 GAUTENG PROVINCE PROVINCIAL TREASURY REPUBLIC OF SOUTH AFRICA		<h1>Provincial Supply Chain Management</h1>								
		Request for Proposal			Page 1 of 4					
RFP NUMBER										
RFP DESCRIPTION										
CUSTOMER DEPARTMENT										
CUSTOMER INSTITUTION										
BRIEFING SESSION	Y		N		SESSION COMPULSORY		Y		N	
					SESSION HIGHLY RECOMMENDED		Y		N	
BRIEFING VENUE					DATE			TIME		
COMPULSORY SITE INSPECTION	Y		N		DATE			TIME		
INSPECTION ADDRESS										
TERM AGREEMENT CALLED FOR?	Y		N		TERM DURATION					
CLOSING DATE					CLOSING TIME					
TENDER BOX LOCATION										
GPT is acting as Common Service Provider or buying organisation on behalf of all Gauteng Provincial Government Customer Departments / Institutions. The goods / services are therefore required by the Customer Department / Institution, as indicated on this form RFP 01.										

Notes:

- All bids / tenders must be deposited in the Tender Box at the following address:
Gauteng Provincial Treasury, Imbumba House, 75 Fox Street, Marshalltown, Johannesburg
- 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.
- The GPT Tender Box is generally open 24 hours a day, 7 days a week.
- 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 RFP 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 RFP Pack consists of Section 1 This sections must be submitted, clearly marked with the Tender Number and the Section Number.

Training sessions

Non-compulsory "How to tender" workshops are held every Wednesday at 75 Fox Street from 10:00-13:00.



Provincial Supply Chain Management

Request for Proposal

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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?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES OFFERED?		<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]

QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS

IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?	<input type="checkbox"/> YES <input type="checkbox"/> NO
DOES THE ENTITY HAVE A BRANCH IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?	<input type="checkbox"/> YES <input type="checkbox"/> NO
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.	



Provincial Supply Chain Management

Request for Proposal

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Tender documents can be obtained from <http://www.treasury.gpg.gov.za>

ANY ENQUIRIES REGARDING BIDDING PROCEDURE MAY BE DIRECTED TO:

DEPARTMENT	
CONTACT PERSON	
TELEPHONE NUMBER	
FACSIMILE	
E-MAIL ADDRESS	

ANY ENQUIRIES REGARDING TECHNICAL INFORMATION MAY BE DIRECTED TO:

DEPARTMENT	
CONTACT PERSON	
TELEPHONE NUMBER	
FACSIMILIE	
E-MAIL ADDRESS	

 <p>GAUTENG PROVINCE PROVINCIAL TREASURY REPUBLIC OF SOUTH AFRICA</p>	<h1 style="text-align: center;">Provincial Supply Chain Management</h1>	
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PART B TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:
<p>1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.</p> <p>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.</p> <p>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.</p> <p>1.4. THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).</p>
2. TAX COMPLIANCE REQUIREMENTS
<p>2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.</p> <p>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.</p> <p>2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.</p> <p>2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.</p> <p>2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.</p> <p>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.</p> <p>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."</p>

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 of20.....

.....

Name of data subject/ designated person

.....

Signature

.....

Name/Surname/Dept of Responsible Party

.....

Signature

Date:



GAUTENG PROVINCE
PROVINCIAL TREASURY
REPUBLIC OF SOUTH AFRICA

Provincial Supply Chain Management

RFP Point System

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RFP NUMBER		CLOSING DATE	
VALIDITY OF RFP		CLOSING TIME	

In case of queries, please contact the GPT Contact Centre at tel: 0860 011 000

*GPT is acting as Common Service Provider or buying organisation on behalf of all Gauteng Provincial Government Customer Departments / Institutions.

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

The Gauteng Provincial Government requests your bid on the goods and/or services listed on the attached forms. Please furnish all information as requested and return your bid on the date stipulated. Late bids will not be accepted for consideration.

This RFP 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

Points SHALL be allocated as follows:

Points for

Points for

TYPE OF CONTRACT (COMPLETED BY PROJECT MANAGER)

VALUE BASED

SERVICE BASED	Y		N		SERVICE BASED	Y		N		VALUE BASED	Y		N	
VALUE BASED	Y		N											
QUANTITY BASED	Y		N											
TERM BASED	Y		N											



Provincial Supply Chain Management

Instructions to Bidders

Page 1 of 2

1. The RFP (Request for Proposal) 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 RFP 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 RFP. Additional offers made in any other manner may be disregarded.
3. Should the RFP 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 forms RFP 04 to RFP 09 and PREF documents shall be completed, signed and submitted with the bid. RFP 10 (National Industrial Participation Programme Form) will only be added to the RFP pack to be completed by bidders when an imported component in excess of US \$ 10 million is expected.
6. A separate RFP 06 form (RFP Price 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 RFP(not applicable for Pre-qualification of Bidders).
7. Firm delivery periods and prices are preferred. Consequently bidders shall clearly state whether delivery periods and prices will remain firm or not for the duration of any contract, which may result from this RFP, by completing RFP 06 (RFP Price Schedule per item) and RFP 07 (Non-Firm Prices per item) (not applicable for Pre-qualification of Bidders).
8. If non-firm prices are offered bidders must ensure that a separate RFP 07 (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 RFP (not applicable for Pre-qualification of Bidders).
9. Where items are specified in detail, the specifications form an integral part of the RFP 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 Pre-qualification 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 Pre-qualification 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 RFP 06 (RFP Price Schedule per item) submit a Letter of Supply from the relevant manufacturer or his supplier (not applicable for Pre-qualification of Bidders).
13. The offered prices shall be given in the units shown in the attached specification, as well as in RFP 06 (RFP Price Schedule per item) (not applicable for Pre-qualification 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 RFP 06 (RFP Price Schedule per item) and RFP 07 (Non-Firm Prices per item) (not applicable for Pre-qualification 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 RFP 06 (RFP Price Schedule per item) (not applicable for Pre-qualification of Bidders).
16. Delivery basis (not applicable for Pre-qualification 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 RFP 06 (RFP Price Schedule per item).
17. Unless specifically provided for in the RFP document, no bids transmitted by facsimile or email shall be considered.
18. Failure on the part of the bidder to sign any of the forms RFP 04 to RFP 10 and PREF documents and thus to acknowledge and accept the conditions in writing or to complete the attached RFP 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



Provincial Supply Chain Management

Instructions to Bidders

Page 2 of 2

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 (refer to RFP 05 in this regard), 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 (refer to RFP 05 in this regard), the samples must be submitted together with the bid before the closing time and date of the RFP, unless specifically indicated otherwise. Failure to submit the requested sample(s) before the closing time and date of the RFP 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.
24. In cases where the relevant Department or Institution advertising this RFP 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 RFP 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 RFP 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 (RFP) NUMBER; AND
 - THE CLOSING DATE.

The bid must be deposited or posted;

 - posted to Gauteng Provincial Treasury and to reach the destination not later than the closing time and date; OR
 - deposited in the tender box of the Gauteng Provincial Treasury 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 RFP) – 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.

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	Bid Commitment and Declaration of Interest	Page 1 of 3

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 interest¹ in the enterprise, employed by the state?

YES		NO	
------------	--	-----------	--

- 2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole 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.

 <p>GAUTENG PROVINCE PROVINCIAL TREASURY REPUBLIC OF SOUTH AFRICA</p>	<h1>Provincial Supply Chain Management</h1>	
	<h2>Bid Commitment and Declaration of Interest</h2>	<h2>Page 2 of 3</h2>

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

YES		NO	
------------	--	-----------	--

- 2.2.1 If so, furnish particulars:

--

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

YES		NO	
------------	--	-----------	--

- 2.3.1 If so, furnish particulars:

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3. DECLARATION

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

- 3.1 I have read and 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 consortium² will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

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.
Filename: RFP4GPT (SBD4)

 GAUTENG PROVINCE PROVINCIAL TREASURY REPUBLIC OF SOUTH AFRICA	<h1>Provincial Supply Chain Management</h1>	
	Bid Commitment and Declaration of Interest	Page 3 of 3

3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.

3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN 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 Bidder	

 GAUTENG PROVINCE PROVINCIAL TREASURY REPUBLIC OF SOUTH AFRICA	<h1>Provincial Supply Chain Management</h1>	
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BRIEFING SESSION - DECLARATION OF ATTENDANCE

RFP NUMBER			
RFP DESCRIPTION			
RFP CLOSING DATE		CLOSING TIME	

*GPT is acting as Common Service Provider or buying organisation on behalf of all Gauteng Provincial Government Customer Departments / Institutions. The goods / services are therefore required by the Customer Department / Institution, as indicated on form RFP 01.

CUSTOMER DEPARTMENT								
CUSTOMER INSTITUTION								
BRIEFING SESSION	Y		N		DATE		TIME	
VENUE								

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 RFP 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 SITE INSPECTION WAS UNDERSTOOD.

