door size 1 186 x 2 700mm high No <u>1</u>		2 100,64	2 100,64

	DESCRIPTION		RATE	TOTAL
15	69 x 90mm Twice moulded and rebated frame for single door size 813 x 2 032mm high to 110mm wall	No 1	1 562,99	1 562,99
16	69 x 90mm Twice moulded and rebated frame for single door size 1 138 x 2 100mm high to 110mm wall	No 1	1 845,38	1 845,38
	BEADS, ARCHITRAVES, ETC			
	Wrought softwood			
17	Install commercial sapale veneer to existing window cills in line with vertical mullions and mearanti beading 10 x 7mm and 20 x 55mm	m 1	154,11	154,11
	TOTAL BILL NO. 8 - CARPENTRY AND JOINERY			84 429,83
	<u>BILL NO. 9</u>			
	<u>CEILINGS AND PARTITIONS</u>			
	INSULATION			
	Ceiling insulation			
1	125mm Thick Aerolite insulation closely fitted and laid on top of brandering between roof timbers, etc.	m ² 1	66,95	66,95
	NAILED-UP CEILINGS			
	6,4mm thick gypsum plasterboard with H-Type pressed steel jointing strips			
2	Horizontal ceilings including 38 x 38mm sawn softwood brandering at 450mm centres	m ² 1	185,40	220,50
3	Extra over ceilings for 600 x 600mm trap door	No 1	515,00	515,00
	6mm thick fibre cement ceilings			
4	Horizontal ceilings including 38 x 38mm sawn softwood brandering at 450mm	m ² 1	185,40	220,50
	NAILED-UP CEILINGS			
5	L-shaped bulkheads with one vertical side and one horizontal side, overall girth not exceeding 1 200mm, with no individual side exceeding 1200mm, suspended not exceeding 1m below concrete soffits	m 1	323,54	323,54
	Cornice to nailed-up ceilings			
6	Pre-painted shadowline cornices, plugged	m 1	78,75	78,75
	SUSPENDED CEILINGS			
	The grid shall be suspended by means of galvanised steel L-section hangers at suitable centres, securely shot-pinned or screwed to concrete, steel or wood. Boards shall be butt jointed and finished with tape and jointing compound and the whole finished with gypsum plaster trowelled to a smooth polished surface			
7	600 x 1200mm pre-painted acoutstic panels on prepainted exposed tee suspension system, including main and cross tees, necessary hangers, grids, etc.	m ² 1	257,50	257,50
	Cornice to suspended ceilings			
8	Pre-painted shadowline cornices, plugged	m 1	78,75	78,75
	Sundries			
9	Allow for light fitting openings, cutting etc in suspended ceiling	No 1	21,00	21,00
10	Vertical bulkhead not exceeding 500mm high	m 1	262,50	262,50

	DESCRIPTION		RATE	TOTAL
	FIXED PARTITIONS			
	Rhino-Drywall or equivalent partitioning shall comprise of steel studding formed of 63,5mm top and bottom tracks with vertical studs at maximum 600mm centres, friction fitted or pop riveted to the top and bottom tracks with similiar additional vertical studs as necessary at abutments, ends, etc. and covered as described with wallboard screwed to studding with "Drywall" screws at maximum 220mm centres. Boards are to butt jointed and finished with "Rhinotape" and "Readymix D" jointing compound all in accordance with the manufacturer's instructions. intersections and abutments are measured seperately and descriptions shall be deemed to include any additional studs, corner beads, jointing compound, tape, etc.			
11	Partitions 3 000 - 3 500mm high with bottom and top tracks plugged	m 1	1 423,70	1 423,70
12	Extra over partition 2 500 - 3 000mm high for vertical abutment	No 1	140,67	140,67
13	Extra over partition 2 500 - 3 000mm high for corner	No 1	140,67	140,67
14	Extra over partition 2 500 - 3 000mm high for T-intersection	No 1	140,67	140,67
15	Extra over partition 2 500 - 3 000mm high for stopped end	No 1	140,67	140,67
16	Extra over partitions for cut out for beam size 400 x 500mm deep including fire sealing etc.	No 1	351,68	351,68
	Extra over partitioning for:			
17	Glazed screen overall size 1 435 x 2 700mm high, including glazed single door 900 x 2 324mm high	m² 1	1 704,21	1 704,21
18	Glazed door size 813 x 2 700mm high, including powder coated aluminium frame	m² 1	3 088,75	3 088,75
	Gyproc GypWall Firestop' 60minutes fire rating 63.5mm thick ultrasteel drywall' steel studs inserted at 600mm centres friction fitted into head track and floor track and clad on both sides with 12.5mm thick FireStop board fixed at 220mm centres using 25mm RhinoBoard Sharp Point Screws with all external angles to have Drywall cornerbeads attached and all joints to be covered with RhinoTape and finished with two layers of RhinoGlide applied and lightly sanded down, leaving wall surface prepared for painting, all in accordance with the manufacturer's recommendations.			
19	Partitions 2 500 - 3 000mm high with bottom and top tracks plugged	m 1	1 455,92	1 455,92
20	Extra over partition 2 500 - 3 000mm high for vertical abutment	No 1	140,67	140,67
21	Extra over partition 2 500 - 3 000mm high for corner	No 1	140,67	140,67
22	Extra over partition 2 500 - 3 000mm high for T-intersection	No 1	140,67	140,67
23	Extra over partition 2 500 - 3 000mm high for stopped end	No 1	140,67	140,67
	Extra over 'Gyproc GypWall Firestop' 60 minutes fire rated 63.5mm thick ultrasteel drywall' or equal and approved partitions for aluminium framed doors & shopfront complete including glazing, ironmongery, sealing in accordance with the architect's drawing			
24	Glazed door size 813 x 2 700mm high, including powder coated aluminium frame	m² 1	2 897,27	2 897,27
25	Glazed screen overall size 915 x 2 700mm high (GS09: dwg 8.6-10).	m² 1	2 666,09	2 666,09
	Skirtings			

	DESCRIPTION		RATE	TOTAL
26	4 x 100mm high aluminium skirtings	m ² 1	2 666,09	2 666,09
	TOILET CUBICLES			
	Vitraflex toilet partitioning with 20mm thick vitreous enamelled steel sheet faced particle board bonded panels and natural anodised aluminium edging and top rails including fixing components and standard ironmongery comprising hinges, indicator bolts, coat hooks, door stops and rubber buffers:			
27	Door 740 x 1 800mm high.	No 1	4 642,54	4 642,54
28	Partition 1 800 x 1 800mm high with cutouts.	No 1	9 533,28	9 533,28
29	Wall stile 105mm wide and 2 000mm high.	No 1	1 404,86	1 404,86
30	Full stile 210mm wide and 2 000mm high.	No 1	2 144,68	2 144,68
	Supply and install 'Vitrex' Vitraflex "Classic" modular toilet cubics complete as per manufacturer's specifications.			
31	Top rail	No 1	347,81	347,81
32	Door 800 x 1800mm high	No 1	4 642,54	4 642,54
33	Partition 1600 x 1800mm high	No 1	6 843,26	6 843,26
34	Wall stile	No 1	1 404,86	1 404,86
35	Full stile	No 1	2 144,69	2 144,69
	TOTAL BILL NO. 9 - CEILINGS AND PARTITIONS			227 219,70

	DESCRIPTION	RATE	TOTAL
	BILL NO. 10		
	<u>JOINERY FITTINGS</u>		
	JOINERY FITTINGS, ETC		
	WORKTOPS		
	Melamine faced board		
1	32mm Tops size 300mm wide x 1250mm long with bull nose along one long edge m 1	300,00	
2	32mm Tops size 600mm wide x 1250mm long with bull nose along one long edge m 1	450,00	
	Formica or similar approved		
3	600 x 16mm thick counter including support structure screwed to walls m 1	350,00	
	CUPBOARDS		
	Melawood or simmlar approved melamine faced particle board		
4	16mm cupboard doors m2 1	150,00	
5	16mm Tops, shelves, sides, divisions, etc m2 1	150,00	
6	16mm Adjustable shelving m2 1	150,00	
7	Drawer 300 x 300 x 150 mm deep overall of 16mm edged sides and back, 401 x 192 x 16mm "Supawood" front cover panel and 3 mm tempered hardboard bottom No 1	1 500,00	
	Granite vanity worktops:		
8	30mm Thick 'Rustenburg Black Granite' tops 600mm wide, including 75mm high edging, each counter holed for sanitary/kitchen fittings m 1	2 816,81	2 816,81
	PINNING BOARDS		
	Forbo bulletin pinboards linoleum with backing fixed drywall or similar approved installed according to manufacturers instructions by approved specialist installer complete.		
9	On drywall partitions m2 1	1467,65	1 467,65
	TOTAL - BILL NO. 10 - JOINERY FITTINGS		4 284,46

	DESCRIPTION		RATE	TOTAL
	<u>BILL NO. 11</u>			
	<u>FLOOR COVERINGS</u>			
	500 x 500mm approved carpet tiles, 7mm thick			
1	On floors.	m ² 1	424,98	424,98
2	Circular cutting.	m 1	62,49	62,49
	Polyflor static dissipative 2mm thick with welded joints:			
3	On floors	m ² 1	462,04	462,04
	Approved wall paper			
4	On walls	m ² 1	520,36	520,36
	SKIRTINGS, NOSINGS, ETC			
	Polyflor ejecta skirtings, nosings, etc.			
5	Vinyl set-in coving with PC20 cove former	m 1	37,14	37,14
	Strip skirtings, nosings, etc			
6	2.5 x 97mm High natural anodised aluminium skirtings fixed to drywall partitions	m 1	76,22	76,22
	CORNER PROTECTORS, DIVIDING STRIPS, ETC			
	Floor protectors:			
7	35 x 3mm Flat section brass dividing strips between differing floor finishes	m 1	102,78	102,78
	POLISH, SEALERS, ETC			
	Polish, Sealers, etc.			
8	Two coats wax polish on vinyl flooring.	m ² 1	37,86	37,86
	TOTAL - BILL NO. 11 - FLOOR COVERINGS			1 723,87

	DESCRIPTION		RATE	TOTAL
	<u>BILL NO. 12</u>			
	<u>IRONMONGERY</u>			
	HINGES, BOLTS, ETC.			
	'W&B Hardware' or equally approved			
1.	100 x 41 x 2.6mm Aluminium nylon washer sinkless off-centre leaf hinge	No 1	113,69	113,69
2.	150mm Long Satin chrome finished brass neck bolts to top	No 1	247,77	247,77
	'UNION' or equal and approved:			
4.	100 x 75mm Stainless ball bearing butt hinge	No 1	180,53	180,53
5.	Standard stainless steel hinge to later specification	No 1	177,03	177,03
6.	100 x 75mm Stainless ball bearing butt hinge	No 1	191,03	191,03
	LOCKS			
	'UNION' or equally approved			
7.	Narrow style oval cylinder upright lock case with drawer back latch complete with striker plate	Sets 1	528,48	528,48
8.	66mm Long Oval double cylinder lock	Sets 1	450,85	450,85
9.	Aluminium facility indicator bolt	No 1	954,92	954,92
	'DORMA' or equal and approved:			
10.	Stainless steel lock keep complete	No 1	829,05	829,05
11.	Stainless steel glass door lock complete	No 1	1 850,25	1 850,25
	'UNION' or equal and approved:			
12.	Escutcheon on oval profile	No 1	96,35	96,35
13.	Stainless steel Escutcheon on rose oval cylinder	No 1	78,15	78,15
14.	Stainless steel Escutcheon on rose profile	No 1	81,42	81,42
15.	Mortice hook lock 35mm backset	No 1	411,96	411,96
16.	Facility indicator bolt	No 1	913,42	913,42
17.	Latch and deadbolt lock w/o cylinder	No 1	464,42	464,42
18.	Euro profile double cylinder	No 1	260,13	260,13
19.	Oval profile single cylinder	No 1	306,29	306,29
20.	Oval cylinder deadlock case	No 1	466,21	466,21
	HANDLES			
	'UNION' or equally approved			
21.	Anodised silver aluminium dove lever handle with concealed fixing backplate and oval piercing for cylinder lock	Pairs 1	498,17	498,17
22.	Anodised silver aluminium 300mm pull handles fitted back to back	Pairs 1	444,94	444,94
23.	Anodised silver aluminium pull handles	No 1	228,32	228,32

	DESCRIPTION		RATE	TOTAL
	'UNION' or equal and approved:			
24.	22mm Diameter tubular pull handle 228 x 152 x 1.6mm thick with no sharp corners or edges, four times countersunk drilled for back to back screw fixing with oval cylinder piercing left hand	Pairs 1	415,98	415,98
25.	32mm Diameter pull handles with bolt through fixing 350mm overall length	No 1	565,94	565,94
26.	Dove' pull handle, screw fixed to door at 300mm centers	No 1	272,33	272,33
27.	Radius lever furniture, satin chrome plated	No 1	297,86	297,86
28.	Lever handle on narrow stile rose	No 1	300,99	300,99
29.	300mm Stainless steel 22mm diameter bolt through pull handle with flange fixing	No 1	238,80	238,80
30.	150mm Stainless steel 22mm diameter bolt through pull handle with flange fixing	No 1	226,36	226,36
	PUSH PLATES AND KICK PLATES			
	UNION' or equal approved anodised silver aluminium:			
31.	277 x 200 x 3mm Thick kick plate	No 1	202,73	202,73
32.	790 x 200 x 3mm Thick kick plate	No 1	370,01	370,01
33.	970 x 300 x 3mm Thick kick plate	No 1	583,67	583,67
34.	1180 x 200 x 3mm Thick kick plate	No 1	500,28	500,28
	UNION' or equal and approved stainless steel plates:			
35.	152 x 228 x 3mm Thick push plate grade 304	No 1	163,74	163,74
36.	Brushed 304 grade kickplate 300mm high x approx. 500mm wide, fitted to doors	No 1	331,17	331,17
37.	Brushed 304 grade kickplate 300mm high x approx. 800mm wide, fitted to doors	No 1	468,47	468,47
38.	Brushed 304 grade kickplate 300mm high x approx. 1000mm wide, fitted to doors	No 1	566,77	566,77
39.	Brushed 304 grade kickplate 300mm high x approx. 1 200mm wide, fitted to doors	No 1	658,30	658,30
40.	Brushed 304 grade kickplate 300mm high x approx. 1 220mm wide, with no sharp edges or corners, fitted to doors.	No 1	663,55	663,55
41.	Brushed 304 grade kickplate 300mm high x approx. 1000mm wide x 1,2mm thick, fitted to doors	No 1	607,96	607,96
42.	Brushed 304 grade kickplate 300mm high x approx. 780mm wide x 1,2mm thick, fitted to doors	No 1	491,45	491,45
43.	Brushed 304 grade kickplate 300mm high x approx. 816mm wide x 1,2mm thick, fitted to doors	No 1	509,40	509,40
	DOOR CLOSERS			
	'DORMA' or equally approved			
44.	Adjustable spring strength door closer with standard arm delayed closing fitted pull side	No 1	1 977,87	1 977,87
45.	Adjustable spring strength door closer set complete with delayed action closing and backhead as standard with no hold-open function	No 1	4 393,00	4 393,00
46.	Box mounted 24V DC electro magnet	No 1	2 181,63	2 181,63

	DESCRIPTION		RATE	TOTAL
47.	Receiver plate with adjustable angle	<u>No</u> 1	1 195,53	1 195,53
48.	Door co-ordinating system for double doors 2650mm	<u>No</u> 1	2 687,82	2 687,82
	'UNION' or equal and approved door closers plus magnets :			
49.	Parallel arm (R&P EN 2-4SIL) overhead door closer	<u>No</u> 1	1 467,59	1 467,59
50.	Adjustable power EN 3-6 overhead door	<u>No</u> 1	2 051,07	2 051,07
51.	Regular arm (R&P EN 1-6) overhead door closer	<u>No</u> 1	3 549,42	3 549,42
	'Dorma' or equal and approved door closers plus magnets :			
52.	Hold open transom concealed door closer with fixing brackets	<u>No</u> 1	4 539,29	4 539,29
53.	Non-hold open transom concealed door closer with fixing brackets	<u>No</u> 1	4 539,29	4 539,29
54.	Electro magnetic flush fitting wall mounted with receiver plate	<u>No</u> 1	2 321,63	2 321,63
	DORMA' or equal and approved:			
55.	Flush fitting wall mounted electro magnet with receiver plate (latter screwed to door)	<u>No</u> 1	2 157,72	2 157,72
	'UNION' or equal and approved door closers plus magnets:			
56.	Adjustable power EN 3-6 overhead door	<u>No</u> 1	2 051,07	2 051,07
57.	Regular arm overhead door closer	<u>No</u> 1	1 464,08	1 464,08
	EMERGENCY EXIT HARDWARE			
	'ASSA ABLOY' or other approved			
58.	Panic hardware with all fittings and fixtures as per manufacturer's specifications	<u>No</u> 1	2 922,57	2 922,57
	SLIDING GEAR			
	'UNION' or equal and approved sliding gear:			
59.	Sliding gear set for single door with track 2100m long, including brackets for side soffit fixing, hangers, rollers, guides, stops, etc.	<u>No</u> 1	1 862,44	1 862,44
60.	Sliding gear set for single door with track 1500m long, including brackets for side soffit fixing, hangers, rollers, guides, stops, etc.	<u>No</u> 1	1 513,10	1 513,10
	'Assa Abloy' or equal and approved:			
61.	Besam unislide automatic sliding gear set for glazed telescopic door including Besam SL 500T operator (with top rail and pelmet), micro cell safety beam, 12V EEU battery, lock M2M, mode selector and floor guides	<u>No</u> 1	31 412,28	31 412,28
	LETTERS, NAMEPLATES, ETC.			
	Signage:			
62.	250 x 60mm High aluminium plate with sliders	<u>No</u> 1	234,77	234,77
63.	150 x 150mm High aluminium single sided plate	<u>No</u> 1	268,40	268,40
64.	40 x 20mm Number tag mounted on inner side at top-middle point of timber door frame and on frameless glass doors mounted at top middle point of door frame.	<u>No</u> 1	181,32	181,32
	'UNION' or equally approved			
65.	152 x 178 x 3mm Thick anodised aluminium plate engraved male symbol	<u>No</u> 1	260,63	260,63

	DESCRIPTION		RATE	TOTAL
66.	152 x 178 x 3mm Thick anodised aluminium plate engraved female symbol	No 1	260,63	260,63
67.	152 x 178 x 3mm Thick anodised aluminium plate engraved disabled symbol	No 1	260,63	260,63
68.	152 x 178 x 3mm Thick anodised aluminium plate engraved shower symbol	No 1	260,63	260,63
	BATHROOM FITTINGS			
	'W&B Hardware' or equally approved			
69.	Stainless steel bathroom tissue dispenser plugged	No 1	632,99	632,99
70.	Stainless steel "MK2" hand towel system	No 1	880,66	880,66
71.	Stainless steel manual operated lockable soap dispenser plugged, size 121 x 206 x 69mm deep overall	No 1	1 131,47	1 131,47
72.	Hygiene HD Xlerator stainless steel automatic sensor hand dryer unit	No 1	6 204,49	6 204,49
73.	Disposer plus stainless steel wall bin plugged	No 1	1 361,12	1 361,12
74.	TCS Hygiene' 20L lift top sanitary bin	No 1	1 564,55	1 564,55
75.	TCS Hygiene' Stainless steel manual operated soap dispenser	No 1	1 288,97	1 288,97
76.	Stainless steel automated sensor soap dispenser	No 1	1 617,15	1 617,15
77.	300 x 300 x 300mm Angle grab side rail stainless steel	No 1	815,18	815,18
78.	800 x 206mm Cistern grab backrail stainless steel	No 1	887,45	887,45
79.	750 x 206 x 32mm Diameter stainless steel grab rails	No 1	853,85	853,85
80.	300 x 95 x 32mm Diameter stainless steel grab rails	No 1	833,35	833,35
81.	300 x 300 x 300 x 32mm Diameter stainless steel grab rail	No 1	743,42	743,42
	'Serra' or equal and approved:			
82.	Stainless steel semi round wall mounted toilet roll holder satin finish	No 1	795,85	795,85
	'Franke' or equal and approved:			
83.	Stainless steel semi round wall mounted toilet roll holder	No 1	1 132,31	1 132,31
	Hand dryer:			
84.	320W x 226D x 656H (8,3kg) Dualflow®Plus energy saving hand dryer in White of high impact PA6 VO plastic ABS with microbe inhibiting protection.	No 1	4 345,75	4 345,75
	SUNDRIES			
	'W&B Hardware' or equally approved			
85.	Aluminium wall mounted door stop	No 1	108,66	108,66
86.	Anodised silver aluminium rubber tipped towel & coat hook	No 1	77,04	77,04
	'DORMA' or equal and approved:			
87.	Brushed stainless steel top rail to suit RTS	No 1	3 511,87	3 511,87
88.	Brushed stainless steel bottom rail for frameless glass	No 1	2 271,17	2 271,17
89.	Floor pivot bearing, code	No 1	634,19	634,19
90.	Stainless steel cover plate for floor pivot	No 1	379,73	379,73

	DESCRIPTION		RATE	TOTAL
	'UNION' or equal and approved:			
91.	Aluminium wall mounted door stop	No 1	119,16	119,16
92.	Wall mounted door stop	No 1	154,88	154,88
93.	ART 500B30 Patent screws and nuts	No 1	34,17	34,17
94.	Double panic bolt touch bar 1 200mm	No 1	6 296,26	6 296,26
85.	Double panic bolt touch bar 900mm	No 1	2 590,68	2 590,68
96.	Fire door coordinator 1 321mm	No 1	1 277,31	1 277,31
97.	Vertical extension rod	No 1	799,31	799,31
98.	Parallel arm fitting plate	No 1	279,41	279,41
99.	Parallel arm bracket	No 1	84,64	84,64
100.	Hardware mounting bracket	No 1	376,92	376,92
101.	Carry bag black	No 1	529,97	529,97
102.	Filler bar 18 INS	No 1	336,64	336,64
103.	Nickel plated brass thiefproof patent fixing screws.	No 1	49,62	49,62
104.	FISCHER N6 X 60F Hammer fix nail for fixing above door stop.	No 1	30,77	30,77
105.	Paraplegic indicator bolt	No 1	913,42	913,42
	PHOTOLUMINESCENT SIGNS			
	Wall mounted photoluminescent statutory signs in 150 x 150mm modules in accordance with SANS 1186			
106.	150 x 150mm Sign with one pictogram	No 1	181,02	181,02
	Wall mounted photoluminescent statutory signs in 150 x 150mm in accordance with SANS 1186			
107.	300 x 150mm Sign with two pictograms	No 1	348,79	348,79
108.	450 x 150mm Sign with three pictograms	No 1	423,28	423,28
	BLINDS, ETC.			
	Luxaflex' or other approved horizontal slatted aluminium venation blinds with 50mm wide blades including manual cord and tilt wand using a standard cord to stack blinds, tilt wand on left, pull cord on right, recess fixed into window with retaining brackets, colour to match that of the window frame, and installed under a one year guarantee			
109.	Window size 600 x 1500mm high overall	No 1	519,69	519,69
110.	Window size 800 x 1500mm high overall	No 1	617,97	617,97
111.	Window size 900 x 1500mm high overall	No 1	661,30	661,30
112.	Window size 1000 x 1500mm high overall	No 1	711,36	711,36
113.	Window size 1200 x 1500mm high overall	No 1	802,55	802,55
114.	Window size 1500 x 1500mm high overall	No 1	947,46	947,46
	'ALPLAS' or equal and approved chain operated roller blinds with stainless steel control chain			
115.	Sunscreen fabric blinds ±2 700mm high.	m 1	1 186,05	1 186,05
116.	Sunscreen fabric blinds size 840 x 2100mm high	No 1	878,25	878,25

	DESCRIPTION	RATE	TOTAL
117.	Blockout blinds size 840 x 2100mm high <u>No</u> <u>1</u> 'ALPLAS' or equal and approved venetion blinds including mechanisms for full functionality, recess fixed into window with retaining brackets	878,25	878,25
118.	Venetion blind for glazed screen size 4 650 x 2 700mm high <u>No</u> <u>1</u>	4 267,48	4 267,48
119.	Venetion blind for glazed screen size 2 450 x 2 700mm high <u>No</u> <u>1</u>	2 408,84	2 408,84
120.	Venetion blind for glazed screen size 2 270 x 2 700mm high <u>No</u> <u>1</u>	2 385,74	2 385,74
121.	Venetion blind for glazed screen size 1 890 x 2 700mm high <u>No</u> <u>1</u>	1 736,34	1 736,34
122.	Venetion blind for glazed screen size 1 870 x 2 700mm high <u>No</u> <u>1</u>	1 727,25	1 727,25
123.	Venetion blind for glazed screen size 1 830 x 2 700mm high <u>No</u> <u>1</u>	1 712,19	1 712,19
124.	Venetion blind for glazed screen size 1 610 x 2 700mm high <u>No</u> <u>1</u>	1 553,75	1 553,75
125.	Venetion blind for glazed screen size 1 090 x 2 700mm high <u>No</u> <u>1</u>	1 441,44	1 441,44
	TOTAL - BILL NO. 8 - IRONMONGERY		165 556,88
	<u>BILL NO. 13</u> <u>STRUCTURAL STEELWORK</u> STEEL COLUMNS, GIRTS, BRACING, ETC Welded columns in single lengths with flat section base, top, bearer and connection plates and gussets, bolted to concrete:		
1.	100 x 100 x 3mm Square hollow section columns. <u>Tonnes</u> <u>1</u>	42 963,44	42 963,44
	Support girders structure in single lengths with flat section base, top, bearer and connection plates bolted to concrete:		
2.	80 x 80 x 8mm Mild steel angle support girders <u>Tonnes</u> <u>1</u>	41 817,24	41 817,24
	Bolts to angles, girts, etc:		
3.	M16 Bolts. <u>No</u> <u>1</u>	29,43	29,43
4.	M16 Chemical anchor bolts. <u>No</u> <u>1</u>	103,58	103,58
	TOTAL - BILL NO. 13 - STRUCTURAL STEELWORK		84 913,69

	DESCRIPTION	RATE	TOTAL
	<u>BILL NO. 14</u>		
	<u>METALWORK</u>		
	STEEL CHAIRS, ETC		
	Heavy duty stainless steel public seating consisting of 1.8mm thick steel tubing for beams, 1.5mm thick steel tubing for arms, legs and edges, and 1.2mm thick brushed stainless steel seats including all fixings, etc, all as per the manufacturer's specification:		
1.	Single seater <u>No 1</u>	4 174,62	4 174,62
2.	Two seater <u>No 1</u>	7 439,25	7 439,25
3.	Three seater <u>No 1</u>	7 487,37	7 487,37
	GALVANISED STEEL BALUSTRADES		
	Purpose made galvanised mild steel welded and bolted balustrades		
4.	Horizontal balustrading 1000mm high comprising of 50mm diameter 2,5mm thick continuous pipe top rail, and 50 x 10mm balusters at 888mm centres and welded to 75mm diameter x 8mm thick face plate with four rows of 6mm cabling equally spaced & 16mm diameter x 150mm long steel rod epoxy grouted into and including mortice in concrete <u>m 1</u>	1 889,13	1 889,13
5.	Horizontal balustrading 1000mm high comprising of 50mm diameter 2,5mm thick continuous pipe top rail, and 50 x 10mm balusters at 1006mm centres & welded to 75mm diameter x 8mm thick face plate with four rows of 6mm cabling equally spaced & 16mm diameter x 150mm long steel rod epoxy grouted into & including mortice in concrete <u>m 1</u>	1 718,97	1 718,97
6.	Extra over balustrading for 90 degree bend <u>No 1</u>	197,05	197,05
7.	Extra over balustrading for end closure <u>No 1</u>	104,96	104,96
	SUNDRY STAINLESS STEELWORK		
	Brushed stainless steel:		
8.	200mm High splashback, plugged to wall. <u>m 1</u>	379,56	379,56
	WELDED SCREENS, GATES, ETC		
	Gates		
9.	Single gate 860 x 2180mm high <u>No 1</u>	6 825,00	6 825,00
10.	Double gate 1650 x 2180mm high <u>No 1</u>	13 230,00	13 230,00
	Window burglar bar screens		
11.	Ditto size 900 x 900mm high overall <u>No 1</u>	1 312,50	1 312,50
12.	Ditto size 1200 x 900mm high overall <u>No 1</u>	1 732,50	1 732,50
	PREPAINTED PROPRIOTORY SECURITY SCREENS, GATES, ETC		
	Screens and gates		
13.	Trellidor or similar approved expandable security gate with and including all ironmong overall size 1000 x 2090mm high <u>No 1</u>	2 940,00	2 940,00
14.	Trellidor or similar approved expandable security gate with and including all ironmong overall size 1500 x 2090mm high <u>No 1</u>	4 462,50	4 462,50
15.	Trellidor or similar approved expandable security gate with and including all ironmong overall size 3800 x 2090mm high <u>No 1</u>	11 172,00	11 172,00
	1,6mm Rebated frames suitable for half brick walls		
16.	Frame for door 813 x 2 032mm high <u>No 1</u>	1 574,21	1 574,21

	DESCRIPTION	RATE	TOTAL
	ALUMINIUM SLIDING FOLDING DOOR		
	Powder coated sliding folding door with sliding mechanism complete including 10mm opaque laminated safety glass, self-adhesive sandblast vinyl 2100mm high, ironmongery, sealing, etc and fixing to brickwork or concrete:		
17.	Sliding folding door size 5 540 x 2 600mm high <u>No</u> <u>1</u>	54 921,36	54 921,36
	STEEL ROLLER SHUTTERS ETC		
	Galvanised steel roller shutters with 76mm slats (18kg/m²), fixed to brickwork or concrete		
18.	Manually operated slatted roller shutter for 1500 x 900mm high opening, including electrical connection and commissioning (electrical isolator elsewhere) <u>No</u> <u>1</u>	13 912,75	13 912,75
19.	Manually operated slatted roller shutter for 1500 x 2100mm high opening, including electrical connection and commissioning (electrical isolator elsewhere) <u>No</u> <u>1</u>	14 902,67	14 902,67
	FRAMELESS GLASS SLIDING DOORS		
	Frameless glass sliding doors:		
	Frameless glass sliding doors as per Architects schedule no. 8.2-21, installed as per manufactures specification including slider mechanism, hanging rails, 10mm clear laminated safety glass, 1050mm high self-adhesive sandblast vinyl, ironmongery, etc.:		
20.	Frameless glass door, comprised of two equal leafs size 2 600 x 2 600mm high <u>No</u> <u>1</u>	51 880,05	51 880,05
	STEEL DOORS, ETC		
	Trox low leakage steel doors or equal and approved etc suitable for 230mm walls fixed to brickwork:		
21.	1 960 x 1 940 x 44mm Thick type XTV door with APT rubber seal, temperature resistant up to 90 deg and 45 x 45 x 5mm thick angle frame including ironmongery complete installed as per instructions <u>No</u> <u>1</u>	47 625,05	47 625,05
	TOTAL - BILL NO. 14 - METALWORK		249 881,51

	DESCRIPTION		RATE	TOTAL
	<u>BILL NO. 15</u>			
	<u>PLASTERING</u>			
	SCREEDS			
	Screeds wood floated, on concrete			
1.	30mm Thick on floors and landings. m² 126		77,66	9 784,91
2.	30mm Thick on floors to falls and crossfalls m² 70		94,93	6 645,14
3.	Average 40mm thick on floors to falls to receive waterproofing. m² 1		105,60	105,60
	INTERNAL PLASTER			
	Compo plaster on brickwork			
4.	On walls m² 56		90,37	5 060,92
5.	On narrow widths m 13		44,48	578,21
	Cement plaster steel trowelled, on brickwork			
6.	On walls m² 646		84,96	54 881,25
7.	On narrow widths. m² 100		117,50	11 749,50
8.	Extra over cement plastering for chicken mesh fixed to walls to receive plaster m² 40		59,69	2 387,70
	Gypsum skim plaster, on brickwork/ concrete:			
9.	On existing concrete columns. m² 166		92,16	15 298,31
	EXTERNAL PLASTER			
	Cement plaster on brickwork			
10.	On walls m² 56		90,37	5 060,92
11.	On narrow widths m 13		44,48	578,21
	Cement plaster steel trowelled, on brickwork			
12.	On walls m² 646		84,96	54 881,25
13.	On narrow widths. m² 100		117,50	11 749,50
	TOTAL - BILL NO. 15 - PLASTERING			178 761,42

	DESCRIPTION	RATE	TOTAL
	BILL NO. 16		
	<u>TILING</u>		
	WALL TILING		
	300 x 100 x 8mm glazed ceramic tiles with colour cement grouting and fixed with 'Tal Goldstar' or equal and approved tile adhesive to plaster with 3mm joint to line up with floor tiles		
1.	On walls m² 1	552,50	552,50
2.	On narrow widths not exceeding 300mm wide or high. m 1	435,60	435,60
	300 x 300 x 8mm porcelain tiles with colour cement grouting and fixed with 'Tal Goldstar' or equal and approved tile adhesive to plaster with 3mm joint to line up with floor tiles		
3.	On walls m² 1	609,87	609,87
4.	On narrow widths not exceeding 300mm wide or high. m 1	435,60	435,60
	50 x 50 x 5mm full bodied non-slip porcelain mosaics on 300 x 300mm mosaic sheets with colour cement grouting.		
5.	On walls m² 1	1 070,09	1 070,09
	600 x 600mm Full bodied porcelain tile cut to size with rectified edges for butt jointed installation with max. 3mm grouted joints or equal and approved porcelain tiles, fixed with tile manufacturers approved tile adhesive to plaster (plaster elsewhere measured)		
6.	On walls m² 1	638,02	638,02
7.	On narrow widths. m² 1	699,46	699,46
8.	Skirting 150mm high of cut floor tiles and fixed flush with plaster. m 1	166,30	166,30
	FLOOR TILING		
	50 x 50 x 5mm full bodied non-slip porcelain mosaics on 300 x 300mm mosaic sheets with colour cement grouting		
9.	On floors to falls and crossfalls m² 1	1 070,09	1 070,09
	300 x 300 x 8mm full bodied non-slip porcelain tiles fixed with adhesive to screed with 3mm joints and colour cement grouting		
10.	On floors and landings m² 1	609,87	609,87
11.	Tile skirting 150mm high m 1	152,64	152,64
	600 x 600mm 'Matt first grade full bodied porcelain tiles or equal and approved porcelain tiles (PC Sum of R 220.00/m² excl vat), fixed with tile manufacturers approved tile adhesive to screed (screed elsewhere measured):		
12.	On floors m² 1	420,08	420,08
13.	Skirting 150mm high of cut floor tiles. m 1	128,29	128,29
	NOSINGS, JOINT COVERS, PROTECTORS, ETC.		
	Aluminium corner protectors, etc		
14.	10mm Square edge trims between plaster and tiles. m 1	94,47	94,47
15.	10mm Wide aluminium dividing strip to edges of tiling m 1	67,53	67,53
16.	10mm Stainless steel M-trim tile divider between wall tiles. m 1	146,35	146,35

	DESCRIPTION		RATE	TOTAL
17.	10mm corner protectors. m 1		111,96	111,96
	TOTAL - BILL NO. 16 - TILING			7 408,72
	BILL NO. 17			
	<u>PLUMBING AND DRAINAGE</u>			
	SANITARY FITTINGS			
	'Franke' stainless steel sinks or equal and approved:			
1.	Single bowl kitchen sink (code NEX 611) No 1		1 667,13	1 667,13
2.	Neptune model NEX 611 inset sink, size 860 x 510mm wide overall with one 360 x 420 x 200mm deep bowl, fitted and sealed onto cupboard (Cupboard elsewhere measured) No 1		1 868,15	1 868,15
3.	Neptune model NEX 621 inset sink, size 1 160 x 510mm wide overall with two 360 x 420 x 200mm deep bowl, fitted and sealed onto cupboard (Cupboard elsewhere measured) No 1		7 040,62	7 040,62
4.	Neptune model NEX 621 inset sink, size 1160 x 510mm wide overall with two 360 x 420 x 200mm deep bowls including right hand drainer (code: 310072) with single tap hole made from polished stainless steel grade 304 18/10, fitted and sealed onto cupboard (Cupboard elsewhere measured) No 1		7 040,62	7 040,62
5.	SL1 stainless steel SLOP HOPPER unit with grid manufactured from grade 304 (18/10) stainless steel, size 545 x 540mm as "Citimetal". Complete with 300 x 255mm high level stainless steel cistern (11 litres) with flush pipe and C.P. Adaptor. No.2 off 15mm bibtaps as "COBRA 107 EC-15" with "STAR" handles. No.2 off 15mm C.P. extension pieces with sliding flange as "COBRA 059-15". No 1		17 622,08	17 622,08
6.	Slop Hopper size 540 x 540 x 565mm deep from grade 304 (18/10) 1,2mm stainless steel, with 100mm high integral splashback, integral flushing rim fitted with a 38 x 250mm long vertical flush pipe inlet, 40 x 40 x 10mm thick hinged bucket grid fitted over funnel and fixed to wall with 40mm square tube gallows brackets bolted with M6 stainless steel expanding bolts No 1		11 982,03	11 982,03
	Carefully take out and remove damaged sanitary fitting, replace with new including effecting all existing brackets, couplings, connections and re-fixing existing finishers as necessary and leave in good working order.			
7.	Sink and drainer 900 x 530mm wide with one bowl No 1		3 800,00	3 800,00
8.	Sink and drainer 1200 x 530mm wide with one bowl No 1		4 200,00	4 200,00
9.	Sink and drainer 1350 x 530mm wide with one bowl No 1		4 600,00	4 600,00
10.	Sink and drainer 1575 x 530mm wide with two bowls No 1		4 800,00	4 800,00
11.	Sink and drainer 1800 x 530mm wide with two bowls No 1		5 200,00	5 200,00
12.	525 x 530mm Laundry tub with one bowl No 1		3 500,00	3 500,00
13.	1050 x 530mm Laundry tub with two bowls No 1		6 500,00	6 500,00
	'Valsir' sanitaryware cistern or equal and approved to manufacturer's specifications:			
14.	Tropea 3 Murare Flush mechanism in wall cistern with choice of two flush volumes 7/3-6/3 litres, supplied with float valve and demountable stop valve, with flush pipe and wall fixing material (code: VS0859002) No 1		2 562,32	2 562,32
15.	9 litre cistern complete with lid and fitments No 1		600,00	600,00
16.	9 litre cistern complete with lid, top dual push button and fitments No 1		600,00	600,00
17.	9 litre cistern complete with lid, dual flush handle and fitments No 1		600,00	600,00