BIDDER OR ASSIGNEE(S) NAME		POSITION		SIGN		DATE	
-----------------------------------	--	-----------------	--	-------------	--	-------------	--

FULL COMPANY NAME	
--------------------------	--

GPG OFFICIAL NAME		POSITION		SIGN		DATE	
--------------------------	--	-----------------	--	-------------	--	-------------	--

<p>END USER STAMP</p>

 GAUTENG PROVINCE PROVINCIAL TREASURY REPUBLIC OF SOUTH AFRICA	<h1>Provincial Supply Chain Management</h1>		
	Briefing Session		Page 1 of 1

BRIEFING SESSION - DECLARATION OF ATTENDANCE

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CUSTOMER DEPARTMENT								
CUSTOMER INSTITUTION								
BRIEFING SESSION	Y		N		DATE		TIME	
VENUE								

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 RFP 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 SITE INSPECTION WAS UNDERSTOOD.

BIDDER OR ASSIGNEE(S) NAME		POSITION		SIGN		DATE	
-----------------------------------	--	-----------------	--	-------------	--	-------------	--

FULL COMPANY NAME	
--------------------------	--

GPG OFFICIAL NAME		POSITION		SIGN		DATE	
--------------------------	--	-----------------	--	-------------	--	-------------	--

<p>END USER STAMP</p>

 GAUTENG PROVINCE PROVINCIAL TREASURY REPUBLIC OF SOUTH AFRICA	<h1>Provincial Supply Chain Management</h1>	
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BRIEFING SESSION - DECLARATION OF ATTENDANCE

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CUSTOMER DEPARTMENT								
CUSTOMER INSTITUTION								
BRIEFING SESSION	Y		N		DATE		TIME	
VENUE								

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 RFP 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 SITE INSPECTION WAS UNDERSTOOD.

BIDDER OR ASSIGNEE(S) NAME		POSITION		SIGN		DATE	
-----------------------------------	--	-----------------	--	-------------	--	-------------	--

FULL COMPANY NAME	
--------------------------	--

GPG OFFICIAL NAME		POSITION		SIGN		DATE	
--------------------------	--	-----------------	--	-------------	--	-------------	--

<p>END USER STAMP</p>

 GAUTENG PROVINCE PROVINCIAL TREASURY REPUBLIC OF SOUTH AFRICA	<h1>Provincial Supply Chain Management</h1>	
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BRIEFING SESSION - DECLARATION OF ATTENDANCE

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CUSTOMER DEPARTMENT								
CUSTOMER INSTITUTION								
BRIEFING SESSION	Y		N		DATE		TIME	
VENUE								

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 RFP 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 SITE INSPECTION WAS UNDERSTOOD.

BIDDER OR ASSIGNEE(S) NAME		POSITION		SIGN		DATE	
-----------------------------------	--	-----------------	--	-------------	--	-------------	--

FULL COMPANY NAME	
--------------------------	--

GPG OFFICIAL NAME		POSITION		SIGN		DATE	
--------------------------	--	-----------------	--	-------------	--	-------------	--

<p>END USER STAMP</p>

 GAUTENG PROVINCE PROVINCIAL TREASURY REPUBLIC OF SOUTH AFRICA	<h1>Provincial Supply Chain Management</h1>	
	Briefing Session	Page 1 of 1

BRIEFING SESSION - DECLARATION OF ATTENDANCE

RFP NUMBER			
RFP DESCRIPTION			
RFP CLOSING DATE		CLOSING TIME	

*GPT is acting as Common Service Provider or buying organisation on behalf of all Gauteng Provincial Government Customer Departments / Institutions. The goods / services are therefore required by the Customer Department / Institution, as indicated on form RFP 01.

CUSTOMER DEPARTMENT								
CUSTOMER INSTITUTION								
BRIEFING SESSION	Y		N		DATE		TIME	
VENUE								

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 RFP 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 SITE INSPECTION WAS UNDERSTOOD.

BIDDER OR ASSIGNEE(S) NAME		POSITION		SIGN		DATE	
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FULL COMPANY NAME	
--------------------------	--

GPG OFFICIAL NAME		POSITION		SIGN		DATE	
--------------------------	--	-----------------	--	-------------	--	-------------	--


<p>END USER STAMP</p>

 GAUTENG PROVINCE PROVINCIAL TREASURY REPUBLIC OF SOUTH AFRICA	Provincial Supply Chain Management	
	Special Conditions	Page 1 of 3

RFP NUMBER	
RFP DESCRIPTION	
CUSTOMER DEPARTMENT	
CUSTOMER INSTITUTION	

THE FOLLOWING MUST ACCOMPANY YOUR BID, IF INDICATED BY "√"

Samples	SABS /Equivalent Certificate May not be older than one (1) year, the cost of which will be for the account of the bidder.	Bidders Briefing Session

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

Bidders must complete Compulsory documents and attach it to their tender document, failing which the tender shall not be considered for Stage 1 evaluation.

Points will be awarded in accordance with the Preferential Procurement Policy Framework Act (PPPFA)


Stage 1

Criteria for Functionality	Points
TOTAL	

NOTE: Bidders who fail to meet the above minimum requirements (Stage 1) shall be automatically eliminated

Bidders are required to use the two envelope bidding system, whereby the Technical Proposal (Stage 1); will be placed in a sealed and marked envelope :

- Stage One-

 GAUTENG PROVINCE PROVINCIAL TREASURY REPUBLIC OF SOUTH AFRICA	<h1>Provincial Supply Chain Management</h1>	
	Special Conditions	Page 3 of 3

SUPPLIER JOB CREATION ANALYSIS

Company Name		Date Est.	
--------------	--	-----------	--

	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 supplier)
- 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.

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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 PREQUALIFIED 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 ACROSS GAUTENG PROVINCE FOR A FIXED TERM PERIOD OF 3 (THREE) 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 ACROSS GAUTENG PROVINCE FOR A FIXED TERM PERIOD OF 3 (THREE) 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 ACROSS GAUTENG PROVINCE FOR A FIXED TERM PERIOD OF 3 (THREE) 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, 2000 (Act No 5 of 2000), as amended
- e. The Broad Based Black Economic Empowerment, 2003 (Act No 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, 2008 (Act No 75 of 2008)
 - **Older persons facilities**
The Older Persons Act, 2006 (Act No 13 of 2006)
 - **Rehabilitation Centres**
The Prevention of and Treatment for Substance Abuse Act, 2008 (Act No. 70 of 2008)
 - **Children facilities**
The Children's Act, 2005 (Act No. 38 of 2005)
- h. Occupational Health and Safety Act, 1993 (Act No 85 of 1993), as amended
- i. Compensation for Occupational Injuries and Disaster Act 1993 (Act 130 of 1993), as amended
- j. Unemployment Insurance Act, 2001 (Act No 61 of 2001), as amended
- k. Construction Industry Development Board (CIDB) (Act 38 of 2000), as amended

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 ACROSS GAUTENG PROVINCE FOR A FIXED TERM PERIOD OF 3 (THREE) YEARS

- l. National Building Regulations and Building Standards (Act 103 of 1977), as amended.

m. **Applicable Norms and Standards**

- National Department of Public Works norms and standards for offices
- National norms and standards for Social Service Delivery
- National Norms and Standards for Drop-in Centres
- National Norms and Standards for Partial Care
- National Norms and Standards for Prevention and Early Intervention Programmes
- National Norms and Standards for Child and Youth Care Centres
- National Norms and Standards for Early Childhood Development
- National Department of Social Development Minimum Norms and Standards for Out-Patient Treatment Centres
- 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

.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.

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 ACROSS GAUTENG PROVINCE FOR A FIXED TERM PERIOD OF 3 (THREE) YEARS

- b. Restoration of GDSD facilities to make them safe, secure and functional immediately after disastrous events or emergencies.

4.2. Areas of operation

The preferred cluster must be selected by placing a tick in the box next to the cluster. The trade of speciality should be indicated by placing a tick next to a relevant trade. **(If the company select all the trades proof of competency and CV's must be attached)**

PLEASE INDICATE SELECTION OF THE PREFERRED CLUSTER & TRADE(S) BY A TICK IN THE SPACE PROVIDED AND MUST MATCH THE CIDB

4.2.1 CLUSTER ONE (1)

PREFERRED CLUSTER ✓	REGION	TRADE OF SPECIALITY	CHOICE ✓
	TSHWANE	Building	
		Plumbing	
		Electrical	
		Mechanical	
		Civil	
		Landscaping	
		Structural	
		Fire Compliance	
		External Works	

4.2.2 CLUSTER TWO (2)

PREFERRED CLUSTER ✓	REGION	TRADE OF SPECIALITY	CHOICE ✓
	JOHANNESBURG	Building	
		Plumbing	
		Electrical	
		Mechanical	
		Civil	
		Landscaping	

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 ACROSS GAUTENG PROVINCE FOR A FIXED TERM PERIOD OF 3 (THREE) YEARS

		Structural	
		Fire Compliance	
		External Works	

4.2.3 CLUSTER THREE (3)

PREFERRED CLUSTER ✓	REGION	TRADE OF SPECIALITY	CHOICE ✓
	EKURHULENI	Building	
		Plumbing	
		Electrical	
		Landscaping	
		Civil	
		Horticulture	
		Structural	
		Fire Compliance	
		External Works	

4.2.4 CLUSTER FOUR (4)

PREFERRED CLUSTER ✓	REGION	TRADE OF SPECIALITY	CHOICE ✓
	SEDIBENG	Building	
		Plumbing	
		Electrical	
		Mechanical	
		Civil	
		Landscaping	
		Structural	
		Fire Compliance	
		External Works	

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 ACROSS GAUTENG PROVINCE FOR A FIXED TERM PERIOD OF 3 (THREE) YEARS

4.2.5 CLUSTER FIVE (5)

PREFERED CLUSTER ✓	REGION	TRADE SPECIALITY	OF CHOICE ✓
	WEST RAND	Building	
		Plumbing	
		Electrical	
		Mechanical	
		Civil	
		Landscaping	
		Structural	
		Fire Compliance	
		External Works	

5. EVALUATION CRITERIA

The 2 Stage Evaluation Methodologies

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.

- Original tender document (RFP pack)
- Signed Bidders Disclosure (SBD4)
- 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
- Copy of Companies and Intellectual Property Commission (CIPC) registration previously known as CK Document
- Proof of valid registration with Compensation for Occupational Injuries and Disaster (COIDA)
- Compulsory Briefing Certificate

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 ACROSS GAUTENG PROVINCE FOR A FIXED TERM PERIOD OF 3 (THREE) YEARS

- g. Attach proof of address municipal tax invoice or lease agreement in the name of the company.

Bidder must choose one (01) region					
	EKURHULENI	SEDIBENG	TSHWANE	WEST RAND	JOHANNESBURG
SELECTION					

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)
- Valid certified BBBEE certificate / affidavit in case of EME and QSE
- Current financial statements with past two-year comparatives

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	<p>Relevant Company Experience in the field. (Reference letters, job cards or purchase orders must be attached)</p> <p>1.1.1 <u>Projects done (55)</u></p> <p>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)</p>	

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 ACROSS GAUTENG PROVINCE FOR A FIXED TERM PERIOD OF 3 (THREE) YEARS

	<p>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)</p> <p>c. Bidder has successfully completed at least 1 projects of value lesser than R100k, each with positive references in case of Grade 1 contractor and lesser than R200k for Grade 2 contractors (35)</p> <p>d. Bidder has submitted no information or inadequate information to determine scoring level (0)</p>	
2	Human Resource Capacity	45
2.1	<p>Relevant Skills, Attributes and Competencies in trades: (at least one CV and any accredited certificate in line with the trade must be attached) (45)</p> <p>Each discipline will be evaluated and must be submitted separately</p> <ul style="list-style-type: none"> • 5 years and above (45) • 3 to 4 years (30) • No experience (00) <p>a. Building –NHBRC</p> <p>b. Plumbing – Trade Test</p> <p>c. Electrical – Trade Test and Wiremans Licence</p> <p>d. Mechanical – Trade Test</p> <p>e. Civil – N3 to N6</p> <p>f. Landscaping</p> <p>g. Structural- National Diploma</p> <p>h. Fire Compliance- SAQCC Fire</p> <p>i. External Works – National Diploma/ Trade Test</p>	
Total		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 ACROSS GAUTENG PROVINCE FOR A FIXED TERM PERIOD OF 3 (THREE) YEARS

5.2.2 CATEGORY 2

	Criteria for functionality CIDB Grade 3 - 6	Points
1	Capacity to Deliver	60
1.1	<p>Relevant Company Experience in the field. (reference letters, job cards or purchase orders must be attached)</p> <p>1.1.1 <u>Projects done (60)</u></p> <p>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 and greater than R6,5m in the case of Grade 5 contractors and greater than R4m in the case of Grade 4 contractors and greater than R2m in the case of Grade 3 contractors (60)</p> <p>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)</p> <p>c. Bidder has submitted no information or inadequate information to determine scoring level. (0)</p>	
2	Human Resource Capacity	40
2.1	<p>Relevant Skills, Attributes and Competencies (at least one CV including copy/s of qualifications for the following required skills MUST be attached)</p> <p><u>Project Management Qualifications (Built Environment) (20)</u></p> <p>a. Professional Engineer or Technologist (20)</p> <p>b. Graduate Engineer or B Tech (15)</p> <p>c. National Diploma (10)</p> <p>d. Project Management Training (5)</p> <p>e. No submission of qualification (00)</p>	

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 ACROSS GAUTENG PROVINCE FOR A FIXED TERM PERIOD OF 3 (THREE) YEARS

	<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		100
Minimum threshold		80

SPECIFIC GOAL	NO OF POINTS	POINTS CLAIMED
ENTERPRISE OWNED BY BLACK PEOPLE	5	
ENTERPRISE OWNED BY WOMEN	4	
ENTERPRISE OWNED BY YOUTH	4	
ENTERPRISE OWNED BY PWD'S	2	
GAUTENG PROVINCE	5	
TOTAL	20	

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 ACROSS GAUTENG PROVINCE FOR A FIXED TERM PERIOD OF 3 (THREE) YEARS

6 FORMAT AND SUBMISSION OF BID

Each Request for Proposal (RFP) shall comprise of clearly indexed and bound returnable documents as follows:

1	Standard RFP documents
2	Signed Bidders Disclosure (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
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	Certified valid BBBEE certificate/ Affidavit in case of EME's and QSE's
8	Proof of company registration on Central Supplier Database (CSD)

7 TERMS AND CONDITION

7.1 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.

7.2 Only Service Providers registered as CIDB 1 to 6 will be considered.

7.3 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.

7.4 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.

7.5 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.

- 7.6 Service providers will be paid after receipt of correct invoices within 30 (thirty) days.
- 7.7 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 both parties.
- 7.8 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
- 7.9 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")
- 7.10 Service provider/s shall be registered with the Workman's Compensation and shall provide GDSD with credible proof of such registration upon request thereof.
- 7.11 Service Providers will be appointed per cluster. 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.
- 7.12 Service Providers shall only apply for appointment in their clusters of residence/operation.
- 7.13 Service Providers shall have the capacity, functional skills and experience to provide the services required by GDSD.
- 7.14 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

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 ACROSS GAUTENG PROVINCE FOR A FIXED TERM PERIOD OF 3 (THREE) YEARS

Provider shall be available at all stages to provide assistance within the agreed time frames.

7.15 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

7.16 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.

7.17 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.

7.18 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

8.1 Three (3) 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.

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 ACROSS GAUTENG PROVINCE FOR A FIXED TERM PERIOD OF 3 (THREE) YEARS

10 INSTRUCTIONS FOR THE PROPOSAL

- 10.1 This RFP does not constitute an offer. The RFP intends to provide sufficient information for the preparation and submission of comparable proposals by the Service Providers.
- 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 RFP.
- 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
 - c. 1 (One) copy of the proposal (marked copy) shall be submitted
- 10.5 All proposals shall be delivered bound and in a sealed envelope. Each RFP 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) RFP number.
 - d) Closing date and time

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 ACROSS GAUTENG PROVINCE FOR A FIXED TERM PERIOD OF 3 (THREE) YEARS

10.6 Service Providers shall take note of the following:

Tender Costs

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

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.

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 RFP 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).

10.10 Late Submissions

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

11 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
	BILL NO. 1		
	ALTERATIONS		
	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 1	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 1	836,99	836,99
	REMOVAL OF EXISTING WORK		
	Break down and remove brickwork etc:		
3	Half brick walls m² 1	53,37	53,37
4	Half brick walls with steel mesh to one side of wall m² 1	61,91	61,91
5	Half brick walls with steel mesh to both sides of wall m² 1	68,69	68,69
6	One brick walls m² 1	108,21	108,21
7	One brick walls with steel mesh to one side of wall m² 1	115,12	115,12
8	One brick walls with steel mesh to both sides of wall m² 1	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 1	75,21	75,21
10	Timber double door and timber frame ± 4m ² m² 1	90,65	90,65
11	Metal louvre ± 0.1m ² m² 1	78,94	78,94
12	Metal strong room door including frame ± 2m ² m² 1	191,50	191,50
13	Metal strong room door including frame ± 4m ² m² 1	187,81	187,81
14	Glazed aluminium shopfronts including doors, etc. ± 36m ² m² 1	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 1	59,61	59,61
16	Timber double door and frame ± 4m ² m² 1	83,38	83,38
17	Glazed aluminium shopfronts including doors, etc ± 50m ² m² 1	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 1	69,30	69,30
19	Metal strong room door including frame ± 2m ² m² 1	191,50	191,50
20	Metal strong room door including frame ± 5m ² m² 1	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 1	102,24	102,24
22	Single fire escape doors and frame ± 3m ² m² 1	103,96	103,96
23	Heavy duty 'safe' door ± 2m ² m² 1	273,09	273,09
24	Glazed aluminium shopfront with double door and frame ± 8m ² m² 1	76,06	76,06
25	Glazed aluminium shopfront including doors, etc ± 36m ² m² 1	76,06	76,06
	Take down and remove ceilings, partitions, etc		
26	Gypsum plasterboard ceilings, including cornices, timber brandering, redundant		