	DESCRIPTION	RATE	TOTAL
	'Vaal Sanitaryware' ceramic fireclay wash hand basins or equal and approved:		
18.	Vitreous china 510 x 400 mm semi-rectangular "Sola 510" medical basin with no tapholes, overflow or chainstay hole. No <u>1</u>	1 239,79	1 239,79
19.	Vitreous china 450 x 350mm "Midi Weaver" rectangular surface mounted basin with one taphole (Code 706601) No <u>1</u>	1 751,59	1 751,59
20.	'Concorde 580' white ceramic clazy size 610 x 460mm rectangular basin with taphole wall mounted No <u>1</u>	2 174,21	2 174,21
	Vitreous China Sanitaryware - "Vaal" or equally approved		
21.	White vitreous china pan with S trap. No <u>1</u>	650,00	650,00
22.	White vitreous china pan with P trap. No <u>1</u>	650,00	650,00
23.	White vitreous china pan with side outlet. No <u>1</u>	850,00	850,00
24.	Gypsy vandal resistant WC toilet pan. No <u>1</u>	2 500,00	2 500,00
25.	Vitreous china wall hung urinal.size: 420mm x 320mm x 280mm No <u>1</u>	2 900,00	2 900,00
26.	Vitreous china wall hung urinal.size: 600mm x 390mm x 390mm No <u>1</u>	3 300,00	3 300,00
27.	Gypsy vandal resistant urinal. No <u>1</u>	2 500,00	2 500,00
28.	Vitreous china wash hand basin. Size 550mm x 400 mm No <u>1</u>	1 200,00	1 200,00
29.	Vitreous china wash hand basin. Size 450mm x 200 mm cloak room basin No <u>1</u>	1 000,00	1 000,00
30.	Universal basin pedestal No <u>1</u>	500,00	500,00
31.	Gypsy vandal resistant wash hand basin. No <u>1</u>	2 500,00	2 500,00
32.	1830 x 680mm White plexicor Heavy Duty bath with handles. No <u>1</u>	2 500,00	2 500,00
33.	Pressed metal bath. No <u>1</u>	3 000,00	3 000,00
34.	White fire clay drip sink size 540 x 4680 X 180mm, including chromium plated grid. No <u>1</u>	2 500,00	2 500,00
35.	9 Litre plastic low level flushing cistern. No <u>1</u>	450,00	450,00
36.	9 Litre shires low level flushing cistern. No <u>1</u>	650,00	650,00
37.	9 Litre vitreous china low level flushing cistern. No <u>1</u>	650,00	650,00
38.	9 Litre stainless (18/8) steel high level flushing cistern. No <u>1</u>	2 500,00	2 500,00
39.	9 Litre shires high level flushing cistern. No <u>1</u>	650,00	650,00
40.	9 Litre vitreous china high level flushing cistern. No <u>1</u>	650,00	650,00
41.	9 Litre stainless steel high level flushing cistern. No <u>1</u>	2 500,00	2 500,00
42.	450 x 300mm (approximately) Cloakroom basin No <u>1</u>	480,00	480,00
43.	Universal basin pedestal No <u>1</u>	366,00	366,00
44.	550 x 400mm (approximately) wash hand basin No <u>1</u>	650,00	650,00
45.	600 x 400mm (approximately) Oval / Round vanity basin No <u>1</u>	1 200,00	1 200,00
46.	Low level wc open rim washdown pan No <u>1</u>	1 950,00	1 950,00
47.	Semi-close coupled wc open rim washdown pan No <u>1</u>	1 950,00	1 950,00
48.	Close coupled wc open rim washdown pan No <u>1</u>	1 950,00	1 950,00
49.	Wall hung wc open rim pan (flushing valve elsewhere) No <u>1</u>	1 150,00	1 150,00

	DESCRIPTION		RATE	TOTAL
50.	9 litre cistern complete with lid and fitments (flush pipe elsewhere)	<u>No</u> <u>1</u>	600,00	600,00
51.	9 litre cistern complete with lid, top dual push button and fitments (flush pipe elsewhere)	<u>No</u> <u>1</u>	600,00	
52.	9 litre cistern complete with lid, dual flush handle and fitments (flush pipe elsewhere)	<u>No</u> <u>1</u>	600,00	600,00
53.	Wall hung bowl urinal, overall size 420 x 320 x 280mm (approximately) with 38mm c.p. Domical grating and top inlet spreader (flushing valve elsewhere)	<u>No</u> <u>1</u>	3 000,00	3 000,00
54.	Wall hung bowl urinal, overall size 600 x 390 x 390mm (approximately) with 38mm c.p. Domical grating and top inlet spreader (flushing valve elsewhere)	<u>No</u> <u>1</u>	3 000,00	3 000,00
55.	510 x 400mm "Sola Medical 510" white hospital basin Code 706200 including 32mm diameter chromium plated standing overflow tube Code 8630Z0, bolted to wall	<u>No</u> <u>1</u>	1 800,00	1 800,00
56.	510 x 405mm "Hibiscus 844820" white wash hand basin with two tap holes including integrated overflow and chainstay hole, bolted to wall	<u>No</u> <u>1</u>	650	650,00
57.	595 x 455mm "Cameo" white drop-in vanity basin Code 0006 with two tap holes including integrated overflow and chainstay hole, and silicone sealant all round	<u>No</u> <u>1</u>	3 000,00	3 000,00
58.	Low-level white closet for paraplegics comprising "Protea(7502)" pan with "Masterbilt" double flap plastic seat and 9litre Code710631 cistern with purpose made chromed side flush handle	<u>No</u> <u>1</u>	5 500,00	5 500,00
59.	"Daisy" white vitreous china WC semi-close coupled pan (code 774717) with matching 9litre cistern (code 710034) and white double flap plastic seat	<u>No</u> <u>1</u>	1 750,00	1 750,00
60.	"Daisy" white vitreous china "Junior" 1040 WC outlet washdown pan (code 751300) and matching 6litre cistern (code 712034) complete with lid and fitments, and junior seat	<u>No</u> <u>1</u>	1 900,00	1 900,00
	'Vaal' sanitaryware vitreous china WC suites or equal and approved to manufacturer's specifications:			
61.	Parktown' vitreous china with 90mm outlet back inlet (code 4317) closed rim back to wall white pan, complete with and including toilet seat (code TSEVILONO02), junior flush master flush control valves (elsewhere measured), complete to manufacturer's specifications	<u>No</u> <u>1</u>	6 414,32	6 414,32
62.	"Parktown" 90° back inlet (code 431600) with closed rim back-to-wall pan, Valsir Tropea 3 Murare Flush mechanism in wall (elsewhere measured), complete to manufacturer's specifications.	<u>No</u> <u>1</u>	6 658,72	6 658,72
63.	White vitreous china 'Parktown Signature' washdown suite comprising 90mm diameter outlet top inlet closed rim back-to-wall pan flush suite complete with lid and fitments and double flap seat	<u>No</u> <u>1</u>	13 975,42	13 975,42
64.	Vitreous china "Pearl Paraplegic" semi close couple 90° outlet open rim washdown pan and matching 9 litre cistern complete with lid, fitments, and purpose made C.P. side-flush lever (left or right)	<u>No</u> <u>1</u>	6 212,84	6 212,84
65.	'Pearl Paraplegic' vitreous china semi-close coupled suite (code 7300SC) complete to manufacturer's specifications.	<u>No</u> <u>1</u>	5 992,98	5 992,98
66.	Vitreous china 580 x 410mm "President" oval underslung vanity basin, with integrated overflow. The basin has an unglazed contact surface area for fixing under vanity slab or in a bathroom cabinet using three or four hanger brackets (code 8125Z0)	<u>No</u> <u>1</u>	1 739,98	1 739,98
67.	Vitreous china 510 x 405mm rounded "Hibiscus" basin with three semi-punched tapholes and integrated overflow (code 7023)	<u>No</u> <u>1</u>	634,20	634,20
68.	Hibiscus' white vitreous china lavatory basin, size 510 x 405mm, with two semi-punched tapholes, integrated overflow & chainstay hole, bolted to wall with two 10mm bolts & sealed with silicone sealant where basin meets wall	<u>No</u> <u>1</u>	564,19	564,19
	'Vaal' sanitaryware or equal and approved vitreous china urinals:			

	DESCRIPTION		RATE	TOTAL
69.	'Sweetpea' wall hung bowl urinal (code 705126) complete to manufacturer's specifications	No 1	3 428,26	3 428,26
70.	'Lavatera' white vitreous china wall mounted top inlet urinal size 600 x 385 x 380mm overall (705426), including 38mm chromium plated domical grating (8787Z0) and chromium plated top inlet spreader (7054Z1), fixed on and including two number hanger brackets.	No 1	4 122,98	4 122,98
71.	Vitreous china wall hung urinal.size: 420mm x 320mm x 280mm	No 1	2 900,00	2 900,00
72.	Vitreous china wall hung urinal.size: 600mm x 390mm x 390mm	No 1	3 300,00	3 300,00
73.	Gypsy vandal resistant urinal.	No 1	2 500,00	2 500,00
	Grab rails, accessories, etc.:			
74.	Cistern rail 670x 246mm (code SR2A)	No 1	781,59	781,59
75.	Straight rail 300x 90mm (SR300)	No 1	1 108,37	1 108,37
76.	Dogleg rail with 2 flanges 300x 300x 300mm (DL3)	No 1	1 211,46	1 211,46
77.	32mm "Bristell Type BGR1" back grab rail 600mm long plugged	No 1	950,00	950,00
78.	32mm "Bristell Type BGR2A" side grab rail 600mm long plugged	No 1	950,00	950,00
	WASTE UNIONS ETC			
	'Cobra Watertech' or equal and approved:			
79.	32mm Chrome plated waste, plug & chain (Provisional).	No 1	167,54	167,54
80.	32mm Chrome plated waste, plug & chain (Provisional)	No 1	167,54	167,54
	uPVC			
81.	40mm Waste union	No 1	162,55	162,55
	TRAPS ETC			
	'Gio' designer plumbing or equal and approved:			
82.	GIO basin waste clicker slotted long, chrome finish (code BW202SL)	No 1	273,72	273,72
	'Cobra' or equal and approved bottle trap:			
83.	32mm 340 CP Bottle trap.	No 1	548,83	548,83
84.	Sink trap code (code TRADUTBAS01)).	No 1	93,43	93,43
85.	DB1 PVC basin trap code (TRADUTBAS01)	No 1	93,76	93,76
86.	Cobra watertech bottle trap code (code 340CP)	No 1	537,78	537,78
	'Cobra Watertech' or other approved			
87.	40mm Brass P-trap	No 1	609,25	609,25
88.	Sink waste (code: 316), catch pit with 70mm diameter flange, 45mm long shank with backnut, plug and chain, unslotted	No 1	198,48	198,48
89.	'Wetfloor 304' seaqual system with stainless steel square hole grate and compliant trap as per manufacturer's specification	No 1	584,54	584,54
90.	40mm Stainless steel basin bottle trap with extension slotted basin clicker waste	No 1	773,34	773,34
	uPVC			
91.	32mm "P" or "S" trap	No 1	200,00	200,00
92.	32mm Bottle trap	No 1	235,00	235,00

	DESCRIPTION		RATE	TOTAL
93.	40mm "P" or "S" trap	No 1	250,00	250,00
94.	40mm Bottle trap	No 1	250,00	250,00
95.	40mm shower trap with chromium plated grating	No 1	300,00	300,00
	Flexi-Rubber			
96.	40mm "P" or "S" trap	No 1	110,00	110,00
97.	32 x 40mm "P" or "S" trap.	No 1	110,00	110,00
98.	32 x 32mm "P" or "S" trap.	No 1	110,00	110,00
99.	40 x 40mm "P" or "S" trap.	No 1	110,00	110,00
100.	40 x 300mm sink combination for double bowl "P" trap	No 1	250,00	250,00
	Brass			
101.	40mm Shower or bath trap with chromium plated grating	No 1	540,00	540,00
	TAPS, VALVES, ETC			
	'Cobra Watertech' or equal and approved:			
102.	20mm Stainless steel fullway isolating ball valve	No 1	301,97	301,97
103.	26mm Stainless steel fullway isolating ball valve	No 1	399,28	399,28
104.	Angle valves 10 x 15mm (code 049070699).	No 1	114,69	114,69
105.	Stella pillar tap with flanged back nut. (code: 3311ST-15)	No 1	395,32	395,32
106.	Strata sink mixer (code SA-870).	No 1	4 845,46	4 845,46
107.	Cobra star high waist pillar tap (code 113)	No 1	1 124,98	1 124,98
108.	Medical elbow action (code 504-21B) and clicker waste slotted long chrome finish (code BW202SL).	No 1	962,28	962,28
109.	'500 Series' elbow action medical pillar tap, code 504-21B, with 'cold' indicator	No 1	2 325,08	2 325,08
110.	Basin clicker waste with no plug and chain chrome finish (code 303)	No 1	117,59	117,59
111.	Junior flushmaster flushvalves (code FJ2.210)	No 1	3 901,08	3 901,08
112.	Junior flushmaster flushvalves (code FJ6.000) and flushpipe (code FJT5.5)	No 1	3 664,75	3 664,75
113.	FJ6000 Chrome plated exposed type toilet flush valve complete	No 3	3 053,36	9 160,08
114.	Angle valve including 350mm flexi hose (code 832/350F)	No 1	194,76	194,76
115.	Shut off value for Bidet set chrome finish (code 832-10)	No 1	126,49	126,49
116.	Bidet handheld shower chrome finish (code ISM)	No 1	594,52	594,52
117.	'Classic' shower tap (LO-228-15) with 'Hot' and 'Cold' indicators including all components in accordance with manufacturer's specification	No 1	566,16	566,16
118.	'Classic' hand shower mixer (LO-249), including all components, fixed to wall in accordance with manufacturer's specifications	No 1	2 789,53	2 789,53
119.	15mm 228-15CP Star undertile stopcock	No 1	617,56	617,56
120.	KP 2.6 Chromium plated vandal resistant single function shower head	No 1	1 602,43	1 602,43
121.	FM100 Flush valve	No 1	6 253,45	6 253,45

	DESCRIPTION		RATE	TOTAL
122.	15mm stopcock.	<u>No 1</u>	250,00	250,00
123.	20mm stopcock.	<u>No 1</u>	300,00	300,00
124.	15mm ballcock.	<u>No 1</u>	350,00	350,00
125.	20mm ballcock.	<u>No 1</u>	400,00	400,00
126.	15mm pillar cock.	<u>No 1</u>	700,00	700,00
127.	20mm pillar cock.	<u>No 1</u>	700,00	700,00
128.	15mm bib cock.	<u>No 1</u>	700,00	700,00
129.	20mm bib cock.	<u>No 1</u>	700,00	700,00
130.	15mm Raised nose pillartap - 3314SB including flexi pipe	<u>No 1</u>	400,00	400,00
131.	20mm Raised nose pillartap - 3314ST including flexi pipe	<u>No 1</u>	400,00	400,00
132.	15mm Bibtap star - 108-15	<u>No 1</u>	260,00	260,00
133.	20mm Bibtap star - 108-20	<u>No 1</u>	400,00	400,00
134.	Basin mixer pillartap with aerator - 3392SB including flexi pipe	<u>No 1</u>	1 500,00	1 500,00
135.	Sink mixer pillartap with aerator - 3396SB, including flexi pipe	<u>No 1</u>	1 200,00	1 200,00
136.	Sink mixer Bibtap with aerator - 3366/041/10SB	<u>No 1</u>	1 100,00	1 100,00
137.	15mm undertile stoptap star - 128-15	<u>No 1</u>	410,00	410,00
138.	20mm undertile stoptap star - 128-15	<u>No 1</u>	700,00	700,00
139.	21mm Medical bibtap - 500-21B (Elbow action)	<u>No 1</u>	1 550,00	1 550,00
140.	21mm Medical pillartap - 503-21B (Elbow action) with flexi pipe	<u>No 1</u>	450,00	450,00
141.	21mm Medical wall bib mixer - 511-21 (Elbow action) with flexi pipe	<u>No 1</u>	6 800,00	6 800,00
142.	21mm Medical pillar mixer - 515-21 (Elbow action) with flexi pipe	<u>No 1</u>	9 700,00	9 700,00
143.	21mm Medical wall mounted bib mixer - 515/055-21 (Elbow action) with flexi pipe	<u>No 1</u>	9 700,00	9 700,00
144.	EL3003 Electronic thermostatic controlled touch-free wash hand basin mixer for wall / twin-hole basin fixing.	<u>No 1</u>	7 800,00	7 800,00
145.	EL3010 Single hole electronic controlled touch-free wash hand basin faucet including blender.	<u>No 1</u>	7 000,00	7 000,00
146.	KD2.204 "Mastertherm II" Thermostatic Temperature Controller.	<u>No 1</u>	9 700,00	9 700,00
147.	15mm "Code KM2.100" metering pillartap	<u>No 1</u>	2 200,00	2 200,00
148.	15mm Extension piece 75mm long	<u>No 1</u>	80,00	80,00
149.	20mm Extension piece 75mm long	<u>No 1</u>	80,00	80,00
150.	15mm Extension piece with sliding wall flange	<u>No 1</u>	80,00	80,00
151.	20mm Extension piece with sliding wall flange	<u>No 1</u>	600	600,00
152.	15mm angle regulating valve	<u>No 1</u>	90,00	90,00
153.	15mm angle regulating valve with 350mm long tube and capnut	<u>No 1</u>	600,00	600,00
154.	Shower head "Code KP2.6"	<u>No 1</u>	900,00	900,00
155.	15mm Overhead shower arm 300mm x 90 degree projection with wall flange and 85mm Ø shower CP rose	<u>No 1</u>	450,00	450,00
156.	15mm Ball joint angle shower connector with fascia wall plate and 85mm Ø shower C	<u>No 1</u>	200	200,00

	DESCRIPTION		RATE	TOTAL
157.	100mm Diameter shower roses.	No 1	500	500,00
158.	Adjustable type shower roses.	No 1	600	600,00
159.	Vandal proof heavy duty shower roses	No 1	900	900,00
160.	20mm Plain bath spout with round wall flange	No 1	600	600,00
161.	20mm Plain square pattern bath spout with round wall flange	No 1	600	600,00
162.	20mm Pillar type plain bath spout with 230mm throw	No 1	600	600,00
163.	20mm "Flushmaster Junior" (FJ2.000) exposed type toilet flush valve CP with integral ball-o-stop valve and wallplate	No 1	2 300,00	2 300,00
164.	20mm "Flushmaster Junior" (FJ4.001) concealed type toilet flush valve BC with integral ball-o-stop valve and captive linkage	No 1	5600	5 600,00
165.	20mm "Flushmaster Junior" (FJ6.000) exposed type urinal flush valve CP with integral ball-o-stop valve and wallplate	No 1	5000	5 000,00
166.	20mm "Flushmaster Junior" (FJ6.000) concealed type urinal flush valve CP with integral ball-o-stop valve and wallplate	No 1	7450	7 450,00
167.	32mm "Standard Flushmaster" (FM1.000) concealed type toilet flush valve CP with integral vacuum breaker, non-return valve, ball-o-stop, wallplate and activation lever	No 1	7 450,00	7 450,00
168.	32mm "Standard Flushmaster" (FM1.100) exposed type toilet flush valve CP with integral vacuum breaker, non-return valve, ball-o-stop, wallplate, activation lever, flush pipe and rubber pan connector	No 1	7450	7 450,00
169.	32mm "Standard Flushmaster" (FM2.000) exposed type toilet back entry flush valve CP with integral vacuum breaker, non-return valve, ball-o-stop and wallplate	No 1	250	250,00
170.	Push button assembly CP with pushrod for concealed flush valves	No 1	500	500,00
171.	Straight bowl type urinal flush pipe and spreader	No 1	500	500,00
172.	Offset bowl type urinal flush pipe and spreader	No 1	300	300,00
173.	22mm CP Straight urinal flush pipe with rubber pipe connector	No 1	2850	2 850,00
174.	22mm CP Bent urinal flush pipe with rubber pipe connector	No 1	260	260,00
175.	25mm CP Straight toilet flush pipe with rubber pipe connector and seat buffer	No 1	300	300,00
176.	25mm CP Bent toilet flush pipe with rubber pipe connector and seat buffer	No 1	300	300,00
177.	38mm CP Straight toilet flush pipe with rubber pipe connector and seat buffer	No 1	350,00	350,00
178.	38mm CP Bent toilet flush pipe with rubber pipe connector and seat buffer	No 1	400,00	400,00
179.	Copper connectors 300mm long.	No 1	70,00	70,00
180.	Copper connectors 450mm long.	No 1	75,00	75,00
181.	Flexible steel braided connectors 300mm long.	No 1	100,00	100,00
182.	Flexible steel braided connectors 450mm long.	No 1	100,00	100,00
	'Geberit' or other approved			
183.	'Geberit Duofix' 111.300.00.1 concealed flushing system complete with 'Geberit Twist' 115.780.xx.1 flush actuator all installed according to the manufactures specifications	No 1	5 848,49	5 848,49
	Brass			
184.	15mm Stopcock.	No 1	200,00	200,00
185.	20mm Stopcock.	No 1	200,00	200,00
186.	20mm Bibtap	No 1	250,00	250,00

	DESCRIPTION		RATE	TOTAL
187.	20mm Hose bibtap	<u>No</u> 1	250,00	250,00
188.	20mm Hose bibtap with lockshield and loose key	<u>No</u> 1	400,00	400,00
189.	20mm stoptap	<u>No</u> 1	250,00	250,00
190.	15mm stoptap with lockshield and loose key	<u>No</u> 1	300,00	300,00
191.	20mm Fullway gate valve	<u>No</u> 1	320,00	320,00
192.	25mm Fullway gate valve	<u>No</u> 1	350,00	350,00
193.	32mm Fullway gate valve	<u>No</u> 1	500,00	500,00
194.	40mm Fullway gate valve	<u>No</u> 1	650,00	650,00
195.	50mm Fullway gate valve	<u>No</u> 1	750,00	750,00
196.	65mm Fullway gate valve	<u>No</u> 1	800,00	800,00
197.	80mm Fullway gate valve	<u>No</u> 1	2 000,00	2 000,00
198.	100mm Fullway gate valve	<u>No</u> 1	3 000,00	3 000,00
199.	15mm Shut off valve.	<u>No</u> 1	100,00	100,00
200.	20mm Shut off valve.	<u>No</u> 1	100,00	100,00
201.	25mm Shut off valve.	<u>No</u> 1	100,00	100,00
202.	50mm Shut off valve.	<u>No</u> 1	150,00	150,00
	'Hansgrohe' or equal and approved:			
203.	HANS GROHE hand shower bidet shower hose & porter, chrome & white polyprop finish (code: HGAC 32129)	<u>No</u> 1	684,84	684,84
	Valsir or equal or approved:			
204.	Push flush plate, polished chrome finish (code VS0871335)	<u>No</u> 1	1 096,65	1 096,65
	SANITARY PLUMBING			
	uPVC soil and vent pipes			
205.	40mm Pipes chased into brickwork.	<u>m</u> 1	82,99	82,99
206.	50mm Pipes chased into brickwork.	<u>m</u> 1	91,80	91,80
207.	56mm Diameter pipes	<u>m</u> 1	102,21	102,21
208.	63mm Diameter pipes	<u>m</u> 1	137,44	137,44
209.	75mm Diameter pipes	<u>m</u> 1	141,34	141,34
210.	110mm Pipes (Provisional).	<u>m</u> 1	150,79	150,79
211.	Floor drain built through to duct with trap in duct area. 1 per Male and Female ablution (refer to WC layouts for positioning)	<u>No</u> 1	2 532,54	2 532,54
	Extra over uPVC soil and vent pipes for fittings			
212.	40mm Bend (Provisional).	<u>No</u> 1	31,61	31,61
213.	50mm Bend (Provisional).	<u>No</u> 1	34,26	34,26
214.	56mm Bends	<u>No</u> 1	93,23	93,23
215.	63mm Bends	<u>No</u> 1	100,75	100,75

	DESCRIPTION		RATE	TOTAL
216.	75mm Bends	No 1	86,72	86,72
217.	110mm Bend (Provisional).	No 1	94,42	94,42
218.	50mm Junction (Provisional).	No 1	46,25	46,25
219.	56mm Junction	No 1	49,18	49,18
220.	63mm Junction	No 1	75,61	75,61
221.	63 x 56mm Junction	No 1	83,25	83,25
222.	75 x 56mm Junction	No 1	158,11	158,11
223.	75 x 63mm Junction	No 1	158,76	158,76
224.	110 x 63mm Junction	No 1	153,74	153,74
225.	110 x 75mm Junction	No 1	173,74	173,74
226.	56mm Rodding eye	No 1	73,50	73,50
227.	63mm Rodding eye	No 1	93,98	93,98
228.	75mm Rodding eye	No 1	113,18	113,18
229.	110mm Rodding eye	No 1	116,03	116,03
230.	110mm Pan connector.	No 1	92,18	92,18
231.	110mm Access end cap.	No 1	114,69	114,69
232.	110mm Access eye cap.	No 1	96,29	96,29
233.	110mm Access junction.	No 1	162,12	162,12
234.	110 x 50mm Reducing junction.	No 1	144,24	144,24
	Testing			
235.	Testing waste pipe system.	Item 1	1 718,54	1 718,54
	SUNDRIES			
	Connection			
236.	Connecting of new drain pipe to existing drainage line including all core drillings and making good necessary	No 1	1 414,69	1 414,69
	WATER SUPPLIES			
	Class 2 copper pipes:			
237.	15mm Pipes chased into brick walls.	m 1	150,34	150,34
238.	22mm Pipes chased into brick walls.	m 1	183,19	183,19
239.	28mm pipes	m 1	150,00	150,00
240.	35mm pipes	m 1	160,00	160,00
	Extra over class 2 copper and polypropylene pipes for brass compression fittings:			
241.	Allowance for connecting new water supply to existing.	Item 1	1 381,50	1 381,50
242.	15mm Fittings.	No 1	83,22	83,22
243.	22mm Fittings.	No 1	140,20	140,20
244.	Allowance for connecting new water supply to existing.	No 1	1 195,96	1 195,96
	'Geberit Mepla' or other approved pipes			

	DESCRIPTION		RATE	TOTAL
245.	16mm Pipes	m 1	104,08	104,08
246.	20mm Pipes	m 1	133,82	133,82
247.	20mm Pipes chased in walls	m 1	131,89	131,89
248.	26mm Pipes	m 1	142,04	142,04
249.	26mm Pipes chased in walls	m 1	137,58	137,58
250.	32mm Pipes	m 1	198,05	198,05
	Extra over 'Geberit Mepla' or other approved for compression fittings			
251.	16mm Fittings	No 1	91,51	91,51
252.	20mm Fittings	No 1	99,73	99,73
253.	26mm Fittings	No 1	108,38	108,38
254.	32mm Bends	No 1	138,74	138,74
	SUNDRIES			
	Connection			
255.	Connecting of new supply pipe to existing supply line including all core drillings and making good necessary	No 1	1 671,14	1 671,14
	ELECTRIC WATER HEATERS			
	'Kwikot' or other approved, including any and all ancillary systems and/or equipment to ensure full operational functionality of the installation			
256.	10 Litre non-pressure open-outlet unit under sink water heater with corrosion resistant copper tank fixed to mixer tap, installed as per the manufacturer's recommendations & specifications	No 1	2 590,66	2 590,66
257.	100L Horizontal electric water heater	No 1	5 284,94	5 284,94
258.	Vacuum breaker	No 1	135,25	135,25
259.	400 kPa pressure reducing valve	No 1	932,62	932,62
	'ZIP' or other approved			
260.	7.5 Litre stainless steel instant boiling Hydroboil installed in accordance with the manufacturer's installation instruction manual	No 1	9 583,07	9 583,07
	HYDRO BOILER supply and install complete with a 1-year warranty			
261.	2.5 Lt Kwikot Kwikboil or equivalent Instant Water Dispensor	No 1	8 000,00	8 000,00
262.	5.0 Lt Kwikot Kwikboil or equivalent Instant Water Dispensor	No 1	9 000,00	9 000,00
263.	7.5 Lt Kwikot Kwikboil or equivalent Instant Water Dispensor	No 1	10 000,00	10 000,00
	Replacement Accessories			
264.	20mm Brass cold water inlet and draincock	No 1	450,00	450,00
265.	20mm Brass temperature and pressure relief valve	No 1	450,00	450,00
266.	Spiral element with thermostat pocket for 2, 3 or 4kW thermostat (thermostat elsewhere).	No 1	450,00	450,00
267.	Sacrificial anode to match existing	No 1	450,00	450,00
268.	2kW thermostat integrated double pole contact	No 1	500,00	500,00
269.	3kW thermostat integrated double pole contact	No 1	600,00	600,00
270.	4kW thermostat integrated double pole contact	No 1	600,00	600,00

	DESCRIPTION		RATE	TOTAL
271.	20mm MI or 22mm CxC Brass vacuum breaker	<u>No</u> 1	400,00	400,00
272.	22mm CxC Brass Hi-Flow Mono 100 or 200kPa pressure control valve with integral expansion relief valve.	<u>No</u> 1	1 800,00	1 800,00
273.	22mm CxC Brass Hi-Flow Mono 400 or 600kPa pressure control valve with integral expansion relief valve.	<u>No</u> 1	1 000,00	1 000,00
274.	20mm MI or 22mm CxC Brass Hi-Flow Mono 100 or 200kPa pressure control valve with integral isolating valve and expansion relief.	<u>No</u> 1	1 800,00	1 800,00
275.	20mm MI or 22mm CxC Brass Hi-Flow Mono 400 or 600kPa pressure control valve with integral isolating valve and expansion relief.	<u>No</u> 1	1 800,00	1 800,00
276.	Masterflo pressure reducing valve.	<u>No</u> 1	1 800,00	1 800,00
277.	Feenix pressure reducing valve.	<u>No</u> 1	1 800,00	1 800,00
278.	Latco pressure reducing valve.	<u>No</u> 1	1 800,00	1 800,00
	TESTING			
	Testing system			
279.	Testing water pipe system	<u>Item</u> 1	2 809,11	2 809,11
	ELECTRIC WATER HEATERS			
	'Lazer' or equal and approved:			
280.	5L E-Boil hydroboil, complete.	<u>No</u> 1	8 761,33	8 761,33
281.	7.5L E-Boil hydroboil including pressure relief valves, etc. complete.	<u>No</u> 1	9 398,06	9 398,06
282.	10 L Prisma under counter hot water cylinder including pressure relief valves, etc. complete.	<u>No</u> 1	2 540,66	2 540,66
	DRIP TRAYS, TANKS, ETC			
	0,6mm Galvanised sheet steel			
283.	Drip tray to suit 100L hot water cylinder with 100mm high upstand with top edge bent over all round including 50mm diameter overflow pipe 2,0m long approximately 3m above floor level	<u>No</u> 1	438,80	438,80
	FIRE APPLIANCES ETC			
	Servicing of existing fire equipment			
284.	Fire hydrant complete according to mechanical engineer specifications	<u>No</u> 1	3 696,55	3 696,55
285.	Fire hose reel with hose, stopcock, shut-off nozzle and wall bracket, etc	<u>No</u> 1	1 469,16	1 469,16
	Hose reels, etc.			
286.	Fire hose reel with a wall-mounted bracket, hose guide, durable nozzle and hose including pipework, breaking in to existing pipework, draining and refilling, etc. complete.	<u>No</u> 1	5 262,86	5 262,86
	Chubb' or similar approved fire extinguisher mounted on 22mm timber backing painted red including fixing to wall:			
287.	4.5kg DCP fire extinguisher.	<u>No</u> 1	585,20	585,20
	Sundries			
288.	Drain water heater, isolate and uncouple water and electrical connections, lift water heater, replace / install new uPVC tray complete with 40mm diameter outlet and discharge pipe not exceeding 5m long, and re-fit connection on completion	<u>No</u> 1	1 400,00	1 400,00
	Testing			
289.	Testing fire water pipe system	<u>No</u> 1	2 021,03	2 021,03

	DESCRIPTION	RATE	TOTAL
	DRAINAGE		
	uPVC pipes and fittings		
290.	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings Soil, waste and vent pipes and fittings shall be solvent weld jointed		
	uPVC pressure pipes and fittings		
291.	Pipes for water supply shall be of the class stated Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints		
	Copper pipes		
292.	Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard) class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fitting to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground		
	Reducing fittings		
293.	Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained.		
	Wire gratings		
294.	Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings		
	Septic tanks		
295.	Description of septic tanks shall be deemed to include excavations, bedding and jointing concrete base slab, jointing to drains and backfilling, compaction, etc all in accordance with manufacturer's instructions		
	Laying, backfilling, bedding, etc of pipes		
296.	Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions Where no manufactures' instructions exist pipes shall be laid in accordance with clause 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding		
	REPLACE DAMAGED UNDERGROUND SEWER PIPE AND FITTINGS		
	Laid in excavations not exceeding 1m deep		
297.	110mm Ø pipe m <u>1</u>	240,00	240,00
298.	160mm Ø pipe m <u>1</u>	260,00	260,00
	Laid in excavations exceeding 1m and not exceeding 2m deep		
299.	110mm Ø pipe m <u>1</u>	260,00	260,00
300.	160mm Ø pipe m <u>1</u>	280,00	280,00
	uPVC fittings		
301.	110mm Access lid no <u>1</u>	195,00	195,00
302.	110mm Gulley grate no <u>1</u>	195,00	195,00
303.	110mm Plain bend no <u>1</u>	195,00	195,00

	DESCRIPTION		RATE	TOTAL
304.	110mm Access bend	<u>no</u> <u>1</u>	195,00	195,00
305.	110mm Plain junction	<u>no</u> <u>1</u>	195,00	195,00
306.	110mm Access junction	<u>no</u> <u>1</u>	195,00	195,00
307.	110mm Rodding eye	<u>no</u> <u>1</u>	195,00	195,00
308.	110mm Gulley head and grate	<u>no</u> <u>1</u>	195,00	195,00
309.	110mm Gulley 'P' trap	<u>no</u> <u>1</u>	195,00	195,00
310.	160mm Access lid	<u>no</u> <u>1</u>	195,00	195,00
311.	160mm Plain bend	<u>no</u> <u>1</u>	195,00	195,00
312.	160mm Access bend	<u>no</u> <u>1</u>	195,00	195,00
313.	160mm Plain junction	<u>no</u> <u>1</u>	195,00	195,00
314.	160mm Access junction and cover	<u>no</u> <u>1</u>	195,00	195,00
315.	160mm Rodding eye	<u>no</u> <u>1</u>	195,00	195,00
316.	160 x 110mm Taper pipe	<u>no</u> <u>1</u>	195,00	195,00
	REPLACE DAMAGED GRATINGS, MANHOLE COVERS, ETC.			
	Carefully break out from concrete existing damaged frame and grating or manhole cover replace with new including making good all existing finishers and leave in good working order.			
317.	560mm Diameter 125mm thick precast concrete removable cover	<u>no</u> <u>1</u>	1 200,00	1 200,00
318.	300 x 300mm x 10,3kg square dished grating,cover and frame	<u>no</u> <u>1</u>	1 200,00	1 200,00
319.	300 x 450mm x 53,2kg stormwater grating cover and frame	<u>no</u> <u>1</u>	1 700,00	1 700,00
320.	450 x 450mm x 28,5kg Type 14B cast iron single seal manhole cover and frame.	<u>no</u> <u>1</u>	4 000,00	4 000,00
321.	450 x 600mm x 68kg Type 9D cast iron single seal manhole cover and frame.	<u>no</u> <u>1</u>	4 000,00	4 000,00
322.	530 x 530mm x 67kg Type 12 cast iron single seal manhole cover and frame.	<u>no</u> <u>1</u>	4 000,00	4 000,00
323.	450 x 600mm x 72kg Type 8A cast iron double seal manhole cover and frame.	<u>no</u> <u>1</u>	4 000,00	4 000,00
324.	550mm Diameter type 4 circular road manhole cover excluding frame.	<u>no</u> <u>1</u>	4 000,00	4 000,00
	CONSTRUCTED NEW INSPECTION CHAMBER			
	Excavate in earth or pickable material for, and build inspection chamber with 150mm thick 15MPa/20mm concrete bottom extending 100mm all round manhole perimeter, with one brick sides of 14MPa bricks in class I mortar, the internal faces of brickwork rendered in one coat cement plaster steel trowelled smooth and covered with a 150mm thick 25MPa/20mm concrete top of walls to finish flush with surface of ground and finished on exposed faces with 25mm thick untinted granolithic with all salient angles rounded and rebated on the inner edges for manhole cover and frame (elsewhere measured); the bottom to be benched up in 15MPa/20mm concrete finished smooth including backfilling and compacting to external walls as required.			
326.	Inspection chamber 450 x 600mm and not exceeding 750mm deep internally.	<u>no</u> <u>1</u>	5 300,00	5 300,00
327.	Inspection chamber 900 x 600mm and exceeding 750mm and not exceeding 1000mm deep internally.	<u>no</u> <u>1</u>	7 000,00	7 000,00
328.	Inspection chamber 900 x 600mm and exceeding 1000mm and not exceeding 1250mm deep internally.	<u>no</u> <u>1</u>	9 000,00	9 000,00
329.	Inspection chamber 900 x 900mm and exceeding 1250mm and not exceeding 1500mm deep internally.	<u>no</u> <u>1</u>	10 500,00	10 500,00
	WATER TANKS - To roofs			
	Supply and install water tanks to roof complete with connectors, pipes,			

	DESCRIPTION		RATE	TOTAL
	valves, taps, etc. 40mm tank connector, Inlet and over flow with a 40mm fitting, 450mm lid on top of tank. Including hoisting to up to 12m high roof. Pumps measured elsewhere			
330.	2 500 Lt Jojo or equivalent Vertical Water Tank	<u>no</u> <u>1</u>	7 000,00	7 000,00
331.	5 000 Lt Jojo or equivalent Vertical Water Tank	<u>no</u> <u>1</u>	11 000,00	11 000,00
332.	10 000 Lt Jojo or equivalent Vertical Water Tank	<u>no</u> <u>1</u>	25 000,00	25 000,00
333.	15 000 Lt Jojo or equivalent Vertical Water Tank	<u>no</u> <u>1</u>	38 000,00	38 000,00
334.	20 000 Lt Jojo or equivalent Vertical Water Tank	<u>no</u> <u>1</u>	55 000,00	55 000,00
	TOTAL - BILL NO. 17 - PLUMBING AND DRAINAGE			707 166,90

	DESCRIPTION		RATE	TOTAL
	<u>BILL NO. 18</u>			
	<u>GLAZING</u>			
	GLAZING TO STEEL WITH PUTTY			
	4mm clear float glass			
1.	Panes exceeding 0,1m2 and not exceeding 0,5m2 in existing frame <u>No 1</u>		577,50	577,50
	4mm obscure glass			
2.	Panes exceeding 0,1m2 and not exceeding 0,5m2 in existing frame <u>No 1</u>		714,00	714,00
	6mm clear float glass			
3.	Panes exceeding 0,1m2 and not exceeding 0,5m2 in existing frame <u>No 1</u>		682,50	682,50
	OBSCURE FILM			
	Obscure film / vinyl applied to glazed aluminium windows, doors and shopfronts (glazed aluminium elsewhere measured)			
4.	Glazed aluminium shopfront <u>m² 1</u>		555,99	555,99
5.	Glazed aluminium screen <u>m² 1</u>		562,98	562,98
6.	Glazed aluminium window <u>m² 1</u>		571,74	571,74
	MIRRORS			
	5mm Silvered float glass copper backed mirrors with bevelled edges, holed for and fixed with chromium plated dome capped mirrors screws and rubber buffers to plugs in brickwork:			
7.	370 x 450mm High. <u>No 1</u>		507,90	507,90
8.	450 x 900mm High. <u>No 1</u>		975,16	975,16
9.	600 x 900mm high (SNP) <u>No 1</u>		1 184,80	1 184,80
10.	1 100 x 600mm high. <u>No 1</u>		1 807,05	1 807,05
11.	1 800 x 600mm high. <u>No 1</u>		1 696,41	1 696,41
12.	1 500 x 900mm high. <u>No 1</u>		2 974,21	2 974,21
	TOTAL - BILL NO. 18 - GLAZING			12 810,22