	DESCRIPTION		RATE	TOTAL
	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
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

	DESCRIPTION		RATE	TOTAL
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
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

	DESCRIPTION		RATE	TOTAL
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
	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

	DESCRIPTION		RATE	TOTAL
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
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

	DESCRIPTION		RATE	TOTAL
	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
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

	DESCRIPTION		RATE	TOTAL
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			
181	Walls in patches m ² 1		96,24	96,24
	Make good drywall partitioning			
182	Drywall intersection where drywall has been removed m 1		495,24	495,24
	OPENINGS THROUGH EXISTING WALLS, ETC.			
	Altering openings			
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) No 1		2 285,60	2 285,60
	Breaking openings			
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>			

	DESCRIPTION	RATE	TOTAL
	EXCAVATION OTHER THAN BULK		
	Excavation in earth not exceeding 2m deep		
1	Trenches. m³ 1	140,48	140,48
2	Holes m³ 1	162,96	162,96
	Extra over excavations other than bulk in earth for excavation in:		
3	Soft rock. m³ 1	340,59	340,59
4	Hard rock. m³ 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. m² 1	34,39	34,39
	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 m² 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. m³ 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 m³ 1	600,22	600,22
9	Backfilling to trenches, holes, etc. (from excavations) m³ 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 m³ 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). m³ 1	1 773,44	1 773,44
2	Surface blinding under footings and bases m³ 1	1 711,45	1 711,45
	20 MPa/19mm concrete		
3	Strip footings m³ 1	1 672,91	1 672,91
	REINFORCED CONCRETE CAST ON/IN FORMWORK		
	35MPa/19mm concrete		
4	Underpinning to manhole m³ 1	2 061,85	2 061,85

	DESCRIPTION		RATE	TOTAL
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
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)				

	DESCRIPTION	RATE	TOTAL
	Rough formwork to sides and soffits		
29	Isolated beams m² 1	706,18	706,18
30	Beams m² 1	607,72	607,72
31	Inverted beams m² 1	558,63	558,63
32	Rectangular columns (Provisional). m² 1	478,13	478,13
33	Walls in foundations (Provisional) m² 1	515,21	515,21
34	Rectangular stub columns in foundations (Provisional) m² 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 m² 1	710,38	710,38
37	Beams propped up exceeding 1,5m and not exceeding 3,5m high m² 1	611,92	611,92
38	Slabs propped up exceeding 1,5m and not exceeding 3,5m high. m² 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 m² 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 m² 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 m² 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 m² 1	627,59	627,59
	SMOOTH FORMWORK (DEGREE OF ACCURACY II)		
	Smooth formwork to sides		
43	Walls m² 1	639,11	639,11
44	Inner face of shaft walls m² 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)		
	High tensile steel reinforcement to structural concrete work:		
50	Bars of varying length and diameter. Tonnes 1	15 750,00	15 750,00
	Fabric reinforcement		

Section 2.1

Modernisation of General Building Works

	DESCRIPTION	RATE	TOTAL
	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). m² 1	477,82	477,82
2	One brick walls circular on plan m² 1	510,00	510,00
3	280mm Hollow walls of two half brick skins including wire ties m² 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 m² 1	178,50	178,50
5	Half brick walls against existing surfaces m² 1	246,51	246,51
6	One brick walls circular on plan m² 1	510,00	510,00
7	One brick walls against existing surfaces m² 1	488,99	488,99
8	One brick walls in gables, parapets, etc m² 1	357,00	357,00
9	One brick walls in fire wall m² 1	357,00	357,00
10	280mm Hollow walls of two half brick skins including wire ties m² 1	412,00	412,00
	Brickwork of NFP bricks in class II mortar		
11	Half brick walls m² 1	233,53	233,53
12	Half brick ledge to house plumbing fixtures m² 1	247,26	247,26
13	One brick walls m² 1	477,82	477,82
	BRICKWORK SUNDRIES		
	Cutting toothings and bonding new brickwork to existing		
14	Half brick walls m² 1	114,42	114,42
15	One brick walls m² 1	139,90	139,90
	Sundries		
	2,5mm Brickwork reinforcement		
16	75mm Wide reinforcement built in horizontally m 1	2,56	2,56
17	150mm Wide reinforcement built in horizontally m 1	2,91	2,91
	Prestressed fabricated concrete lintels including necessary temporary supports		
18	110 x 75mm Lintels in lengths not exceeding 3m long m 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 No 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		

	DESCRIPTION		RATE	TOTAL
20	Extra over brickwork for face brickwork	m ² 1	283,25	283,25
21	Extra over brickwork for face brickwork in foundation walls, ramp, etc	m ² 1	283,25	283,25
22	Extra brickwork for face brickwork in soldier course panels	m ² 1	283,25	283,25
23	Face brick-on-edge flat lintel course 220mm wide pointed on soffit and both sides	m 1	189,00	189,00
24	Face brick-on-edge flat coping 220mm wide pointed on both sides	m 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	m 1	189,00	189,00
TOTAL BILL NO. 5 - MASONRY				144 671,27

	DESCRIPTION	RATE	TOTAL
	<u>BILL NO. 6</u>		
	<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
	<u>BILL NO. 7</u>		
	<u>ROOFWORKS</u>		
	ROOF COVERINGS		
	Tiles		
	420x 332mm concrete tiles nailed with non-corrosive tile nails to timber trusses		

	DESCRIPTION		RATE	TOTAL
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 to suit roof profile	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

	DESCRIPTION	RATE	TOTAL
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 <div>m²1</div>	68,25	68,25
	TOTAL BILL NO. 7 - ROOFWORKS		2913,75

	DESCRIPTION	RATE	TOTAL
	<u>BILL NO. 8</u>		
	<u>CARPENTRY AND JOINERY</u>		
	SKIRTINGS		
	Wrought hardwood		
1	16 x 150mm hardwood timber skirting with pencil round profile. m 1	181,92	181,92
2	22 x 140mm skirtings, nailed or plugged m 1	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 1	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 1	1 104,27	1 104,27
5	Single door size 1000 x 2032mm high No 1	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 1	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 1	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 1	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 1	6 140,37	6 140,37
10	Class B single door size 970 x 2 320mm high No 1	7 772,35	7 772,35
11	Class B single door size 1 186 x 2 700mm high No 1	11 648,43	11 648,43
12	Class B double door size 2 436 x 2 700mm high No 1	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 1	2 067,09	2 067,09
14	69 x 90mm Rebated frame for single door size 1 186 x 2 700mm high No 1	2 100,64	2 100,64
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		

	DESCRIPTION	RATE	TOTAL
	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 <div>m1</div>	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. <div>m²1</div>	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 <div>m²1</div>	185,40	220,50
3	Extra over ceilings for 600 x 600mm trap door <div>No1</div>	515,00	515,00
	6mm thick fibre cement ceilings		
4	Horizontal ceilings including 38 x 38mm sawn softwood brandering at 450mm <div>m²1</div>	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 <div>m1</div>	323,54	323,54
	Cornice to nailed-up ceilings		
6	Pre-painted shadowline cornices, plugged <div>m1</div>	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 acousttic panels on prepainted exposed tee suspension system, including main and cross tees, necessary hangers, grids, etc. <div>m²1</div>	257,50	257,50
	Cornice to suspended ceilings		
8	Pre-painted shadowline cornices, plugged <div>m1</div>	78,75	78,75
	Sundries		
9	Allow for light fitting openings, cutting etc in suspended ceiling <div>No1</div>	21,00	21,00
10	Vertical bulkhead not exceeding 500mm high <div>m1</div>	262,50	262,50
	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.		

	DESCRIPTION		RATE	TOTAL
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	m ² 1	1 704,21	1 704,21
18	Glazed door size 813 x 2 700mm high, including powder coated aluminium frame	m ² 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	m ² 1	2 897,27	2 897,27
25	Glazed screen overall size 915 x 2 700mm high (GS09: dwg 8.6-10).	m ² 1	2 666,09	2 666,09
	Skirtings			
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

	DESCRIPTION		RATE	TOTAL
33	Partition 1600 x 1800mm high	<div>No1</div>	6 843,26	6 843,26
34	Wall stile	<div>No1</div>	1 404,86	1 404,86
35	Full stile	<div>No1</div>	2 144,69	2 144,69
	TOTAL BILL NO. 9 - CEILINGS AND PARTITIONS			227 219,70

	DESCRIPTION	RATE	TOTAL		
	<div>BILL NO. 10</div> <div>JOINERY FITTINGS</div> <div>JOINERY FITTINGS, ETC</div> <div>WORKTOPS</div> <div>Melamine faced board</div> <div>132mm Tops size 300mm wide x 1250mm long with bull nose along one long edge m1300,00</div> <div>232mm Tops size 600mm wide x 1250mm long with bull nose along one long edge m450,00</div> <div>Formica or similar approved</div> <div>3600 x 16mm thick counter including support structure screwed to walls m350,00</div> <div>CUPBOARDS</div> <div>Melawood or simmlar approved melamine faced particle board</div> <div>416mm cupboard doors m2150,00</div> <div>516mm Tops, shelves, sides, divisions, etc m2150,00</div> <div>616mm Adjustable shelving m2150,00</div> <div>7Drawer 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 No11 500,00</div> <div>Granite vanity worktops:</div> <div>830mm Thick 'Rustenburg Black Granite' tops 600mm wide, including 75mm high edging, each counter holed for sanitary/kitchen fittings m2 816,812 816,81</div> <div>PINNING BOARDS</div> <div>Forbo bulletin pinboards linoleum with backing fixed drywall or similar approved installed according to manufacturers instructions by approved specialist installer complete.</div> <div>9On drywall partitions m²11 467,651 467,65</div> <tr><td></td><td>TOTAL - BILL NO. 10 - JOINERY FITTINGS</td><td></td><td>4 284,46</td></tr>		TOTAL - BILL NO. 10 - JOINERY FITTINGS		4 284,46
	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. <u>m²</u> <u>1</u>		424,98	424,98
2	Circular cutting. <u>m</u> <u>1</u>		62,49	62,49
	Polyflor static dissipative 2mm thick with welded joints:			
3	On floors <u>m²</u> <u>1</u>		462,04	462,04
	Approved wall paper			
4	On walls <u>m²</u> <u>1</u>		520,36	520,36
	SKIRTINGS, NOSINGS, ETC			
	Polyflor ejecta skirtings, nosings, etc.			
5	Vinyl set-in coving with PC20 cove former <u>m</u> <u>1</u>		37,14	37,14
	Strip skirtings, nosings, etc			
6	2.5 x 97mm High natural anodised aluminium skirtings fixed to drywall partitions <u>m</u> <u>1</u>		76,22	76,22
	CORNER PROTECTORS, DIVIDING STRIPS, ETC			
	Floor protectors:			
7	35 x 3mm Flat section brass dividing strips between differing floor finishes <u>m</u> <u>1</u>		102,78	102,78
	POLISH, SEALERS, ETC			
	Polish, Sealers, etc.			
8	Two coats wax polish on vinyl flooring. <u>m²</u> <u>1</u>		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
		No 1	247,77	247,77
2.	150mm Long Satin chrome finished brass neck bolts to top			
	'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
	'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

	DESCRIPTION		RATE	TOTAL
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
47.	Receiver plate with adjustable angle	No 1	1 195,53	1 195,53
48.	Door co-ordinating system for double doors 2650mm	No 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	No 1	1 467,59	1 467,59
50.	Adjustable power EN 3-6 overhead door	No 1	2 051,07	2 051,07
51.	Regular arm (R&P EN 1-6) overhead door closer	No 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	No 1	4 539,29	4 539,29

	DESCRIPTION		RATE	TOTAL
53.	Non-hold open transom concealed door closer with fixing brackets	No 1	4 539,29	4 539,29
54.	Electro magnetic flush fitting wall mounted with receiver plate	No 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)	No 1	2 157,72	2 157,72
	'UNION' or equal and approved door closers plus magnets:			
56.	Adjustable power EN 3-6 overhead door	No 1	2 051,07	2 051,07
57.	Regular arm overhead door closer	No 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	No 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.	No 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.	No 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	No 1	31 412,28	31 412,28
	LETTERS, NAMEPLATES, ETC.			
	Signage:			
62.	250 x 60mm High aluminium plate with sliders	No 1	234,77	234,77
63.	150 x 150mm High aluminium single sided plate	No 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.	No 1	181,32	181,32
	'UNION' or equally approved			
65.	152 x 178 x 3mm Thick anodised aluminium plate engraved male symbol	No 1	260,63	260,63
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

	DESCRIPTION		RATE	TOTAL
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
	'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

	DESCRIPTION	RATE	TOTAL
	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 <u>No</u> 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 <u>No</u> 1	348,79	348,79
108.	450 x 150mm Sign with three pictograms <u>No</u> 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 <u>No</u> 1	519,69	519,69
110.	Window size 800 x 1500mm high overall <u>No</u> 1	617,97	617,97
111.	Window size 900 x 1500mm high overall <u>No</u> 1	661,30	661,30
112.	Window size 1000 x 1500mm high overall <u>No</u> 1	711,36	711,36
113.	Window size 1200 x 1500mm high overall <u>No</u> 1	802,55	802,55
114.	Window size 1500 x 1500mm high overall <u>No</u> 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. <u>m</u> 1	1 186,05	1 186,05
116.	Sunscreen fabric blinds size 840 x 2100mm high <u>No</u> 1	878,25	878,25
117.	Blockout blinds size 840 x 2100mm high <u>No</u> 1	878,25	878,25
	'ALPLAS' or equal and approved venetian blinds including mechanisms for full functionality, recess fixed into window with retaining brackets		
118.	Venetian blind for glazed screen size 4 650 x 2 700mm high <u>No</u> 1	4 267,48	4 267,48
119.	Venetian blind for glazed screen size 2 450 x 2 700mm high <u>No</u> 1	2 408,84	2 408,84
120.	Venetian blind for glazed screen size 2 270 x 2 700mm high <u>No</u> 1	2 385,74	2 385,74
121.	Venetian blind for glazed screen size 1 890 x 2 700mm high <u>No</u> 1	1 736,34	1 736,34
122.	Venetian blind for glazed screen size 1 870 x 2 700mm high <u>No</u> 1	1 727,25	1 727,25
123.	Venetian blind for glazed screen size 1 830 x 2 700mm high <u>No</u> 1	1 712,19	1 712,19
124.	Venetian blind for glazed screen size 1 610 x 2 700mm high <u>No</u> 1	1 553,75	1 553,75
125.	Venetian blind for glazed screen size 1 090 x 2 700mm high <u>No</u> 1	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> 1	42 963,44	42 963,44
	Support girders structure in single lengths with flat section base, top, bearer and connection plates bolted to concrete:		

	DESCRIPTION		RATE	TOTAL
2.	80 x 80 x 8mm Mild steel angle support girders	<u>Tonnes</u> 1	41 817,24	41 817,24
	Bolts to angles, girts, etc:			
3.	M16 Bolts.	<u>No</u> 1	29,43	29,43
4.	M16 Chemical anchor bolts.	<u>No</u> 1	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 No 1	4 174,62	4 174,62
2.	Two seater No 1	7 439,25	7 439,25
3.	Three seater No 1	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 m 1	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 m 1	1 718,97	1 718,97
6.	Extra over balustrading for 90 degree bend No 1	197,05	197,05
7.	Extra over balustrading for end closure No 1	104,96	104,96
	SUNDRY STAINLESS STEELWORK		
	Brushed stainless steel:		
8.	200mm High splashback, plugged to wall. m 1	379,56	379,56
	WELDED SCREENS, GATES, ETC		
	Gates		
9.	Single gate 860 x 2180mm high No 1	6 825,00	6 825,00
10.	Double gate 1650 x 2180mm high No 1	13 230,00	13 230,00
	Window burglar bar screens		
11.	Ditto size 900 x 900mm high overall No 1	1 312,50	1 312,50
12.	Ditto size 1200 x 900mm high overall No 1	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 ironmongery overall size 1000 x 2090mm high No 1	2 940,00	2 940,00
14.	Trellidor or similar approved expandable security gate with and including all ironmongery overall size 1500 x 2090mm high No 1	4 462,50	4 462,50
15.	Trellidor or similar approved expandable security gate with and including all ironmongery overall size 3800 x 2090mm high No 1	11 172,00	11 172,00
	1,6mm Rebated frames suitable for half brick walls		
16.	Frame for door 813 x 2 032mm high No 1	1 574,21	1 574,21
	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:		

	DESCRIPTION		RATE	TOTAL
17.	Sliding folding door size 5 540 x 2 600mm high STEEL ROLLER SHUTTERS ETC Galvanised steel roller shutters with 76mm slats (18kg/m²), fixed to brickwork or concrete	<u>No</u> 1	54 921,36	54 921,36
18.	Manually operated slatted roller shutter for 1500 x 900mm high opening, including electrical connection and commissioning (electrical isolator elsewhere) <u>No</u> 1		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> 1 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.:		14 902,67	14 902,67
20.	Frameless glass door, comprised of two equal leafs size 2 600 x 2 600mm high STEEL DOORS, ETC Trox low leakage steel doors or equal and approved etc suitable for 230mm walls fixed to brickwork:	<u>No</u> 1	51 880,05	51 880,05
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> 1		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
17.	10mm corner protectors. m 1	111,96	111,96
	TOTAL - BILL NO. 16 - TILING		7 408,72
	BILL NO. 17		

	DESCRIPTION		RATE	TOTAL
	<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 galleys 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
	'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 1		1 239,79	1 239,79
19.	Vitreous china 450 x 350mm "Midi Weaver" rectangular surface mounted basin with one taphole (Code 706601) No 1		1 751,59	1 751,59
20.	'Concorde 580' white ceramic clazy size 610 x 460mm rectangular basin with taphole wall mounted No 1		2 174,21	2 174,21
	Vitreous China Sanitaryware - "Vaal" or equally approved			