	DESCRIPTION	RATE	TOTAL
	BILL NO. 19		
	PAINTWORK		
	PAINTWORK ETC TO NEW WORK		
	ON INTERNAL FLOATED PLASTER SURFACES		
	Prepare surfaces and remove all loose or flaking material, ensure surface is dry & dust free and apply one coat colour retaining primer and two coats water-based, approved paint for interior use on:		
1.	On walls. m² 1	64,01	64,01
2.	On ceilings and cornices. m² 1	51,68	51,68
3.	On ceilings and bulkheads m² 1	44,40	44,40
	ON PLASTERBOARD SURFACES		
	One coat alkali resistant primer and two coats superior quality acrylic emulsion approved paint for interior and exterior use		
4.	On drywall partitioning m² 1	53,59	53,59
5.	On ceilings and cornices m² 1	58,57	58,57
	ON METAL SURFACES		
	Prepare surfaces & remove all loose or flaking material, ensure surface is dry and dust free and apply one coat Metalprime and apply one undercoat and two coats approved paint		
6.	On door frames. m² 1	79,22	79,22
	ON METAL SURFACES		
	Spot priming defects in pre-primed surfaces with zinc chromate primer and one undercoat and two coats high gloss alkyd enamel paint on steel		
7.	On door frames. m² 1	57,56	57,56
	ON WOOD SURFACES		
	Two coats oil wood primer		
8.	On backs of frames, linings, etc. not exceeding 300mm wide m 1	12,79	12,79
	Prepare surfaces and remove all loose or flaking material, ensure surface is dry and dust free and apply one coat of wood Primer and two coats of approved paint for interior use on:		
9.	On doors. m² 1	55,66	55,66
10.	On door frames. m² 1	55,66	55,66
11.	Skirtings, rails, etc not exceeding 300mm girth. m 1	33,84	33,84
	PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK		
	ON INTERNAL FLOATED PLASTER SURFACES		
	Prepare surfaces and remove all loose or flaking material, ensure surface is dry and dust free apply one undercoat and two coats of approved paint for interior use on:		
12.	On walls. m² 1	44,93	44,93
	ON WOOD SURFACES		

	DESCRIPTION	RATE	TOTAL
	Two coats superior quality clear matt varnish on work in poor condition		
13.	On window cills not exceeding 300mm girth m 1	31,85	31,85
	One coat wood primer, one coat universal undercoat and two coats high gloss alkyd enamel paint		
14.	On window cill m² 1	69,36	69,36
	Prepare surfaces and remove all loose or flaking material, ensure surface is dry and dust free and apply one coat primer and two coats approved paint for interior use on:		
15.	On windows (Provisional) m² 1	52,47	52,47
17.	On doors. m² 1	50,96	50,96
18.	On door frames. m² 1	50,96	50,96
19.	Skirtings, rails, etc not exceeding 300mm girth m 1	24,39	24,39
	ON SMOOTH CONCRETE		
	Prepare surfaces and remove all loose or flaking material, ensure surface is dry and dust free and apply one coat of Plaster Primer and two coats of approved paint for interior use on:		
20.	On ceilings and beams. m² 1	63,65	63,65
	Prepare surfaces and remove all loose or flaking material, fill holes with appropriate filler, ensure surface is dry and dust free and apply one coat sealer and two coats floor coating system or equal and approved paint for interior use on:		
21.	On existing screeded floors. m² 1	126,03	126,03
	TOTAL - BILL NO. 19 - PAINTWORK		1 081,58
	<u>BILL NO. 20</u>		
	<u>EXTERNAL WORKS</u>		
	SUPPLEMENTARY PREAMBLES		
	Carting away of excavated material		
	Description of carting away of excavated material shall deemed to include loading of excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site.		
	Concrete pipes		
	Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings		
	uPVC pipes and fittings		
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings Soil, waste and vent pipes and fittings shall be solvent weld jointed		
	uPVC pressure pipes and fittings		
	Pipes for water supply shall be of the class stated Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose socket fittings		
	Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bens shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints with solvent welded uPVC loose socket fittings		

	DESCRIPTION	RATE	TOTAL
	Exposed concrete surfaces Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc. shall be finished smooth with plaster Excavations No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling "Soft rock" and "hard rock" shall be as defined in "Earthworks" Laying, backfilling, bedding, etc. of pipes Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions The selection of the imported "borrow pit" pipe bending material for classB,C or flexible pipe beddings shall be done by the contractor, and all the tendered rates for the imported material shall be deemed to include for the necessary selection of material. The selection of the imported "borrow pit" pipe bending material for classB,C or flexible pipe beddings shall be done by the contractor, and all the tendered rates for the imported material shall be deemed to include for the necessary selection of material. Where no manufacturers' instructions exist, pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches, etc. shall be backfilled in accordance with clauses3, 5.5, 5.6, 5.7 and 7 of SABS 1200 LB : Bedding (Pipes) Unless otherwise described, bedding of rigid pipes shall be class B bedding Unless otherwise described, bedding of rigid pipes shall be class B bedding "Densyl" petrolatum anti-corrsion tape as manufactured by Denso SA (Pty) Ltd or equally approved Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described Couplings and fittings to pipes shall be taped in strict accordance with the manufacturers instructions, including all mastic tape "Layflat" sheeting, securing of same, etc. Unless otherwise described, bedding of rigid pipes shall be class B bedding		
1.	Site clearance Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc. m² 1 NOTE. Road construction materials shall conform to the requirements of TRH 14: Guidelines for road construction materials	R15,75	R 15,75
2.	Approved G7 material for use in backfilling under walkways, paths and islands in 150mm thick layers compacted to 90% Modified AASHTO density m³ 1	R409,50	R 409,50
3.	Selected G6 type material compacted in 150mm layers to 93% Modified AASHTO density m³ 1	R441,00	R 441,00
4.	150mm Sub-base layer G5 type material stabilized with 3% cement to obtain a C4 material compacted to 95% Modified AASHTO density m³ 1	R588,00	R 588,00

	DESCRIPTION		RATE		TOTAL
	Compaction of surfaces				
5.	Compaction of ground surface under roads and parking areas including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m ² 1	R73,50	R	73,50
	Tests				
6.	"Modified AASHTO Density" test to 93%	no 1	R735,00	R	735,00
	Soil poisoning (In confined areas)				
7.	"Trimex-S" weedkiller mixed 30g/l water and applied at a rate of 1 litre/10m2 under road, parking and walkway paving	m ² 1	R36,75	R	36,75
	Precast concrete block road surfacing				
	Paving is to be laid in accordance with SABS 1200 MJ, SABS 1058 and the Concrete Masonry Association's specifications				
	Paving is to be laid in herringbone pattern on 25mm (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere)				
	Clean sand is to be swept into joints between roadstones				
	ASPHALT				
	Tar Surfacing (Parking and walkways)				
8.	Tar road resurfacing and making good	m ² 1	R241,50	R	241,50
9.	Tar road resurfacing and making good in bad condition	m ² 1	R304,50	R	304,50
10.	Saw-cutting asphalt(tar)	m 1	R47,25	R	47,25
	PAVING				
	Lifting up, setting aside and re-laying paving blocks including backfilling and 20mm bedding sand				
11.	Precast concrete paving to falls	m ² 1	R220,50	R	220,50
	60mm Standard grey "Concor Double Zig-Zag" interlocking roadstone paving or equally approved (For low traffic-All inclusive trade) Including earthworks, 25mm thick river sand bed with sand swept into joints including preparation of ground or filling etc				
12.	Paving to roads, parking areas, etc. to slight falls	m ² 1	R367,50	R	367,50
13.	Joint of new paving or concrete edge beam to existing paving including all cutting, waste, filling of openings with concrete, etc.	m 1	R126,00	R	126,00
	80mm Standard grey "Concor Double Zig-Zag" interlocking roadstone paving or equally approved (For low traffic-All inclusive trade) Including earthworks, 25mm thick river sand bed with sand swept into joints including preparation of ground or filling etc				
14.	Paving to roads, parking areas, etc. to slight falls	m ² 1	R409,50	R	409,50
15.	Joint of new paving or concrete edge beam to existing paving including all cutting, waste, filling of openings with concrete, etc.	m 1	R126,00	R	126,00
16.	Vertical kerb (SABS 927 fig 7) 180 x 280mm high in 1 000mm sections with 13mm thick softboard expansion joints at 20 000mm centres complete with 250 x 180mm thick class 15Mpa/19mm unreinforced cast in-situ concrete continuous anchor block strip for the full length at back of kerbing including excavation, backfilling, etc.	m 1	R294,00	R	294,00
17.	Semi-mountable kerb (SABS 927 fig 7 laid flat on back) 180 x 280mm high in 1 000mm sections with 13mm thick softboard expansion joints at 20 000mm centres complete with 250 x 180mm thick class 15Mpa/19mm unreinforced				

	DESCRIPTION		RATE	TOTAL
	cast in-situ concrete continuous anchor block strip for the full length at back of kerbing, circular on plan to not exceeding 4 000mm radius formed with short lengths (maximum 300mm long) of straight kerb including excavation, backfilling, etc.	m 1	R294,00	R 294,00
	SABS 731-1987 yellow or white roadmark paint on paving at a rate of 1 litre/m2			
18.	Line 100mm wide	m 1	R42,00	R 42,00
19.	Line 100mm wide (RTM 1)	m 1	R21,00	R 21,00
20.	Numeral or letter 400mm high	no 1	R189,00	R 189,00
21.	Numeral or letter 1250mm high (GM7)	no 1	R189,00	R 189,00
22.	Traffic arrow 1250 x 500mm wide extreme (G M4.1)	no 1	R189,00	R 189,00
23.	Information sign for "people with disability" parking in 150mm wide lines	m ² 1	R189,00	R 189,00
	FENCING			
	Mild steel welded palisade fence including spot prime exposed metal surfaces and and two coats high gloss enamel paint			
24.	Palisade fence 1800mm high of 40 x 40 x 3mm angle section continuous top and bottom rails and 30 x 30 x 3mm angle section pickets with top end split and sharpened at average 150mm centres, welded to rails, rails welded 2200mm high posts of 76 x 76 x 5mm square tube with steel pyramid shaped capping on top at 2475mm centres with 500mm bottom ends cast into and including 15Mpa concrete footing in ground including excavation, ramming, removal of spoil and leaving clean and neat	m 1	R1 365,00	R 1 365,00
25.	Palisade fence 2400mm high of 40 x 40 x 3mm angle section continuous top and bottom rails and 30 x 30 x 3mm angle section pickets with top end split and sharpened at average 150mm centres, welded to rails, rails welded 2600mm high posts of 76 x 76 x 5mm square tube with steel pyramid shaped capping on top at 2475mm centres with 500mm bottom ends cast into and including 15Mpa concrete footing in ground including excavation, ramming, removal of spoil and leaving clean and neat	m 1	R1 732,50	R 1 732,50
26.	Palisade pedestrian gate 900mm wide x 1800mm high overall, formed of 150 x 75 x 3mm thick hollow section frame, 100 x 75 x 3mm thick hollow section middle rail and cross bracing bars and with 25 x 25 x 2.5mm thick angle section spiked vertical bars at maximum 143mm centres welded to frame, middle rail and cross bracing bars complete with approved heavy duty hinges, security type locking device suitable for hand operated control, completely installed and painted	no 1	R3 990,00	R 3 990,00
27.	Palisade fence vehicle sliding gate 6000mm wide x 1800mm high overall, formed of 150 x 75 x 3mm thick hollow section frame, 100 x 75 x 3mm thick hollow section middle rail and cross bracing bars and with 25 x 25 x 2.5mm thick angle section spiked vertical bars at maximum 143mm centres welded to frame, middle rail and cross bracing bars complete with approved heavy duty castors, steel track cast in or bolted to and including concrete rail footing, security type locking device suitable for hand operated control rail, gate stops, gate guides, etc. completely installed and painted	no 1	R14 700,00	R 14 700,00
28.	Palisade fence vehicle sliding gate 6000mm wide x 1800mm high overall, formed of 150 x 75 x 3mm thick hollow section frame, 100 x 75 x 3mm thick hollow section middle rail and cross bracing bars and with 25 x 25 x 2.5mm thick angle section spiked vertical bars at maximum 143mm centres welded to frame, middle rail and cross bracing bars complete with approved heavy duty castors, steel track cast in or bolted to and including concrete rail footing, security type locking device suitable for hand operated control rail, gate stops, gate guides, etc. completely installed and painted	no 1	R18 900,00	R 18 900,00
29.	Palisade fence vehicle swing double gate 6000mm wide x 1800mm high overall, formed of 150 x 75 x 3mm thick hollow section frame, 100 x 75 x 3mm thick			

	DESCRIPTION		RATE	TOTAL
	hollow section middle rail and cross bracing bars and with 25 x 25 x 2.5mm thick angle section spiked vertical bars at maximum 143mm centres welded to frame, middle rail and cross bracing bars complete with approved heavy duty castors, etc. completely installed and painted	no 1	R14 175,00	R 14 175,00
	Concrete Palisade Fence			
30.	Palisade fence 1800mm high of stacked slats, slid in-between 2300mm high posts of 110 x 70mm H-section post at 1500mm centres with 500mm bottom ends cast into and including 15Mpa concrete footing in ground including excavation, ramming, removal of spoil and leaving clean and neat	m 1	R1 522,50	R 1 522,50
31.	Palisade fence 2400mm high of stacked slats, slid in-between 2900mm high posts of 110 x 70mm H-section post at 1500mm centres with 500mm bottom ends cast into and including 15Mpa concrete footing in ground including excavation, ramming, removal of spoil and leaving clean and neat	m 1	R1 785,00	R 1 785,00
	Precast Concrete Fence			
32.	Precast slatted fence 1200mm high of 110 x 70mm section continuous top and bottom rails and 140 x 70mm section with top end mitred at average 150mm centres, bolted to rails, rails bolted 2200mm high posts of 140 x 140mm square post at 2475mm centres with 500mm bottom ends cast into and including 15Mpa concrete footing in ground including excavation, ramming, removal of spoil and leaving clean and neat	m 1	R1 470,00	R 1 470,00
33.	Precast slatted fence 1800mm high of 110 x 70mm section continuous top and bottom rails and 140 x 70mm section with top end mitred at average 150mm centres, bolted to rails, rails bolted 2200mm high posts of 140 x 140mm square post at 2475mm centres with 500mm bottom ends cast into and including 15Mpa concrete footing in ground including excavation, ramming, removal of spoil and leaving clean and neat	m 1	R1 785,00	R 1 785,00
34.	Precast slatted fence 2000mm high of 110 x 70mm section continuous top and bottom rails and 140 x 70mm section with top end mitred at average 150mm centres, bolted to rails, rails bolted 2200mm high posts of 140 x 140mm square post at 2475mm centres with 500mm bottom ends cast into and including 15Mpa concrete footing in ground including excavation, ramming, removal of spoil and leaving clean and neat	m 1	R1 470,00	R 1 470,00
35.	Precast slatted fence 2400mm high of 110 x 70mm section continuous top and bottom rails and 140 x 70mm section with top end mitred at average 150mm centres, bolted to rails, rails bolted 2200mm high posts of 140 x 140mm square post at 2475mm centres with 500mm bottom ends cast into and including 15Mpa concrete footing in ground including excavation, ramming, removal of spoil and leaving clean and neat	m 1	R1 995,00	R 1 995,00
	Diamond Wire Mesh			
36.	70 x 70mm Galvanised diamond wire mesh fence 1200mm high with seven horizontal strand wire of 2.9mm diameter fixed to posts, y-standards, droppers, etc with posts at 2475mm centres with 500mm bottom ends cast into and including 15Mpa concrete footing in ground including excavation, ramming, removal of spoil and leaving clean and neat	m 1	R630,00	R 630,00
37.	70 x 70mm Galvanised diamond wire mesh fence 1800mm high with seven horizontal strand wire of 2.9mm diameter fixed to posts, y-standards, droppers, etc with posts at 2475mm centres with 500mm bottom ends cast into and including 15Mpa concrete footing in ground including excavation, ramming, removal of spoil and leaving clean and neat	m 1	R735,00	R 735,00
38.	70 x 70mm Galvanised diamond wire mesh fence 2000mm high with seven horizontal strand wire of 2.9mm diameter fixed to posts, y-standards, droppers, etc with posts at 2475mm centres with 500mm bottom ends cast into and including 15Mpa concrete footing in ground including excavation, ramming, removal of spoil and leaving clean and neat	m 1	R840,00	R 840,00
39.	70 x 70mm Galvanised diamond wire mesh fence 2400mm high with seven			

	DESCRIPTION		RATE	TOTAL
	horizontal strand wire of 2.9mm diameter fixed to posts, y-standards, droppers, etc with posts at 2475mm centres with 500mm bottom ends cast into and including 15Mpa concrete footing in ground including excavation, ramming, removal of spoil and leaving clean and neat	m 1	R945,00	R 945,00
40.	Post 2000 x 101 x 3mm hot dipped galvanised	no 1	R525,00	R 525,00
41.	Stay 2000 x 48 x 2m hot dipped galvanised	no 1	R472,50	R 472,50
42.	Y - standard 1850mm	no 1	R315,00	R 315,00
	Razor flat-wrap			
43.	To top or bottom of fence	no 1	R168,00	R 168,00
44.	Razor Barbed Wire	no 1	R199,50	R 199,50
	CARPOTS WITH ROOF SHEETING TO SLIGHT FALLS			
	Carpots comprising the following: concrete foundations for columns to be 20Mpa concrete, 500 x 500 x 600mm deep including all excavations, backfilling, compaction, carting away, etc; columns 76 x 76 x 3mm hot rolled tubing with 150 x 150 x 3mm base plates and 200 x 70 x 6mm top flanges; columns 2600mm minimum height, beams; 76 x 76 x3mm hot rolled tubing with closed ends; beams bolted to columns with two 10 x 100mm bolts and nuts at each column; purlins; 150 x 75 x 20 x3mm hot rolled lipped channels bolted to cleats on beams with 0.5mm thick chromadek finished IBR profile roof sheeting; all steelwork cleaned with degreaser and painted with one each of red oxide and universal primer with two coats enamel paint			
45.	Carpot comprising one bay, 2,5 x 5,0m on plan, including cutting of existing paving blocks around columns	no 1	R9 450,00	R 9 450,00
46.	Range of carpots (one row) comprising two bays, each bay 2,5 x 5,0m on plan, with carpot structure stepped over sloping site if required, including cutting of existing paving blocks around columns	no 1	R16 800,00	R 16 800,00
47.	Range of carpots (one row) comprising three bays, each bay 2,5 x 5,0m on plan, with carpot structure stepped over sloping site if required, including cutting of existing paving blocks around columns	no 1	R24 150,00	R 24 150,00
48.	Range of carpots (one row) comprising four bays, each bay 2,5 x 5,0m on plan, with carpot structure stepped over sloping site if required, including cutting of existing paving blocks around columns	no 1	R33 600,00	R 33 600,00
49.	Range of carpots (one row) comprising five bays, each bay 2,5 x 5,0m on plan, with carpot structure stepped over sloping site if required, including cutting of existing paving blocks around columns	no 1	R39 900,00	R 39 900,00
50.	Range of carpots (one row) comprising six bays, each bay 2,5 x 5,0m on plan, with carpot structure stepped over sloping site if required, including cutting of existing paving blocks around columns	no 1	R47 250,00	R 47 250,00
	PHYSICAL BARRIERS			
	BOOM GATES			
51.	Steel boom gates not exceeding 6000mm long	no 1	R23 100,00	R 23 100,00
	BOLLARDS			
52.	200mm Diameter precast concrete bollards not exceeding 1500mm	no 1	R945,00	R 945,00
53.	200mm Diameter steel bollards with concrete infill not exceeding 1500mm	no 1	R1 155,00	R 1 155,00

	DESCRIPTION	RATE	TOTAL
54.	400 x 400mm precast concrete dustbin not exceeding 1500mm high CONCRETE CHANNEL 25Mpa/19mm	R1 995,00	R 1 995,00
55.	600X150mm thick concrete stormwater channel including all necessary excavations,casting and laying in panels,formwork,soft board and finishing smooth	R1 102,50	R 1 102,50
TOTAL - BILL NO. 20 - EXTERNAL WORKS			274 716,75

	DESCRIPTION	RATE	TOTAL
SECTION 2.1 : GDSD FRAMEWORK BOQ			
COMMON RATES			
SUMMARY			
BILL NO.	TRADE		TOTAL
1	ALTERATIONS	R	48 923,01
2	EARTHWORKS	R	10 219,15
3	CONCRETE FORMWORK AND REINFORCEMENT	R	66 324,91
4	PRECAST CONCRETE	R	2 529,19
5	MASONRY	R	144 671,27
6	WATERPROOFING	R	1 778,89
7	ROOFWORKS	R	2 913,75
8	CARPENTRY AND JOINERY	R	84 429,83
9	CEILINGS, PARTITIONS AND ACCESS FLOORING	R	227 219,70
10	JOINERY FITTINGS	R	4 284,46
11	FLOOR COVERINGS	R	1 723,87
12	IRONMONGERY	R	165 556,88
13	STRUCTURAL STEELWORK	R	84 913,69
14	METALWORK	R	249 881,51
15	PLASTERING	R	178 761,42
16	TILING	R	7 408,72
17	PLUMBING AND DRAINAGE	R	707 166,90
18	GLAZING	R	12 810,22
19	PAINTWORK	R	1 081,58
20	EXTERNAL WORKS	R	274 716,75
	TOTAL: EMERGENCY & PLANNED MAINTENANCE OF GENERAL BUILDINGS	R	2 002 598,95

SECTION 3 : ELECTRICAL WORK			
COMMON RATES			
	DESCRIPTION	RATE	TOTAL
	BILL NO. 1 P&Gs		
1	Electrical Rates to include all P&G Costs related to the Electrical Installation		R189 000,00
	Carried to Summary		R189 000,00

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION	RATE	TOTAL
	<u>BILL NO. 2</u>		
	<u>MAIN LV ROOM</u>		
	To test and prove that the existing sub main cables from the Main Switchboard (Basement) to the existing SDBs (general electrical services) and AC control panel on respective floors are in good condition and comply with SANS 10142		
1	Disconnect neutral conductors at switch off circuit breakers at Main Switchboard and respective sub distribution boards and megger test cable and report to Engineer		
	sum 1	R 5 111,13	R 5 111,13
2	Disconnect earthing main earth conductors, test continuity and earth values and report to Engineer		
	sum 1	R 5 536,38	R 5 536,38
3	Reinstate as per original		
	sum 1	R 5 303,18	R 5 303,18
4	Provide rates for replacing of sub main's cables if required		
	sum 1	R 2 860,01	R 2 860,01
5	Remove existing cables		
	sum 1	R 3 537,58	R 3 537,58
6	Supply and install new 50mm ² x 4 c XLPE /SWA/PVC sheathed cable installed on existing cable trays		
	m 140	R 290,00	R 40 600,00
7	Insulated earthing conductor upto 35mm ²		
	m 140	R 55,00	R 7 700,00
8	Terminating and reconnecting of cable 50mm ² x 4 c XLPE /SWA/PVC sheathed cable		
	no 4	R 800,00	R 3 200,00
	Open existing floor penetrations in cable duct adjacent to the lift for passing of the cable if required, reinstate and fire seal.		
9	Floor Penetrations		
	sum 1	R 5 500,00	R 5 500,00
10	Contractors handling charges on Provisional sum		
	%	15%	R 825,00
11	Liaise with Maintenance department for Access to LV Room		
	sum 1	R 2 500,00	R 2 500,00
	Carried to Summary		R 82 673,28

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION	RATE	TOTAL
	<u>BILL NO. 3</u> <u>LV RETICULATION</u> For the supply, installation and connecting inclusive of all supervision, labour, materials & waste, fixing materials, hoisting equipment, traveling costs and storage of:- 9 Dorp Street SDB -5.1 (General Electrical distribution board located in riser shaft adjacent to lift shaft) 1. Disconnect and remove all circuit circuit breakers, wiring and circuit breaker mounting frame sum 1 R 1 500,00 R 1 500,00 2. Supply and install new back entry distribution board complete as per the schematic diagram and install over existing switchboard. The new distribution board to cover the existing frame work of the existing Distribution Board sum 1 R 63 354,19 R 63 354,19 27 Wale Street SDB 6.1 (General Electrical) 6th floor 3. Disconnect and remove existing circuit breakers and cradles from existing distribution board sum 1 R 2 216,00 R 2 216,00 4. Construct and install a new back entry distribution board Distribution board to match the existing distribution board complete with all Surge arrestors, circuit breakers and provision for Smart metering as per the Line Diagram sum 1 R 69 986,19 R 69 986,19 SDB 6.2 (General Electrical) 6th floor 5. Disconnect and remove existing circuit breakers and cradles from existing distribution board sum 1 R 2 216,00 R 2 216,00 6. Construct and install a new back entry distribution board to match the existing distribution board complete with all Surge arrestors, circuit breakers and provision for Smart metering as per the Line Diagram sum 1 R 30 822,67 R 30 822,67 4 Dorp Street SDB 12.1 (General Electrical) 7. Disconnect and remove existing circuit breakers and cradles from existing distribution board sum 1 R 2 216,00 R 2 216,00 8. Construct and install a new back entry distribution board to match the existing distribution board complete with all Surge arrestors, circuit breakers and provision for Smart metering as per the Line Diagram sum 1 R 30 822,67 R 30 822,67		

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION		RATE	TOTAL
	SDB 12.2 (General Electrical)			
9.	Disconnect and remove existing circuit breakers and cradles from existing distribution board	sum 1	R 2 216,00	R 2 216,00
10.	Construct and install a new back entry distribution board Distribution board to match the existing distribution board complete with all Surge arrestors, circuit breakers and provision for Smart metering as per the Line Diagram	sum 1	R 30 122,00	R 30 122,00
	Test all existing circuits and provide new Legend cards	sum 5	R 2 265,33	R 11 326,65
11.	Provision for new Cables (CU) (PVC/SWA/ECC) installed on cable trays			
	50mm ² x 4c+35 bcew (Provisional for replacing existing sub main cable Main board to SDB .2) 6th floor	m	R 1 130,00	Rate only
12.	35mm ² x 4c+16mm ² ins earth 6th floor	m 100	R 710,00	R 71 000,00
13.	25mm ² x 4c+16mm ² ins earth	m	R 620,00	Rate only
14.	16mm ² x 4c+10mm ² ins earth	m	R 410,00	Rate only
15.	10mm ² x 4c+6mm ² ins earth	m	R 350,00	Rate only
16.	6mm ² x 4c+4mm ² ins earth	m 10	R 310,00	R 3 100,00
17.	6mm ² x 2c+4mm ² ins earth	m	R 210,00	Rate only
18.	50 BCE (Provisional for replacing existing earth cable from Main board to SDB 12.1&12.2)	m 100	R 71,66	R 7 166,00
	Terminations (PVCSWAPVC)			
19.	50mm ² x 4c+35 bcew (Provisional for replacing existing sub main cable Main board to SDB .2) 6th floor	no	R 1 200,00	Rate only
20.	35mm ² x 4c+16mm ² ins earth 6th floor	no 2	R 1 200,00	R 2 400,00
21.	25mm ² x 4c+16mm ² ins earth	no	R 800,00	Rate only
22.	16mm ² x 4c+10mm ² ins earth	no	R 800,00	Rate only
23.	10mm ² x 4c+6mm ² ins earth	no	R 500,00	Rate only
24.	6mm ² x 4c+4mm ² ins earth	no 2	R 250,00	R 500,00
25.	6mm ² x 2c+4mm ² ins earth	no	R 250,00	Rate only
26.	50 BCE (Provisional for replacing existing earth cable from Main board to SDB 12.1&12.2)	no 2	R 210,00	R 420,00

	DESCRIPTION		RATE		TOTAL
	<u>BILL NO. 4</u>				
	<u>WIREWAYS</u>				
	For the supply, installation and connecting inclusive of all supervision, labour, materials & waste, fixing materials, hoisting equipment, traveling costs and storage of:-				
	The Rate for all galvanised cable trays, elbows, Tee- sections and crossovers to include for chemically cleaning and have cable tray powder coated to a standard powder coating range of colours to be selected by the Architect at a later date				
	Galvanised medium duty cable (Return flange) trays (suspended from sofit of concrete ceiling inclusive of 2 x stainless steel rope hangers, gripple cleats and 8mm anchor bolts with eye bolts spaced at 1,5m centres				
1.	100	m 90	R	190,54	R 17 148,74
2.	225	m	R	265,98	Rate only
3.	300	m 550	R	271,10	R 149 102,25
	Tee Pieces				
4.	100	no 18	R	195,77	R 3 523,77
5.	225	no	R	299,66	Rate only
6.	300	no 39	R	319,25	R 12 450,89
	Elbows				
7.	100	no 18	R	157,53	R 2 835,48
8.	225	no	R	213,90	Rate only
9.	300	no 10	R	212,27	R 2 122,73
	Cross Overs				
10.	100	no	R	266,55	Rate only
11.	225	no	R	465,39	Rate only
12.	300	no 10	R	340,15	R 3 401,48
	Wire mesh tray does not require to be powder coated				
	The Rate for all galvanised cable trays, elbows, Tee- sections and crossovers to include for chemically cleaning and have cable tray powder coated to a standard powder coating range of colours to be selected by the Architect at a later date				
13.	50 x 50	no 10	R	151,26	R 1 512,65
14.	100 x50	no	R	199,61	Rate only
15.	300x50	no 10	R	196,77	R 1 967,73
16.	400x50	no 10	R	441,22	R 4 412,23
17.	600x50	no	R	552,31	Rate only
	X- Overs				
18.	50 x 50	no	R	248,93	Rate only
19.	100 x50	no	R	419,43	Rate only
20.	300x50	no	R	589,93	Rate only
21.	400x50	no	R	760,43	Rate only
22.	600x50	no	R	1 095,96	Rate only
	T-ee section				
23.	400 / 300	no 10	R	246,37	R 2 463,73
24.	300 / 100	no 10	R	246,37	R 2 463,73

	DESCRIPTION			RATE		TOTAL
	Riser/Dropper from overhead wire mesh tray secured to wall/partitioning and connect to powerskirtings					
25.	100 (Light +Data)	no	25	R	276,88	R 6 921,91
26.	200	no		R	236,22	Rate only
27.	P 1000 Cantilever Arm (Secured to wall and horizontal section suitable for up to 500mm cable tray)	no	90	R	158,89	R 14 300,15
28.	Provide 2 x 300mm cable tray from main cable tray and manufactured bends (top entry) to switchboard	no	2	R	456,17	R 912,33
29.	uPVC ducts suspended complete with pipe brackets via main foyer false ceiling connecting electrical / data and fire shafts to respective cable trays					
30.	160mm diam ducts	m	80	R	195,13	R 15 610,36
31.	160mm slow radius bends	no	8	R	755,69	R 6 045,50
Carried to Summary						247 195,61

	DESCRIPTION	RATE	TOTAL
	<u>BILL NO. 5</u> <u>LIGHTING</u> For the supply, installation and connecting inclusive of all supervision, labour, materials & waste, fixing materials, hoisting equipment, traveling costs and storage of:- Supply of Light fittings Type of Illuminaires to be equal to the Framework Contract and must be complete with :- Osram of Phillips lamps cool white lamps (colour 840) Electronic Ballasts All fittings installed will be complete with 3m long cabtyre 1,5mm² x 3c PVCPVC flexible cable and 5A 3-pin plug top		
1.	Surface Mounted 2x35w surface mounte LBR Fluorescent. Equal or similar approved to Province PSF47/235. Colour of the body of the luminaire to be confirmed no49	R 2 741,83	R 134 349,47
2.	Type F1 (E)- Surface Mounted 2x35w surface mounted LBR Fluorescent. Equal or similar approved to Province PSF47/235. Colour of lthe body of the luminaire to be confirmed complete with emergency battery pack suitable for 50% light for 1 tube 1hr no2	R 3 480,99	R 6 961,98
3.	Type F2 - 2x28w 1200x600 recessed mellowlight fluorescent no44	R 1 730,65	R 76 148,71
4.	Type F2 (D) - 2x28w 1200x600 recessed mellowlight fluorescent with dali dimmable switchgear no22	R 2 332,61	R 51 317,43
5.	Type F2 (E) - 2x28w 1200x600 recessed mellowlight fluorescent complete with emergency battery pack suitable for 50% light for 1 tube 1hr no4	R 2 469,77	R 9 879,08
6.	Type F3 - 2x28w 1200x600 surface mounted mellowlight fluorescent no	R 2 672,94	Rate only
7.	Type F3(D) - 2x28w 1200x600 surface mounted mellowlight fluorescent with microlinear diffusser and Dali dimmable ballasts no	R 2 182,93	Rate only
8.	Type F3(E) - 2x28w 1200x600 surface mounted mellowlight fluorescent with microlinear diffusser complete with emergency battery pack suitable for 50% light for 1 tube 1hr no	R 2 332,75	Rate only
9.	Type F4 - 2x24w 600x600 recessed mellowlight fluorescent with microlinear diffusser no70	R 925,79	R 64 805,30
10.	Type F4(D) - 2x24w 600x600 recessed mellowlight fluorescent with microlinear diffusser and Dali dimmable ballasts no209	R 1 349,65	R 282 076,85

	DESCRIPTION	RATE	TOTAL
11.	Type F4(E) - 2x24w 600x600 recessed mellowlight fluorescent with microlinear diffuser complete with emergency battery pack suitable for 50% light for 1 tube 1hr no 30	R 1 438,14	R 43 144,20
12.	Type F4(DE) - 2x24w 600x600 recessed mellowlight fluorescent with microlinear diffuser complete with Dali dimmable +emergency battery pack suitable for 50% light for 1 tube 1hr no 2	R 1 826,53	R 3 653,06
13.	Type F5- 2x14W 600 x 600mm recessed mellowlite with microlinear diffuser no 46	R 964,27	R 44 356,42
14.	Type F5(D)- 2x14W 600 x 600mm recessed mellowlite with microlinear diffuser with dali dimmable gear no 4	R 1 360,00	R 5 440,00
15.	Type F5(E) - 2x14w 600x600 recessed mellowlight fluorescent with microlinear diffuser complete with emergency battery pack suitable for 50% light for 1 tube 1hr no 23	R 1 448,49	R 33 315,27
16.	Type F6 - 2x54w T5 Open Channel no 7	R 499,49	R 3 496,43
17.	Type F6 (E) - 2x54w T5 Open Channel complete with emergency battery pack suitable for 50% light for 1 tube 1hr no 2	R 983,68	R 1 967,36
18.	Type C1 - Vapourproof no	R 941,81	Rate only
19.	Type B1- 18W compact fluorescent surface mounted round white vandalproof watertight bulkhead for wall or ceiling mounting no	R 1 533,94	Rate only
20.	Type B1E - 18W compact fluorescent surface mounted round white vandalproof watertight bulkhead for wall or ceiling mounting complete with battery pack for 1 tube for 1 hr no	R 1 867,28	Rate only
21.	Type B2 - surface mounted Bulkhead complete with 16W LED lamp no	R 2 685,58	Rate only
22.	Type B2E - Bulkhead complete with 16W LED lamp and battery pack for 1 hr no	R 3 074,32	Rate only
23.	Type D1 - 14.5w Diffused LED down Lighters complete with high performance white optical reflector diameter 160mm colour white coolwhite lamp no 14	R 906,21	R 12 686,94
24.	Type D1 (E)- 14.5w Diffused LED down Lighters complete with high performance white optical reflector diameter 160mm colour white coolwhite lamp and battery pack for 1 hr no 4	R 2 006,94	R 8 027,76
25.	Type D1 (D)- 14.5w Diffused LED down Lighters complete with high performance white optical reflector diameter 160mm colour white coolwhite lamp and dimmable switchgear no -	R 1 796,62	Rate only
26.	Type D2 - 12x1.2W recessed LED downlighter no 52	R 1 062,03	R 55 225,56

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION	RATE	TOTAL
27.	Type D2(E)- 12x 1.2w LED downlight fitting (2x13W CFL replacement eq or similar to Province PLED-DL12-white) with emergency battery pack no 7	R 2 170,13	R 15 190,91
28.	Type D2(D)- 12x 1.2w LED downlight fitting (2x13W CFL replacement eq or similar to Province PLED-DL12-white) Dimmable no 42	R 1 517,28	R 63 725,76
29.	Type D3 - 6x1.2W recessed LED downlighter no 235	R 676,07	R 158 876,45
30.	Type D3(D) - 6x1.2W recessed LED downlighter Dali dimmable no 28	R 1 260,64	R 35 297,92
31.	Type D3(E) - 6x1.2W recessed LED downlighter with battery pack no 11	R 1 471,92	R 16 191,12
32.	Type D4 - 1,2W starlight no 19	R 342,70	R 6 511,30
33.	D5 - 10.8w Diffused LED downlighter complete with highperformance white optic reflector diameter 90mm colour white/coolwhite lamp no 0	R 1 248,76	Rate only
34.	D6 - 14.5w COB LED down lighter 36° beam angle white trim with cool white lamp (dimmable) no 210	R 2 330,43	R 489 389,25
35.	Type EXIT- 2x9W emergency exit type running man pictogram fluorescent fixed to demountable ceiling/concrete/brick complete with battery backup no 10	R 1 903,60	R 19 036,02
36.	LED 1 1500mm LED strip Natural white with aluminium rigged baking and clear diffuser terry clips including drivers no 7	R 1 256,59	R 8 796,10
37.	LED 2 1200mm LED strip Natural white with aluminium rigged baking and clear diffuser terry clips including drivers no 6	R 1 256,59	R 7 539,51
38.	LED 3 300mm LED strip Natural white with aluminium rigged baking and clear diffuser terry clips including drivers no 4	R 1 256,59	R 5 026,34
39.	LED 4 Recessed LED strip eq or similar to lightframe 45 Natural white with aluminium rigged baking and clear diffuser terry clips including drivers m	R 1 279,62	Rate only
40.	LED 5 Recessed LED strip eq or similar to lightframe 50 Natural white with aluminium rigged baking and clear diffuser terry clips including drivers no	R 1 279,62	Rate only
41.	LED 6 1750mm LED strip Natural white with aluminium rigged baking and clear diffuser terry clips including drivers no 2	R 1 376,45	R 2 752,89
42.	50W Power supply units for LED strips no 269	R 783,96	R 210 884,97
43.	200W 24V powersupply for LED Strip no	R 1 117,86	Rate only

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION			RATE	TOTAL
	Cut holes in ceiling boards or cable trays for down lighters				
44.	Hole up to 90mm diameter	no	274	R 165,71	R 45 404,68
45.	Hole up to 147mm diameter	no	329	R 199,49	R 65 630,57
46.	Supply, install and connect 5A-3pin unswitched socket outlets in round conduit outlet boxes on cable tray	no	1 434	R 138,12	R 198 064,80
	Install and connect light fittings				
	To underside of Cable tray				
47.	Type F1	no	49	R 197,11	R 9 658,56
48.	Type F1 (E)	no	2	R 197,11	R 394,23
49.	Type C1	no		R 197,11	Rate only
50.	Exit	no	10	R 197,11	R 1 971,14
	Installed within cable tray				
51.	Type D1	no	14		R -
52.	Type D1E	no	4		R -
	Layed into standard 600x600 or 1200x 600 false ceilings				
53.	Type F2	no	44	R 185,74	R 8 172,41
54.	Type F3	no	-	R 197,11	Rate only
55.	Type F4	no	309	R 185,74	R 57 392,58
56.	Type F5	no	73	R 185,74	R 13 558,76
57.	Type D1	no	14	R 185,74	R 2 600,31
58.	Type D1 (E)	no	4	R 185,74	R 742,95
59.	Type D2 down lighters	no	18	R 191,43	R 3 445,65
60.	Type D3 down lighters	no	274	R 191,43	R 52 450,45
	Installed suspended from concrete, underside of ceiling or walls				
61.	Type B1E	no	-	R 189,10	Rate only
62.	Type F6	no	7	R 197,11	R 1 379,79
63.	Type F6 (E)	no	2	R 177,74	R 355,48
64.	Provisional amount to add and reposition lightfittings to suit final positions of furniture	sum			R 35 000,00
	Supply install and connect light switches (16A) complete with cradle and cover plate suitable for 100x50 recessed conduit box				
65.	1L- 1W	no	49	R 137,14	R 6 720,06
66.	2L - 1w	no		R 157,56	Rate only
67.	Spring return (Bell push) switch	no	9	R 204,00	R 1 835,96
68.	Combination spring return(bell push) and dahli dimmer controller	no	12	R 457,90	R 5 494,81
69.	Combination Micro/infrared movement detector	no		R 3 763,20	Rate only
70.	Micro/infrared movement detector	no	12	R 5 834,20	R 70 010,40
71.	Infrared User Handset equil or equiv toCP Electronics UHS7	no	7	R 873,04	R 6 111,26
72.	Allowance for readjusting time settings of Micro/Infra red Movement detectors	no	39	R 683,16	R 26 643,34
73.	100x50 box for AC controller	no	26	R 60,54	R 1 574,12
	Supply Presence detection and day light harvesting (4 Dorp Street)				
74.	Ceiling mounted 12-16m Programmable microwave sensor (DIMMABLE)	no	1	R 7 073,91	R 7 073,91
75.	Ceiling mounted 22-30m Programmable microwave sensor	no	2	R 6 674,83	R 13 349,65
76.	Ceiling mounted 12-16m Programmable microwave sensor	no	7	R 6 089,97	R 42 629,76
77.	Ceiling mounted 7m PIR programmable	no	9	R 3 294,11	R 29 646,96
78.	Ceiling mounted 7m Programmable PIR complete with Dimmer option	no	2	R 3 294,11	R 6 588,21
79.	Ceiling mounted 6m PIR non programmable	no	1	R 2 206,92	R 2 206,92