	DESCRIPTION		RATE	TOTAL
21.	White vitreous china pan with S trap.	No 1	650,00	650,00
22.	White vitreous china pan with P trap.	No 1	650,00	650,00
23.	White vitreous china pan with side outlet.	No 1	850,00	850,00
24.	Gypsy vandal resistant WC toilet pan.	No 1	2 500,00	2 500,00
25.	Vitreous china wall hung urinal.size: 420mm x 320mm x 280mm	No 1	2 900,00	2 900,00
26.	Vitreous china wall hung urinal.size: 600mm x 390mm x 390mm	No 1	3 300,00	3 300,00
27.	Gypsy vandal resistant urinal.	No 1	2 500,00	2 500,00
28.	Vitreous china wash hand basin. Size 550mm x 400 mm	No 1	1 200,00	1 200,00
29.	Vitreous china wash hand basin. Size 450mm x 200 mm cloak room basin	No 1	1 000,00	1 000,00
30.	Universal basin pedestal	No 1	500,00	500,00
31.	Gypsy vandal resistant wash hand basin.	No 1	2 500,00	2 500,00
32.	1830 x 680mm White plexicor Heavy Duty bath with handles.	No 1	2 500,00	2 500,00
33.	Pressed metal bath.	No 1	3 000,00	3 000,00
34.	White fire clay drip sink size 540 x 4680 X 180mm, including chromium plated grid.	No 1	2 500,00	2 500,00
35.	9 Litre plastic low level flushing cistern.	No 1	450,00	450,00
36.	9 Litre shires low level flushing cistern.	No 1	650,00	650,00
37.	9 Litre vitreous china low level flushing cistern.	No 1	650,00	650,00
38.	9 Litre stainless (18/8) steel high level flushing cistern.	No 1	2 500,00	2 500,00
39.	9 Litre shires high level flushing cistern.	No 1	650,00	650,00
40.	9 Litre vitreous china high level flushing cistern.	No 1	650,00	650,00
41.	9 Litre stainless steel high level flushing cistern.	No 1	2 500,00	2 500,00
42.	450 x 300mm (approximately) Cloakroom basin	No 1	480,00	480,00
43.	Universal basin pedestal	No 1	366,00	366,00
44.	550 x 400mm (approximately) wash hand basin	No 1	650,00	650,00
45.	600 x 400mm (approximately) Oval / Round vanity basin	No 1	1 200,00	1 200,00
46.	Low level wc open rim washdown pan	No 1	1 950,00	1 950,00
47.	Semi-close coupled wc open rim washdown pan	No 1	1 950,00	1 950,00
48.	Close coupled wc open rim washdown pan	No 1	1 950,00	1 950,00
49.	Wall hung wc open rim pan (flushing valve elsewhere)	No 1	1 150,00	1 150,00
50.	9 litre cistern complete with lid and fitments (flush pipe elsewhere)	No 1	600,00	600,00
51.	9 litre cistern complete with lid, top dual push button and fitments (flush pipe elsewhere)	No 1	600,00	
52.	9 litre cistern complete with lid, dual flush handle and fitments (flush pipe elsewhere)	No 1	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)	No 1	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)	No 1	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	No 1	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	No 1	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	No 1	3 000,00	3 000,00

	DESCRIPTION		RATE	TOTAL
	all round			
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	No 1	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	No 1	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	No 1	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	No 1	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.	No 1	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	No 1	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)	No 1	6 212,84	6 212,84
65.	'Pearl Paraplegic' vitreous china semi-close coupled suite (code 7300SC) complete to manufacturer's specifications.	No 1	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)	No 1	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)	No 1	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	No 1	564,19	564,19
	'Vaal' sanitaryware or equal and approved vitreous china urinals:			
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:			

	DESCRIPTION		RATE	TOTAL
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
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

	DESCRIPTION		RATE	TOTAL
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
122.	15mm stopcock.	No 1	250,00	250,00
123.	20mm stopcock.	No 1	300,00	300,00
124.	15mm ballcock.	No 1	350,00	350,00
125.	20mm ballcock.	No 1	400,00	400,00
126.	15mm pillar cock.	No 1	700,00	700,00
127.	20mm pillar cock.	No 1	700,00	700,00
128.	15mm bib cock.	No 1	700,00	700,00
129.	20mm bib cock.	No 1	700,00	700,00
130.	15mm Raised nose pillartap - 3314SB including flexi pipe	No 1	400,00	400,00
131.	20mm Raised nose pillartap - 3314ST including flexi pipe	No 1	400,00	400,00
132.	15mm Bibtap star - 108-15	No 1	260,00	260,00
133.	20mm Bibtap star - 108-20	No 1	400,00	400,00
134.	Basin mixer pillartap with aerator - 3392SB including flexi pipe	No 1	1 500,00	1 500,00
135.	Sink mixer pillartap with aerator - 3396SB, including flexi pipe	No 1	1 200,00	1 200,00
136.	Sink mixer Bibtap with aerator - 3366/041/10SB	No 1	1 100,00	1 100,00
137.	15mm undertile stoptap star - 128-15	No 1	410,00	410,00
138.	20mm undertile stoptap star - 128-15	No 1	700,00	700,00
139.	21mm Medical bibtap - 500-21B (Elbow action)	No 1	1 550,00	1 550,00
140.	21mm Medical pillartap - 503-21B (Elbow action) with flexi pipe	No 1	450,00	450,00
141.	21mm Medical wall bib mixer - 511-21 (Elbow action) with flexi pipe	No 1	6 800,00	6 800,00
142.	21mm Medical pillar mixer - 515-21 (Elbow action) with flexi pipe	No 1	9 700,00	9 700,00
143.	21mm Medical wall mounted bib mixer - 515/055-21 (Elbow action) with flexi pipe	No 1	9 700,00	9 700,00
144.	EL3003 Electronic thermostatic controlled touch-free wash hand basin mixer for wall / twin-hole basin fixing.	No 1	7 800,00	7 800,00

	DESCRIPTION		RATE	TOTAL
145.	EL3010 Single hole electronic controlled touch-free wash hand basin faucet including blender.	No 1	7 000,00	7 000,00
146.	KD2.204 "Mastertherm II" Thermostatic Temperature Controller.	No 1	9 700,00	9 700,00
147.	15mm "Code KM2.100" metering pillartap	No 1	2 200,00	2 200,00
148.	15mm Extension piece 75mm long	No 1	80,00	80,00
149.	20mm Extension piece 75mm long	No 1	80,00	80,00
150.	15mm Extension piece with sliding wall flange	No 1	80,00	80,00
151.	20mm Extension piece with sliding wall flange	No 1	600	600,00
152.	15mm angle regulating valve	No 1	90,00	90,00
153.	15mm angle regulating valve with 350mm long tube and capnut	No 1	600,00	600,00
154.	Shower head "Code KP2.6"	No 1	900,00	900,00
155.	15mm Overhead shower arm 300mm x 90 degree projection with wall flange and 85mm Ø shower CP rose	No 1	450,00	450,00
156.	15mm Ball joint angle shower connector with fascia wall plate and 85mm Ø shower (No 1	200	200,00
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

	DESCRIPTION		RATE	TOTAL
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
187.	20mm Hose bibtap	No 1	250,00	250,00
188.	20mm Hose bibtap with lockshield and loose key	No 1	400,00	400,00
189.	20mm stoptap	No 1	250,00	250,00
190.	15mm stoptap with lockshield and loose key	No 1	300,00	300,00
191.	20mm Fullway gate valve	No 1	320,00	320,00
192.	25mm Fullway gate valve	No 1	350,00	350,00
193.	32mm Fullway gate valve	No 1	500,00	500,00
194.	40mm Fullway gate valve	No 1	650,00	650,00
195.	50mm Fullway gate valve	No 1	750,00	750,00
196.	65mm Fullway gate valve	No 1	800,00	800,00
197.	80mm Fullway gate valve	No 1	2 000,00	2 000,00
198.	100mm Fullway gate valve	No 1	3 000,00	3 000,00
199.	15mm Shut off valve.	No 1	100,00	100,00
200.	20mm Shut off valve.	No 1	100,00	100,00
201.	25mm Shut off valve.	No 1	100,00	100,00
202.	50mm Shut off valve.	No 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)	No 1	684,84	684,84
	Valsir or equal or approved:			
204.	Push flush plate, polished chrome finish (code VS0871335)	No 1	1 096,65	1 096,65
	SANITARY PLUMBING			
	uPVC soil and vent pipes			
205.	40mm Pipes chased into brickwork.	m 1	82,99	82,99
206.	50mm Pipes chased into brickwork.	m 1	91,80	91,80
207.	56mm Diameter pipes	m 1	102,21	102,21
208.	63mm Diameter pipes	m 1	137,44	137,44
209.	75mm Diameter pipes	m 1	141,34	141,34
210.	110mm Pipes (Provisional).	m 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)	No 1	2 532,54	2 532,54

	DESCRIPTION		RATE	TOTAL
	Extra over uPVC soil and vent pipes for fittings			
212.	40mm Bend (Provisional).	No 1	31,61	31,61
213.	50mm Bend (Provisional).	No 1	34,26	34,26
214.	56mm Bends	No 1	93,23	93,23
215.	63mm Bends	No 1	100,75	100,75
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

	DESCRIPTION		RATE	TOTAL
244.	Allowance for connecting new water supply to existing.	No 1	1 195,96	1 195,96
	'Geberit Mepla' or other approved pipes			
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
271.	20mm MI or 22mm CxC Brass vacuum breaker	No 1	400,00	400,00
272.	22mm CxC Brass Hi-Flow Mono 100 or 200kPa pressure control valve with integral			

	DESCRIPTION		RATE	TOTAL
	expansion relief valve.	No 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.	No 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.	No 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.	No 1	1 800,00	1 800,00
276.	Masterflo pressure reducing valve.	No 1	1 800,00	1 800,00
277.	Feenix pressure reducing valve.	No 1	1 800,00	1 800,00
278.	Latco pressure reducing valve.	No 1	1 800,00	1 800,00
	TESTING			
	Testing system			
279.	Testing water pipe system	Item 1	2 809,11	2 809,11
	ELECTRIC WATER HEATERS			
	'Lazer' or equal and approved:			
280.	5L E-Boil hydroboil, complete.	No 1	8 761,33	8 761,33
281.	7.5L E-Boil hydroboil including pressure relief valves, etc. complete.	No 1	9 398,06	9 398,06
282.	10 L Prisma under counter hot water cylinder including pressure relief valves, etc. complete.	No 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	No 1	438,80	438,80
	FIRE APPLIANCES ETC			
	Servicing of existing fire equipment			
284.	Fire hydrant complete according to mechanical engineer specifications	No 1	3 696,55	3 696,55
285.	Fire hose reel with hose, stopcock, shut-off nozzle and wall bracket, etc	No 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.	No 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.	No 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	No 1	1 400,00	1 400,00
	Testing			
289.	Testing fire water pipe system	No 1	2 021,03	2 021,03
	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			

	DESCRIPTION	RATE	TOTAL
	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 1	240,00	240,00
298.	160mm Ø pipe m 1	260,00	260,00
	Laid in excavations exceeding 1m and not exceeding 2m deep		
299.	110mm Ø pipe m 1	260,00	260,00
300.	160mm Ø pipe m 1	280,00	280,00
	uPVC fittings		
301.	110mm Access lid no 1	195,00	195,00
302.	110mm Gulley grate no 1	195,00	195,00
303.	110mm Plain bend no 1	195,00	195,00
304.	110mm Access bend no 1	195,00	195,00
305.	110mm Plain junction no 1	195,00	195,00
306.	110mm Access junction no 1	195,00	195,00
307.	110mm Rodding eye no 1	195,00	195,00
308.	110mm Gulley head and grate no 1	195,00	195,00
309.	110mm Gulley 'P' trap no 1	195,00	195,00
310.	160mm Access lid no 1	195,00	195,00
311.	160mm Plain bend no 1	195,00	195,00
312.	160mm Access bend no 1	195,00	195,00
313.	160mm Plain junction no 1	195,00	195,00

	DESCRIPTION		RATE	TOTAL
314.	160mm Access junction and cover	no 1	195,00	195,00
315.	160mm Rodding eye	no 1	195,00	195,00
316.	160 x 110mm Taper pipe	no 1	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	no 1	1 200,00	1 200,00
318.	300 x 300mm x 10,3kg square dished grating,cover and frame	no 1	1 200,00	1 200,00
319.	300 x 450mm x 53,2kg stormwater grating cover and frame	no 1	1 700,00	1 700,00
320.	450 x 450mm x 28,5kg Type 14B cast iron single seal manhole cover and frame.	no 1	4 000,00	4 000,00
321.	450 x 600mm x 68kg Type 9D cast iron single seal manhole cover and frame.	no 1	4 000,00	4 000,00
322.	530 x 530mm x 67kg Type 12 cast iron single seal manhole cover and frame.	no 1	4 000,00	4 000,00
323.	450 x 600mm x 72kg Type 8A cast iron double seal manhole cover and frame.	no 1	4 000,00	4 000,00
324.	550mm Diameter type 4 circular road manhole cover excluding frame.	no 1	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.	no 1	5 300,00	5 300,00
327.	Inspection chamber 900 x 600mm and exceeding 750mm and not exceeding 1000mm deep internally.	no 1	7 000,00	7 000,00
328.	Inspection chamber 900 x 600mm and exceeding 1000mm and not exceeding 1250mm deep internally.	no 1	9 000,00	9 000,00
329.	Inspection chamber 900 x 900mm and exceeding 1250mm and not exceeding 1500mm deep internally.	no 1	10 500,00	10 500,00
WATER TANKS - To roofs				
Supply and install water tanks to roof complete with connectors, pipes, 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	no 1	7 000,00	7 000,00
331.	5 000 Lt Jojo or equivalent Vertical Water Tank	no 1	11 000,00	11 000,00
332.	10 000 Lt Jojo or equivalent Vertical Water Tank	no 1	25 000,00	25 000,00
333.	15 000 Lt Jojo or equivalent Vertical Water Tank	no 1	38 000,00	38 000,00
334.	20 000 Lt Jojo or equivalent Vertical Water Tank	no 1	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
	<u>BILL NO. 19</u>		
	<u>PAINTWORK</u>		
	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		
	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		

	DESCRIPTION	RATE	TOTAL
14.	On window cill m² 1 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:	69,36	69,36
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 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:	24,39	24,39
20.	On ceilings and beams. m² 1 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:	63,65	63,65
21.	On existing screeded floors. m² 1	126,03	126,03
TOTAL - BILL NO. 19 - PAINTWORK			1 081,58
<p style="text-align: center;"><u>BILL NO. 20</u></p> <p style="text-align: center;"><u>EXTERNAL WORKS</u></p> <p>SUPPLEMENTARY PREAMBLES</p> <p>Carting away of excavated material</p> <p>Description of carting away of excavated material shall deemed to include loading of excavated material onto trucks directly from the excavtions, or alternatively, from stock piles situated on the building site.</p> <p>Concrete pipes</p> <p>Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings</p> <p>uPVC pipes and fittings</p> <p>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</p> <p>uPVC pressure pipes and fittings</p> <p>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</p> <p>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</p> <p>Exposed concrete surfaces</p> <p>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</p> <p>Excavations</p> <p>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"</p> <p>Laying, backfilling, bedding, etc. of pipes</p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions</p>			

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	DESCRIPTION		RATE	TOTAL
	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 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			

	DESCRIPTION		RATE	TOTAL
	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 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

	DESCRIPTION		RATE	TOTAL
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 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 x 3mm 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 x 3mm 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

	DESCRIPTION		RATE	TOTAL
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
54.	400 x 400mm precast concrete dustbin not exceeding 1500mm high	m 1	R1 995,00	R 1 995,00
	CONCRETE CHANNEL			
	25Mpa/19mm			
55.	600X150mm thick concrete stormwater channel including all necessary excavations, casting and laying in panels, formwork, soft board and finishing smooth	m ² 1	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

	DESCRIPTION		RATE	TOTAL
	<p style="text-align: center;"><u>BILL NO. 2</u></p> <p style="text-align: center;"><u>MAIN LV ROOM</u></p> <p>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</p>			
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

	DESCRIPTION	RATE	TOTAL
	Carried to Summary		R 82 673,28

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

	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
27.	Core drill (110mm diam) <i>alternative</i>	<u>no</u> 10	R 2 500,00	R 25 000,00
28.	Provide cable slot in floor slab (400x100)	<u>sum</u> 1	R 20 000,00	R 20 000,00
29.	Fire seal penetrations per clause 3.5 above	<u>sum</u> 1	R 4 862,00	R 4 862,00
30.	Contractors handling charges on Provisional sum	<u> </u> %	15,0%	Rate only
31.	Builder Electrical Supply			
32.	Make provision for connecting of Builder Supply Distribution board. (Distribution boards and cable supplied by Main Contractor)	<u>sum</u> 1	R 4 378,48	R 4 378,48
33.	Maintaining supply for duration of Contract	<u>sum</u> 1	R 3 137,33	R 3 137,33
Carried to Summary				388 762,18