	DESCRIPTION		RATE	TOTAL
	Supply Presence detection and day light harvesting (27 Wale Street) + Automation (Supply and Installed by specialist)			
80.	Main controller including Power supply unit	no 1	R 73 696,95	R 73 696,95
81.	Software package 100	no 1	R 45 833,39	R 45 833,39
82.	8 channel digital input terminal	no 3	R 2 432,99	R 7 298,97
83.	Dali master and power supply terminal	no 10	R 13 460,51	R 134 605,10
84.	Bus end terminal	no 1	R 641,47	R 641,47
85.	LMS Bus 24V Power supply unit	no 1	R 1 353,15	R 1 353,15
86.	PS-Dali Slave PIR 7m	no 54	R 4 044,90	R 218 424,36
87.	PL-Dali 10A Relay	no 32	R 1 099,31	R 35 177,81
88.	PL-LMS Dali bus cable	no 2 000	R 40,72	R 81 437,00
89.	PL-LMS Switch cable	no 1 000	R 35,15	R 35 154,00
90.	LMS DB board 700x500x260 (Orange)	no 1	R 8 925,71	R 8 925,71
91.	LMS Board assemble	sum 1	R 4 243,44	R 4 243,44
92.	Adressing and Commisioning of Dali lines (by others)	no 10	R 4 243,44	R 42 434,35
93.	Switch Termination and commissioning	no 21	R 447,72	R 9 402,07
94.	installing of LMS Dali Cable	no 2 000	R 21,93	R 43 865,00
95.	installing of LMS Switch Cable	no 1 000	R 21,93	R 21 932,50
96.	installing of Sensors and Termination	no 54	R 213,25	R 11 515,45
97.	installing of LMS Dali Cable	no 10	R 144,80	R 1 448,01
98.	System Programming and Termination	no 1	R 25 303,75	R 25 303,75
99.	Hand over document	no 1	R 12 651,88	R 12 651,88
100.	SIC fine tuning	sum 1	R 22 659,06	R 22 659,06
101.	Profit and attendance on above	%		R -
	Galv Conduit installed			
	Via ceiling void			
102.	20mm diam	m 846	R 65,50	R 55 415,54
103.	25mm diam	m 220	R 73,13	R 16 088,38
104.	100 x 50 Conduit boxes (Galvanized) installed in partitions or chased into walls	no 154	R 71,73	R 11 047,04
105.	Supply, install and connect 5A-3pin unswitched socket outlets in round conduit outlet boxes installed on cable tray or false ceilings	no 430	R 144,27	R 62 037,82
	Surfix			
106.	1,5mm ² x 3c	m 2 000	R 29,00	R 58 000,00
107.	2,5mm ² x 3c	m 3 350	R 36,00	R 120 600,00
108.	2,5mm ² x 4c	m 1 500	R 49,00	R 73 500,00
	Cable terminations			
109.	1,5mm ² x 3c	no 100	R 15,03	R 1 503,00
110.	2,5mm ² x 3c	no 5 808	R 16,48	R 95 715,84
111.	2,5mm ² x 4c	no 150	R 17,80	R 2 670,00
	Disconnect + Remove existing installation			
112.	Lighting installation	sum 1	R 13 924,17	R 13 924,17
	Single core PVC (Cu) house wire installed in powerskirtings and conduit			
113.	1.5mm ²	m 5 710	R 6,67	R 38 085,70
114.	2.5mm ²	m 16 540	R 9,45	R 156 303,00
	Area ligthing			
115.	Day light switch	no 10	R 250,00	Rate only

	DESCRIPTION		RATE	TOTAL
116	50W LED flood light	no10	R450,00	Rate only
117	100W LED flood light	no10	R900,00	Rate only
Carried to Summary			R	4 135 071,93

	DESCRIPTION	RATE	TOTAL
	BILL NO. 6		
	<u>GENERAL POWER</u>		
	Supply and install switched outlets complete with cover plate fixed in recessed / surface mounted boxes or power skirting		
1.	16 Amp single switched socket outlet in flush box no 1	R 269,01	R 269,01
2.	16 Amp double switched socket outlet in flush box no 83	R 337,81	R 28 037,90
3.	16 Amp single dedicated switched socket outlet in flush box no	R 371,46	Rate only
4.	16 Amp double dedicated switched socket outlet in flush box no 12	R 443,49	R 5 321,87
5.	16 Amp single switched socket outlet in powerskirting no 6	R 277,71	R 1 666,27
6.	16 Amp double switched socket outlet in powerskirting no 379	R 375,36	R 142 261,29
7.	16 Amp single dedicated switched socket outlet in powerskirting no	R 391,08	Rate only
8.	20 Amp double pole isolator complete with 100 x 100 box no 169	R 425,99	R 71 991,70
9.	30 Amp double pole isolator complete with 100 x 100 box no 22	R 454,62	R 10 001,68
10.	Up to 30 Amp double pole with cord grip for AC no 11	R 497,33	R 5 470,63
11.	Up to 60 Amp TP no	R 1 439,23	Rate only
12.	100Amp TP no 3	R 5 324,12	R 15 972,37
13.	Isolators suitable external mounting (IP65) no 1	R 990,98	R 990,98
14.	Up to 30 Amp double pole no	R 990,72	Rate only
15.	Up to 60 Amp TP no 4	R 1 285,49	R 5 141,94
16.	Recessed Power Unit c/w 2 end caps, 1 spacer, 1 clean socket, 1 reset switch, 1 normal socket, 1 SA 2 pin socket N/E, 2 spacers 12.5mm, 2 shuttered bezels with couplers only & 2 bypass connectors (Colour: grey) no 198	R 3 189,55	R 631 530,35
17.	Input cable: Normal complete with white plugtop no 70	R 573,85	R 40 169,42
18.	Input cable: Dedicated complete with red plugtop no 70	R 573,85	R 40 169,42
19.	Interconnecting cable: Normal no 59	R 573,85	R 33 857,08
20.	Interconnecting cable: Dedicated no 59	R 573,85	R 33 857,08
21.	Recessed 6 way TV module complete with 1 x normal, 1 x RJ45, 1xVGA and HDMI connector no 7	R 7 818,19	R 54 727,30
22.	Zip bags to conceal wiring to boardroom table no 1	R 2 143,26	R 2 143,26
	Board room table units	R -	
23.	Supply and install a Unimod tower complete with conduit box and height to underside of board room table and connect to Rotodock unit no 17	R 3 809,61	R 64 763,42
24.	Unimod Outlet module c/w 16A SSO no 4	R 146,90	R 587,61
25.	Unimod Outlet module c/w 16A Dedicated SSO no 4	R 186,53	R 746,13
26.	Unimod Outlet module c/w telephone RJ jack outlet no 4	R 202,27	R 809,09
27.	Type D - Supply and install equal or similar approved Rotodoc Manual Range unit fitted into the centre of the board room table complete with 3 x normal & 1 x 2point sso's, 1 x RJ45, 1 x RJ11& VGA and HDMI connectors and conduit via the Modutower above and floor mounted conduits to the power skirting no 11	R 8 648,99	R 95 138,89
28.	Draw wires for Electronic services(Data, Telephone, VGA and HDMI) no 30	R 13,84	R 415,13
29.	Supply and install a desk mounted "Pop- up" pedestal equal or equivalent to Crabtree complete with 2 x dedicated sso& RJ45 connector no 3	R 1 313,40	R 3 940,19
	Floorbox		
	Supply and install Power Box complete with fixing, accessories and cover lids, according to specification (equal or similarly approved O-line Underfloor Power Box DU9035) no 1	R 2 160,63	R 2 160,63
30.	Outlet box c/w 16A SSO no 2	R 956,12	R 1 912,23
31.	Outlet box c/w dedicated 16A SSO no 2	R 1 036,83	R 2 073,65
32.	Outlet box c/w blank cover and drilled 10mm hole no 2	R 819,22	R 1 638,45

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION	RATE	TOTAL
	Meeting room desk connections		
33.	Supply and install domestic type PVC house wire 2,5mm ² & 2,5mm ² E from Power skirting to board room tables and ceiling mounted sso)	R 49,90	R 62 874,00
	m 1 260		
34.	Draw wires for Electronic services(Data, Telephone, VGA and HDMI)	R 14,81	R 7 108,80
	m 480		
35.	Extend 25mm conduits from power skirting in partitions and wall up to the conduit boxes recessed mounted in the false ceilings	R 47,89	R 17 240,40
	m 360		
36.	Normal 16A -6pin socket outlet and blank plate complete with cradle (Ceiling mounted)	R 942,26	R 3 769,04
	no 4		
37.	Flexible connections (25mm Kopex 1m long complete with 2 x ends) from	R 151,61	R 7 732,11
	no 51		
	Supply and install Aluminium round power posts complete with 4 vertical channels, grey PVC lids, ceiling cover and floor fixing of post complete		
38.	3900mm long complete with 2 x normal sso, 2 x dedicated sso's, 4 x RJ11 and 4 x RJ45 connections	R 2 582,41	Rate only
	no		
39.	3900mm long complete with 2 x normal sso, 2 x dedicated sso's, 6 x RJ11 and 6 x RJ45 connections	R 2 722,73	Rate only
	no		
40.	3900mm long complete with 2 x normal sso, 2 x dedicated sso's, 8 x RJ11 and 8 x RJ45 connections	R 2 929,19	Rate only
	no		
41.	3900mm long complete with 2 x normal sso, 2 x dedicated sso's, 10 x RJ11 and 10 x RJ45 connections	R 3 078,69	Rate only
	no		
42.	3000mm long complete with 5 x normal sso, 5 x dedicated sso's, 10 x RJ11 and 10 x RJ45 connections	R 1 977,07	R 7 908,28
	no 4		
	PVC Powermast		
	Supply and install back to back PVC powermasts complete with grey PVC cover lids, ceiling cover and floor fixing of posts		
43.	3000mm long	R 3 094,80	R 49 516,80
	no 16		
	Supply and install powerpost outlet boxes vertically fixed to powerpole for services as follows:		
44.	Outlet box c/w 16A SSO	R 353,97	R 4 247,64
	no 12		
45.	Outlet box c/w dedicated 16A SSO	R 372,06	R 4 464,72
	no 12		
46.	Outlet box c/w blank cover and drilled 10mm hole	R 112,91	R 2 709,84
	no 24		
	Powerskirting		
	Supply and install PVC three channel powerskirting fixed 20mm AFFL complete with fixings, accessories and cover lids, according to specification		
47.	Ninety degree internal bend	R 96,13	R 20 187,30
	no 210		
48.	Ninety degree external bend	R 98,33	R 20 649,30
	no 210		
49.	End caps	R 71,20	R 26 344,00
	no 370		
50.	3 compartment power skirting and accessories	R 450,00	R 382 500,00
	m 850		
51.	3 compartment power skirting and accessories - White colour secured to	R 450,00	Rate only
	m		
	Surfix installed and secured on cable tray		
52.	2,5mm ² x 3c	R 14,12	Rate only
	ea		
53.	2,5mm ² x 4c	R 17,02	Rate only
	ea		
54.	4,0mm ² x 2c	R 20,60	R 236 282,00
	ea 11 470		
55.	4,0mm ² x 4c	R 28,68	Rate only
	ea		
56.	6,0mm ² x 4c	R 41,95	R 6 292,50
	ea 150		
	Cable terminations (Compression glands) complete with shrouds suitable for surfix cables		
57.	2,5mm ² x 3c	R 16,57	Rate only
	ea		
58.	2,5mm ² x 4c	R 16,33	Rate only
	ea		
59.	4,0mm ² x 2c	R 16,70	R 6 346,00
	ea 380		
60.	4,0mm ² x 4c	R 16,70	Rate only
	ea		
61.	6,0mm ² x 4c	R 17,07	R 170,70
	ea 10		
	Single core PVC (Cu) house wire installed in powerskirtings and conduit		
62.	2,5mm ² h/w (new)	R 5,23	R 54 601,20
	m 10 440		
63.	4,0mm ² h/w (new)	R 7,54	R 211 270,80
	m 28 020		

	DESCRIPTION		RATE		TOTAL
	Galv Conduit installed surface mounted and via ceiling void				
64.	20mm diam	m 763	R 42,26	R 32 244,38	
65.	25mm diam	m 1 000	R 46,93	R 46 930,00	
	Supply and install PVC conduit chased into floor (Chase included)				
66.	20mm Diameter	m	R 32,93	Rate only	
67.	25mm Diameter	m 50	R 31,55	R 1 577,50	
68.	32mm Diameter	m 50	R 39,96	R 1 998,00	
	Supply and install PVC conduit chased into wall (Chase included)				
69.	20mm Diameter	m	R 29,45	Rate only	
70.	25mm Diameter	m 300	R 31,55	R 9 465,00	
71.	32mm Diameter	m 300	R 39,96	R 11 988,00	
	Pressed steel boxes				
72.	100x50	no 30	R 49,71	R 1 491,30	
73.	100x100	no 339	R 64,43	R 21 841,77	
74.	100x 100 x 50 seamless "Wonda" box	no 150	R 69,13	R 10 369,50	
75.	300x300	no 17	R 297,60	R 5 059,20	
	Final connections on equipment				
76.	Hand driers	no 3	R 374,70	R 1 124,10	
77.	Over Counter hot water broilers	no 5	R 242,70	R 1 213,50	
78.	Under counter Hot water Cylinders	no 5	R 411,36	R 2 056,80	
	Disconnect + Remove existing installation				
79.	Power (plugs + isolators + wiring)	sum 1	R 6 517,75	R 6 517,75	
80.	Wireways (powerskirting + trays + trunking)	sum 1	R 8 541,75	R 8 541,75	
	Carried to Summary				R 2 592 398,94

	DESCRIPTION		RATE		TOTAL
	<u>BILL NO. 7</u>				
	<u>ACCESS CONTROL</u>				
	Supply and install PVC conduit chased into brick wall (Chase included)				
1	20mm Diameter	m 200	R 26,11	R 5 222,67	
2	25mm Diameter	m 250	R 28,18	R 7 045,00	
3	32mm Diameter	m	R 31,75	Rate only	
4	40mm Diameter	m	R 42,04	Rate only	
5	50mm Diameter	m	R 51,24	Rate only	
	Shallow round conduit boxes suitable for 25mm conduit				
6	50 dia round box	no 50	R 37,70	R 1 885,00	
	Supply and install PVC conduit in ceiling voids including all wooden batten supports,				
7	20mm Diameter	m	R 28,37	Rate only	
8	25mm Diameter	m 25	R 25,55	R 638,75	
9	32mm Diameter	m	R 31,75	Rate only	
10	40mm Diameter	m	R 42,04	Rate only	
11	50mm Diameter	m	R 51,24	Rate only	
	Shallow round conduit boxes suitable for 20mm conduit				
12	End box	no 20	R 40,90	R 818,00	
13	Trouser box	no	R 65,33	Rate only	
14	Y- box	no	R 65,33	Rate only	
15	Thru box	no	R 54,00	Rate only	
16	Tangen T-ee box	no	R 80,00	Rate only	
17	4-way back entry loop-in box	no 20	R 44,88	R 897,60	
	Galvanised conduits chased into walls				
18	20mm diam	m 400	R 43,53	R 17 412,00	
19	25mm diam	m 500	R 47,93	R 23 965,00	
	Galvanised conduits via ceiling void				
20	20mm diam	m 200	R 42,75	R 8 550,00	
21	25mm diam	m 200	R 46,97	R 9 394,00	
	Conduit boxes complete with cradles and blank cover plates installed recess into walls				
22	100x50	no 28	R 63,18	R 1 769,04	
23	100x100	no 38	R 66,87	R 2 541,06	
24	60mm diam shallow	no 94	R 49,41	R 4 644,54	
25	Draw wire pulled into empty conduits	m 900	R 4,57	R 4 113,00	
26	Dedicated Socket outlets			Measured in bill 6	
	Carried to Collection			R 88 895,66	

	DESCRIPTION		RATE		TOTAL
	<u>BILL NO. 8</u>				
	<u>SMOKE DETECTION</u>				
	Fire Detection and Voice Evacuation				
	For the supply, installation and connecting inclusive of all supervision, labour, materials & waste, fixing materials, hoisting equipment, traveling costs and storage of:-				
	Galvanised conduits chased into walls				
1	20mm diam	m	R	43,13	Rate only
2	25mm diam	m	R	46,93	R 9 386,00
	Galvanised conduits via ceiling void				
3	20mm diam	m	R	42,26	R 12 678,00
4	25mm diam	m	R	46,93	R 197 669,16
	Conduit boxes complete with cradles and blank cover plates installed recess into walls				
5	100x50	no	R	64,71	Rate only
6	100x100	no	R	72,43	R 2 897,20
7	60mm diam with terminations onto 25mm diam cond	no	R	66,65	R 18 328,75
8	End box chased into wall	no	R	53,89	R 2 694,50
9	Endbox, side entry in ceiling void	no	R	53,89	R 10 239,10
10	4 way rear entry in ceiling void with	no	R	60,44	R 8 582,48
11	Thru box in ceiling void	no	R	54,44	R 4 899,60
12	Angle box, 90 degree side entry in ceiling void	no	R	54,44	R 2 939,76
13	Tangent Teebox in ceiling void	no	R	60,44	R 6 527,52
14	Draw wire pulled into empty conduits	m	R	5,38	R 25 350,56
	Measured elsewhere				
15	Dedicated Socket outlets				
16	Wire meshTray				
	<u>Public Address & Evacuation</u>				
	Supply and install PVC conduit, surface mounted on walls including all couplings and				
17	20mm Diameter	m	R	34,35	Rate only
18	25mm Sprague	m	R	111,15	Rate only
19	25mm Diameter	m	R	36,95	R 14 780,00
	Shallow round conduit boxes suitable for 20mm conduit				
20	60 dia one Way round box	no	R	47,20	R 708,00
21	60 dia two Way round box	no	R	47,20	R 1 416,00
22	Draw wire pulled into empty conduits	m	R	6,91	R 2 764,00
	Measured elsewhere				
	Dedicated Socket outlets				
	Wire meshTray				
	Carried to Summary				R 321 860,63

	DESCRIPTION		RATE	TOTAL
	<u>BILL NO. 9</u>			
	<u>MISCELLANEOUS WORK</u>			
	Upgrading of backbone structure 4 Dorp Street			
	For the supply, installation and connecting inclusive of all supervision, labour, materials & waste, fixing materials, hoisting equipment, traveling costs and storage of:-			
	Main LV Distribution Board			
	Miscellaneous circuit breakers fitted into existing Distribution Boards complete with necessary cut outs, connecting to existing busbars			
1	Disconnect main cable from 200A TP main switch	ea 3	R 439,16	R 1 317,48
2	Remove existing 200A TP breaker	ea 3	R 361,35	R 1 084,05
3	Install new 300A TP main circuit breaker - ABB or similar	ea 3	R 13 646,20	R 40 938,60
4	Terminate existing cables	sum 1	R 2 054,34	R 2 054,34
	Riser Distribution Boards			
5	Locks to be removed from the existing DB	ea 88	R 171,99	R 15 134,94
6	New locks installed on each DB	ea 88	R 357,91	R 31 496,12
7	Doors to be aligned	ea 88	R 283,85	R 24 978,93
8	Blank plates to be installed	ea 88	R 271,14	R 23 860,45
9	Front panel locks to be ammend	ea 88	R 361,35	R 31 798,93
10	Cleaned and labelled	ea 44	R 373,29	R 16 424,61
11	Liaise with Maintenance department for Access to LV Room	sum		R 2 500,00
	Excavations			
	Excavated materials are classified as follows:			
	Class A material (rock) will be held to be any material possessing characteristics of hardness and geological structure which, in the opinion of the Engineer, necessitates the use of explosives for excavation.			
	Class B material (hard) will be held to be any material which possesses characteristics of hardness and geological structure which, in the opinion of the Engineer, requires two separate operations for excavation, one for breaking by pneumatic or hydraulic means and one for removing the material from the excavation. The operations may be performed by one or more items of plant or equipment.			
	Class C material (earth) will be held to be all material other than Class A and Class B material as defined above and shall include boulders of individual volume up to 0,25 m3 and which constitute less than forty percent (40%) by volume of the material excavated.			
12	Excavate 300 mm wide x 800 mm deep cable trench in Class C material (earth).	m 6	R 184,75	R 1 108,50
13	SABS approved PVC Cable Warning Tape installed above cable in trench.	m 6	R 7,18	R 43,08
	Sand bedding			
14	Import suitable material and install sand bedding to a depth of 75mm plus sand cover over cables or PVC sleeves to a depth of 75mm.	m 6	R 266,56	R 1 599,36

	DESCRIPTION		RATE	TOTAL
	Backfilling			
15	Backfill with local material and compact in accordance with the specification. Per linear meter.	ea 44	R 176,31	R 7 757,64
	Extra over for excavation in Class B material			
16	Excavate	m³ 3	R 252,59	R 757,77
	Extra over for excavation in Class A material			
17	Excavate	m³ 2	R 208,79	R 417,58
	Underground Ducts			
	Supply and install PVC underground ducts			
18	110 mm diameter Class 34	m 6	R 171,36	R 1 028,16
19	160 mm diameter Class 34	m 6	R 199,82	R 1 198,92
	Extra over for supply of slow bends in PVC ducts for entry into building (Minimum internal bending radius: 600 mm)			
20	110 mm diameter Class 34	ea 2	R 354,64	R 709,28
21	160 mm diameter Class 34	ea 2	R 513,16	R 1 026,32
	Supply and install on cable tray 600V/1000V stranded PVC/SWA/PVC copper cable			
22	240 mm² 4 core Cu cored	m	R 2 465,00	Rate only
23	185 mm² 4 core Cu cored	m	R 1 808,90	Rate only
24	150 mm² 4 core Cu cored	m	R 1 450,70	Rate only
25	120 mm² 4 core Cu cored	m 35	R 980,00	R 34 300,00
26	95 mm² 4 core Cu cored	m 35	R 840,00	R 29 400,00
27	70 mm² 4 core Cu cored	m 35	R 740,00	R 25 900,00
28	50 mm² 4 core Cu cored	m 35	R 530,00	R 18 550,00
29	25 mm² 4 core Cu cored	m 35	R 201,15	R 7 040,25
30	16 mm² 4 core Cu cored	m 35	R 190,00	R 6 650,00
31	10 mm² 4 core Cu cored	m	110	Rate only
32	6 mm² 4 core Cu cored	m	R 110,00	Rate only
33	4 mm² 4 core Cu cored	m	R 49,14	Rate only
34	2.5 mm² 4 core Cu cored	m	R 44,41	Rate only
	Supply and install on cable tray 600V/1000V stranded PVC/SWA/PVC aluminium cable			
35	240 mm² 4 core Al cored	m	R 351,43	Rate only
36	185 mm² 4 core Al cored	m	R 282,53	Rate only
37	150 mm² 4 core Al cored	m	R 245,33	Rate only
38	120 mm² 4 core Al cored	m	R 199,50	Rate only
39	95 mm² 4 core Al cored	m	R 161,64	Rate only
40	70 mm² 4 core Al cored	m	R 129,89	Rate only
41	50 mm² 4 core Al cored	m	R 98,91	Rate only
42	25 mm² 4 core Al cored	m	R 65,91	Rate only
43	16 mm² 4 core Al cored	m	R 83,39	Rate only
44	10 mm² 4 core Al cored	m	R 55,20	Rate only
45	6 mm² 4 core Al cored	m	R 47,18	Rate only
46	4 mm² 4 core Al cored	m	R 38,06	Rate only
47	2.5 mm² 4 core Al cored	m	R 33,32	Rate only
	Supply and lay in cable trench or pull into PVC duct 600V/1000V stranded PVC/SWA/PVC copper cable			
48	240 mm² 4 core Cu cored	m	R 2 465,00	Rate only
49	185 mm² 4 core Cu cored	m	R 1 808,90	Rate only
50	150 mm² 4 core Cu cored	m	R 1 450,70	Rate only
51	120 mm² 4 core Cu cored	m 35	R 980,00	R 34 300,00

	DESCRIPTION			RATE	TOTAL
52	95 mm ² 4 core Cu cored	m	35	R 840,00	R 29 400,00
53	70 mm ² 4 core Cu cored	m	35	R 740,00	R 25 900,00
54	50 mm ² 4 core Cu cored	m	35	R 530,00	R 18 550,00
55	25 mm ² 4 core Cu cored	m	35	R 201,15	R 7 040,25
56	16 mm ² 4 core Cu cored	m	35	R 190,00	R 6 650,00
57	10 mm ² 4 core Cu cored	m		R 110,00	Rate only
58	6 mm ² 4 core Cu cored	m		R 110,00	Rate only
59	4 mm ² 4 core Cu cored	m		R 49,14	Rate only
60	2.5 mm ² 4 core Cu cored	m		R 44,41	Rate only
	Supply and lay in cable trench or pull into PVC duct 600V/1000V stranded PVC/SWA/PVC aluminium cable				
61	240 mm ² 4 core Al cored	m	100	R 351,43	R 35 143,00
62	185 mm ² 4 core Al cored	m	-	R 282,53	R -
63	150 mm ² 4 core Al cored	m	-	R 245,33	R -
64	120 mm ² 4 core Al cored	m	-	R 199,50	R -
65	95 mm ² 4 core Al cored	m	-	R 161,64	R -
66	70 mm ² 4 core Al cored	m	35	R 129,89	R 4 546,15
67	50 mm ² 4 core Al cored	m	-	R 98,91	R -
68	25 mm ² 4 core Al cored	m	35	R 65,91	R 2 306,85
69	16 mm ² 4 core Al cored	m	35	R 83,39	R 2 918,65
70	10 mm ² 4 core Al cored	m		R 55,20	Rate only
71	6 mm ² 4 core Al cored	m		R 47,18	Rate only
72	4 mm ² 4 core Al cored	m		R 38,06	Rate only
73	2.5 mm ² 4 core Al cored	m		R 33,32	Rate only
	Supply and install on cable tray or pull into underground duct bare stranded copper earth conductor				
74	95 mm ²	m	40	R 119,34	R 4 773,60
75	70 mm ²	m	40	R 100,06	R 4 002,40
76	50 mm ²	m	40	R 71,74	R 2 869,60
77	35 mm ²	m	40	R 52,32	R 2 092,80
78	16 mm ²	m	40	R 23,64	R 945,60
79	10 mm ²	m	40	R 14,90	R 596,00
80	6 mm ²	m	40	R 9,86	R 394,40
81	4 mm ²	m	40	R 7,17	R 286,80
	Supply and install on cable tray or pull into underground duct bare stranded aluminium earth conductor				
82	95 mm ²	m		R 119,34	Rate only
83	70 mm ²	m		R 100,06	Rate only
84	50 mm ²	m		R 71,74	Rate only
85	35 mm ²	m		R 52,32	Rate only
86	16 mm ²	m		R 23,64	Rate only
87	10 mm ²	m		R 14,90	Rate only
88	6 mm ²	m		R 9,86	Rate only
89	4 mm ²	m		R 7,17	Rate only
	Supply lugs and terminate copper earth conductors				
90	95 mm ²	No	2	R 64,63	R 129,26
91	70 mm ²	No	2	R 45,54	R 91,08
92	50 mm ²	No	2	R 38,15	R 76,30

	DESCRIPTION			RATE	TOTAL
93	35 mm ²	No	2	R 34,20	R 68,40
94	16 mm ²	No	2	R 30,43	R 60,86
95	10 mm ²	No	2	R 29,49	R 58,98
96	6 mm ²	No	2	R 23,54	R 47,08
97	4 mm ²	No	2	R 22,00	R 44,00
Supply and installation of the following distribution boards with lockable doors including all circuit breakers, wiring, fixing connection plates etc.					
Distribution Boards					
Surface mounted Main Switch 60DP,3x 10 SP light circuits 3 x Circuit breaker 60 A DP 30mA earth leakage devices, 6 x 20 circuit breakers Socket Outlets, 3 x 20 A SP Clean lines, 1 x30A DP Hot water cylinder, 2 x 30A Sp curve 1 AC					
98	Supply	No	1	R 5 390,00	R 5 390,00
99	Install	No	1	R 1 957,33	R 1 957,33
Recessed mounted Main Switch 60DP,3x 10 SP light circuits 3 x Circuit breaker 60 A DP 30mA earth leakage devices, 6 x 20 circuit breakers Socket Outlets, 3 x 20 A SP Clean lines, 1 x30A DP Hot water cylinder, 2 x 30A Sp curve 1 AC					
100	Supply	No	1	R 5 390,00	R 5 390,00
101	Install	No	1	R 1 957,33	R 1 957,33
Surface mounted Main Switch 100A TP, 6x 10 SP light circuits, 6 x Circuit breaker 60 A DP 30mA earth leakage devices, 12 x 20 circuit breakers Socket Outlets, 12 x 20 A SP Clean lines, 1 x30A DP Hot water cylinder, 6 x 30A Sp curve 1 AC					
102	Supply	No	1	R 12 430,00	R 12 430,00
103	Install	No	1	R 3 023,17	R 3 023,17
Recessed mounted Main Switch 100A TP, 6x 10 SP light circuits, 6 x Circuit breaker 60 A DP 30mA earth leakage devices, 12 x 20 circuit breakers Socket Outlets, 12 x 20 A SP Clean lines, 1 x30A DP Hot water cylinder, 6 x 30A Sp curve 1 AC					
104	Supply	No	1	R 12 430,00	R 12 430,00
105	Install	No	1	R 2 228,00	R 2 228,00
Server Room Distribution Board (Surface mounted complete with circuit breakers 1 x 50 A TP Main Switch, 2 x 10A SP lights, 2 x 20 A Dip 30mA Circuit Breakers, 6 x 20 A DP clean lines, 2 x 30 A Sp Curve 1 AC2 x Earth leakage devices, 2 x50 DP UPS connections					
106	Supply	No	1	R 7 920,00	R 7 920,00
107	Install	No	1	R 2 398,67	R 2 398,67
Miscellaneous circuit breakers fitted into existing Distribution Boards complete with necessary cut outs, connecting to existing busbars					
108	150 Amp 15kA triple pole MCB	No		R 4 158,69	Rate only
109	225 Amp 15kA triple pole MCB	No		R 6 213,01	Rate only
110	160 Amp 10kA triple pole MCB	No	2	R 2 660,67	R 5 321,34
111	99 Amp 5kA triple pole MCB	No	1	R 1 403,00	R 1 403,00
112	100 Amp 5kA triple pole MCB	No	1	R 1 307,67	R 1 307,67
113	60 Amp 5kA triple pole MCB	No	2	R 1 161,00	R 2 322,00
114	60 Amp 10kA double pole MCB	No		R 693,33	Rate only
115	Up to 20 Amp 5kA single pole MCB	No	15	R 245,33	R 3 679,95
116	Up to 60 Amp 5kA triple pole MCB	No	10	R 766,33	R 7 663,30
117	Up to 50 Amp 5kA single pole MCB	No	10	R 879,67	R 8 796,70
118	60 Amp 32mA double pole circuit breaker earth leakage relay	No	5	R 718,67	R 3 593,35
119	30 Amp 32mA double pole circuit breaker earth leakage relay	No	5	R 718,67	R 3 593,35

	DESCRIPTION			RATE	TOTAL
120	Up to 32 Amp Contactor (AC 3)	No	2	R 1 754,00	R 3 508,00
121	63 Amp Contactor (AC 3)	No	1	R 3 158,67	R 3 158,67
122	Timer(7day 24Hr) with reserve	No	2	R 1 183,67	R 2 367,34
	Miscellaneous on load isolators fitted into existing Distribution Boards complete with necessary cut outs, connecting to existing busbars				
123	30A double pole	No	6	R 368,50	R 2 211,00
124	60A double pole	No	4	R 434,50	R 1 738,00
125	100A double pole	No		R 638,27	Rate only
126	30A triple pole	No	4	R 624,33	R 2 497,32
127	60A triple pole	No	2	R 624,33	R 1 248,66
128	100A triple pole	No		R 731,40	Rate only
	Energy Meter				
129	Elster A1700 or EDM1 MK10	No		R 4 653,00	Rate only
130	Paneltrack kWh/kVA meter/recorder	No		R 5 478,00	Rate only
	Draw boxes				
	Supply and installation of the following drawboxes with lockable doors and 20mm wooden backing board including all fixing cradles etc				
	Recessed Mounted				
131	Up to 300m x300mm x115 Deep	No		R 1 285,64	Rate only
132	Up to 600m x600mm x115 Deep	No		R 2 259,78	Rate only
133	Up to 1000m x1000mm x115 Deep	No		R 5 960,41	Rate only
	Surface Mounted				
134	Up to 300m x300mm x115 Deep	No		R 1 100,23	Rate only
135	Up to 600m x600mm x115 Deep	No		R 2 091,11	Rate only
136	Up to 1000m x1000mm x115 Deep	No		R 5 557,41	Rate only
	Carried to Summary				R 621 901,54

	DESCRIPTION	RATE	TOTAL
	<u>BILL NO. 10</u>		
	<u>DAY WORKS</u>		
	<u>Dayworks</u>		
	<u>Labour</u>		
	The rates in dayworks are to be applied to the hours worked and are to include the cost of labour, overheads, profit, all levies, bonuses and leave pay.		
	NORMAL RATE		
	Supervisor h	R 350,00	Rate only
	Electrician h	R 350,00	Rate only
	Apprentice h	R 250,00	Rate only
	Skilled labour h	R 200,00	Rate only
	Labourer h	R 100,00	Rate only
	NORMAL RATE x 1,33		
	Supervisor h	R 465,50	Rate only
	Electrician h	R 465,50	Rate only
	Apprentice h	R 332,50	Rate only
	Skilled labour h	R 266,00	Rate only
	Labourer h	R 133,00	Rate only
	NORMAL RATE x 1,50		
	Supervisor h	R 525,00	Rate only
	Electrician h	R 525,00	Rate only
	Apprentice h	R 375,00	Rate only
	Skilled labour h	R 300,00	Rate only
	Labourer h	R 150,00	Rate only
	MILEAGE		
	Rate from the contractors office to the relevant site		
	One ton Vehicle kms	R 72,79	Rate only
	One and half ton Vehicle kms	R 75,46	Rate only
	Two ton Vehicle kms	R 140,92	Rate only
	Time sheets specifying the time spent upon work (with the names of workman) and the materials employed in dayworks shall be issued with the claim for payment)		
	<u>Materials</u>		
	The cost of all materials shall be substantiated with invoices for non scheduled items		
	Provisional sum for assisting Electronic Services (Supplied and Installed by Specialist Contractor)	sum 1	R 100 000,00
	Profit and attendance on Item above	% 10%	R 10 000,00
	Provisional sum for assisting Data Cabling (Supplied and Installed by Specialist Contractor)	sum 1	R 10 000,00
	Profit and attendance on Item above	% 10%	R 1 000,00
	Provisional sum for assisting Access Control Cabling (Supplied and Installed by Specialist Contractor)	sum 1	R 100 000,00
	Profit and attendance on Item above	% 10%	R 10 000,00

	DESCRIPTION		RATE		TOTAL
	<u>BILL NO.11</u>				
	Upgrading of backbone structure 4 Dorp Street				
	For the supply, installation and connecting inclusive of all supervision, labour, materials & waste, fixing materials, hoisting equipment, traveling costs and storage of:-				
	Ring Main Units (RMU)				
	Miscellaneous circuit breakers fitted into existing Medium Switch Gear complete with necessary cut outs, connecting to existing busbars				
1	Disconnect 11KV Termination	ea 3	R 2 500,00	R 7 500,00	
2	Supply and install 11kV Termination	ea 10	R 8 500,00	R 85 000,00	
3	Supply and install 11kV fuse	ea 10	R 2 500,00	R 25 000,00	
4	Pressure test termination	ea 10	R 6 500,00	R 65 000,00	
5	Supply and install transformer oil	ltrs 1 200	R 56,00	R 67 200,00	
6	Test Transformer	ea 10	R 6 500,00	R 65 000,00	
7	Test RMU	ea 10	R 6 500,00	R 65 000,00	
	RMU Enclosures				
5	Locks to be removed from the existing mini sub station	ea 10	R 280,00	R 2 800,00	
6	New locks installed on each Door	ea 10	R 357,91	R 3 579,11	
7	Doors to be aligned	ea 10	R 650,00	R 6 500,00	
8	Blank plates to be installed	ea 10	R 271,14	R 2 711,42	
9	Front panel locks to be amended	ea 10	R 280,00	R 2 800,00	
10	Cleaned and labelled	ea 10	R 373,29	R 3 732,87	
11	Liaise with Maintenance department for Access to LV Room	sum		R 2 500,00	
	Excavations				
	Excavated materials are classified as follows: Class A material (rock) will be held to be any material possessing characteristics of hardness and geological structure which, in the opinion of the Engineer, necessitates the use of explosives for excavation.				
12	Excavate 300 mm wide x 800 mm deep cable trench in Class C material (earth).	m 100	R 184,75	R 18 475,00	
13	SABS approved PVC Cable Warning Tape installed above cable in Sand bedding	m 100	R 7,18	R 718,00	
14	Import suitable material and install sand bedding to a depth of 75mm plus sand cover over cables or PVC sleeves to a depth of 75mm.	m 100	R 266,56	R 26 656,00	
	Backfilling				
15	Backfill with local material and compact in accordance with the specification. Per linear meter.	ea 100	R 176,31	R 17 631,00	
	Extra over for excavation in Class B material				
16	Excavate	m ³ 100	R 252,59	R 25 259,00	
	Extra over for excavation in Class A material				
17	Excavate	m ³ 100	R 208,79	R 20 879,00	

	DESCRIPTION		RATE		TOTAL
	Underground Ducts				
	Supply and install PVC underground ducts				
18	110 mm diameter Class 34	m 50	R 171,36	R	8 568,00
19	160 mm diameter Class 34	m 50	R 199,82	R	9 991,00
	Extra over for supply of slow bends in PVC ducts for entry into building (Minimum internal bending radius: 600 mm)				
20	110 mm diameter Class 34	ea 10	R 354,64	R	3 546,40
21	160 mm diameter Class 34	ea 10	R 513,16	R	5 131,60
	Supply and install on cable tray medium voltage XLPE copper cable				
23	185 mm² 3 core Cu cored	m	R 2 550,00	Rate only	
24	150 mm² 3 core Cu cored	m	R 2 250,00	Rate only	
25	120 mm² 3 core Cu cored	m 50	R 1 800,00	R	90 000,00
26	95 mm² 3 core Cu cored	m 50	R 1 650,00	R	82 500,00
27	70 mm² 3 core Cu cored	m 50	R 1 300,00	R	65 000,00
28	50 mm² 3 core Cu cored	m 50	R 950,00	R	47 500,00
29	35 mm² 3 core Cu cored	m 50	R 810,00	R	40 500,00
	Supply and install on cable tray medium voltage XLPE aluminium cable				
36	185 mm² 3 core Al cored	m	R 2 550,00	Rate only	
37	150 mm² 3 core Al cored	m	R 2 250,00	Rate only	
38	120 mm² 3 core Al cored	m	R 1 800,00	Rate only	
39	95 mm² 3 core Al cored	m	R 1 650,00	Rate only	
40	70 mm² 3 core Al cored	m	R 1 300,00	Rate only	
41	50 mm² 3 core Al cored	m	R 950,00	Rate only	
42	35 mm² 3 core Al cored	m	R 810,00	Rate only	
	Supply and lay in cable trench or pull into PVC duct medium voltage XLPE copper cable				
49	185 mm² 3 core Cu cored	m	R 2 550,00	Rate only	
50	150 mm² 3 core Cu cored	m	R 2 250,00	Rate only	
51	120 mm² 3 core Cu cored	m 100	R 1 800,00	R	180 000,00
52	95 mm² 3 core Cu cored	m 100	R 1 650,00	R	165 000,00
53	70 mm² 3 core Cu cored	m 100	R 1 300,00	R	130 000,00
54	50 mm² 3 core Cu cored	m 100	R 950,00	R	95 000,00
55	35 mm² 3 core Cu cored	m 100	R 810,00	R	81 000,00
	Supply and lay in cable trench or pull into PVC duct medium voltage XLPE aluminium cable				
62	185 mm² 4 core Al cored	m 100	R 1 980,00	R	198 000,00
63	150 mm² 4 core Al cored	m 100	R 1 790,00	R	179 000,00
64	120 mm² 4 core Al cored	m 100	R 1 680,00	R	168 000,00
65	95 mm² 4 core Al cored	m 100	R 1 359,00	R	135 900,00
66	70 mm² 4 core Al cored	m 100	R 1 110,00	R	111 000,00
67	50 mm² 4 core Al cored	m 100	R 950,00	R	95 000,00
68	35 mm² 4 core Al cored	m 100	R 810,00	R	81 000,00
	Cable fault location				
	Medium voltage fault location	ea 15	R 6 500,00	R	97 500,00
	Pressure test MV joints	ea 15	R 6 500,00	R	97 500,00
	<u>Materials</u>				
	The cost of all materials shall be substantiated with invoices for non scheduled items				

	DESCRIPTION		RATE		TOTAL
	Provisional sum for complete 315kVA 11kV/400V minisubstation (Supplied and Installed by Specialist Contractor)	sum1		R	650 000,00
	Profit and attendance on Item above	%	10%	R	65 000,00
	Provisional sum for complete 315kVA 11kV/400V minisubstation (Supplied and Installed by Specialist Contractor)	sum1		R	450 000,00
	Profit and attendance on Item above	%	10%	R	45 000,00
	Carried to Summary			R	3 890 578,39
	BILL NO.12				
	MISCELLANEOUS WORK				
	Upgrading of backbone structure 4 Dorp Street				
	For the supply, installation and connecting inclusive of all supervision, labour, materials & waste, fixing materials hoisting equipment traveling costs and storage of:-				
	Ring Main Units (RMU)				
	Miscellaneous circuit breakers fitted into existing medium Switch Gear complete with necessary cut outs connecting to existing busbars				
1	Disconnect 11KV Termination	ea3	R 2 500,00	R	7 500,00
2	Supply and install 11kV Termination	ea10	R 8 500,00	R	85 000,00
3	Supply and install 11kV fuse	ea10	R 2 500,00	R	25 000,00
4	Pressure test termination	ea10	R 6 500,00	R	65 000,00
5	Supply and install transformer oil	ltrs1 200	R 56,00	R	67 200,00
6	Test Transformer	ea10	R 6 500,00	R	65 000,00
7	Test RMU	ea10	R 6 500,00	R	65 000,00
	RMU Enclosures				
5	Locks to be removed from the existing mini sub station	ea10	R 280,00	R	2 800,00
6	New locks installed on each Door	ea10	R 357,91	R	3 579,11
7	Doors to be aligned	ea10	R 650,00	R	6 500,00
8	Blank plates to be installed	ea10	R 271,14	R	2 711,42
9	Front panel locks to be ammend	ea10	R 280,00	R	2 800,00
10	Cleaned and labelled	ea10	R 373,29	R	3 732,87
11	Liaise with Maintenance department for Access to LV Room	sum		R	2 500,00
	Excavations				

	DESCRIPTION		RATE	TOTAL
	Excavated materials are classified as follows.			
12	Class A material (rock) will be held to be any material possessing characteristics of hardness and			
	Excavate 300 mm wide x 800 mm deep cable trench in Class C material	m	100	
	(earth)			
13	SABS approved PVC Cable Warning Tape installed above cable in	m	100	
	Sand bedding			
14	Import suitable material and install sand bedding to a depth of 75mm plus	m	100	
	sand cover over cables or PVC sleeves to a depth of 75mm			
	Backfilling			
15	Backfill with local material and compact in accordance with the	ea	100	
	specification. Per linear meter			
	Extra over for excavation in Class B material			
16	Excavate	m³	100	
	Extra over for excavation in Class A material			
17	Excavate	m³	100	
	Underground Ducts			
	Supply and install PVC underground ducts			
18	110 mm diameter Class 34	m	50	
19	160 mm diameter Class 34	m	50	
	Extra over for supply of slow bends in PVC ducts for entry into building (minimum internal			
	bending radius: 600 mm)			
20	110 mm diameter Class 34	ea	10	
21	160 mm diameter Class 34	ea	10	
	Supply and install on cable tray medium voltage XLPE copper cable			
23	185 mm² 3 core Cu cored	m		Rate only
24	150 mm² 3 core Cu cored	m		Rate only
25	120 mm² 3 core Cu cored	m	50	
26	95 mm² 3 core Cu cored	m	50	
27	70 mm² 3 core Cu cored	m	50	
28	50 mm² 3 core Cu cored	m	50	
29	35 mm² 3 core Cu cored	m	50	
	Supply and install on cable tray medium voltage XLPE aluminium cable			
36	185 mm² 3 core Al cored	m		Rate only
37	150 mm² 3 core Al cored	m		Rate only
38	120 mm² 3 core Al cored	m		Rate only
39	95 mm² 3 core Al cored	m		Rate only
40	70 mm² 3 core Al cored	m		Rate only
41	50 mm² 3 core Al cored	m		Rate only
42	35 mm² 3 core Al cored	m		Rate only
	Supply and lay in cable trench or pull into PVC duct medium voltage XLPE copper cable			
49	185 mm² 3 core Cu cored	m		Rate only
50	150 mm² 3 core Cu cored	m		Rate only
51	120 mm² 3 core Cu cored	m	100	
52	95 mm² 3 core Cu cored	m	100	
53	70 mm² 3 core Cu cored	m	100	
54	50 mm² 3 core Cu cored	m	100	
55	35 mm² 3 core Cu cored	m	100	
	Supply and lay in cable trench or pull into PVC duct medium voltage XLPE aluminium cable			
62	185 mm² 4 core Al cored	m	100	
63	150 mm² 4 core Al cored	m	100	
64	120 mm² 4 core Al cored	m	100	
65	95 mm² 4 core Al cored	m	100	

	DESCRIPTION		RATE		TOTAL
66	70 mm² 4 core Al cored	m100	R	1 100,00	R 110 000,00
67	50 mm² 4 core Al cored	m100	R	980,00	R 98 000,00
68	35 mm² 4 core Al cored	m100	R	850,00	R 85 000,00
	Cable fault location				
	Medium voltage fault location	ea15	R	6 500,00	R 97 500,00
	Pressure test MV joints	ea15	R	6 500,00	R 97 500,00
	<u>Materials</u>				
	The cost of all materials shall be substantiated with invoices for non scheduled items				
	(Supplied and Installed by Specialist Contractor)	sum1			R 650 000,00
	Profit and attendance on Item above	%		10%	R 65 000,00
	(Supplied and Installed by Specialist Contractor)	sum1			R 450 000,00
	Profit and attendance on Item above	%		10%	R 45 000,00
	Carried to Summary				R 4 157 178,39

	DESCRIPTION	RATE	TOTAL
	SECTION NO. 3 ELECTRICAL WORK SECTION SUMMARY		
1	P&G	R	189 000,00
2	MAIN LV ROOM	R	82 673,28
3	LV RETICULATION	R	388 762,18
4	WIREWAY	R	247 195,61
5	LIGHTING	R	4 135 071,93
6	GENERAL POWER	R	2 592 398,94
7	ACCESS CONTROL	R	88 895,66
8	SMOKE DETECTION	R	321 860,63
9	MISCELLANEOUS WORK	R	621 901,54
10	DAY WORKS	R	264 000,00
11	MV RETICUTLATION	R	3 890 578,39
	TOTAL : SECTION 4 : AIR CONDITIONING AND VENTILATION INSTALLATION	R	12 822 338,16

SECTION 4 : AIR CONDITIONING AND VENTILATION SYSTEM					
COMMON RATES					
	DESCRIPTION			RATE	TOTAL
	<u>BILL NO.1</u> <u>GENERAL COST</u>				
1	Allow an amount if required for expenses incurred to tender.	sum	1	2 425,00 R	2 425,00
2	Loading and off loading of material and equipment	sum	1	2 000,00 R	2 000,00
3	Setting out of Works.	sum	1	1 000,00 R	1 000,00
4	Cleaning of site upon completion of Contract.	sum	1	925,00 R	925,00
5	Critical Path/Schedule.	sum	1	750,00 R	750,00
6	Issuing Cadded Workshop drawings	sum	1	2 216,25 R	2 216,25
7	Issuing 4 sets of "As-built" drawings and operational manuals including CD	sum	1	5 156,25 R	5 156,25
8	Test and commissioning of complete Works.	sum	1	4 054,73 R	4 054,73
9	Inspection and handing over.	sum	1	666,25 R	666,25
10	QC/QA	sum	1	675,00 R	675,00
11	Other items not specifically mentioned	sum	1	250,00 R	250,00
12	Allow for complying with the conditions & requirements of tendering & contract conditions	sum	1	48 375,00 R	48 375,00
13	Miscellaneous items not in BOQ for a complete and working installation to be listed below:	sum	1	6 250,00 R	6 250,00
14	12 month maintenance	sum	1	68 015,81 R	68 015,81
15	Stripping and removal of the existing 2-off air handling units in the plantrooms, along with all associated ducting, diffusers, grilles, etc. from the site.	sum	1	20 950,00 R	20 950,00

	DESCRIPTION		RATE	TOTAL
	Carried to Summary R			R 163 709,29
	<u>BILL NO.2</u> <u>CHILLED AND HOT WATER PIPING</u>			
1	Supply and install BLACK STEEL CHILLED water piping to AHU's, C/W PIC insulation with painted fibre glass reinforcement, as per the specification and drawings m 100	1 507,44	R	150 744,00
2	Supply and installation of all fittings, bracketing, hangers and spring mounts as required on the chilled water piping. m 100	150,27	R	15 027,00
3	Painting and labelling of all chilled water equipment sum 1		R	3 448,75
4	Supply and install COPPER CLASS 2 MEDIUM GRADE chilled water piping to FCU's, C/W PIC insulation with painted fibre glass reinforcement, as per the specification and drawings m 200	825,22	R	165 044,00
5	Supply and installation of all fittings, bracketing, hangers and spring mounts as required on the chilled water piping. m 200	153,96	R	30 792,00
6	Painting and labelling of all chilled water equipment sum 1		R	1 918,40
7	Supply and install COPPER CLASS 2 MEDIUM GRADE hot water piping, C/W PIC insulation with painted fibre glass reinforcement, as per the specification and drawings m 100	1 002,81	R	100 281,00
8	Supply and installation of all fittings, bracketing, hangers and spring mounts as required on the chilled water piping. m 100	200,43	R	20 043,00
9	Painting and labelling of all hot water equipment sum 1		R	1 918,40
10	Supply and installation of all medium duty welded mesh constructed cable trays complete with P2000 supports, threaded rods at 1000mm spacings, complete with brackets, supports, etc to route the chilled water, hot water piping and control cabling to all fan coil units as per the drawings and specifications. m 200	393,59	R	78 718,00
11	Supply and implementation for the closed circuit Corrosion and Deposit inhibitor as well as a Biocide must also be provided. Including a cleaning, flushing, pre-treatment chemical for the closed circuit. sum 1		R	19 295,00
12	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent. sum 1		R	6 250,00

	DESCRIPTION		RATE	TOTAL
	Carried to Summary R			R 593 479,55
	<u>BILL NO.3</u> <u>AIR HANDLING UNITS</u>			
	<u>AHU-01 - NW Zone</u>			
1	Supply and installation of an Air Options or a product of equal or greater quality, chilled water variable volume air handling unit complete with cooling coils, heating coils, controls, sensors, valves, variable speed drives, condensate piping routed to the nearest foul sewer drain, supports, brackets, sundries, filters, etc. as per the drawings, schedules and this specification MOD025VV	sum 1	161 732,07	R 161 732,07
2	Supply and install VALVES as per the specification and drawings			
	Shut off valves	sum 1	3 675,54	R 3 675,54
	3-way modulating valves	sum 1	8 199,51	R 8 199,51
	Pressure flow valves	sum 1	2 011,45	R 2 011,45
	Breather valves	sum 1	1 120,00	R 1 120,00
	Automatic Air Relief Valves	sum 1	1 214,25	R 1 214,25
3	Supply and install GUAGES and SENSORS as per the specification and drawings			
	Thermometer	sum 1	2 289,50	R 2 289,50
	Manometer	sum 1	2 281,00	R 2 281,00
	Super seal socket	sum 1	1 880,00	R 1 880,00
	Water temperature sensor	sum 1	2 799,19	R 2 799,19
4	Supply and installation of all electrical wiring from the air handling unit to the ACDB, including all associated control wiring required, for a full working installation as per the technical specifications	sum 1	20 163,35	R 20 163,35
5	Supply and installation of the complete condensate drainage system using PVC piping for the condensate, reticulated to the nearest foul sewer drain via a u-trap.	m 5	328,35	R 1 641,75
	Ducting			
6	Supply and installation of new internally insulated GALVANISED MILD STEEL SHEET METAL SUPPLY AIR ducting and fittings complete with all hangers and supports as indicated on the drawing and as per this specification.	m ² 95	691,70	R 65 711,26
7	Supply and installation of new externally insulated GALVANISED MILD STEEL SHEET METAL SUPPLY AIR ducting and fittings complete with all hangers and supports as indicated on the drawing and as per this specification.	m ² 5	639,54	R 3 197,71
8	Supply and installation of new internally insulated GALVANISED MILD STEEL SHEET METAL RETURN AIR ducting and fittings complete with all hangers and supports as indicated on the drawing and as per this specification.	m ² 95	691,70	R 65 711,26
9	Supply and installation of new exposed uninsulated GALVANISED MILD STEEL SHEET METAL SUPPLY AIR ducting and fittings complete with all hangers and supports as indicated on the drawing and as per this specification.	m ² 35	489,46	R 17 130,93
10	The treating, cleaning and painting of all exposed ducting to the colour specified by the architect (powder coated mouse grey).	m ² 225	233,45	R 52 525,13

	DESCRIPTION	RATE	TOTAL
11	Attenuators Supply and installation of Donkin splitter type attenuators, or equal, as specified: W x H x L 800x450x1200 no1	5 965,87	R 5 965,87

	DESCRIPTION			RATE		TOTAL
	Diffusers					
12	Supply and installation of Rickard or equal, variable volume supply air diffusers, complete with lobster back connections to diffusers, OBD's, power packs, wiring etc.					
	Ø200-VRD master	no	2	3 164,31	R	6 328,62
	Ø250-VRD master	no	1			
	Ø250-VRD slave	no	7	2 122,49	R	14 857,43
	Fire Dampers					
13	Supply and installation of Electrovent or equal motorised fire dampers with failsafe spring operation complete with electrical connections, etc. as per the drawings and specifications.					
	550x550	no	1	2 910,19	R	2 910,19
	1200x400	no	1	4 617,73	R	4 617,73
	Pressure control dampers					
14	Supply and installation of "TROX" or equal MOTORISED PRESSURE CONTROL DAMPERS complete with the supply and installation of the pressure sensor connected to the motorised damper, as per the drawings and specifications					
	350x350	no	1	3 496,34	R	3 496,34
	650x400	no	1	3 630,95	R	3 630,95
	0-100 Pa pressure sensor	no	2	696,74	R	1 393,48
	Motorised volume control dampers					
15	Supply and installation of "TROX" or equal MOTORISED VOLUME CONTROL DAMPERS complete, as per the drawings and specifications					
	1200x400	no	1	3 691,21	R	3 691,21
	1000x1000	no	1	3 463,11	R	3 463,11
16	Supply and installation of all bracketing, hangers and spring mounts as required on the chilled and hot water piping.	sum	1	5 502,50	R	5 502,50
17	Supply and installation of all sensors, thermometers, pressure gauges etc. as per drawings and specification.	sum	1	5 868,20	R	5 868,20
18	Supply and install of shut-off valves, balancing valves, strainers etc. as indicated on the drawings and specification.	sum	1	10 373,25	R	10 373,25
	Return air grilles					
19	Supply and installation of Air Movement Equipment or equal return air grilles complete with OBD, as per the drawings and specification.					
	600x600	no	8	935,10	R	7 480,80
20	Cutting in new chilled water piping into the existing main chilled water lines to feed AHU-1 complete with valves, draining if required, chemical dosing, etc.	sum	1	11 118,75	R	11 118,75
21	Commisioning of the system	sum	1	3 594,40	R	3 594,40
22	Supply and installation of a temperature sensor for the space, complete in the position as indicated on the drawings.	sum	1	4 374,13	R	4 374,13

	DESCRIPTION		RATE	TOTAL
23	Supply and installation of all flexible connections to airconditioning units complete with the necessary dampers as indicated on the drawings	sum	1	2 197,75 R
				2 197,75

	DESCRIPTION			RATE		TOTAL
24	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent.	sum	1	375,00	R	375,00
	AHU-02 - NE Zone					
25	Supply and installation of an Air Options or a product of equal or greater quality, chilled water variable volume air handling unit complete with cooling coils, heating coils, controls, sensors, valves, variable speed drives, condensate piping routed to the nearest foul sewer drain, supports, brackets, sundries, filters, etc. as per the drawings, schedules and this specification MOD025VV	sum	1	157 673,86	R	157 673,86
26	Supply and install VALVES as per the specification and drawings					
	Shut off valves	sum	1	4 882,96	R	4 882,96
	3-way modulating valves	sum	1	8 562,67	R	8 562,67
	Pressure flow valves	sum	1	1 901,45	R	1 901,45
	Breather valves	sum	1	1 135,00	R	1 135,00
	Automatic Air Relief Valves	sum	1	1 214,25	R	1 214,25
27	Supply and install GUAGES and SENSORS as per the specification and drawings					
	Thermometer	sum	1	2 289,50	R	2 289,50
	Manometer	sum	1	2 281,00	R	2 281,00
	Super seal socket	sum	1	1 880,00	R	1 880,00
	Water temperature sensor	sum	1	2 799,06	R	2 799,06
28	Supply and installation of all electrical wiring from the air handling unit to the ACDB, including all associated control wiring required, for a full working installation as per the technical specifications	sum	1	20 453,35	R	20 453,35
29	Supply and installation of the complete condensate drainage system using PVC piping for the condensate, reticulated to the nearest foul sewer drain via a u-trap.	m	5	328,35	R	1 641,75
	Ducting					
30	Supply and installation of new internally insulated GALVANISED MILD STEEL SHEET METAL SUPPLY AIR ducting and fittings complete with all hangers and supports as indicated on the drawing and as per this specification.	m ²	85	691,70	R	58 794,50
31	Supply and installation of new externally insulated GALVANISED MILD STEEL SHEET METAL SUPPLY AIR ducting and fittings complete with all hangers and supports as indicated on the drawing and as per this specification.	m ²	5	639,54	R	3 197,70
32	Supply and installation of new internally insulated GALVANISED MILD STEEL SHEET METAL RETURN AIR ducting and fittings complete with all hangers and supports as indicated on the drawing and as per this specification.	m ²	5	691,70	R	3 458,50
33	Supply and installation of new exposed uninsulated GALVANISED MILD STEEL SHEET METAL SUPPLY AIR ducting and fittings complete with all hangers and supports as indicated on the drawing and as per this specification.	m ²	20	489,46	R	9 789,20
34	The treating, cleaning and painting of all exposed ducting to the colour specified by the architect (powder coated mouse grey).	m ²	110	233,45	R	25 679,50
	Attenuators					
35	Supply and installation of Donkin splitter type attenuators, or equal, as specified: W x H x L					

	DESCRIPTION			RATE		TOTAL
	650x400x1200	no	1	5 802,48	R	5 802,48

	DESCRIPTION			RATE		TOTAL
	Diffusers					
36	Supply and installation of Rickard or equal, variable volume supply air diffusers, complete with lobster back connections to diffusers, OBD's, power packs, wiring etc.					
	Ø200-VRD master	no	4	3 193,67	R	12 774,68
	Ø200-VRD slave	no	6	2 171,28	R	13 027,68
	Fire Dampers					
37	Supply and installation of Electrovent or equal motorised fire dampers with failsafe spring operation complete with electrical connections, etc. as per the drawings and specifications.					
	550x550	no	1	3 024,02	R	3 024,02
38	Supply and installation of all bracketing, hangers and spring mounts as required on the chilled and hot water piping.	sum	1	4 635,00	R	4 635,00
39	Supply and installation of all sensors, thermometers, pressure gauges etc. as per drawings and specification.	sum	1	5 950,70	R	5 950,70
40	Supply and install of shut-off valves, balancing valves, strainers etc. as indicated on the drawings and specification.	sum	1	9 058,30	R	9 058,30
	Disk valves					
41	Supply and installation of Air Movement Equipment or equal supply air valves complete with OBD, as per the drawings and specification.					
	Ø200	no	1	293,09	R	293,09
42	Cutting in new chilled water piping into the existing main chilled water lines to feed AHU-2 complete with valves, draining if required, chemical dosing, etc.	sum	1	9 258,75	R	9 258,75
43	Commisioning of the system	sum	1	2 719,40	R	2 719,40
44	Supply and installation of a temperature sensor for the space, complete in the position as indicated on the drawings.	sum	1	4 840,52	R	4 840,52
45	Supply and installation of all flexible connections to airconditioning units complete with the necessary dampers as indicated on the drawings	sum	1	2 197,75	R	2 197,75
46	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent.	sum	1	375,00	R	375,00
	AHU-03 - SE Zone					
47	Supply and installation of an Air Options or a product of equal or greater quality, chilled water variable volume air handling unit complete with cooling coils, heating coils, controls, sensors, valves, variable speed drives, condensate piping routed to the nearest foul sewer drain, supports, brackets, sundries, filters, etc. as per the drawings, schedules and this specification					
	MOD025 (double unit)	sum	1	423 911,55	R	423 911,55
48	Supply and install VALVES as per the specification and drawings					
	Shut off valves	sum	1	3 465,58	R	3 465,58
	3-way modulating valves	sum	1	8 562,67	R	8 562,67
	Pressure flow valves	sum	1	1 901,45	R	1 901,45
	Breather valves	sum	1	1 135,00	R	1 135,00

	DESCRIPTION			RATE		TOTAL
	Automatic Air Relief Valves	sum	1	1 214,25	R	1 214,25

	DESCRIPTION			RATE		TOTAL
49	Supply and install GUAGES and SENSORS as per the specification and drawings					
	Thermometer	sum	1	2 289,50	R	2 289,50
	Manometer	sum	1	2 281,00	R	2 281,00
	Super seal socket	sum	1	1 880,00	R	1 880,00
	Water temperature sensor	sum	1	2 799,19	R	2 799,19
50	Supply and installation of all electrical wiring from the air handling unit to the ACDB, including all associated control wiring required, for a full working installation as per the technical specifications	sum	1	20 998,35	R	20 998,35
51	Supply and installation of the complete condensate drainage system using PVC piping for the condensate, reticulated to the nearest foul sewer drain via a u-trap.	m	5	232,50	R	1 162,50
	Ducting					
52	Supply and installation of new internally insulated GALVANISED MILD STEEL SHEET METAL SUPPLY AIR ducting and fittings complete with all hangers and supports as indicated on the drawing and as per this specification.	m ²	130	691,70	R	89 921,00
53	Supply and installation of new externally insulated GALVANISED MILD STEEL SHEET METAL SUPPLY AIR ducting and fittings complete with all hangers and supports as indicated on the drawing and as per this specification.	m ²	25	639,54	R	15 988,50
54	Supply and installation of new internally insulated GALVANISED MILD STEEL SHEET METAL RETURN AIR ducting and fittings complete with all hangers and supports as indicated on the drawing and as per this specification.	m ²	60	691,70	R	41 502,00
55	Supply and installation of new exposed uninsulated GALVANISED MILD STEEL SHEET METAL SUPPLY AIR ducting and fittings complete with all hangers and supports as indicated on the drawing and as per this specification.	m ²	10	489,46	R	4 894,60
56	The treating, cleaning and painting of all exposed ducting to the colour specified by the architect (powder coated mouse grey).	sum	1	4 052,87	R	4 052,87
	Attenuators					
57	Supply and installation of Donkin splitter type attenuators, or equal, as specified: W x H x L 800x450x1200	no	1	5 467,05	R	5 467,05
	Diffusers					
58	Supply and installation of Rickard or equal, variable volume supply air diffusers, complete with lobster back connections to diffusers, OBD's, power packs, wiring etc.					
	Ø250-VRD master	no	2	3 193,67	R	6 387,34
	Ø250-VRD slave	no	4	2 171,28	R	8 685,12
	Ø150-VRD master	no	1	3 193,67	R	3 193,67
	Ø150-VRD slave	no	1	2 171,28	R	2 171,28
	Ø250-VCD master	no	1	2 291,28	R	2 291,28
59	Supply and installation of Air Movement Equipment or equal supply air valves complete with OBD, as per the drawings and specification. Ø200	no	1	259,22	R	259,22

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION			RATE		TOTAL
	Fire Dampers					
60	Supply and installation of Electrovent or equal motorised fire dampers with failsafe spring operation complete with electrical connections, etc. as per the drawings and specifications.					
	1200x400	no	1	4 499,15	R	4 499,15
	550x550	no	1	3 024,02	R	3 024,02
	250x250	no	1	1 962,95	R	1 962,95
	Pressure control dampers					
61	Supply and installation of "TROX" or equal MOTORISED PRESSURE CONTROL DAMPERS complete with the supply and installation of the pressure sensor connected to the motorised damper, as per the drawings and specifications					
	700x400	no	1	2 687,65	R	2 687,65
	500x350	no	1	2 470,42	R	2 470,42
	0-100 Pa pressure sensor	no	2	696,74	R	1 393,48
	Motorised volume control dampers					
62	Supply and installation of "TROX" or equal MOTORISED VOLUME CONTROL DAMPERS complete, as per the drawings and specifications					
	1200x400	no	1	3 293,37	R	3 293,37
	1000x1000	no	1	3 499,37	R	3 499,37
63	Supply and installation of all bracketing, hangers and spring mounts as required on the chilled and hot water piping.	sum	1	4 302,50	R	4 302,50
64	Supply and installation of all sensors, thermometers, pressure gauges etc. as per drawings and specification.	sum	1	6 558,20	R	6 558,20
65	Supply and install of shut-off valves, balancing valves, strainers etc. as indicated on the drawings and specification.	sum	1	9 783,30	R	9 783,30
	Return air grilles					
66	Supply and installation of Air Movement Equipment or equal return air grilles complete with OBD, as per the drawings and specification.					
	600x600	no	4	935,10	R	3 740,39
67	Cutting in new chilled water piping into the existing main chilled water lines to feed AHU-3 complete with valves, draining if required, chemical dosing, etc.	sum	1	9 698,75	R	9 698,75
68	Commisioning of the system	sum	1	2 769,40	R	2 769,40
69	Supply and installation of a temperature sensor for the space, complete in the position as indicated on the drawings.	sum	1	4 304,13	R	4 304,13
70	Supply and installation of all flexible connections to airconditioning units complete with the necessary dampers as indicated on the drawings	sum	1	2 427,75	R	2 427,75
71	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent.	sum	1	1 212,50	R	1 212,50

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION			RATE		TOTAL
	AHU-04 - SW Zone					
72	Supply and installation of an Air Options or a product of equal or greater quality, chilled water variable volume air handling unit complete with cooling coils, heating coils, controls, sensors, valves, variable speed drives, condensate piping routed to the nearest foul sewer drain, supports, brackets, sundries, filters, etc. as per the drawings, schedules and this specification					
	MOD025 (double unit)	sum	1	176 874,85	R	176 874,85
73	Supply and install VALVES as per the specification and drawings					
	Shut off valves	sum	1	2 753,08	R	2 753,08
	3-way modulating valves	sum	1	8 562,67	R	8 562,67
	Pressure flow valves	sum	1	1 901,45	R	1 901,45
	Breather valves	sum	1	1 135,00	R	1 135,00
	Automatic Air Relief Valves	sum	1	1 214,25	R	1 214,25
74	Supply and install GUAGES and SENSORS as per the specification and drawings					
	Thermometer	sum	1	2 289,50	R	2 289,50
	Manometer	sum	1	2 281,00	R	2 281,00
	Super seal socket	sum	1	1 880,00	R	1 880,00
	Water temperature sensor	sum	1	2 799,06	R	2 799,06
75	Supply and installation of all electrical wiring from the air handling unit to the ACDB, including all associated control wiring required, for a full working installation as per the technical specifications	sum	1	20 663,35	R	20 663,35
	Supply and installation of the complete condensate drainage system using PVC piping for the condensate, reticulated to the nearest foul sewer drain via a u-trap.	m	5	328,35	R	1 641,75
	Ducting					
76	Supply and installation of new internally insulated GALVANISED MILD STEEL SHEET METAL SUPPLY AIR ducting and fittings complete with all hangers and supports as indicated on the drawing and as per this specification.	m ²	85	691,70	R	58 794,50
77	Supply and installation of new externally insulated GALVANISED MILD STEEL SHEET METAL SUPPLY AIR ducting and fittings complete with all hangers and supports as indicated on the drawing and as per this specification.	m ²	5	639,54	R	3 197,70
78	Supply and installation of new internally insulated GALVANISED MILD STEEL SHEET METAL RETURN AIR ducting and fittings complete with all hangers and supports as indicated on the drawing and as per this specification.	m ²	50	691,70	R	34 585,00
79	Supply and installation of new exposed uninsulated GALVANISED MILD STEEL SHEET METAL SUPPLY AIR ducting and fittings complete with all hangers and supports as indicated on the drawing and as per this specification.	m ²	25	489,46	R	12 236,50
80	The treating, cleaning and painting of all exposed ducting to the colour specified by the architect (powder coated mouse grey).	m ²	160	233,45	R	37 352,00
	Attenuators					
81	Supply and installation of Donkin splitter type attenuators, or equal, as specified:					
	W x H x L					
	800x450x1200	no	1	6 067,05	R	6 067,05

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION			RATE		TOTAL
	Diffusers					
82	Supply and installation of Rickard or equal, variable volume supply air diffusers, complete with lobster back connections to diffusers, OBD's, power packs, wiring etc.					
	Ø250-VRD master	no	4	3 193,67	R	12 774,68
	Ø250-VRD slave	no	6	2 171,28	R	13 027,68
	Fire Dampers					
83	Supply and installation of Electrovent or equal motorised fire dampers with failsafe spring operation complete with electrical connections, etc. as per the drawings and specifications.					
	550x550	no	1	4 063,43	R	4 063,43
	Pressure control dampers					
84	Supply and installation of "TROX" or equal MOTORISED PRESSURE CONTROL DAMPERS complete with the supply and installation of the pressure sensor connected to the motorised damper, as per the drawings and specifications					
	550x350	no	1	2 631,53	R	2 631,53
	650x350	no	1	2 638,22	R	2 638,22
	0-100 Pa pressure sensor	no	2	696,74	R	1 393,48
85	Supply and installation of all bracketing, hangers and spring mounts as required on the chilled and hot water piping.	sum	1	3 620,00	R	3 620,00
86	Supply and installation of all sensors, thermometers, pressure gauges etc. as per drawings and specification.	sum	1	6 495,70	R	6 495,70
87	Supply and install of shut-off valves, balancing valves, strainers etc. as indicated on the drawings and specification.	sum	1	9 648,30	R	9 648,30
	Return air grilles					
88	Supply and installation of Air Movement Equipment or equal return air grilles complete with OBD, as per the drawings and specification.					
	600x600	no	5	935,10	R	4 675,50
89	Cutting in new chilled water piping into the existing main chilled water lines to feed AHU-4 complete with valves, draining if required, chemical dosing, etc.	sum	1	9 691,25	R	9 691,25
90	Commisioning of the system	sum	1	2 769,40	R	2 769,40
91	Supply and installation of a temperature sensor for the space, complete in the position as indicated on the drawings.	sum	1	4 324,13	R	4 324,13
92	Supply and installation of all flexible connections to airconditioning units complete with the necessary dampers as indicated on the drawings	sum	1	2 202,75	R	2 202,75
93	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent.	sum	1	625,00	R	625,00

	DESCRIPTION	RATE	TOTAL
	Carried to Summary R		R 2 076 967,28

	DESCRIPTION			RATE		TOTAL
	<u>BILL NO.4</u> <u>FAN COIL UNITS</u>					
	<u>FCU-1</u>					
1	Supply and installation of Intramech or a product of equal or greater quality, chilled water fan coil cassette unit complete with cooling coils, heating coils, controls, sensors, valves, condensate piping routed to the nearest foul sewer drain, supports, brackets, sundries, filters, etc. as per the drawings, schedules and this specification.					
	PCE2-16	sum	1	17 617,99	R	17 617,99
2	Supply and install VALVES as per the specification and drawings					
	Shut off valves	sum	1	2 348,33	R	2 348,33
	3-way modulating valves	sum	1	6 986,12	R	6 986,12
	Pressure flow valves	sum	1	1 467,50	R	1 467,50
	Breather valves	sum	1	880,00	R	880,00
	Automatic Air Relief Valves	sum	1	986,75	R	986,75
3	Supply and install GUAGES and SENSORS as per the specification and drawings					
	Thermometer	sum	1	1 993,50	R	1 993,50
	Manometer	sum	1	2 051,00	R	2 051,00
	Super seal socket	sum	1	1 687,50	R	1 687,50
	Water temperature sensor	sum	1	2 768,94	R	2 768,94
4	Supply and installation of "TROX" or equal OPPOSED BACKDRAFT DAMPERS complete, as per the drawings and specifications					
	Ø150	no	1	571,08	R	571,08
5	Supply and installation of all electrical wiring from the fan coil unit to the isolator, including all associated controls wiring required, for a full working installation as per the technical specifications	sum	1	5 914,60	R	5 914,60
6	Supply and installation of the complete condensate drainage system using PVC piping for the condensate, reticulated to the nearest foul sewer drain via a u-trap.	sum	1	997,42	R	997,42
7	Installation of new intelligent wall-mounted control module controlling the sum		1	1 503,75	R	1 503,75
8	Supply and installation of all bracketing, hangers and spring mounts as required on the chilled and hot water piping.	sum	1	1 254,20	R	1 254,20
9	Supply and installation of all sensors, thermometers, pressure gauges etc. as per drawings and specification.	sum	1	1 583,40	R	1 583,40
10	Supply and install of shut-off valves, balancing valves, strainers etc. as indicated on the drawings and specification.	sum	1	3 575,83	R	3 575,83
11	Commisioning of the system	sum	1	2 056,90	R	2 056,90
12	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent.	sum	1	625,00	R	625,00

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION			RATE		TOTAL
	<u>FCU-2</u>					
13	Supply and installation of Intramech or a product of equal or greater quality, chilled water fan coil cassette unit complete with cooling coils, heating coils, controls, sensors, valves, condensate piping routed to the nearest foul sewer drain, supports, brackets, sundries, filters, etc. as per the drawings, schedules and this specification.					
	PCE2-06P	sum	1	13 851,82	R	13 851,82
14	Supply and install VALVES as per the specification and drawings					
	Shut off valves	sum	1	2 348,33	R	2 348,33
	3-way modulating valves	sum	1	6 986,12	R	6 986,12
	Pressure flow valves	sum	1	1 467,50	R	1 467,50
	Breather valves	sum	1	880,00	R	880,00
	Automatic Air Relief Valves	sum	1	986,75	R	986,75
15	Supply and install GUAGES and SENSORS as per the specification and drawings					
	Thermometer	sum	1	1 993,50	R	1 993,50
	Manometer	sum	1	2 051,00	R	2 051,00
	Super seal socket	sum	1	1 687,50	R	1 687,50
	Water temperature sensor	sum	1	2 768,94	R	2 768,94
16	Supply and installation of "TROX" or equal OPPOSED BACKDRAFT DAMPERS complete, as per the drawings and specifications					
	Ø150	no	1	571,08	R	571,08
17	Supply and installation of all electrical wiring from the fan coil unit to the isolator, including all associated controls wiring required, for a full working installation as per the technical specifications	sum	1	5 914,60	R	5 914,60
18	Supply and installation of the complete condensate drainage system using PVC piping for the condensate, reticulated to the nearest foul sewer drain via a u-trap.	sum	1	997,42	R	997,42
19	Installation of new intelligent wall-mounted control module controlling the sum		1	1 503,75	R	1 503,75
20	Supply and installation of all bracketing, hangers and spring mounts as required on the chilled and hot water piping.	sum	1	1 254,20	R	1 254,20
21	Supply and installation of all sensors, thermometers, pressure gauges etc. as per drawings and specification.	sum	1	1 583,40	R	1 583,40
22	Supply and install of shut-off valves, balancing valves, strainers etc. as indicated on the drawings and specification.	sum	1	3 575,83	R	3 575,83
23	Commisioning of the system	sum	1	2 056,90	R	2 056,90
24	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent.	sum	1	625,00	R	625,00
	<u>FCU-3</u>					
25	Supply and installation of Intramech or a product of equal or greater quality, chilled water fan coil cassette unit complete with cooling coils, heating coils, controls, sensors, valves, condensate piping routed to the nearest foul sewer drain, supports, brackets, sundries, filters, etc. as per the drawings, schedules and this specification.					
	PCF2-20	sum	1	16 638,92	R	16 638,92

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION			RATE		TOTAL
26	Supply and install VALVES as per the specification and drawings					
	Shut off valves	sum	1	2 348,33	R	2 348,33
	3-way modulating valves	sum	1	6 986,12	R	6 986,12
	Pressure flow valves	sum	1	1 467,50	R	1 467,50
	Breather valves	sum	1	880,00	R	880,00
	Automatic Air Relief Valves	sum	1	986,75	R	986,75
27	Supply and install GUAGES and SENSORS as per the specification and drawings					
	Thermometer	sum	1	1 993,50	R	1 993,50
	Manometer	sum	1	2 051,00	R	2 051,00
	Super seal socket	sum	1	1 687,50	R	1 687,50
	Water temperature sensor	sum	1	2 768,94	R	2 768,94
28	Supply and installation of "TROX" or equal OPPOSED BACKDRAFT DAMPERS complete, as per the drawings and specifications Ø250	no	1	571,08	R	571,08
29	Supply and installation of all electrical wiring from the fan coil unit to the isolator, including all associated controls wiring required, for a full working installation as per the technical specifications	sum	1	5 914,60	R	5 914,60
30	Supply and installation of the complete condensate drainage system using PVC piping for the condensate, reticulated to the nearest foul sewer drain via a u-trap.	sum	1	997,42	R	997,42
31	Installation of new intelligent wall-mounted control module controlling the sum		1	1 503,75	R	1 503,75
32	Supply and installation of all bracketing, hangers and spring mounts as required on the chilled and hot water piping.	sum	1	1 254,20	R	1 254,20
33	Supply and installation of all sensors, thermometers, pressure gauges etc. as per drawings and specification.	sum	1	1 583,40	R	1 583,40
34	Supply and install of shut-off valves, balancing valves, strainers etc. as indicated on the drawings and specification.	sum	1	3 575,83	R	3 575,83
35	Commisioning of the system	sum	1	2 056,90	R	2 056,90
36	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent.	sum	1	625,00	R	625,00
	<u>FCU-4</u>					
37	Supply and installation of Intramech or a product of equal or greater quality, chilled water fan coil cassette unit complete with cooling coils, heating coils, controls, sensors, valves, condensate piping routed to the nearest foul sewer drain, supports, brackets, sundries, filters, etc. as per the drawings, schedules and this specification. PCE2-08P	sum	1	13 486,90	R	13 486,90
38	Supply and install VALVES as per the specification and drawings					
	Shut off valves	sum	1	2 348,33	R	2 348,33
	3-way modulating valves	sum	1	6 986,12	R	6 986,12
	Pressure flow valves	sum	1	1 467,50	R	1 467,50
	Breather valves	sum	1	880,00	R	880,00
	Automatic Air Relief Valves	sum	1	986,75	R	986,75

	DESCRIPTION			RATE		TOTAL
39	Supply and install GUAGES and SENSORS as per the specification and drawings					
	Thermometer	sum	1	1 993,50	R	1 993,50
	Manometer	sum	1	2 051,00	R	2 051,00
	Super seal socket	sum	1	1 687,50	R	1 687,50
	Water temperature sensor	sum	1	2 768,94	R	2 768,94
40	Supply and installation of "TROX" or equal OPPOSED BACKDRAFT DAMPERS complete, as per the drawings and specifications Ø150	no	1	571,08	R	571,08
41	Supply and installation of all electrical wiring from the fan coil unit to the isolator, including all associated controls wiring required, for a full working installation as per the technical specifications	sum	1	5 914,60	R	5 914,60
42	Supply and installation of the complete condensate drainage system using PVC piping for the condensate, reticulated to the nearest foul sewer drain via a u-trap.	sum	1	997,42	R	997,42
43	Installation of new intelligent wall-mounted control module controlling the sum		1	1 503,75	R	1 503,75
44	Supply and installation of all bracketing, hangers and spring mounts as required on the chilled and hot water piping.	sum	1	1 254,20	R	1 254,20
45	Supply and installation of all sensors, thermometers, pressure gauges etc. as per drawings and specification.	sum	1	1 583,40	R	1 583,40
46	Supply and install of shut-off valves, balancing valves, strainers etc. as indicated on the drawings and specification.	sum	1	3 575,83	R	3 575,83
47	Commisioning of the system	sum	1	2 056,90	R	2 056,90
48	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent.	sum	1	625,00	R	625,00
	<u>FCU-5</u>					
49	Supply and installation of Intramech or a product of equal or greater quality, chilled water fan coil cassette unit complete with cooling coils, heating coils, controls, sensors, valves, condensate piping routed to the nearest foul sewer drain, supports, brackets, sundries, filters, etc. as per the drawings, schedules and this specification.					
	PCE2-08P	sum	1	13 486,90	R	13 486,90
50	Supply and install VALVES as per the specification and drawings					
	Shut off valves	sum	1	2 348,33	R	2 348,33
	3-way modulating valves	sum	1	6 986,12	R	6 986,12
	Pressure flow valves	sum	1	1 467,50	R	1 467,50
	Breather valves	sum	1	880,00	R	880,00
	Automatic Air Relief Valves	sum	1	986,75	R	986,75
60	Supply and install GUAGES and SENSORS as per the specification and drawings					
	Thermometer	sum	1	1 993,50	R	1 993,50
	Manometer	sum	1	2 051,00	R	2 051,00
	Super seal socket	sum	1	1 687,50	R	1 687,50
	Water temperature sensor	sum	1	2 768,94	R	2 768,94

	DESCRIPTION			RATE		TOTAL
61	Supply and installation of "TROX" or equal OPPOSED BACKDRAFT DAMPERS complete, as per the drawings and specifications Ø200	no	1	571,08	R	571,08

	DESCRIPTION			RATE		TOTAL
62	Supply and installation of all electrical wiring from the fan coil unit to the isolator, including all associated controls wiring required, for a full working installation as per the technical specifications	sum	1	5 914,60	R	5 914,60
63	Supply and installation of the complete condensate drainage system using PVC piping for the condensate, reticulated to the nearest foul sewer drain via a u-trap.	sum	1	997,42	R	997,42
64	Installation of new intelligent wall-mounted control module controlling the unit.	sum	1	1 503,75	R	1 503,75
65	Supply and installation of all bracketing, hangers and spring mounts as required on the chilled and hot water piping.	sum	1	1 254,20	R	1 254,20
66	Supply and installation of all sensors, thermometers, pressure gauges etc. as per drawings and specification.	sum	1	1 583,40	R	1 583,40
67	Supply and install of shut-off valves, balancing valves, strainers etc. as indicated on the drawings and specification.	sum	1	3 575,83	R	3 575,83
68	Commisioning of the system	sum	1	2 056,90	R	2 056,90
69	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent.	sum	1	625,00	R	625,00
	<u>FCU-6.1</u>					
70	Supply and installation of Intramech or a product of equal or greater quality, chilled water fan coil cassette unit complete with cooling coils, heating coils, controls, sensors, valves, condensate piping routed to the nearest foul sewer drain, supports, brackets, sundries, filters, etc. as per the drawings, schedules and this specification. PCE2-09	sum	1	16 516,06	R	16 516,06
71	Supply and install VALVES as per the specification and drawings					
	Shut off valves	sum	1	2 348,33	R	2 348,33
	3-way modulating valves	sum	1	6 986,12	R	6 986,12
	Pressure flow valves	sum	1	1 467,50	R	1 467,50
	Breather valves	sum	1	880,00	R	880,00
	Automatic Air Relief Valves	sum	1	986,75	R	986,75
72	Supply and install GUAGES and SENSORS as per the specification and drawings					
	Thermometer	sum	1	1 993,50	R	1 993,50
	Manometer	sum	1	2 051,00	R	2 051,00
	Super seal socket	sum	1	1 687,50	R	1 687,50
	Water temperature sensor	sum	1	2 768,94	R	2 768,94
73	Supply and installation of "TROX" or equal OPPOSED BACKDRAFT DAMPERS complete, as per the drawings and specifications Ø200	no	1	571,08	R	571,08
74	Supply and installation of all electrical wiring from the fan coil unit to the isolator, including all associated controls wiring required, for a full working installation as per the technical specifications	sum	1	5 914,60	R	5 914,60
75	Supply and installation of the complete condensate drainage system using PVC piping for the condensate, reticulated to the nearest foul sewer drain via a u-trap.	sum	1	997,42	R	997,42

	DESCRIPTION		RATE	TOTAL
76	Installation of new intelligent wall-mounted control module controlling the sum	1	1 503,75	R 1 503,75

	DESCRIPTION			RATE		TOTAL
77	Supply and installation of all bracketing, hangers and spring mounts as required on the chilled and hot water piping.	sum	1	1 254,20	R	1 254,20
78	Supply and installation of all sensors, thermometers, pressure gauges etc. as per drawings and specification.	sum	1	1 583,40	R	1 583,40
79	Supply and install of shut-off valves, balancing valves, strainers etc. as indicated on the drawings and specification.	sum	1	3 575,83	R	3 575,83
80	Commisioning of the system	sum	1	2 056,90	R	2 056,90
81	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent.	sum	1	625,00	R	625,00
	<u>FCU-6.2</u>					
82	Supply and installation of Intramech or a product of equal or greater quality, chilled water fan coil cassette unit complete with cooling coils, heating coils, controls, sensors, valves, condensate piping routed to the nearest foul sewer drain, supports, brackets, sundries, filters, etc. as per the drawings, schedules and this specification.					
	PCE2-09	sum	1	16 516,06	R	16 516,06
83	Supply and install VALVES as per the specification and drawings					
	Shut off valves	sum	1	2 348,33	R	2 348,33
	3-way modulating valves	sum	1	6 986,12	R	6 986,12
	Pressure flow valves	sum	1	1 467,50	R	1 467,50
	Breather valves	sum	1	880,00	R	880,00
	Automatic Air Relief Valves	sum	1	986,75	R	986,75
84	Supply and install GUAGES and SENSORS as per the specification and drawings					
	Thermometer	sum	1	1 993,50	R	1 993,50
	Manometer	sum	1	2 051,00	R	2 051,00
	Super seal socket	sum	1	1 687,50	R	1 687,50
	Water temperature sensor	sum	1	2 768,94	R	2 768,94
85	Supply and installation of "TROX" or equal OPPOSED BACKDRAFT DAMPERS complete, as per the drawings and specifications					
	Ø200	no	1	571,08	R	571,08
86	Supply and installation of all electrical wiring from the fan coil unit to the isolator, including all associated controls wiring required, for a full working installation as per the technical specifications	sum	1	5 914,60	R	5 914,60
87	Supply and installation of the complete condensate drainage system using PVC piping for the condensate, reticulated to the nearest foul sewer drain via a u-trap.	sum	1	997,42	R	997,42
88	Installation of new intelligent wall-mounted control module controlling the sum		1	1 503,75	R	1 503,75
89	Supply and installation of all bracketing, hangers and spring mounts as required on the chilled and hot water piping.	sum	1	1 254,20	R	1 254,20
90	Supply and installation of all sensors, thermometers, pressure gauges etc. as per drawings and specification.	sum	1	1 583,40	R	1 583,40
91	Supply and install of shut-off valves, balancing valves, strainers etc. as indicated on the drawings and specification.	sum	1	3 575,83	R	3 575,83
92	Commisioning of the system	sum	1	2 056,90	R	2 056,90

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION			RATE		TOTAL
93	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent.	sum	1	625,00	R	625,00
	<u>AC-7.1</u>					
94	Supply and installation of Intramech or a product of equal or greater quality, chilled water fan coil cassette unit complete with cooling coils, heating coils, controls, sensors, valves, condensate piping routed to the nearest foul sewer drain, supports, brackets, sundries, filters, etc. as per the drawings, schedules and this specification.					
	PCE2-16	sum	1	17 617,65	R	17 617,65
95	Supply and install VALVES as per the specification and drawings					
	Shut off valves	sum	1	2 348,33	R	2 348,33
	3-way modulating valves	sum	1	6 986,12	R	6 986,12
	Pressure flow valves	sum	1	1 467,50	R	1 467,50
	Breather valves	sum	1	880,00	R	880,00
	Automatic Air Relief Valves	sum	1	986,75	R	986,75
96	Supply and install GUAGES and SENSORS as per the specification and drawings					
	Thermometer	sum	1	1 993,50	R	1 993,50
	Manometer	sum	1	2 051,00	R	2 051,00
	Super seal socket	sum	1	1 687,50	R	1 687,50
	Water temperature sensor	sum	1	2 768,94	R	2 768,94
97	Supply and installation of "TROX" or equal OPPOSED BACKDRAFT DAMPERS complete, as per the drawings and specifications					
	Ø250	no	1	571,08	R	571,08
98	Supply and installation of all electrical wiring from the fan coil unit to the isolator, including all associated controls wiring required, for a full working installation as per the technical specifications	sum	1	5 914,60	R	5 914,60
99	Supply and installation of the complete condensate drainage system using PVC piping for the condensate, reticulated to the nearest foul sewer drain via a u-trap.	sum	1	997,42	R	997,42
100	Installation of new intelligent wall-mounted control module controlling the sum		1	1 503,75	R	1 503,75
101	Supply and installation of all bracketing, hangers and spring mounts as required on the chilled and hot water piping.	sum	1	1 254,20	R	1 254,20
102	Supply and installation of all sensors, thermometers, pressure gauges etc. as per drawings and specification.	sum	1	1 583,40	R	1 583,40
104	Supply and install of shut-off valves, balancing valves, strainers etc. as indicated on the drawings and specification.	sum	1	3 575,83	R	3 575,83
	Commisioning of the system	sum	1	2 056,90	R	2 056,90
105	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent.	sum	1	625,00	R	625,00

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION			RATE		TOTAL
	<u>AC-7.2</u>					
106	Supply and installation of Intramech or a product of equal or greater quality, chilled water fan coil cassette unit complete with cooling coils, heating coils, controls, sensors, valves, condensate piping routed to the nearest foul sewer drain, supports, brackets, sundries, filters, etc. as per the drawings, schedules and this specification.					
	PCE2-16	sum	1	17 617,65	R	17 617,65
107	Supply and install VALVES as per the specification and drawings					
	Shut off valves	sum	1	2 348,33	R	2 348,33
	3-way modulating valves	sum	1	6 986,12	R	6 986,12
	Pressure flow valves	sum	1	1 467,50	R	1 467,50
	Breather valves	sum	1	880,00	R	880,00
	Automatic Air Relief Valves	sum	1	986,75	R	986,75
108	Supply and install GUAGES and SENSORS as per the specification and drawings					
	Thermometer	sum	1	1 993,50	R	1 993,50
	Manometer	sum	1	2 051,00	R	2 051,00
	Super seal socket	sum	1	1 687,50	R	1 687,50
	Water temperature sensor	sum	1	2 768,94	R	2 768,94
109	Supply and installation of "TROX" or equal OPPOSED BACKDRAFT DAMPERS complete, as per the drawings and specifications					
	Ø250	no	1	571,08	R	571,08
110	Supply and installation of all electrical wiring from the fan coil unit to the isolator, including all associated controls wiring required, for a full working installation as per the technical specifications	sum	1	5 914,60	R	5 914,60
111	Supply and installation of the complete condensate drainage system using PVC piping for the condensate, reticulated to the nearest foul sewer drain via a u-trap.	sum	1	997,42	R	997,42
112	Installation of new intelligent wall-mounted control module controlling the sum		1	1 503,75	R	1 503,75
113	Supply and installation of all bracketing, hangers and spring mounts as required on the chilled and hot water piping.	sum	1	1 254,20	R	1 254,20
114	Supply and installation of all sensors, thermometers, pressure gauges etc. as per drawings and specification.	sum	1	1 583,40	R	1 583,40
115	Supply and install of shut-off valves, balancing valves, strainers etc. as indicated on the drawings and specification.	sum	1	3 575,83	R	3 575,83
116	Commisioning of the system	sum	1	2 056,90	R	2 056,90
117	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent.	sum	1	625,00	R	625,00
	<u>FCU-8</u>					
118	Supply and installation of Intramech or a product of equal or greater quality, chilled water fan coil cassette unit complete with cooling coils, heating coils, controls, sensors, valves, condensate piping routed to the nearest foul sewer drain, supports, brackets, sundries, filters, etc. as per the drawings, schedules and this specification.					
	PCE2-08	sum	1	13 486,90	R	13 486,90

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION			RATE		TOTAL
119	Supply and install VALVES as per the specification and drawings					
	Shut off valves	sum	1	2 348,33	R	2 348,33
	3-way modulating valves	sum	1	6 986,12	R	6 986,12
	Pressure flow valves	sum	1	1 467,50	R	1 467,50
	Breather valves	sum	1	880,00	R	880,00
	Automatic Air Relief Valves	sum	1	986,75	R	986,75
120	Supply and install GUAGES and SENSORS as per the specification and drawings					
	Thermometer	sum	1	1 993,50	R	1 993,50
	Manometer	sum	1	2 051,00	R	2 051,00
	Super seal socket	sum	1	1 687,50	R	1 687,50
	Water temperature sensor	sum	1	2 768,94	R	2 768,94
121	Supply and installation of "TROX" or equal OPPOSED BACKDRAFT DAMPERS complete, as per the drawings and specifications Ø150	no	1	571,08	R	571,08
122	Supply and installation of all electrical wiring from the fan coil unit to the isolator, including all associated controls wiring required, for a full working installation as per the technical specifications	sum	1	5 914,60	R	5 914,60
123	Supply and installation of the complete condensate drainage system using PVC piping for the condensate, reticulated to the nearest foul sewer drain via a u-trap.	sum	1	997,42	R	997,42
124	Installation of new intelligent wall-mounted control module controlling the sum		1	1 503,75	R	1 503,75
125	Supply and installation of all bracketing, hangers and spring mounts as required on the chilled and hot water piping.	sum	1	1 254,20	R	1 254,20
126	Supply and installation of all sensors, thermometers, pressure gauges etc. as per drawings and specification.	sum	1	1 583,40	R	1 583,40
127	Supply and install of shut-off valves, balancing valves, strainers etc. as indicated on the drawings and specification.	sum	1	3 575,83	R	3 575,83
128	Commisioning of the system	sum	1	2 056,90	R	2 056,90
129	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent.	sum	1	625,00	R	625,00
	<u>FCU-9</u>					
130	Supply and installation of Intramech or a product of equal or greater quality, chilled water fan coil cassette unit complete with cooling coils, heating coils, controls, sensors, valves, condensate piping routed to the nearest foul sewer drain, supports, brackets, sundries, filters, etc. as per the drawings, schedules and this specification.					
	PCE2-08	sum	1	13 486,90	R	13 486,90
131	Supply and install VALVES as per the specification and drawings					
	Shut off valves	sum	1	2 348,33	R	2 348,33
	3-way modulating valves	sum	1	6 986,12	R	6 986,12
	Pressure flow valves	sum	1	1 467,50	R	1 467,50
	Breather valves	sum	1	880,00	R	880,00
	Automatic Air Relief Valves	sum	1	986,75	R	986,75

	DESCRIPTION			RATE		TOTAL
132	Supply and install GUAGES and SENSORS as per the specification and drawings					
	Thermometer	sum	1	1 993,50	R	1 993,50
	Manometer	sum	1	2 051,00	R	2 051,00
	Super seal socket	sum	1	1 687,50	R	1 687,50
	Water temperature sensor	sum	1	2 768,94	R	2 768,94
133	Supply and installation of "TROX" or equal OPPOSED BACKDRAFT DAMPERS complete, as per the drawings and specifications Ø200	no	1	571,08	R	571,08
134	Supply and installation of all electrical wiring from the fan coil unit to the isolator, including all associated controls wiring required, for a full working installation as per the technical specifications	sum	1	5 914,60	R	5 914,60
135	Supply and installation of the complete condensate drainage system using PVC piping for the condensate, reticulated to the nearest foul sewer drain via a u-trap.	sum	1	997,42	R	997,42
136	Installation of new intelligent wall-mounted control module controlling the sum		1	1 503,75	R	1 503,75
137	Supply and installation of all bracketing, hangers and spring mounts as required on the chilled and hot water piping.	sum	1	1 254,20	R	1 254,20
138	Supply and installation of all sensors, thermometers, pressure gauges etc. as per drawings and specification.	sum	1	1 583,40	R	1 583,40
139	Supply and install of shut-off valves, balancing valves, strainers etc. as indicated on the drawings and specification.	sum	1	3 575,83	R	3 575,83
140	Commisioning of the system	sum	1	2 056,90	R	2 056,90
141	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent.	sum	1	625,00	R	625,00
	<u>FCU-10</u>					
142	Supply and installation of Intramech or a product of equal or greater quality, chilled water fan coil cassette unit complete with cooling coils, heating coils, controls, sensors, valves, condensate piping routed to the nearest foul sewer drain, supports, brackets, sundries, filters, etc. as per the drawings, schedules and this specification.					
	PCE2-06	sum	1	13 851,82	R	13 851,82
143	Supply and install VALVES as per the specification and drawings					
	Shut off valves	sum	1	2 348,33	R	2 348,33
	3-way modulating valves	sum	1	6 986,12	R	6 986,12
	Pressure flow valves	sum	1	1 467,50	R	1 467,50
	Breather valves	sum	1	880,00	R	880,00
	Automatic Air Relief Valves	sum	1	986,75	R	986,75
144	Supply and install GUAGES and SENSORS as per the specification and drawings					
	Thermometer	sum	1	1 993,50	R	1 993,50
	Manometer	sum	1	2 051,00	R	2 051,00
	Super seal socket	sum	1	1 687,50	R	1 687,50
	Water temperature sensor	sum	1	2 768,95	R	2 768,95

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION			RATE		TOTAL
145	Supply and installation of "TROX" or equal OPPOSED BACKDRAFT DAMPERS complete, as per the drawings and specifications Ø150	no	1	571,08	R	571,08
146	Supply and installation of all electrical wiring from the fan coil unit to the isolator, including all associated controls wiring required, for a full working installation as per the technical specifications	sum	1	5 914,60	R	5 914,60
147	Supply and installation of the complete condensate drainage system using PVC piping for the condensate, reticulated to the nearest foul sewer drain via a u-trap.	sum	1	997,42	R	997,42
148	Installation of new intelligent wall-mounted control module controlling the sum		1	1 503,75	R	1 503,75
149	Supply and installation of all bracketing, hangers and spring mounts as required on the chilled and hot water piping.	sum	1	1 254,20	R	1 254,20
150	Supply and installation of all sensors, thermometers, pressure gauges etc. as per drawings and specification.	sum	1	1 583,40	R	1 583,40
151	Supply and install of shut-off valves, balancing valves, strainers etc. as indicated on the drawings and specification.	sum	1	3 575,83	R	3 575,83
152	Commisioning of the system	sum	1	2 056,90	R	2 056,90
153	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent.	sum	1	625,00	R	625,00
Carried to Summary R					R	655 197,42

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION			RATE		TOTAL
	<u>BILL NO.5</u> <u>INVERTER SPLIT TYPE EQUIPMENT</u> <u>Ground Floor Airconditioning System</u> <u>Daikin Inverter Split Type Equipment</u>					
1	Supply and installation of inverter type Daikin or equal midwall/cassette/hiddenway split type units complete with indoor and outdoor units, refrigerant piping, safeties, supports, controls, dampers, electrics, attenuators, etc as specified					
	AC-G01 - FCQG50	sum	1	28 188,25	R	28 188,25
	AC-G02 - FBQ125	sum	1	50 547,81	R	50 547,81
2	Supply and Installation of all copper refrigerant piping, installed in 300mm wide, medium duty welded mesh constructed cable trays complete with P2000 supports, threaded rods at 1000mm spacings, complete with brackets, insulation, connection to the indoor units and outdoor units for a full working installation.	sum	1	9 167,12	R	9 167,12
3	Supply and installation of all electrical wiring from the outdoor unit to the indoor unit, complete with an electrical isolator at each unit for a full working installation as per the technical specifications	sum	1	6 252,10	R	6 252,10
4	Installation of new digital wall thermostat controlling the unit.	ea	2	2 054,03	R	4 108,06
5	Commissioning of the system	sum	1	605,00	R	605,00
6	Supply and installation of the condensate drainage system reticulated to the nearest foul water drain.	sum	1	901,95	R	901,95
	<u>First Floor Airconditioning System</u> <u>Daikin Inverter Split Type Equipment</u>					
7	Supply and installation of inverter type Daikin or equal midwall/cassette/hiddenway split type units complete with indoor and outdoor units, refrigerant piping, safeties, supports, controls, dampers, electrics, attenuators, etc as specified					
	AC-F01 - FBQ125	sum	1	50 400,98	R	50 400,98
	AC-F02 - FBQ125	sum	1	52 440,98	R	52 440,98
	AC-F03 - FCQG35	sum	1	25 715,83	R	25 715,83
	AC-F04 - FBQ140	sum	1	54 336,43	R	54 336,43
	AC-F05 - FCQG35	sum	1	25 715,83	R	25 715,83
	AC-F06 - FCQG35	sum	1	25 715,83	R	25 715,83
	AC-F07 - FBQ71	sum	1	39 417,49	R	39 417,49
8	Supply and Installation of all copper refrigerant piping, installed in 300mm wide, medium duty welded mesh constructed cable trays complete with P2000 supports, threaded rods at 1000mm spacings, complete with brackets, insulation, connection to the indoor units and outdoor units for a full working installation.	sum	1	33 761,25	R	33 761,25
9	Supply and installation of all electrical wiring from the outdoor unit to the indoor unit, complete with an electrical isolator at each unit for a full working installation as per the technical specifications	sum	1	9 469,10	R	9 469,10
10	Installation of new digital wall thermostat controlling the unit.	ea	7	6 604,03	R	46 228,21
11	Commissioning of the system	sum	1	2 667,50	R	2 667,50
12	Supply and installation of the condensate drainage system reticulated to the nearest foul water drain.	sum	1	4 029,86	R	4 029,86

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION			RATE		TOTAL
	<u>Second Floor Airconditioning System</u>					
	<u>Daikin Inverter Split Type Equipment</u>					
13	Supply and installation of inverter type Daikin or equal midwall/cassette/hideaway split type units complete with indoor and outdoor units, refrigerant piping, safeties, supports, controls, dampers, electrics, attenuators, etc as specified					
	AC-S01 - FCQG35	sum	1	25 715,83	R	25 715,83
	AC-S02 - FCQG35	sum	1	25 715,83	R	25 715,83
	AC-S03 - FBQ140	sum	1	54 662,63	R	54 662,63
	AC-S04 - FCQG35	sum	1	25 715,83	R	25 715,83
	AC-S05 - FBQ100	sum	1	41 113,48	R	41 113,48
	AC-S06 - FCQG35	sum	1	25 715,83	R	25 715,83
	AC-S07 - FCQG71	sum	1	37 150,07	R	37 150,07
	AC-S08 - FCQG35	sum	1	25 715,83	R	25 715,83
	AC-S09 - FTXN60	sum	1	18 476,26	R	18 476,26
	AC-S10 - FTXN60	sum	1	18 476,26	R	18 476,26
14	Supply and Installation of all copper refrigerant piping, installed in 300mm wide, medium duty welded mesh constructed cable trays complete with P2000 supports, threaded rods at 1000mm spacings, complete with brackets, insulation, connection to the indoor units and outdoor units for a full working installation.	sum	1	38 542,50	R	38 542,50
15	Supply and installation of all electrical wiring from the outdoor unit to the indoor unit, complete with an electrical isolator at each unit for a full working installation as per the technical specifications	sum	1	10 629,60	R	10 629,60
16	Installation of new digital wall thermostat controlling the unit.	ea	10	2 584,03	R	25 840,30
17	Commissioning of the system	sum	1	3 412,50	R	3 412,50
18	Supply and installation of the condensate drainage system reticulated to the nearest foul water drain.	sum	1	5 995,48	R	5 995,48
	<u>Third Floor Airconditioning System</u>					
	<u>Daikin Inverter Split Type Equipment</u>					
19	Supply and installation of inverter type Daikin or equal midwall/cassette/hideaway split type units complete with indoor and outdoor units, refrigerant piping, safeties, supports, controls, dampers, electrics, attenuators, etc as specified					
	AC-T01 - FCQG35	sum	1	26 364,40	R	26 364,40
	AC-T02 - FBQ100	sum	1	45 748,48	R	45 748,48
	AC-T03 - FCQG35	sum	1	25 715,83	R	25 715,83
	AC-T04 - FCQG35	sum	1	25 715,83	R	25 715,83
	AC-T05 - FBQ100	sum	1	45 748,48	R	45 748,48
	AC-T06 - FCQG35	sum	1	25 715,83	R	25 715,83
	AC-T07 - FCQG71	sum	1	33 762,57	R	33 762,57
	AC-T08 - FBQ71	sum	1	39 696,68	R	39 696,68
20	Supply and Installation of all copper refrigerant piping, installed in 300mm wide, medium duty welded mesh constructed cable trays complete with P2000 supports, threaded rods at 1000mm spacings, complete with brackets, insulation, connection to the indoor units and outdoor units for a full working installation.	sum	1	33 244,74	R	33 244,74
21	Supply and installation of all electrical wiring from the outdoor unit to the indoor unit, complete with an electrical isolator at each unit for a full working installation as per the technical specifications	sum	1	9 567,10	R	9 567,10
22	Installation of new digital wall thermostat controlling the unit.	ea	8	2 264,03	R	18 112,24
23	Commissioning of the system	sum	1	2 102,50	R	2 102,50
24	Supply and installation of the condensate drainage system reticulated to the nearest foul water drain.	sum	1	4 924,09	R	4 924,09

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION			RATE		TOTAL
	<u>Fourth Floor Airconditioning System</u>					
	<u>Daikin Inverter Split Type Equipment</u>					
25	Supply and installation of inverter type Daikin or equal midwall/cassette/hiddenway split type units complete with indoor and outdoor units, refrigerant piping, safeties, supports, controls, dampers, electrics, attenuators, etc as specified					
	AC-F01 - FBQ125	sum	1	51 340,10	R	51 340,10
	AC-F02 - FBQ125	sum	1	51 340,10	R	51 340,10
	AC-F03 - FCQG50	sum	1	28 188,25	R	28 188,25
	AC-F04 - FCQG35	sum	1	25 715,83	R	25 715,83
	AC-F05 - FBQ100	sum	1	45 800,98	R	45 800,98
	AC-F06 - FCQG35	sum	1	25 715,83	R	25 715,83
	AC-F07 - FCQG71	sum	1	36 845,15	R	36 845,15
26	Supply and Installation of all copper refrigerant piping, installed in 300mm wide, medium duty welded mesh constructed cable trays complete with P2000 supports, threaded rods at 1000mm spacings, complete with brackets, insulation, connection to the indoor units and outdoor units for a full working installation.	sum	1	32 723,26	R	32 723,26
27	Supply and installation of all electrical wiring from the outdoor unit to the indoor unit, complete with an electrical isolator at each unit for a full working installation as per the technical specifications	sum	1	9 217,10	R	9 217,10
28	Installation of new digital wall thermostat controlling the unit.	ea	7	2 104,03	R	14 728,21
29	Commissioning of the system	sum	1	9 215,00	R	9 215,00
30	Supply and installation of the condensate drainage system reticulated to the nearest foul water drain.	sum	1	4 485,22	R	4 485,22

	DESCRIPTION		RATE	TOTAL
	Carried to Summary R			R 1 524 281,61
	<u>BILL NO.6</u> <u>VRV SYSTEM EQUIPMENT</u> <u>Airconditioning system for ground floor</u> <u>VRV Airconditioning system</u>			
1	Supply and installation of complete Daikin VRV IV inverter heat recovery system with all valves, refnets, controls, electrics, refrigerant piping, mountings, filters and all wiring as required and specified on the drawings and in the specification:			
	Daikin REYQ16T	sum	1	134 154,99 R 134 154,99
	Daikin REYQ16T	sum	1	134 154,99 R 134 154,99
	Daikin REYQ12T	sum	1	114 377,93 R 114 377,93
	Branch selector unit - BS6Q14AV1	ea	1	46 191,59 R 46 191,59
	Branch selector unit - BS12Q14AV1	ea	2	66 214,58 R 132 429,16
	REFNET branch piping kit - KHRQ23M75T	ea	2	1 369,56 R 2 739,12
	Piping kit - BHFQ23P1357	ea	1	4 415,75 R 4 415,75
	Decoration panels - BYCQ140D7GW1	ea	26	2 451,23 R 63 731,98
2	Supply and Installation of AC-1 (FXFQ25A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 388,23 R 11 388,23
3	Supply and Installation of AC-2 (FXFQ25A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 388,23 R 11 388,23
4	Supply and Installation of AC-3 (FXFQ25A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 388,23 R 11 388,23
5	Supply and Installation of AC-4 (FXFQ25A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 388,23 R 11 388,23
6	Supply and Installation of AC-5 (FXFQ25A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 388,23 R 11 388,23
7	Supply and Installation of AC-6 (FXFQ32A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	12 010,79 R 12 010,79
8	Supply and Installation of AC-7 (FXFQ63A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	14 588,93 R 14 588,93

	DESCRIPTION			RATE		TOTAL
9	Supply and Installation of AC-8 (FXFQ20A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 171,74	R	11 171,74
10	Supply and Installation of AC-9 (FXFQ20A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 171,74	R	11 171,74

	DESCRIPTION			RATE		TOTAL
11	Supply and Installation of AC-10 (FXFQ20A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 171,74	R	11 171,74
12	Supply and Installation of AC-11 (FXFQ25A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 321,31	R	11 321,31
13	Supply and Installation of AC-12 (FXFQ20A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 171,74	R	11 171,74
14	Supply and Installation of AC-13 (FXFQ25A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 321,31	R	11 321,31
15	Supply and Installation of AC-14 (FXFQ25A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 321,31	R	11 321,31
16	Supply and Installation of AC-15 (FXFQ20A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 171,74	R	11 171,74
17	Supply and Installation of AC-16 (FXFQ20A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 171,74	R	11 171,74
18	Supply and Installation of AC-17 (FXFQ32A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	12 214,21	R	12 214,21
19	Supply and Installation of AC-18 (FXFQ20A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 171,74	R	11 171,74
20	Supply and Installation of AC-19 (FXFQ20A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 171,74	R	11 171,74
21	Supply and Installation of AC-20 (FXFQ40A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	12 935,92	R	12 935,92
22	Supply and Installation of AC-21 (FXFQ40A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	14 675,92	R	14 675,92
23	Supply and Installation of AC-22 (FXSQ80A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	16 690,59	R	16 690,59

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION			RATE		TOTAL
24	Ducting Insulated Fabricated sheet metal, delivered to site, incl. all flanges, stiffeners and hanging material, and including erection. Ducting to be installed within 3.5m AFFL. and vertically up riser shafts.					
	0.6mm	m ²	18	635,24	R	11 434,32
	0.8mm	m ²				
	1.0mm	m ²				
	1.2mm	m ²				
25	<u>Diffusers</u> Supply and installation of Rickard or equal, constant volume supply air diffusers, complete with insulated flexible ducting, OBD's, etc.					
	300-CCD	no	2	429,07	R	858,14
26	<u>Return air grilles</u> Supply and installation of AME or equal, constant volume return air grilles, complete with insulated flexible ducting, insulated plenum box, etc.					
	400x400	no	1	1 022,49	R	1 022,49
27	<u>Attenuators</u> Supply and installation of Donkin Splitter type attenuators, or equal, as specified: W x H x L					
	300 x 350 x 900L	no	1	4 088,63	R	4 088,63
28	Supply and Installation of AC-23 (FXFQ40A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	12 936,67	R	12 936,67
29	Supply and Installation of AC-24 (FXSQ100A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	19 184,43	R	19 184,43
30	Ducting Insulated Fabricated sheet metal, delivered to site, incl. all flanges, stiffeners and hanging material, and including erection. Ducting to be installed within 3.5m AFFL. and vertically up riser shafts.					
	0.6mm	m ²	25	635,24	R	15 881,00
	0.8mm	m ²				
	1.0mm	m ²				
	1.2mm	m ²				
31	<u>Diffusers</u> Supply and installation of Rickard or equal, constant volume supply air diffusers, complete with insulated flexible ducting, OBD's, etc.					
	200-CCD	no	4	456,79	R	1 827,16
32	<u>Return air grilles</u> Supply and installation of AME or equal, constant volume return air grilles, complete with insulated flexible ducting, insulated plenum box, etc.					
	600x600	no	1	1 110,85	R	1 110,85
33	<u>Attenuators</u> Supply and installation of Donkin Splitter type attenuators, or equal, as specified: W x H x L					
	350 x 300 x 900L	no	1	3 965,31	R	3 965,31
34	Weather louvers					

	DESCRIPTION		RATE	TOTAL
	Supply and installation of Air Movement Equipment or equal weather louvers 300x300no1		668,87	R668,87

	DESCRIPTION			RATE		TOTAL
35	Filters Supply and installation of WP77 washable primary filters including, plenum box, filter frames and spare set of filters 300x300x50	no	2	375,56	R	751,12
36	Supply and Installation of AC-25 (FXSQ100A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	19 184,43	R	19 184,43
37	Ducting Insulated Fabricated sheet metal, delivered to site, incl. all flanges, stiffeners and hanging material, and including erection. Ducting to be installed within 3.5m AFFL. and vertically up riser shafts.					
	0.6mm	m ²	25	635,24	R	15 881,00
	0.8mm	m ²				
	1.0mm	m ²				
	1.2mm	m ²				
38	Diffusers Supply and installation of Rickard or equal, constant volume supply air diffusers, complete with insulated flexible ducting, OBD's, etc. 200-CCD	no	4	456,79	R	1 827,16
39	Return air grilles Supply and installation of AME or equal, constant volume return air grilles, complete with insulated flexible ducting, insulated plenum box, etc. 600x600	no	1	1 171,49	R	1 171,49
40	Attenuators Supply and installation of Donkin Splitter type attenuators, or equal, as specified: W x H x L 350 x 300 x 900L	no	1	3 965,31	R	3 965,31
41	Weather louvers Supply and installation of Air Movement Equipment or equal weather louvers 300x300	no	1	440,70	R	440,70
42	Filters Supply and installation of WP77 washable primary filters including, plenum box, filter frames and spare set of filters 300x300x50	no	2	542,38	R	1 084,76
43	Supply and Installation of AC-26 (FXFQ63A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	14 064,19	R	14 064,19
44	Supply and Installation of AC-27 (FXSQ80A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	17 818,09	R	17 818,09
45	Ducting Insulated Fabricated sheet metal, delivered to site, incl. all flanges, stiffeners and hanging material, and including erection. Ducting to be installed within 3.5m AFFL. and vertically up riser shafts.					
	0.6mm	m ²	20	635,24	R	12 704,80
	0.8mm	m ²				
	1.0mm	m ²				

	DESCRIPTION	RATE	TOTAL
	1.2mm m ²		

	DESCRIPTION			RATE		TOTAL
46	<u>Diffusers</u> Supply and installation of Rickard or equal, constant volume supply air diffusers, complete with insulated flexible ducting, OBD's, etc. 300-CCD	no	2	429,07	R	858,14
47	<u>Return air grilles</u> Supply and installation of AME or equal, constant volume return air grilles, complete with insulated flexible ducting, insulated plenum box, etc. 400x400	no	1	1 015,60	R	1 015,60
48	<u>Attenuators</u> Supply and installation of Donkin Splitter type attenuators, or equal, as specified: W x H x L 300 x 350 x 900L	no	1	4 088,63	R	4 088,63
49	Supply and Installation of AC-28 (FXFQ32A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	12 214,21	R	12 214,21
50	Supply and Installation of AC-29 (FXFQ50A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	13 659,94	R	13 659,94
51	Supply and Installation of AC-32 (FXFQ125A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	18 070,13	R	18 070,13
52	Supply and Installation of AC-33 (FXFQ25A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 387,48	R	11 387,48
53	Supply and Installation of all copper refrigerant piping for the ground floor system, installed in 300mm wide, medium duty welded mesh constructed cable trays complete with P2000 supports, threaded rods at 1000mm spacings, complete with brackets, insulation, connection to the indoor units and outdoor units for a full working installation.	sum	1	87 036,36	R	87 036,36
54	Supply and Installation of galvanised trunking complete with galvanised cover plate for all copper refrigerant piping routed externally, for a full working installation.	sum	1	9 195,00	R	9 195,00
55	Supply and installation of all electrical wiring from the ACDB to the indoor and outdoor units, complete with an electrical isolator at each indoor and outdoor unit for a full working installation as per the technical specifications	sum	1	12 735,85	R	12 735,85
56	Supply and installation of all control wiring from the outdoor unit to the indoor unit, complete for a full working installation as per the technical specifications	sum	1	4 122,50	R	4 122,50
57	Installation of new digital wall thermostat controlling the unit.	ea	30	947,59	R	28 427,70
58	Supply and Installation of the condensate drainage system, complete with 25mm copper piping from each unit to the central 65mm PVC collector pipe reticulated to the nearest foul water drain.	sum	1	11 959,18	R	11 959,18
59	Bluechem treatment to the ground floor outdoor units	sum	1	13 486,57	R	13 486,57
60	Integration of the ground floor system into the central iTouch controller	sum	1	26 330,28	R	26 330,28
61	Commisioning of the ground floor floor air conditioning system	sum	1	2 304,00	R	2 304,00

	DESCRIPTION			RATE		TOTAL
	<u>Airconditioning system to server room</u>					
62	Supply and installation of two off Daikin (FTXS35) or equal split type midwall units with inverter control complete with indoor and outdoor units, refrigerant piping, stainless steel drip trays below unit, painted galvanised trunking to house the refrigerant piping c/w cover plate, controls, sensors, valves etc. as indicated on the drawings and schedules for a full working installation	sum	2	20 246,42	R	40 492,84
63	Supply and installation of a Daikin control interface (RTD-10) to control the lead and standby unit as specified on the drawings and in this specification	sum	2	5 929,89	R	11 859,78
64	Installation of new digital wall thermostat controlling the unit	ea	2	1 289,03	R	2 578,06
	<u>Airconditioning system for first floor</u>					
65	Supply and installation of complete Daikin VRV inverter heat recovery system with all valves, refnets, controls, electrics, refrigerant piping, mountings, filters and all wiring as required and specified on the drawings and in the specification:					
	Daikin REYQ16T	sum	2	134 154,99	R	268 309,98
	Daikin REYQ14T	sum	1	124 798,14	R	124 798,14
	Branch selector unit - BS12Q14AV1	ea	2	88 317,84	R	176 635,68
	REFNET branch piping kit - KHRQ23M75T	ea	1	2 033,35	R	2 033,35
	Piping kit - BHFQ23P1357	ea	1	4 509,38	R	4 509,38
	Decoration panels - BYCQ140D7GW1	ea	17	2 547,15	R	43 301,55
66	Supply and Installation of AC-1 (FXSQ140A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	19 880,39	R	19 880,39
67	Ducting Insulated Fabricated sheet metal, delivered to site, incl. all flanges, stiffeners and hanging material, and including erection. Ducting to be installed within 3.5m AFFL. and vertically up riser shafts.					
	0.6mm	m ²	25	635,24	R	15 881,00
	0.8mm	m ²				
	1.0mm	m ²				
	1.2mm	m ²				
68	<u>Diffusers</u> Supply and installation of Rickard or equal, constant volume supply air diffusers, complete with insulated flexible ducting, OBD's, etc.					
	250-CCD	no	4	456,79	R	1 827,16
69	<u>Return air grilles</u> Supply and installation of AME or equal, constant volume return air grilles, complete with insulated flexible ducting, insulated plenum box, etc.					
	600x600	no	1	945,05	R	945,05
70	<u>Attenuators</u> Supply and installation of Donkin Splitter type attenuators, or equal, as specified:					
	W x H x L 400 x 400 x 900L	no	1	4 163,82	R	4 163,82
71	Supply and Installation of AC-2 (FXSQ50A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	15 402,72	R	15 402,72

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION			RATE		TOTAL
72	Ducting Insulated Fabricated sheet metal, delivered to site, incl. all flanges, stiffeners and hanging material, and including erection. Ducting to be installed within 3.5m AFFL. and vertically up riser shafts.					
	0.6mm	m ²	12	635,24	R	7 622,88
	0.8mm	m ²				
	1.0mm	m ²				
	1.2mm	m ²				
73	<u>Diffusers</u> Supply and installation of Rickard or equal, constant volume supply air diffusers, complete with insulated flexible ducting, OBD's, etc.					
	200-CCD	no	2	456,79	R	913,58
74	<u>Return air grilles</u> Supply and installation of AME or equal, constant volume return air grilles, complete with insulated flexible ducting, insulated plenum box, etc.					
	350x350	no	1	1 010,71	R	1 010,71
75	<u>Attenuators</u> Supply and installation of Donkin Splitter type attenuators, or equal, as specified: W x H x L					
	300 x 250 x 900L	no	1	3 965,31	R	3 965,31
76	Supply and Installation of AC-3 (FXFQ25A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 838,71	R	11 838,71
77	Supply and Installation of AC-4 (FXFQ20A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 238,66	R	11 238,66
78	Supply and Installation of AC-5 (FXFQ25A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 388,23	R	11 388,23
79	Supply and Installation of AC-6 (FXFQ25A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 388,23	R	11 388,23
80	Supply and Installation of AC-7 (FXFQ32A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	12 010,79	R	12 010,79
81	Supply and Installation of AC-8 (FXSQ50A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	14 967,64	R	14 967,64
82	Ducting Insulated Fabricated sheet metal, delivered to site, incl. all flanges, stiffeners and hanging material, and including erection. Ducting to be installed within 3.5m AFFL. and vertically up riser shafts.					
	0.6mm	m ²	12	635,24	R	7 622,88
	0.8mm	m ²				
	1.0mm	m ²				
	1.2mm	m ²				

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION			RATE		TOTAL
83	<u>Diffusers</u> Supply and installation of Rickard or equal, constant volume supply air diffusers, complete with insulated flexible ducting, OBD's, etc. 200-CCD	no	2	456,79	R	913,58
84	<u>Return air grilles</u> Supply and installation of AME or equal, constant volume return air grilles, complete with insulated flexible ducting, insulated plenum box, etc. 350x350	no	1	1 011,72	R	1 011,72
85	<u>Attenuators</u> Supply and installation of Donkin Splitter type attenuators, or equal, as specified: W x H x L 300 x 250 x 900L	no	1	3 830,01	R	3 830,01
86	Supply and Installation of AC-9 (FXSQ140A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	22 183,20	R	22 183,20
87	<u>Ducting</u> Insulated Fabricated sheet metal, delivered to site, incl. all flanges, stiffeners and hanging material, and including erection. Ducting to be installed within 3.5m AFFL. and vertically up riser shafts. 0.6mm 0.8mm 1.0mm 1.2mm	m ² m ² m ² m ²	35	635,24	R	22 233,40
88	<u>Diffusers</u> Supply and installation of Rickard or equal, constant volume supply air diffusers, complete with insulated flexible ducting, OBD's, etc. 200-CCD	no	5	456,79	R	2 283,95
89	<u>Return air grilles</u> Supply and installation of AME or equal, constant volume return air grilles, complete with insulated flexible ducting, insulated plenum box, etc. 600x600	no	1	1 165,79	R	1 165,79
90	<u>Attenuators</u> Supply and installation of Donkin Splitter type attenuators, or equal, as specified: W x H x L 400 x 400 x 900L	no	1	4 277,65	R	4 277,65
91	Supply and Installation of AC-10 (FXFQ20A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 084,24	R	11 084,24
92	Supply and Installation of AC-11 (FXFQ25A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 233,81	R	11 233,81
93	Supply and Installation of AC-12 (FXFQ20A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 084,24	R	11 084,24

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION			RATE		TOTAL
94	Supply and Installation of AC-13 (FXFQ20A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 084,24	R	11 084,24
95	Supply and Installation of AC-14 (FXFQ25A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 233,81	R	11 233,81
96	Supply and Installation of AC-15 (FXFQ32A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	12 214,21	R	12 214,21
97	Supply and Installation of AC-16 (FXSQ125A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	19 506,57	R	19 506,57
98	Ducting Insulated Fabricated sheet metal, delivered to site, incl. all flanges, stiffeners and hanging material, and including erection. Ducting to be installed within 3.5m AFFL. and vertically up riser shafts.					
	0.6mm	m ²	32	635,24	R	20 327,68
	0.8mm	m ²				
	1.0mm	m ²				
	1.2mm	m ²				
99	<u>Diffusers</u> Supply and installation of Rickard or equal, constant volume supply air diffusers, complete with insulated flexible ducting, OBD's, etc. 200-CCD	no	5	461,29	R	2 306,45
100	<u>Return air grilles</u> Supply and installation of AME or equal, constant volume return air grilles, complete with insulated flexible ducting, insulated plenum box, etc. 600x600	no	1	1 345,79	R	1 345,79
101	Attenuators Supply and installation of Donkin Splitter type attenuators, or equal, as specified: W x H x L 400 x 350 x 900L	no	1	4 138,63	R	4 138,63
102	Supply and Installation of AC-17 (FXFQ63A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	14 061,69	R	14 061,69
103	Supply and Installation of AC-18 (FXFQ25A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 320,73	R	11 320,73
104	Supply and Installation of AC-19 (FXFQ25A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	11 320,73	R	11 320,73

	DESCRIPTION			RATE		TOTAL
105	Supply and Installation of AC-20 (FXFQ32A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	12 214,21	R	12 214,21

	DESCRIPTION			RATE		TOTAL
106	Supply and Installation of AC-21 (FXFQ32A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	12 214,21	R	12 214,21
107	Supply and Installation of AC-22 (FXSQ140A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	22 183,20	R	22 183,20
108	Ducting Insulated Fabricated sheet metal, delivered to site, incl. all flanges, stiffeners and hanging material, and including erection. Ducting to be installed within 3.5m AFFL. and vertically up riser shafts.					
	0.6mm	m ²	38	635,24	R	24 139,12
	0.8mm	m ²				
	1.0mm	m ²				
	1.2mm	m ²				
109	<u>Diffusers</u> Supply and installation of Rickard or equal, constant volume supply air diffusers, complete with insulated flexible ducting, OBD's, etc.					
	200-CCD	no	6	456,79	R	2 740,74
110	<u>Return air grilles</u> Supply and installation of AME or equal, constant volume return air grilles, complete with insulated flexible ducting, insulated plenum box, etc.					
	600x600	no	1	1 165,79	R	1 165,79
111	Attenuators Supply and installation of Donkin Splitter type attenuators, or equal, as specified:					
	W x H x L 400 x 400 x 900L	no	1	4 277,65	R	4 277,65
112	Weather louvers Supply and installation of Air Movement Equipment or equal weather louvers					
	350x300	no	1	396,56	R	396,56
113	Filters Supply and installation of WP77 washable primary filters including, plenum box, filter frames and spare set of filters					
	350x300x50	no	2	615,40	R	1 230,80
114	Supply and Installation of AC-23 (FXSQ140A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	21 787,89	R	21 787,89
115	Ducting Insulated Fabricated sheet metal, delivered to site, incl. all flanges, stiffeners and hanging material, and including erection. Ducting to be installed within 3.5m AFFL. and vertically up riser shafts.					
	0.6mm	m ²	38	635,24	R	24 139,12
	0.8mm	m ²				
	1.0mm	m ²				
	1.2mm	m ²				
116	<u>Diffusers</u> Supply and installation of Rickard or equal, constant volume supply air diffusers, complete with insulated flexible ducting, OBD's, etc.					
	200-CCD	no	6	456,79	R	2 740,74

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION			RATE		TOTAL
117	<u>Return air grilles</u> Supply and installation of AME or equal, constant volume return air grilles, complete with insulated flexible ducting, insulated plenum box, etc. 600x600	no	1	1 165,79	R	1 165,79
118	<u>Attenuators</u> Supply and installation of Donkin Splitter type attenuators, or equal, as specified: W x H x L 400 x 400 x 900L	no	1	4 277,65	R	4 277,65
119	<u>Weather louvers</u> Supply and installation of Air Movement Equipment or equal weather louvers 350x300	no	1	528,11	R	528,11
120	<u>Filters</u> Supply and installation of WP77 washable primary filters including, plenum box, filter frames and spare set of filters 350x300x50	no	2	615,40	R	1 230,80
121	Supply and Installation of AC-24 (FXSQ140A) indoor unit or equal split type inverter unit complete with indoor unit, refrigerant piping, safeties, supports, controls, dampers, electrics, etc as per the concept design drawings for a full working installation	sum	1	21 787,89	R	21 787,89
122	<u>Ducting</u> Insulated Fabricated sheet metal, delivered to site, incl. all flanges, stiffeners and hanging material, and including erection. Ducting to be installed within 3.5m AFFL. and vertically up riser shafts. 0.6mm 0.8mm 1.0mm 1.2mm	m ² m ² m ² m ²	18	635,24	R	11 434,32
123	<u>Diffusers</u> Supply and installation of Rickard or equal, constant volume supply air diffusers, complete with insulated flexible ducting, OBD's, etc. 300-CCD	no	3	456,79	R	1 370,37
124	<u>Return air grilles</u> Supply and installation of AME or equal, constant volume return air grilles, complete with insulated flexible ducting, insulated plenum box, etc. 600x600	no	1	1 165,79	R	1 165,79
125	<u>Attenuators</u> Supply and installation of Donkin Splitter type attenuators, or equal, as specified: W x H x L 400 x 350 x 900L	no	1	4 138,63	R	4 138,63
126	Supply and Installation of all copper refrigerant piping for the first floor system, installed in 300mm wide, medium duty welded mesh constructed cable trays complete with P2000 supports, threaded rods at 1000mm spacings, complete with brackets, insulation, connection to the indoor units and outdoor units for a full working installation.	sum	1	93 098,80	R	93 098,80
127	Supply and Installation of galvanised trunking complete with galvanised cover plate for all copper refrigerant piping routed externally, for a full working installation.	sum	1	8 190,00	R	8 190,00
128	Supply and installation of all electrical wiring from the ACDB to the indoor and outdoor units, complete with an electrical isolator at each indoor and outdoor unit for a full working installation as per the technical specifications	sum	1	13 735,85	R	13 735,85

[illegible]

	DESCRIPTION	RATE	TOTAL
	Carried to Summary R		R 2 707 559,60

	DESCRIPTION			RATE		TOTAL
	<u>BILL NO.7</u> <u>VENTILATION SYSTEMS</u> <u>Extract systems</u> <u>EAF-1: Female lobby WC</u>					
1	<u>Fans</u> Supply and installation of the following fan including all supports , flexible connections, canvas collars, vibration mountings, etc for a full working installation as per the concept design drawings and schedules:					
	AMS TD-Silent 2000/315	sum	1	12 474,23	R	12 474,23
2	<u>Ducting</u> Uninsulated Fabricated sheet metal, delivered to site, incl. all flanges, stiffeners and hanging material, and including erection. Ducting to be installed within 3.5m AFFL. and vertically up riser shafts. <u>The drawings must be used to measure the quantity of ducting m2 and must be filled in the Bill</u>					
	0.6mm	m ²				
	0.8mm	m ²	30	662,04	R	19 861,20
	1.0mm	m ²				
	1.2mm	m ²				
3	<u>Disk Valves</u> Supply and installation of Air Movement Equipment DVK or equal disk valves, complete with OBD, flexible connections, etc.					
	Ø150	no	7	261,95	R	1 833,65
	Ø200	no	2	232,91	R	465,82
4	<u>Door gilles</u> Supply and installation of Air Movement Equipment or equal door grilles 400 x 300	no	4	687,07	R	2 748,28
5	<u>Fire Dampers</u> Supply and installation of Electrovent or equal motorised fire dampers with failsafe spring operation complete with electrical connections, etc. as per the drawings and specifications.					
	300x250	no	1	2 963,04	R	2 963,04
6	Supply and installation of all electrical wiring from the isolator to the fan complete, for a full working installation as per the technical specifications	sum	1	10 203,35	R	10 203,35
7	Commisioning of the system	sum	1	927,50	R	927,50
8	Connect toilet extract ducting into existing common riser extract duct in s	sum	1	2 215,25	R	2 215,25
9	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent.	sum	1	625,00	R	625,00

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION			RATE		TOTAL
	<u>EAF-2: Male lobby WC</u>					
10	<u>Fans</u>					
	Supply and installation of the following fan including all supports , flexible connections, canvas collars, vibration mountings, etc for a full working installation as per the concept design drawings and schedules:					
	AMS TD-Silent 2000/315	sum	1	12 474,23	R	12 474,23
11	<u>Ducting</u>					
	Uninsulated Fabricated sheet metal, delivered to site, incl. all flanges, stiffeners and hanging material, and including erection. Ducting to be installed within 3.5m AFFL. and vertically up riser shafts. <u>The drawings must be used to measure the quantity of ducting m2 and must be filled in the Bill</u>					
	0.6mm	m ²				
	0.8mm	m ²	30	662,04	R	19 861,20
	1.0mm	m ²				
	1.2mm	m ²				
12	<u>Disk Valves</u>					
	Supply and installation of Air Movement Equipment DVK or equal disk valves, complete with OBD, flexible connections, etc.					
	Ø150	no	8	261,95	R	2 095,60
13	<u>Door gilles</u>					
	Supply and installation of Air Movement Equipment or equal door grilles					
	400 x 300	no	16	687,07	R	10 993,12
14	<u>Fire Dampers</u>					
	Supply and installation of Electrovent or equal motorised fire dampers with failsafe spring operation complete with electrical connections, etc. as per the drawings and specifications.					
	300x250	no	1	2 963,04	R	2 963,04
15	Supply and installation of all electrical wiring from the isolator to the fan complete, for a full working installation as per the technical specifications	sum	1	6 834,60	R	6 834,60
16	Commisioning of the system	sum	1	927,50	R	927,50
17	Connect toilet extract ducting into existing common riser extract duct in s	sum	1	2 305,25	R	2 305,25
18	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent.	sum	1	625,00	R	625,00
	<u>EAF-3: Kitchen</u>					
19	<u>Fans</u>					

	DESCRIPTION		RATE	TOTAL
	Supply and installation of the following fan including all supports , flexible connections, canvas collars, vibration mountings, etc for a full working installation as per the concept design drawings and schedules:			
	AMS TD-Silent 800/200	sum	1	6 720,32 R 6 720,32

	DESCRIPTION			RATE		TOTAL
20	<u>Ducting</u> Uninsulated Fabricated sheet metal, delivered to site, incl. all flanges, stiffeners and hanging material, and including erection. Ducting to be installed within 3.5m AFFL. and vertically up riser shafts. <u>The drawings must be used to measure the quantity of ducting m2 and must be filled in the Bill</u>					
	0.6mm	m ²				
	0.8mm	m ²	30	662,04	R	19 861,20
	1.0mm	m ²				
	1.2mm	m ²				
21	<u>Extract grilles</u> Supply and installation of Air Movement Equipment DVK or equal extract grilles, complete with OBD, flexible connections, plenum boxes etc.					
	300x300	no	1	509,91	R	509,91
22	<u>Weather louvers</u> Supply and installation of Air Movement Equipment, or equal, weather louvers.					
	300x300	no	1	361,88	R	361,88
	Supply and installation of all electrical wiring from the isolator to the fan complete, for a full working installation as per the technical specifications	sum	1	5 487,10	R	5 487,10
23	Commisioning of the system	sum	1	415,50	R	415,50
24	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent.	sum	1	625,00	R	625,00
	<u>Fresh air systems</u>					
	<u>FAF-1 Fresh air to plantroom 1</u>					
25	<u>Fans</u> Supply and installation of the following fan including all supports , flexible connections, canvas collars, vibration mountings, etc for a full working installation as per the concept design drawings and schedules:					
	Donkin Majax-2 Ø710	sum	1	11 079,38	R	11 079,38
	Variable speed drive	sum	1	9 387,91	R	9 387,91
26	<u>Ducting</u> Uninsulated Fabricated sheet metal, delivered to site, incl. all flanges, stiffeners and hanging material, and including erection. Ducting to be installed within 3.5m AFFL. and vertically up riser shafts. <u>The drawings must be used to measure the quantity of ducting m2 and must be filled in the Bill</u>					
	0.6mm	m ²				
	0.8mm	m ²	30	662,04	R	19 861,20
	1.0mm	m ²				
	1.2mm	m ²				

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION			RATE		TOTAL
27	<u>Attenuators</u>					
	Supply and installation of Donkin Silax-P attenuators, or equal, as specified: H x W x L Ø710x1.5d	no	2	5 399,71	R	10 799,42
28	Motorised volume control dampers					
	Supply and installation of "TROX" or equal MOTORISED VOLUME CONTROL DAMPERS complete, as per the drawings and specifications 1400x450	no	1	6 519,97	R	6 519,97
29	Fire Dampers					
	Supply and installation of Electrovent or equal motorised fire dampers with failsafe spring operation complete with electrical connections, etc. as per the drawings and specifications. 1400x450	no	1	6 898,19	R	6 898,19
30	Supply and installation of all electrical wiring from the air handling unit to the ACDB, including all associated control wiring required, for a full working installation as per the technical specifications	sum	1	10 913,35	R	10 913,35
31	Commisioning of the system	sum	1	1 577,50	R	1 577,50
32	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent.	sum	1	625,00	R	625,00
	<u>FAF-1 Fresh air to plantroom 2</u>					
33	<u>Fans</u>					
	Supply and installation of the following fan including all supports , flexible connections, canvas collars, vibration mountings, etc for a full working installation as per the concept design drawings and schedules:					
	Donkin Majax-2 Ø710	sum	1	11 223,13	R	11 223,13
	Variable speed drive	sum	1	9 387,91	R	9 387,91
34	<u>Ducting</u>					
	Uninsulated Fabricated sheet metal, delivered to site, incl. all flanges, stiffeners and hanging material, and including erection. Ducting to be installed within 3.5m AFFL. and vertically up riser shafts. <u>The drawings must be used to measure the quantity of ducting m2 and must be filled in the Bill</u>					
	0.6mm	m ²				
	0.8mm	m ²	30	99,99	R	2 999,70
	1.0mm	m ²				
	1.2mm	m ²				
35	<u>Attenuators</u>					
	Supply and installation of Donkin Silax-P attenuators, or equal, as specified: H x W x L Ø710x1.5d	no	2	5 506,50	R	11 013,00

	DESCRIPTION	RATE	TOTAL

	DESCRIPTION			RATE		TOTAL
36	Motorised volume control dampers					
	Supply and installation of "TROX" or equal MOTORISED VOLUME CONTROL DAMPERS complete, as per the drawings and specifications					
	1400x450	no	1	4 613,52	R	4 613,52
37	Fire Dampers					
	Supply and installation of Electrovent or equal motorised fire dampers with failsafe spring operation complete with electrical connections, etc. as per the drawings and specifications.					
	1400x450	no	1	7 860,50	R	7 860,50
38	Supply and installation of all electrical wiring from the air handling unit to the ACDB, including all associated control wiring required, for a full working installation as per the technical specifications	sum	1	10 913,35	R	10 913,35
39	Commisioning of the system	sum	1	1 577,50	R	1 577,50
40	All items not specifically mentioned but required for a complete working, commissioned system per the drawings, specifications and design intent.	sum	1	625,00	R	625,00

	DESCRIPTION	RATE	TOTAL
	Carried to Summary		R 285 253,30

	DESCRIPTION		RATE	TOTAL
	<u>BILL NO.8</u> <u>ELECTRICAL AND CONTROLS</u> <u>Plantroom 1 and 2</u>			
1	Design, detail engineering, supply and installation of new electrical distribution boards for Plantroom 1 complete with all wiring, subfeeds, connections between equipment, diffusers, power packs, wireways and fasteners, contactors, breakers, protection and testing and documentation as specified and as required for a complete legal, working installation as intended by the specification. sum	1	101 854,04	R 101 854,04
2	Design, detail engineering, supply and installation of new electrical distribution boards for Plantroom 2 complete with all wiring, subfeeds, connections between equipment, diffusers, power packs, wireways and fasteners, contactors, breakers, protection and testing and documentation as specified and as required for a complete legal, working installation as intended by the specification. sum	1	105 110,30	R 105 110,30
3	Supply and install electrical cable trays and wiring to each air handling unit and equipment sum	1	10 463,75	R 10 463,75
4	Supply and installation of all electrical supplies to fans, motorised dampers, variable speed drives, diffusers, sensors, controls equipment etc. as per the drawings and specification. sum	1	24 058,99	R 24 058,99
5	Supply, install and commission entire electrical installation sum	1	5 725,00	R 5 725,00
6	Supply and installation of AC_DB complete with electrical wiring, relays, breakers and switchgear. Power to the DB will be provided by others. The electrical panel shall provide power to all HVAC equipment and will form part of this contract. sum	1	240 119,01	R 240 119,01
	<u>CONTROLS</u>			
7	Complete system including all components, field wiring, field devices, cable trays, etc for a complete working, commissioned and handed over installation as per the specifications. sum	1	91 922,51	R 91 922,51
8	Supply and installation of all the elements of an intelligent central control system complete with direct digital controllers, all field devices and field wiring, networked diffuser controllers and web based front end. The system shall be intelligently connected to the central BMS PC located at No. 9 Dorp street 7th floor. Refer to the specification for details. sum	1	158 138,54	R 158 138,54
9	Supply and installation of an iTouch controller to be installed in reception on ground floor to control all the HVAC equipment sum	1	37 141,68	R 37 141,68
	Carried to Collector R			R 774 533,82

	DESCRIPTION	RATE	TOTAL
	SECTION NO. 3 <u>AIR CONDITIONING AND VENTILATION SYSTEM</u> <u>SECTION SUMMARY</u>		
1	GENERAL COST		R 163 709,29
2	CHILLED WATER AND HOT WATER SYSTEM		R 593 479,55
3	AIR HANDLING UNITS		R 2 076 967,28
4	FAN COIL UNITS		R 655 197,42
5	INVERTER SPLIT TYPE EQUIPMENT		R 1 524 281,61
6	VRV SYSTEMS		R 2 707 559,60
7	VENTILATION SYSTEMS		R 285 253,30
8	ELECTRICAL AND CONTROLS		R 774 533,82
	TOTAL : SECTION 4 : AIR CONDITIONING AND VENTILATION INSTALLATION		R 8 780 981,87

R 419 249,77

R 95 273,84

R 738 079,86

R 157 511,01

R 72 977,87

R 89 751,19

R 256 033,43

R 732 618,90

R 93 967,62

R 91 301,59

R 118 860,53

R 126 489,29

49 840,09

Section No.4
Bill No.1
General Cost

	DESCRIPTION		RATE	TOTAL
	BILL NO.2			
	<u>ANALOGUE ADDRESSABLE FIRE DETECTION SYSTEM</u>			
	Supply & Install the following equipment including all connectors, terminal screws:			
	<u>Head end equipment:</u>			
1	Complete surface mount analogue addressable 4 loop Fire detection panel including network card and 12V battery back-up, as specified	no Nil		
2	Complete surface mount analogue addressable 2 loop Fire detection panel, network card and 12V AH batteries back-up, as specified	no Nil		
	<u>Field equipment:</u>			
3	Complete addressable optical smoke detector with base unit, as specified	no 55	R493,08	R27 119,26
4	Complete addressable heat detectors with base unit, as specified	no 1	R541,22	R541,22
5	Complete addressable red break glass unit, as specified	no 7	R635,57	R4 448,96
6	Complete addressable I/O unit, as specified	no 5	R861,60	R4 307,99
7	Complete addressable line relay unit, as specified.	no 5	R805,76	R4 028,80
8	Complete addressable base type line isolator unit	no 7	R370,52	R2 593,62
9	Complete addressable flashing beacon with base unit, white	no 9	R1 304,36	R11 739,26
10	Complete addressable loop sounder with base unit, combined with optical detector	no 10	R1 236,47	R12 364,65
11	Optical smoke detector complete with ceiling mounted LED indicators for void detectors	no 10	R597,29	R5 972,90
12	Green break glass unit for interface with access control doors	no 4	R320,30	R1 281,18
13	24V power supply for sequential door hold open devices, interfaced to fire detection system	no 2	R2 242,20	R4 484,40
14	Recessed door contacts installed at fire escape doors, monitored via fire I/O modules	no 6	R501,29	R3 007,74
15	Magnetic door hold open devices for double door, complete with maglocks, kicker plates and extension arms to mount locks (Complete set for a double door)	no 1	R2 261,73	R2 261,73
16	Cabling:			
	Complete PH30 Fire resistant cabling	m 3000	R16,41	R49 222,50
17	Monitory value for electrical connections to power supplies and A/C	sum 1	R3 763,75	R3 763,75
18	Ø25mm PVC conduit complete with metal saddles at 500mm intervals	m 1500	R29,95	R44 917,50
19	Ø60mm PVC outlet box – 2 way	no 240	R115,31	R27 673,80
20	100mm wire mesh tray suspended from soffit, complete with hangers and support at 1m intervals	m 170	R130,30	R22 150,15
	<u>Head end equipment:</u>			
21	Remote display unit located in main entrance foyer	no Nil		
22	Additional network card for existing fire panel	no Nil		
23	RAMRAD linked to fire brigade	no Nil		
24	Maestro PC interfaced to Master Fire Panel	no Nil		
25	Re-programming of existing master fire panel	sum 1	R2 323,75	R2 323,75
26	Monitory value for temporary removing devices and install them on a temporary basis during the construction phase. To remove them finally when construction is complete	sum 1	R26 250,00	R26 250,00
	<u>Fire phone system:</u>			
27	Complete fire phone unit handset, wall mounted	no 3	R713,22	R2 139,67
28	Wall mounted box, red, with hinged door to mount fire phone	no 3	R1 266,78	R3 800,33
29	Master fire phone handset located in security office	no 1	R8 018,07	R8 018,07
30	PH30 wiring from individual phones to master unit	m 1500	R16,41	R24 611,25

	DESCRIPTION	RATE	TOTAL
	General:		
31	Test and commissioning of complete system to deliver a fully operational system to client and engineer's requirement. sum1	R2 184,44	R2 184,44
32	Programming of new and existing fire panels onto the Maestro system sum1	R4 611,31	R4 611,31
33	Sundries: Any additional items to conform to Specification, Please list: sum1	R375,00	R375,00

	DESCRIPTION	RATE	TOTAL
	Carried to Summary R		R306 193,22

	DESCRIPTION		RATE	TOTAL
	BILL NO.3			
	<u>PUBLIC ADDRESS AND EVACUATION SYSTEM</u>			
	<u>Head End Equipment</u>			
1	Bosch power amplifier 4 Xx125W (4 ZONE) complete with rack and rack mount kit, power supply	no Nil		
2	End of line board for each zone	no Nil		
3	Keypad in security office with 8 button control	no Nil		
4	Plastic fiber to link remote amps to head end. Two lengths of 50m each.	m Nil		
5	Battery back up for power amplifier to provide 30 minutes standby time with system under full load	sum Nil		
	<u>Field Equipment</u>			
6	Bosch wall mount speaker	no 7	R641,62	R4 491,32
7	Bosch fireproof ceiling mount speaker	no 22	R588,35	R12 943,65
8	Ø60mm PVC outlet box – 2 way	no 60	R90,49	R5 429,40
9	Ø25mm PVC conduit complete with metal saddles at 500mm intervals	m 400	R39,99	R15 996,00
10	100mm wire mesh tray	m 170	R187,80	R31 925,15
11	PH30 fire rated cabling	m 1500	R16,41	R24 611,25
	<u>Rack Equipment</u>			
12	Swing frame wall mounted unit – 20U	no 1	R5 433,60	R5 433,60
13	Rack cooling fan	no 1	R300,02	R300,02
14	Power rail	no 1	R630,81	R630,81
15	1U Rack blank panel	no 1	R123,64	R123,64
16	3u Rack blank panel	no 1	R169,60	R169,60
17	Signal route card	no 1	R2 639,39	R2 639,39
18	Wiring of signal route card on site	no 1	R987,81	R987,81
19	Rack wiring	no 1	R694,81	R694,81
20	Work shop drawings	no 1	R1 507,56	R1 507,56
	<u>Sundries</u>			
21	Any additional items to conform to specification :Please list them	1	R1 500,00	R1 500,00
22	Monitory value for programming existing system and reconfiguring	sum 1	R5 000,00	R5 000,00
23	Monitory value for removing old equipment and cabling	sum 1	R8 000,00	R8 000,00

	DESCRIPTION	RATE	TOTAL
	Carried to Summary R		R 122 384,01

	DESCRIPTION	RATE	TOTAL
	SECTION NO. 4 FIRE DETECTION SYSTEM AND PA EVACUATION SYSTEM SECTION SUMMARY	Rate	Amount
		Page No	
1	GENERAL COST		R 29 408,61
2	ANALOGUE ADDRESSABLE FIRE DETECTION SYSTEM		R 306 193,22
3	PUBLIC ADDRESS AND EVACUATION SYSTEM		R 122 384,01

	DESCRIPTION	RATE	TOTAL
	TOTAL : SECTION 5 : FIRE DETECTION SYSTEM AND PA EVACUATION SYSTEM R		R457 985,85

PRICE LIST

PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES
	<u>DCP/STP EXTINGUISHERS</u>		
1	1,5 kg	Each	1
2	2,5 kg	Each	1
3	4,5 kg	Each	1
4	9,0 kg	Each	1
	<u>CO² EXTINGUISHERS</u>		
5	2 kg	Each	1
6	5 kg	Each	1
7	6,8 kg	Each	1
8	Backing board painted red with bracket	Each	1
9	Super sound alarm complete	Each	1
10	Lead seal x wire for hose reels	Each	1
11	Lead seal x wire for fire hydrants	Each	1
12	Lead seal x wire for CO ² extinguishers	Each	1
13	Lead seal x wire for DCP extinguishers	Each	1
14	Safety pin for CO ² extinguisher	Each	1
15	Safety pin for DCP extinguisher	Each	1
16	Complete head assembly for CO ² extinguishers	Each	1
17	Complete Head assembly for DCP extinguishers	Each	1
18	Pressure gauge for DCP extinguishers	Each	1
19	Syphon tube for DCP extinguishers (all sizes)	Each	1
20	Hose and nozzle assembly for DCP extinguishers	Each	1

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PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES
21	Nitrogen Powders Propellant for DCP extinguishers	Kg	1
22	Discharge hose for CO ² extinguishers	Each	1
23	Discharge horn assembly for CO ² extinguishers	Each	1
24	Hydrant hand wheel and nut	Each	1
25	Hydrant key	Each	1
26	Right angle hydrant valve	Each	1
27	Hydrant lip washer	Each	1
28	Hydrant clack washer	Each	1

29	Approved fire registers for extinguishers	Each	1
30	Approved fire registers for hydrants and hose reels	Each	1
31	ABC Powder for DCP Extinguishers	Kg	1
32	CO ² gas	Kg	1
33	Identification number plates	Each	1
	<u>STEEL CIMA/NATEX/BLUE CRANE</u> SINGLE STRAP		
34	DCP 1 kg DCP light	S	1
35	DCP 1.5kg DCP light	S	1
36	DCP 2.5kg DCP light	S	1
37	DCP 2.5kg DCP Heavy D	S	1
38	DCP 2.5kg DCP Heavy D Red	S	1
39	CO ₂ – 2kg Heavy Duty	S	1
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES
40	CO 2 – 5kg Heavy D Double Strap	S	1
41	DCP 4.5kg Cima	S	1
42	DCP 9kg Single Strap	S	1
43	DCP 9kg Double Strap	S	1
44	DCP 4.5 kg Red Round Base	S	1
45	DCP 9kg Blue Crane	S	1
	<u>DCP EXTINGUISHER SPARES</u>		
46	DCP J Bracket (4.5 – 9kg)	S	1
47	DCP J Bracket (1 – 2.5kg)	S	1
48	DCP 1 kg Nozzel	S	1
49	DCP 1.5 kg & 2.5 kg Nozzle	S	1
50	DCP gauge	S	1
51	DCP O Rings	S	1
52	DCP Safety Pin Small	S	1
53	DCP Safety pin large	S	1
54	DCP Plastic Nozzles (on discharge hose)	S	1
55	DCP Norma Clamp	S	1
56	DCP 9kg Discharge Hose	S	1
57	DCP 4.5 kg Discharge Hose	S	1
60	DCP 4.5kg PVC cover	S	1
61	DCPm9k PVC cover	S	1
62	DCP head large	S	1
63	DCP head medium	S	1
64	DCP head small	S	1
65	DCP handles top and bottom small	S	1
66	DCP handles top and bottom medium	S	1
67	DCP handles top and bottom large	S	1
68	Plastic neck rings	S	1
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES
69	DCP pressure relieve valve L	S	1
70	DCP plunger spindle small	S	1

71	DCP plunger spindle large	S	1
72	DCP black bottom for 9kg stainless steel	S	1
73	DCP Stainless steel valve	S	1
74	DCP siphon Tube 1kg Cima	S	1
75	DCP Siphon tube 1.5kg Cima	S	1
76	DCP Siphon tube 2.5kg Cima	S	1
77	DCP Siphon tube 4.5kg Cima	S	1
78	DCP Siphon tube 9kg Cima	S	1
79	DCP 40% MAP powder (Alpha Megaflo)	S	1
81	Alpha Dynaflo 90% Blue Import	S	1
	<u>FOAM / WATER ACCESSORIES</u>		
82	Foam Nozzles	S	1
83	Plasic Hose Tails	S	1
84	Foam Discharge Hose 9 litre	S	1
85	Water Discharge Hose	S	1
86	Siphon tube for 9 litre water	S	1
87	Backing board 600mm	S	1
88	Uni bracket 40mm	S	1
89	Uni bracket 70mm	S	1
90	Safety Pin 3mm CO 2	S	1
91	Wall bracket Red	S	1
92	2kg CO2 fixed	S	1
93	2kg CO2 hose and horn	S	1
94	5kg CO2 Chubb hose only	S	1
95	5kg CO2 long horn only	S	1
96	CO2 washer for horn	S	1
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES
97	CO2 handles (top and bottom)	S	1
98	2kg CO2 Siphon Tubing	S	1
99	5g CO2 Siphon Tubing	S	1
100	CO2 1" Tapered Valve (CO 2 head)	S	1
101	CO2 ½" Tapered Valve (CO 2 head)	S	1
102	CO2 1" Tapered Valve S/Down	S	1
103	CO2 ¾" Tapered Valve S/Down	S	1
104	CO2 ½" Tapered Valve S/Down	S	1
105	Manual lever valve 24 tap CO2	S	1
106	CO2 Plunger for CYF 25 ¾"	S	1
107	Cap for 45kg CO2 extinguisher	S	1
108	Redlump bolt complete	S	1
109	Redlump Bolt glass tube only	S	1
110	Redlump Bolt Ceramic Tube only	S	1
111	Super sound complete	S	1
112	Super sound box	S	1
113	Super sound refill	S	1
116	Fire AXE 6lbs	S	1
117	Fire AXE small	S	1
	<u>FIRE BLANKETS</u>		

118	0.9 x 0.9	S	1
119	1 x 1	S	1
120	1.2 x 1.2	S	1
121	1.2 x 1.8	S	1
122	1.8 x 1.8	S	1
123	1m x 50m roll	roll	1
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES
	<u>HOSE REEL</u>		
124	30m PVC hose local	S	1
125	45m PVC hose local	S	1
126	30m H/Reel complete local	S	1
131	Hose reel frame	S	1
132	Hose reel cover	S	1
133	CP valve	S	1
	<u>HOSE REEL SPARES</u>		
134	CP valve hand wheel	S	1
135	CP valve washer	S	1
136	Hose reel Norma Clamp	S	1
137	Hose reel Waterway	S	1
138	Hose reel Shackel	S	1
139	Hose reel nozzle	S	1
140	Hose reel aluminium nozzle	S	1
	<u>HYDRANT</u>		
145	65mm RAV x 80mm BSP Cast iron Anti Tamper	S	1
146	Booster Connections	S	1
	<u>HYDRANT SPARES</u>		
147	Hydrant Clack Washer	S	1
148	Hydrant Lip Washer	S	1
149	Hydrant Hand Wheel for Brass Valve	S	1
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES
150	Hydrant Hand Wheel for Cast iron	S	1
151	Hydrant Hand Wheel Bolt and Nut	S	1
152	Hydrant Nipple Female to Male 65mm	S	1
153	Adaptor 65mm for Cast Iron Valve	S	1
154	Hydrant Aluminium Cover	S	1
155	Hydrant Cap & Chain	S	1
156	Booste Cap & Chain	S	1
157	Hydrant Key	S	1
158	Hydrant Spindle	S	1
159	Hydrant Lugs	S	1
160	Hydrant O ring	S	1
	<u>LAYFLATS</u>		

161	65 x 10Bar Single Lined + Coupling/white	S	1
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES
	<u>INSTANTANEOUS COUPLINGS</u>		
177	38(M) to 50(F) BSP A/L Adap	S	1
178	50(M) to 50(F) BSP A/L Adap	S	1
179	65(F) to 65(F) BSP A/L Adap	S	1
180	65(M) to 65(M) BSP A/L Adap	S	1
181	65(M) to 65(F) BSP A/L Adap	S	1
182	65(F) to 44(M) BSP A/L Adap	S	1
183	65(M) to 50(M) BSP A/L Adap	S	1
184	65(F) to 50(F) BSP A/L Adap	S	1
185	65(M) to 50(F) BSP A/L Adap	S	1
186	65(F) to 50(M) BSP A/L Adap	S	1
187	65(F) to 65(M) BSP A/L Adap	S	1
188	65mm Male/Female BSP Adaptor 81mm LUG	S	1
189	Storz Spanner Medium	S	1
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES
	<u>CABINETS</u>		
205	4,5kg Extinguisher Steel Cabinet	S	1
206	4,5kg Double Steel Ext Cabinet	S	1
207	4,5kg Extinguimate Cabinet	S	1
208	9kg Extinguisher Steel Cabinet	S	1
209	9kg Double Extinguisher Steel Cabinet	S	1
210	9kg Extinguimate Cabinet	S	1
211	9kg Plastic Cabinet	S	1
213	BA Extinguimate Cabinet	S	1
214	BA Extinguimate Brackets	S	1
215	Wall Mounted Cabinet	S	1
217	Hose Cabinet Legs Only	S	1
218	H/R Closed Back Cabinets	S	1
219	H/R Open Back Cabinets	S	1
220	CO2 Extinguisher Cabinet	S	1
223	CP Valve Box	S	1
224	Key Box	S	1
225	Cabinet Glass	S	1
226	Key Box Glass	S	1
227	CP Valve Box Glass	S	1
228	Lock and keys	S	1
229	Spare Keys	S	1
230	Panic Bolt Hammer and Chain	S	1
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES
	<u>SIGNS</u>		
	<u>ABS 190 X 190</u>		
231	Red Arrow	S	1
232	Extinguisher	S	1

233	Hose Reel	S	1
234	Hydrant	S	1
235	Fire Alarm	S	1
236	Sprinkler Valve	S	1
237	Fire Telephone	S	1
238	Booster Pump	S	1
239	Super Sound	S	1
240	First Aid	S	1
241	Green Arrow	S	1
242	Man Running Left	S	1
243	Man Running Right	S	1
244	Ladies Toilet	S	1
245	Gents Toilet	S	1
246	Stairs Going Down Left	S	1
247	Stairs Going Up Right	S	1
248	No Smoking	S	1
249	No Open Flame	S	1
250	No Entry	S	1
	<u>ABS 290 X 290</u>		
251	Red Arrow	S	1
252	Extinguisher	S	1
253	Hose Reel	S	1
254	Hydrant	S	1
255	Fire Alarm	S	1
256	Sprinkler Valve	S	1
257	Fire Telephone	S	1
258	Booster Pump	S	1
259	Super Sound	S	1
260	First Aid	S	1
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES
262	Green Arrow	S	1
263	Man Running Left	S	1
264	Man Running Right	S	1
265	Ladie Toilet	S	1
266	Gents Toilet	S	1
267	Stairs Going Down Left	S	1
268	Stairs Going Up right	S	1
269	Eye Protection	S	1
270	Musk	S	1
271	Head Protection	S	1
272	Eat Protection	S	1
273	Hand Protection	S	1
274	Feet Protection	S	1
275	No Smoking	S	1
276	No Open Flame	S	1
277	No Pedestrians	S	1
278	No Water as Extinguisher	S	1

279	No Entry	S	1
280	General Warning of Hazard	S	1
281	Beware Fire Hazard	S	1
282	Beware Explosion Hazard	S	1
283	Beware Electric Shock	S	1
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES
	<u>PHOTOLUM 190 X 190</u>		
284	Red Arrow	S	1
285	Extinguisher	S	1
286	Hose Reel	S	1
287	Hydrant	S	1
288	Fire Alarm	S	1
289	Sprinkler Valve	S	1
290	Fire Telephone	S	1
291	Booster Pump	S	1
292	Super Sound	S	1
293	First Aid	S	1
294	Green Arrow	S	1
295	Man Running Left	S	1
296	Man Running Right	S	1
297	Ladies Toilet	S	1
298	Gents Toilet	S	1
299	Stairs Going Down Left	S	1
300	Stairs Going Up Right	S	1
301	No Smoking	S	1
302	No Open Flame	S	1
303	No Entry	S	1
304	Beware Electric Shock	S	1
	<u>PHOTOLUM 290 X 290</u>		
305	Red Arrow	S	1
306	Extinguisher	S	1
307	Hose Reel	S	1
308	Hydrant	S	1
309	Fire Alarm	S	1
310	Sprinkler Valve	S	1
311	Fire Telephone	S	1
312	Booster Pump	S	1
313	Super Sound	S	1
314	First Aid	S	1
315	Green Arrow	S	1
316	Man Running Left	S	1
317	Man Running Right	S	1
318	Ladies Toilet	S	1
319	Gents Toilet	s	1
320	Stairs Going Down Left	S	1
321	Stairs Going Up Right	S	1

322	No Smoking	S	1
323	No Open Flame	S	1
324	No Entry	S	1
325	Beware Electric Shock	S	1
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES
	<u>SPECIAL SIGNS</u>		
326	Assembly Point ABS	S	1
327	Chevron Board 380 x 680	S	1
328	Chromodeck 290 x 290 Photo	S	1
329	Chromodeck 190 x 190 Photo	S	1
330	Chromodeck 290 x 290 ABS	S	1
331	Chromodeck 190 x 190 ABS	S	1
332	Chromodeck 440 x 440	S	1
	<u>FIRST AID</u>		
346	First Aid Steelbox Complete Reg 7	S	1
348	First Aid Refill Reg 7	S	1
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES
	<u>GAS SUPPRESSION</u>		
352	FM 200 Cylinders - per kg co 2	S	1
353	FM 200 Cylinders - per kg HFC 227	S	1
354	Major service of 4,5 kg DCP/STP extinguisher as per scope of work Part 4 item 1.2	S	1
353	Major service of 6,8 kg CO ² extinguisher as per scope of work Part 4 item 1.1	S	1
356	Major Service of 2-2.5 kg DCP/STP extinguisher as per scope of work Part 4 item 1.2	S	1
357	Major Service of 5kg CO ² extinguisher as per scope of work Part 4 item 1.1	S	1
358	Major Service of 4.5kg CO ² extinguisher as per scope of work Part 4 item 1.1	S	1
359	Major Service of 2.25kg CO ² extinguisher as per scope of work Part 4 item 1.1	S	1
360	Major Service of fire hydrants as per scope of work Part 4 item 3	S	1
361	Major Service of Hose reels as per scope of	S	1

	work Part 4 item 2		
362	Supply of Register as per scope of work Part 4 item 5	S	1
363	Pressure testing fire extinguishers with certificates as per scope of work Part 4 item 6	S	1
364	Monthly inspection as per scope of work Part 4 item 7 - per institution	S	1
365	Servicing of Sprinkler systems as per scope of work Part 4 item 14 - per sprikler valvue	S	1
366	Servicing of Fire FM 200 system as per scope of work Part 4 item 19 - per zone	S	1

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3, maintenance of the Mechanical and Electrical Kitchen Equipment and Lau

PART NO:	SCHEDULED PARTS	UNIT	PROVISIONAL QUANTITIES	PRICE
1	15mm Ball Float steam trap	S	1	R 3 750,00
2	20mm Ball float steam trap	S	1	R 3 800,00
3	20mm Ball Float steam trap	S	1	R 3 890,00
4	Steam trap repair kit 4,27mm orifice	S	1	R 1 700,00
5	Steam trap gasket sets	S	1	R 390,00
6	Steam trap repair kit 6mm orifice	S	1	R 1 760,00
7	Steam trap gasket sets	S	1	R 296,00
8	15mm Thermodynamic steam traps	S	1	R 4 141,00
9	20mm Thermodynamic steam traps	S	1	R 4 628,00
10	15mm sight glass window repair kits	S	1	R 721,00
11	20mm sight glass window repair kits	S	1	R 721,00
	15mm Window sight glasses complete	s	1	R 820,00
	20mm Window sight glasses complete	s	1	R 920,00
12	15mm flap type non return valve	S	1	R 517,00
13	20mm flap type non return valve	S	1	R 643,00
14	25mm flap type non return valve	S	1	R 786,00
15	15mm steam strainers brass	S	1	R 520,00
16	20mm steam strainers brass	S	1	R 692,00
17	25mm steam strainers brass	S	1	R 927,00
18	15mm S'S trim steam globe valve 16 bar	S	1	R 888,00
19	20mm S'S trim steam globe valve 16 bar	S	1	R 1 075,00

20	25mm S'S trim steam globe valve 16 bar	S	1	R 1 540,00
21	15mm ball valve	S	1	R 840,00
22	20mm ball valve	S	1	R 940,00
23	25mm ball valve	S	1	R 1 040,00
24	15mm cone faced steam unions	S	1	R 90,00
25	20mm cone faced steam unions	S	1	R 110,00
26	25mm cone faced steam unions	S	1	R 140,00
27	15mm steam barrel nipples	S	1	R 9,40
28	20mm steam barrel nipples	S	1	R 11,00
29	25mm steam barrel nipples	S	1	R 14,00
30	40mm steam barrel nipples	S	1	R 31,00
31	60mm steam barrel nipples	S	1	R 41,00

PART NO:	SCHEDULED PARTS	UNIT	PROVISIONAL QUANTITIES	PRICE
32	15mm copper tubing class 2 6,1m lengths	S	1	R 620,00
33	20mm copper tubing class 2 6,1m lengths	S	1	R 720,00
34	25mm copper tubing class 2 6,1m lengths	S	1	R 1 180,00
	40mm copper tubing class 2 6,1m lengths	S	1	R 2 880,00
35	15mm heavy duty steam pipe 6,1m lengths	S	1	R 490,00
36	20mm heavy duty steam pipe 6,1m lengths	S	1	R 648,00
37	25mm heavy duty steam pipe 6,1m lengths	S	1	R 780,00
38	Valve gland packing 12,5mm roll	Roll	1	R 3 330,00
39	Valve gland packing 10mm roll	Roll	1	R 2 112,00
40	Valve gland packing 6mm roll	Roll	1	R 1 260,00

41	Graphite pipe jointing compound 5 kg container	Kg	1	R 1 759,00
42	PTFE thread sealing tape roll	S	1	R 9,00
43	Rope packing non asbestos 40mm x 30m roll	Roll	1	R 2 940,00
44	Rope packing non asbestos 25mm x 30m roll	Roll	1	R 2 232,00
45	Rope packing non asbestos 15mm x 30m roll	Roll	1	R 2 100,00
46	Packing material graphite impregnated wire reinforced sheets 1,2m x 2,4m x 1,5mm	sheet	1	R 4 100,00
47	Packing material graphite impregnated wire reinforced sheets 1,2m x 2,4m x 3,0mm	sheet	1	R 5 694,00
48	Acetylene 8,5kg cylinder Industrial	Cyl	1	R 1 578,00
49	Quality 11,5kg cylinder Oxygen Industrial	Cyl	1	R 789,00
50	Welding electrodes 2,5 x 5kg	Kg	1	R 410,00
51	Welding electrodes 3,2mm x 5 kg	Kg	1	R 440,00
52	Brazing rods 1,5mm x 5kg	Kg	1	R 1 836,00
53	Brazing rods 2,5mm x 5kg	Kg	1	R 1 980,00
54	Brazing flux 500g container	gram	1	R 352,00
55	Silver solder 100g	gram	1	R 997,00
56	Gear box OL, SAE 90, 5L container	5 litre	1	R 400,00
57	Motor oil, SAE 30 5L container	5 litre	1	R 450,00
58	Hydraulic oil condor 310 20L containers	Litre	1	R 516,00
59	Paraffin 20L containers	Litre	1	R 590,00
60	General Purpose grease 5kg containers	Kg	1	R 980,00

61	Bolts 6mm dia x 25mm long & nuts (HTS)	S	1	R 16,00
62	Bolts 8mm dia x 25mm long & nuts (HTS)	S	1	R 18,00
63	Bolts 8mm dia x 40mm long & nuts (HTS)	S	1	R 18,00
64	Bolts 10mm dia x 25mm long & nuts (HTS)	S	1	R 19,00
65	Bolts 10mm dia x 40mm long & nuts (HTS)	S	1	R 24,00
66	Bolts 10mm dia x 50mm long & nuts (HTS)	S	1	R 26,00
67	Bolts 12mm dia x 40mm long & nuts (HTS)	S	1	R 28,00
68	Bolts 12mm dia x 50mm long & nuts (HTS)	S	1	R 30,00
69	Fibre glass wool sheeting 50mm x 1,2m x 6m roll	S	1	R 1 635,00
70	Pressure gauge 100mm dia bottom entry x 10mm BSP thread range 0 to 2000 kPA	S	1	R 1 406,00
	CONVECTION OVENS			
71	Boiler elements	S	1	R 1 147,00
72	Oven element	S	1	R 1 586,00
73	Contactors	S	1	R 1 600,00
74	Overload	S	1	R 690,00
75	Boiler thermostat	S	1	R 790,00
76	Oven thermostat	S	1	R 910,00
77	Level switch	S	1	R 970,00
78	Door switch	S	1	R 890,00
79	Timer relay	S	1	R 1 690,00
80	Selector switch	S	1	R 1 790,00
81	Solenoid valve	S	1	R 2 400,00
82	Solenoid coil	S	1	R 1 400,00
83	Door seal	S	1	R 3 740,00
84	Door handle	S	1	R 4 709,00
85	Fan motor	S	1	R 5 700,00
86	Timer	S	1	R 1 476,00
	HEAVY DUTY STOVES			
87	3 Heat switch	S	1	R 1 344,00
88	Oven thermostat	S	1	R 1 266,00
89	Plate element	S	1	R 1 960,00
90	Plate complete	S	1	R 4 980,00
91	Oven element	S	1	R 884,00

92	Wiring harness complete	S	1	R 4 680,00
	<u>TILTING PANS</u>			
93	Thermostat	S	1	R 890,00
94	Element	S	1	R 1 100,00
95	Circuit breaker	S	1	R 630,00
96	Tilting wheel handle	S	1	R 1 300,00
97	Tilting wheel worm shaft	S	1	R 2 400,00
98	Tilting wheel gearbox	S	1	R 4 900,00
	<u>BREAD SLICERS</u>			
99	Blades	Set	1	R 1 490,00
100	V Belts	S	1	R 590,00
101	Bearings	S	1	R 955,00
	<u>ACCESSORIES</u>			
102	Cord	M	1	R 390,00
103	Plug	S	1	R 150,00
	<u>TILTING POTS</u>			
104	Thermostat	S	1	R 980,00
105	Boiler element	S	1	R 840,00
106	Contactor	S	1	R 1 660,00
107	Overload	S	1	R 840,00
108	Circuit breaker	S	1	R 1 340,00
	<u>MIXERS</u>			
109	Selector switch	S	1	R 1 790,00
110	Contactor	S	1	R 1 640,00
111	Overload	S	1	R 840,00
112	Bearings	S	1	R 760,00
113	Oil seal	S	1	R 890,00
114	Stop / Start button	S	1	R 590,00
	<u>DISHWASHERS</u>			
115	Boiler element	S	1	R 1 196,00
116	Contactor	S	1	R 1 660,00
117	Thermostat	S	1	R 890,00
118	Curtains	S	1	R 1 490,00
119	Spray arms	S	1	R 3 100,00
120	Selector switch	S	1	R 1 450,00
	<u>PATATO PEELERS</u>			
121	V Belts	S	1	R 410,00
122	Bearings	S	1	R 650,00
123	Bushes	S	1	R 690,00
124	Pulleys	S	1	R 1 150,00
125	On/Off switch	S	1	R 390,00
126	Regrit complete	S	1	R 3 100,00
	<u>BLENDERS</u>			

127	Bearings	S	1	R 790,00
128	Overload circuit breaker	S	1	R 1 100,00
129	Mechanical seal	S	1	R 2 640,00
130	Drive coupling	S	1	R 1 980,00
	<u>FOOD PROCESSORS</u>			
131	Selector switch	S	1	R 17 490,00
132	Contactor	S	1	R 1 640,00
133	Magnetic switch	S	1	R 1 690,00
134	Knife head	S	1	R 980,00
135	Bearings	S	1	R 790,00
136	RC circuit	S	1	R 3 190,00
137	Bushes	S	1	R 790,00
138	Buffers	S	1	R 3 490,00
139	Mechanical seal	S	1	R 2 680,00
	<u>TOASTERS</u>			
140	Element	S	1	R 990,00
141	Thermostat	S	1	R 840,00
142	Pilot light	S	1	R 390,00
143	On/Off switch	S	1	R 410,00
	<u>ZIP HYDROBOIL URNS</u>			
144	Thermostat	S	1	R 890,00
145	Hydro boil tap	S	1	R 490,00
146	Float kit	S	1	R 640,00
147	Cut out switch of pipe	S	1	R 490,00
148	Cut out switch orange wires	S	1	R 540,00
149	Straight element	S	1	R 940,00
150	L shape element	S	1	R 1 100,00
151	Pilot light	S	1	R 390,00
	<u>MOBILE FOOD TROLLEYS</u>			
152	Element top	S	1	R 990,00
153	Element bottom	S	1	R 990,00
154	Thermostat	S	1	R 1 100,00
155	Switch box	S	1	R 1 200,00
156	Top door	S	1	R 2 590,00
157	Bottom door	S	1	R 3 200,00
158	Bumper rail – PVC	M	1	R 1 300,00
159	200mm Plate mounted fixed caster – resilex	S	1	R 703,00
160	200mm plate mounted swivel brake castor	S	1	R 670,00
	<u>MOBILE WARD BAIN MARIES</u>			
161	Element	S	1	R 780,00

162	Thermostat	S	1	R 874,00
163	Pilot light	S	1	R 295,00
164	Circuit breaker	S	1	R 1 060,00
165	Bumper rail – PVC	M	1	R 1 450,00
166	200mm Plate mounted fixed castor resilex	S	1	R 890,00
167	200mm plate mounted swivel brake castor	s	1	R 550,00
	<u>BAIN MARIES / HOT CUPBOARDS</u>			
168	Energy regulator	S	1	R 2 115,00
169	Circuit breaker	S	1	R 1 088,00
170	Element	S	1	R 790,00
171	Thermostat	S	1	R 780,00
172	Pilot light	S	1	R 390,00
	<u>ELNA PRESS</u>			
173	Press cover	S	1	R 3 650,00
174	Handle set	S	1	R 2 650,00
175	Barrel shaft	S	1	R 3 795,00
176	On/Off light	S	1	R 390,00
177	Coil spring	S	1	R 1 690,00
178	Shock absorber	S	1	R 1 790,00
179	Thermostat	S	1	R 1 190,00
180	Element	S	1	R 1 490,00
	<u>7,5 kg Speed Queen Washing machines</u>			
181	Lid switch	S	1	R 795,00
182	Timer	S	1	R 2 300,00
183	Coin mechanism	S	1	R 4 480,00
184	Mixing valve	S	1	R 3 120,00
185	Pump belt	S	1	R 1 100,00
186	Spin belt	S	1	R 960,00
187	Idler pulley assembly	S	1	R 2 735,00
188	Motor switch	S	1	R 1 190,00
189	Pressure switch	S	1	R 2 780,00
190	Hub and seal kit	S	1	R 3 860,00
191	Pump assembly	S	1	R 3 170,00
192	Drain hose	S	1	R 484,00
193	Water supply hose	S	1	R 990,00
	<u>7,5 kg Maytag washing machines</u>			
194	Lid switch	S	1	R 812,00
195	Timer	S	1	R 2 270,00
196	Coin mechanism	S	1	R 4 140,00
197	Mixing valve	S	1	R 2 780,00

198	Pump belt	S	1	R 1 100,00
199	Spin belt	S	1	R 960,00
200	Idler pulley assembly	S	1	R 1 548,00
201	Motor switch	S	1	R 1 790,00
202	Pressure switch	S	1	R 2 890,00
203	Hub and seal kit	S	1	R 3 640,00
204	Pump assembly	S	1	R 3 840,00
205	Drain hose	S	1	R 690,00
206	Water supply hose	S	1	R 980,00
	<u>7,5 kg Clean American washing machines</u>			
207	Lid switch	S	1	R 793,00
208	Timer	S	1	R 2 276,00
209	Coin mechanism	S	1	R 4 142,00
210	Mixing valve	S	1	R 2 300,00
211	Motor	S	1	R 5 150,00
212	Pump belt	S	1	R 1 101,00
213	Spin belt	S	1	R 960,00
214	Idler pulley assembly	S	1	R 1 550,00
215	Motor switch	S	1	R 3 100,00
216	Pressure switch	S	1	R 2 674,00
217	Hub and seal kit	S	1	R 3 082,00
218	Pump assembly	S	1	R 3 780,00
219	Drain hose	S	1	R 390,00
220	Water supply hose	S	1	R 999,00
	<u>7,5 kg Whirlpool washing machines</u>			
221	Lid switch	S	1	R 798,00
222	Timer	S	1	R 2 276,00
223	Coin mechanism	S	1	R 4 142,00
224	Mixing valve	S	1	R 2 780,00
225	Motor	S	1	R 5 634,00
226	Pump belt	S	1	R 1 101,00
227	Spin belt	S	1	R 960,00
228	Idler pulley assembly	S	1	R 1 310,00
229	Motor switch	S	1	R 2 220,00
230	Pressure switch	S	1	R 2 674,00
231	Hub and seal kit	S	1	R 3 339,00
232	Pump assembly	S	1	R 3 954,00
233	Drain hose	S	1	R 525,00
234	Water supply hose	S	1	R 999,00
	<u>TULLIS SLUICE MACHINE</u>			
235	Door solenoid	S	1	R 3 655,00
236	Door handle	S	1	R 3 125,00

237	Door seal	S	1	R 2 080,00
238	Door glass	S	1	R 3 978,00
239	Door hinge	S	1	R 2 245,00
240	Door micro switch	S	1	R 1 820,00
241	Contractor forward	S	1	R 1 561,00
242	Contractor reverse	S	1	R 1 588,00
243	Water level switch	S	1	R 1 686,00
244	Drain exhaust valve	S	1	R 1 868,00
245	Drain exhaust hose	S	1	R 1 248,00
246	Inlet solenoid	S	1	R 3 212,00
247	Forward/Reverse timer	S	1	R 3 317,00
248	Program timer	S	1	R 6 439,00
249	Drum bearing	S	1	R 6 348,00
250	V-belt	S	1	R 1 113,00
	<u>INSTRUMENT WASHER</u>			
251	Contactor	S	1	R 1 654,00
252	Heater element	S	1	R 1 798,00
253	Drain pump	S	1	R 4 468,00
254	Pressure switch	S	1	R 3 491,00
255	Door seal	S	1	R 2 410,00
256	Drain exhaust hose	S	1	R 1 392,00
257	Program timer	S	1	R 6 415,00
	<u>7,5kg Speed Queen Tumble dryers</u>			
258	Timer relay	S	1	R 1 177,00
259	Contactor	S	1	R 1 640,00
260	Overload	S	1	R 1 308,00
261	Door switch	S	1	R 1 048,00
262	Motor	S	1	R 4 647,00
263	Drive chain/belt	S	1	R 1 979,00
264	Drive sprocket	S	1	R 2 146,00
265	Drive pulley	S	1	R 1 449,00
266	Idler pulley	S	1	R 1 516,00
267	Chain tensioner assembly	S	1	R 2 399,00
268	V belt	S	1	R 1 172,00
	<u>7,5 kg Maytag Tumble dryers</u>			
269	Timer relay	S	1	R 1 176,00
270	Contactor	S	1	R 1 640,00
271	Overload	S	1	R 1 296,00
272	Door switch	S	1	R 1 047,00
273	Motor	S	1	R 4 718,00
274	Drive chain/belt	S	1	R 1 814,00
277	Drive sprocket	S	1	R 1 989,00

278	Drive pulley	S	1	R 1 761,00
279	Idler pulley	S	1	R 1 617,00
280	Chain tensioner assembly	S	1	R 2 275,00
281	V belt	S	1	R 1 390,00
	7,5 kg Clear American Tumble dryers			
282	Timer relay	S	1	R 668,00
283	Contactor	S	1	R 1 640,00
284	Overload	S	1	R 1 305,00
285	Door switch	S	1	R 1 048,00
286	Motor	S	1	R 4 719,00
287	Drive chain/belt	S	1	R 1 818,00
288	Drive sprocket	S	1	R 2 361,00
289	Drive pulley	S	1	R 2 506,00
290	Idler pulley	S	1	R 1 518,00
291	Chain tensioner assembly	S	1	R 2 215,00
292	V belt	S	1	R 1 172,00
	7,5 kg Whirlpool Tumble dryers	S		
293	Timer relay	S	1	R 1 478,00
294	Contactor	S	1	R 1 640,00
295	Overload	S	1	R 1 305,00
296	Door switch	S	1	R 690,00
297	Motor	S	1	R 4 719,00
298	Drive chain	S	1	R 1 839,00
299	Drive sprocket	S	1	R 2 096,00
300	Drive pulley	S	1	R 1 686,00
301	Idler pulley	S	1	R 1 540,00
302	Chain tensioner assembly	S	1	R 1 927,00
303	V belt	S	1	R 1 172,00
	COMPLETE ZIP HYDRO BOIL UNITS SUPPLY AND INSTALL			
304	1,5 litre white epoxy 7 – 9 cups	S	1	R 7 516,00
305	2,5 litre white epoxy – 12 – 15 cups	s	1	R 7 940,00
306	5 litre white epoxy – 25 – 30 cups	S	1	R 11 023,00
307	7,5 litre white epoxy 36 – 45 cups	S	1	R 12 006,00
308	10 litre white epoxy 50 – 60 cups	S	1	R 13 505,00

309	15 litre white epoxy 75 – 90 cups	S	1	R 14 655,00
310	25 litre white epoxy 120 – 150 cups	S	1	R 14 736,00
311	Inline water softener to suit Hydro boils	S	1	R 5 533,00
	NEW SUPPLY OF LAUNDRY EQUIPMENT			
312	7,5 kg Washing machines	S	1	R 14 140,00
313	7,5kg Tumble dryer	S	1	R 12 222,00
	SERVICES (all labour is included for services, labour will only be paid for additional work)	S	1	
314	Service Band Saw Part 4, item 2.1	S	1	R 812,00
315	Service Bread Slicer Part 4, item 2.2	S	1	R 788,00
316	Service Rotary Toaster Part, item 2.3	S	1	R 656,00
317	Service Conveyor Toaster Part 4, item 2.4	S	1	R 716,00
318	Service Steam Cooking Pots, Part 4, item 2.5	S	1	R 5 830,00
319	Yearly service Steam Cooking pots Part 4, item 2.6	S	1	R 3 260,00
320	Service Electrical Cooking Pots Part 4, item 2.7	S	1	R 1 036,00
321	Service Dishwasher Part 4, item 2.8	S	1	R 2 600,00
322	Service Convection Ovens Part 4, item 2.9	S	1	R 3 600,00
323	Service Steam Urns Part 4, item 2.10	S	1	R 2 100,00
324	Service Electrical Urns Part 4, item 2.11	S	1	R 980,00
325	Service Tilting Frying Pans Part 4, item 2.12	S	1	R 2 900,00
326	Service Electrical Stoves Part 4, item 2.13	S	1	R 2 600,00
327	Service High Speed Fryers Part 4, item 2.14	S	1	R 2 400,00

328	Service Flat Top Grillers Part 4, item 2.15	S	1	R 2 400,00
329	Service Potato Peelers Part 4, item 2.16	S	1	R 1 400,00
330	Service Vegetable Washers Part 4, item 2.17	S	1	R 1 400,00
331	Service Vegetable Cutters Part 4, item 2.18	S	1	R 1 400,00
332	Service Steam Bain Marie Part 4, item 2.19	S	1	R 2 300,00
333	Service Electrical Bain Marie Part 4, item 2.20	S	1	R 1 400,00
334	Service Food Mixers Part 4, item 2.21	S	1	R 1 400,00
335	Service Tilting Kettles Part 4, item 2.22	S	1	R 2 400,00
336	Service Porridge Maker Part 4, item 2.23	S	1	R 1 400,00
337	Service Food Trolleys Part 4,item 2.24	S	1	R 2 400,00
338	Service Kitchen Canopy Part 4, item 2.25	S	1	R 3 800,00
339	Service Hydro Boilers Part 4, item 2.26	S	1	R 1 400,00
340	Service Sluice Machines Part 4, item 2.27	S	1	R 1 600,00
341	Service Instrument Washers Part 4, item 2.28	S	1	R 1 900,00
342	Service Washing Machines Part 4, item 2.29	S	1	R 2 400,00
343	Service Elna Presses Part 4, item 2.30	S	1	
				<u>R 1 400,00</u>

Solar PV System					
Item	Discription	Qty	Rate	Amount	
1	ATESS HPS 150 Hybrid Inverter complete with external CT (or approved equivalent)	1	R	639 000,00	R639 000,00
2	ATESS HPS 100 Hybrid Inverter complete with external CT (or approved equivalent)	1	R	450 000,00	R450 000,00
3	ATESS Shinemaster (or approved equivalent)	1	R	11 872,58	R11 872,58
4	ATESS 16 String PV	1	R	17 890,00	R17 890,00
5	Daye 50kW Hybrid Inverter HV 3 Phase (or approved equivalent)	1	R	159 987,00	R159 987,00
6	Daye 12kW Hybrid Inverter 3 Phase 48V (or approved equivalent)	1	R	76 786,00	R76 786,00
7	Daye 16kW Hybrid Inverter 48V (or approved equivalent)	1	R	89 300,00	R89 300,00
8	Daye 8kW Hybrid Inverter 48V (or approved equivalent)	1	R	51 900,00	R51 900,00
9	Daye 5kW Hybrid Inverter 48V (or approved equivalent)	1	R	31 900,00	R31 900,00
10	Must 3kW 80A MPPT Solar Inverter	1	R	9 812,00	R9 812,00
11	ATESS Shinemaster	1	R	11 872,58	R11 872,58
12	Canadian Solar 545W Super High Power Mono PERC HiKU with MC4-EVO2 and F30 Frame	344	R	3 674,40	R1 263 995,11
13	Tlian T4-PC-1 Connector 1500V for Canadian Solar modules - Pair male and female	20	R	41,34	R826,85
14	6mm2 single-core DC cable 250m - Pair	4	R	10 006,21	R40 024,83
15	Pair of 25mm2 LV DC Black Cable inclusive of lugs	1	R	260,00	R260,00
16	Pair of 35mm2 LV DC Black Cable Cable inclusive of lugs	1	R	320,00	R320,00
17	Pair of 50mm2 LV DC Black Cable Cable inclusive of lugs	1	R	410,00	R410,00
18	PV on Roof and Hazard Labels Pack	1	R	185,34	R185,34
19	End Clamp+ 30 - 50mm Silver	8	R	41,11	R328,88
20	VarioSole+ Rail connector for rail 41 x 35 mm	188	R	78,29	R14 718,22
21	VarioSole+ Mounting rail 41 x 35 x 2225 mm	192	R	224,84	R43 169,82
22	MC4 Pre terminated cable 2m (1 Pack)	2	R	113,33	R226,66
23	K&N Three Phase AC Switch Disconnecter 300A	2	R	1 071,56	R2 143,12
24	K&N Single String DC Switch Disconnecter 25A 450V - 18A 800V	30	R	692,46	R20 773,86
25	Keto Battery Disconnecter with 160A Fuses	1	R	1 002,00	R1 002,00
26	Keto Battery Disconnecter with 160A Fuses	1	R	951,00	R951,00
27	Freedom Won Lite Business 80/64 HV Battery (or approved equivalent)	1	R	512 582,82	R512 582,82
28	Freedom Won Lite Business 100/80 HV Battery (or approved equivalent)	1	R	645 015,00	R645 015,00
29	Freedom Won Lite Business 200/160 HV Battery (or approved equivalent)	1	R	1 287 008,00	R1 287 008,00
30	Freedom Won Lite Business 300/240 HV Battery (or approved equivalent)	1	R	1 812 600,00	R1 812 600,00
31	Deye 50KhW complete with 10 x 5.12KWH Deye BoSG HV battery , HV Cluster Control box and Battery rack (or approved equivalent)	1	R	384 667,00	R384 667,00
32	Deye HVB750V/100AH HV Cluster Control Box with accessories	1	R	18 889,00	R18 889,00
33	Deye HV 3U	1	R	8 580,00	R8 580,00
34	Deye BosG 5.12kWA	1	R	38 978,00	R38 978,00
35	Dyness 5.12kWH Lithium Ion Battery 48V	1	R	29 012,00	R29 012,00
36	Dyness 10.24kWH lithium Ion Battery 48V	1	R	64 123,00	R64 123,00
37	Hubble 4.12kWH lithium Ion Battery 48V	1	R	36 299,00	R36 299,00
38	Hubble 10kWH lithium Ion Battery 48V	1	R	78 999,00	R78 999,00
39	Must 2.56kWH lithium Ion Battery 24V	1	R	18 546,00	R18 546,00
40	Middle Clamp+ 30 - 50mm Silver	584	R	35,07	R20 479,01
41	VarioSole Hanger bolt M10 x 200 Wood Substructure	816	R	84,19	R68 701,32
42	VarioSole + End Cap 41X35 rail Single - Grey	20	R	14,80	R296,03
43	Distribution complete with by pass and Surge protection	1	R	4 500,00	R4 500,00
44	600V Protection Box 2 Inputs 2 Outputs 16A Isolator Type I_II SPD	1	R	3 214,00	R3 214,00
45	Earth Neutral Bridge Box for AC Protection Box	1	R	1 900,00	R1 900,00
46	Labour, commissioning and Transport	Rate Only		15% -	
47	Sub Total				R7 974 045,04
48	Vat				R1 196 106,76
49	Total				R9 170 151,80

A	DAY WORKS - GENERAL	UNIT	QTY	RATE	AMOUNT
	LABOUR				
	Rates to be applied to dayworks fully inclusive of overheads, profit, levies, bonuses and leave pay				
1	Electrician - Normal time	hrs	8	350	R2 800,00
2	Electrician - Over time	hrs	0	465,5	R0,00
3	Electrician - Saturday	hrs	0	542,5	R0,00
4	Electrician - Sunday	hrs	0	542,5	R0,00
5	Labourer - Normal time	hrs	16	250	R4 000,00
6	Labourer - Over time	hrs	0	332,5	R0,00
7	Labourer - Saturday	hrs	0	387,5	R0,00
8	Labourer - Sunday	hrs	0	387,5	R0,00
9	Call out - Normal time	No.	0	950	R0,00
10	Call Out - Over time	No.	0	950	R0,00
11	Call Out - Saturday	No.	0	950	R0,00
12	Call Out - Sunday	No.	0	950	R0,00
TOTAL FOR SECTION A CARRIED TO SUMMARY PAGE					R6 800,00
B	TESTING AND SERVING GENERATOR	UNIT	QTY	RATE	AMOUNT
	Rates to be applied to dayworks fully inclusive of overheads, profit, travelling, one electrical, one artisan including top up oil levels, anti freeze including plant room				
1	Two monthly testing	No.	100	3 100,00	R310 000,00
2	Servicing Generator		100		
2.1	Engine Coolant	ltr	0	85	R0,00
2.2	Engine Oil	ltr	40	80	R3 200,00
2.3	Oil Filter	No.	2	1 320,50	R2 641,00
2.4	Diesel Filter	No.	2	1 599,56	R3 199,12
2.5	Air Filter	No.	1	888,85	R888,85
3	Additional Work Carried out				
3.1	Battery Leads set inclusive lugs	No.	4	205	R820,00
3.2	12V 120AH Smartgen battery	No.	2	3 999,50	R7 999,00
3.3	12V DC Smart Battery Charger 20A	No.	0	2 300,00	R0,00
3.4	12V Soleniod	No.	0	1 450,00	R0,00
3.5	300A Automatic Changer Over	No.	1	23 245,00	R23 245,00
3.6	300A MCCB 15KA Breaker	No.	1	18 500,00	R18 500,00
3.7	Emergency Stop Button	No.	1	350	R350,00
3.8	HGM7220CAMGP SmartGen Controler (Or approve equivalent)	No.	1	7 500,00	R7 500,00
3.9	Oil Pressure Sensor	No.	1	3 055,50	R3 055,50
3.10	Temperature Sensor	No.	1	2 050,00	R2 050,00
3.11	Mechanical Gauge Sensor with Alrmal	No.	1	370	R370,00
3.12	CT Drop Kit Set	No	1	1 335,50	R1 335,50
3.13	Unforseen breakdown works subject to approval from the Chief Engineer as per quote. Provisional Amount	Sum	0	250 000,00	R0,00

3.14	Travelling from nearest local office to Institution per km	km	60	67	R4 020,00
3.15	Generator LogBook with duplicates	No.	1	405	R405,00
3.16	JobCard LogBook with duplicates	No.	1	375	R375,00
TOTAL FOR SECTION B CARRIED TO SUMMARY PAGE					R389 953,97
SUMMARY					
SUB TOTAL					R396 753,97
VAT					R59 513,10
TOTAL					R456 267,07

- 1) Electrical Construction Board Certificate (ECB)
- 2) Installation Certificate Registration No.
- 3) Workman's Compensation Document
- 4) Sample of fittings if requested by Inspectorate
- 5) Certified Copy of Licensed Installation Electrician
- 6) CIDB Strictly EB or EP
- 7) One compusalry breiffing for all to be arranged by buyer
- 8) BOQ must be filled in full
- 8) References of previous generator maintenance



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Financial Statements

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Submission of Financial Statements

The latest financial statements for the last two years are required (except if it is a new or a dormant entity)

- a) Financial statements must be signed by the auditor (in the case of companies) or the accounting officer (in the case of close corporations) the owner (in case of sole proprietors). Signatures must be on the accounting officer's / auditors report on the auditor's /accounting officer's letterhead.
- b) Financial statements must be signed by the member/s (in the case of close corporations) or by the director/s (in the case of companies.)
- c) In bids where consortia/joint ventures/sub-contractors and partnerships are involved, all bidders must submit their financial statements.
- d) If it is a new or dormant entity an opening set of financial statements must be submitted. A letter from the auditor (in the case of companies) or the accounting officer (in the case of close corporations) stating that the entity has not yet traded must be submitted.
- e) In cases where an entity has operated for a period less than a year the Management Accounts Report for the period in operation must be submitted signed accordingly as stated in paragraph (a) and (b) of this document.
- f) In cases where the entity has operated for a period more than a year but less that two years, then the financial statement for the first year of operation signed accordingly as per paragraph (a) and (b) of this document must be submitted.

 GAUTENG PROVINCE PROVINCIAL TREASURY REPUBLIC OF SOUTH AFRICA	Provincial Supply Chain Management	
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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:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 **To be completed by the organ of state**

[TICK APPLICABLE BOX]

☐	The applicable preference point system for this tender is the 90/10 preference point system.
☐	The applicable preference point system for this tender is the 80/20 preference point system.
☒	Either the 90/10 or 80/20 preference point system will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

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.

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1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	90 or 80
SPECIFIC GOALS	10 Or 20
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.

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).



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PREFERENCE POINTS CLAIM FORM

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3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

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

80/20

or

90/10

$$Ps = 80 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right) \text{ or } Ps = 90 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

3.2.1. POINTS AWARDED FOR PRICE

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

80/20

or

90/10

$$Ps = 80 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right) \text{ or } Ps = 90 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmax = Price of highest 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.



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PREFERENCE POINTS CLAIM FORM

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Table 1: Specific goals for the tender and points claimed are indicated per the table below.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.)

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Enterprise owned by black	3	5		
Enterprise owned by women	2	4		
Enterprise owned by youth	2	4		
Enterprise owned by PWD's	2	2		
Gauteng Province	1	5		
Total	10	20		



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PREFERENCE POINTS CLAIM FORM

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DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm

4.4. Company registration number

4.5. TYPE OF COMPANY/ FIRM

[TICK APPLICABLE BOX]

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

4.6. 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 –



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PREFERENCE POINTS CLAIM FORM

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- (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 *audi 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	19 March 2025
ADDRESS	