	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
	<p style="text-align: center;"><u>BILL NO. 5</u></p> <p style="text-align: center;"><u>LIGHTING</u></p> <p>For the supply, installation and connecting inclusive of all supervision, labour, materials & waste, fixing materials, hoisting equipment, traveling costs and storage of:-</p> <p>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 PVC/PVC flexible cable and 5A 3-pin plug top</p>		
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 <div style="text-align: right;">no 49</div>	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 <div style="text-align: right;">no 2</div>	R 3 480,99	R 6 961,98
3.	Type F2 - 2x28w 1200x600 recessed mellowlight fluorescent <div style="text-align: right;">no 44</div>	R 1 730,65	R 76 148,71
4.	Type F2 (D) - 2x28w 1200x600 recessed mellowlight fluorescent with dali dimmable switchgear <div style="text-align: right;">no 22</div>	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 <div style="text-align: right;">no 4</div>	R 2 469,77	R 9 879,08
6.	Type F3 - 2x28w 1200x600 surface mounted mellowlight fluorescent <div style="text-align: right;">no</div>	R 2 672,94	Rate only
7.	Type F3(D) - 2x28w 1200x600 surface mounted mellowlight fluorescent with microlinear diffuser and Dali dimmable ballasts <div style="text-align: right;">no</div>	R 2 182,93	Rate only
8.	Type F3(E) - 2x28w 1200x600 surface mounted mellowlight fluorescent with microlinear diffuser complete with emergency battery pack suitable for 50% light for 1 tube 1hr <div style="text-align: right;">no</div>	R 2 332,75	Rate only
9.	Type F4 - 2x24w 600x600 recessed mellowlight fluorescent with microlinear diffuser <div style="text-align: right;">no 70</div>	R 925,79	R 64 805,30
10.	Type F4(D) - 2x24w 600x600 recessed mellowlight fluorescent with microlinear diffuser and Dali dimmable ballasts <div style="text-align: right;">no 209</div>	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	<u>Draw wire pulled into empty conduits</u>	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 m ³ 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	35	R 351,43	R 12 300,05
62	185 mm ² 4 core Al cored	m	35	R 282,53	R 9 888,55
63	150 mm ² 4 core Al cored	m	35	R 245,33	R 8 586,55
64	120 mm ² 4 core Al cored	m	35	R 199,50	R 6 982,50
65	95 mm ² 4 core Al cored	m	35	R 161,64	R 5 657,40
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	35	R 98,91	R 3 461,85
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 633 635,44

	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 ammend	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 mm ² 3 core Cu cored	m	R 2 550,00	Rate only
24	150 mm ² 3 core Cu cored	m	R 2 250,00	Rate only
25	120 mm ² 3 core Cu cored	m 50	R 1 800,00	R 90 000,00
26	95 mm ² 3 core Cu cored	m 50	R 1 650,00	R 82 500,00
27	70 mm ² 3 core Cu cored	m 50	R 1 300,00	R 65 000,00
28	50 mm ² 3 core Cu cored	m 50	R 950,00	R 47 500,00
29	35 mm ² 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 mm ² 3 core Al cored	m	R 2 550,00	Rate only
37	150 mm ² 3 core Al cored	m	R 2 250,00	Rate only
38	120 mm ² 3 core Al cored	m	R 1 800,00	Rate only
39	95 mm ² 3 core Al cored	m	R 1 650,00	Rate only
40	70 mm ² 3 core Al cored	m	R 1 300,00	Rate only
41	50 mm ² 3 core Al cored	m	R 950,00	Rate only
42	35 mm ² 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 mm ² 3 core Cu cored	m	R 2 550,00	Rate only
50	150 mm ² 3 core Cu cored	m	R 2 250,00	Rate only
51	120 mm ² 3 core Cu cored	m 100	R 1 800,00	R 180 000,00
52	95 mm ² 3 core Cu cored	m 100	R 1 650,00	R 165 000,00
53	70 mm ² 3 core Cu cored	m 100	R 1 300,00	R 130 000,00
54	50 mm ² 3 core Cu cored	m 100	R 950,00	R 95 000,00
55	35 mm ² 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 mm ² 4 core Al cored	m 100	R 1 980,00	R 198 000,00
63	150 mm ² 4 core Al cored	m 100	R 1 790,00	R 179 000,00
64	120 mm ² 4 core Al cored	m 100	R 1 680,00	R 168 000,00
65	95 mm ² 4 core Al cored	m 100	R 1 359,00	R 135 900,00
66	70 mm ² 4 core Al cored	m 100	R 1 110,00	R 111 000,00
67	50 mm ² 4 core Al cored	m 100	R 950,00	R 95 000,00
68	35 mm ² 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)	sum 1		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)	sum 1		R 450 000,00
	Profit and attendance on Item above	%	10%	R 45 000,00
	Carried to Summary			R 3 890 578,39
	<u>BILL NO.12</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:-			
	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 ammend	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			

	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	R 184,75 R 18 475,00
13	SABS approved PVC Cable Warning Tape installed above cable in	m	100	R 7,18 R 718,00
14	Sand bedding			
	Import suitable material and install sand bedding to a depth of 75mm plus	m	100	R 266,56 R 26 656,00
	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	R 176,31 R 17 631,00
	specification. Per linear meter			
	Extra over for excavation in Class B material			
16	Excavate	m³	100	R 252,59 R 25 259,00
	Extra over for excavation in Class A material			
17	Excavate	m³	100	R 208,79 R 20 879,00
	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 2 850,00 Rate only
24	150 mm² 3 core Cu cored	m		R 2 650,00 Rate only
25	120 mm² 3 core Cu cored	m	50	R 2 350,00 R 117 500,00
26	95 mm² 3 core Cu cored	m	50	R 1 850,00 R 92 500,00
27	70 mm² 3 core Cu cored	m	50	R 1 650,00 R 82 500,00
28	50 mm² 3 core Cu cored	m	50	R 1 500,00 R 75 000,00
29	35 mm² 3 core Cu cored	m	50	R 1 350,00 R 67 500,00
	Supply and install on cable tray medium voltage XLPE aluminium cable			
36	185 mm² 3 core Al cored	m		R 1 850,00 Rate only
37	150 mm² 3 core Al cored	m		R 1 600,00 Rate only
38	120 mm² 3 core Al cored	m		R 1 450,00 Rate only
39	95 mm² 3 core Al cored	m		R 1 230,00 Rate only
40	70 mm² 3 core Al cored	m		R 1 100,00 Rate only
41	50 mm² 3 core Al cored	m		R 980,00 Rate only
42	35 mm² 3 core Al cored	m		R 850,00 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 2 850,00 Rate only
50	150 mm² 3 core Cu cored	m		R 2 650,00 Rate only
51	120 mm² 3 core Cu cored	m	100	R 2 350,00 R 235 000,00
52	95 mm² 3 core Cu cored	m	100	R 1 850,00 R 185 000,00
53	70 mm² 3 core Cu cored	m	100	R 1 650,00 R 165 000,00
54	50 mm² 3 core Cu cored	m	100	R 1 500,00 R 150 000,00
55	35 mm² 3 core Cu cored	m	100	R 1 350,00 R 135 000,00
	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 1 850,00 R 185 000,00
63	150 mm² 4 core Al cored	m	100	R 1 600,00 R 160 000,00
64	120 mm² 4 core Al cored	m	100	R 1 450,00 R 145 000,00
65	95 mm² 4 core Al cored	m	100	R 1 230,00 R 123 000,00

	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
	<u>SECTION NO. 3</u>		
	<u>ELECTRICAL WORK</u>		
	<u>SECTION SUMMARY</u>		
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	633 635,44
10	DAY WORKS	R	264 000,00
11	MV RETICUTLATION	R	3 890 578,39
	TOTAL : SECTION 4 : AIR CONDITIONING AND VENTILATION INSTALLATION	R	12 834 072,06

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. <div>sum 1</div>		2 425,00	R 2 425,00
2	Loading and off loading of material and equipment <div>sum 1</div>		2 000,00	R 2 000,00
3	Setting out of Works. <div>sum 1</div>		1 000,00	R 1 000,00
4	Cleaning of site upon completion of Contract. <div>sum 1</div>		925,00	R 925,00
5	Critical Path/Schedule. <div>sum 1</div>		750,00	R 750,00
6	Issuing Cadded Workshop drawings <div>sum 1</div>		2 216,25	R 2 216,25
7	Issuing 4 sets of "As-built" drawings and operational manuals including CD <div>sum 1</div>		5 156,25	R 5 156,25
8	Test and commissioning of complete Works. <div>sum 1</div>		4 054,73	R 4 054,73
9	Inspection and handing over. <div>sum 1</div>		666,25	R 666,25
10	QC/QA <div>sum 1</div>		675,00	R 675,00
11	Other items not specifically mentioned <div>sum 1</div>		250,00	R 250,00
12	Allow for complying with the conditions & requirements of tendering & contract conditions <div>sum 1</div>		48 375,00	R 48 375,00
13	Miscellaneous items not in BOQ for a complete and working installation to be listed below: <div>sum 1</div>		6 250,00	R 6 250,00
14	12 month maintenance <div>sum 1</div>		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. <div>sum 1</div>		20 950,00	R 20 950,00
	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 <div>m 100</div>		1 507,44	R 150 744,00

	DESCRIPTION		RATE	TOTAL
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
	Carried to Summary	R		R 593 479,55
	BILL NO.3 AIR HANDLING UNITS			
	AHU-01 - NW Zone			
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

	DESCRIPTION		RATE		TOTAL
	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
	Attenuators				
11	Supply and installation of Donkin splitter type attenuators, or equal, as specified: W x H x L 800x450x1200	no 1	5 965,87	R	5 965,87
					R 419 249,77

	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
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	R 95 273,84
	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 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
	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
	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
	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
	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
	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
	<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
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
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 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
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
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
	<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
					R	-
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
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
145	Supply and installation of "TROX" or equal OPPOSED BACKDRAFT DAMPERS complete, as per the drawings and specifications Ø150 no1	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 sum1	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. sum1	997,42 R	997,42
148	Installation of new intelligent wall-mounted control module controlling the sum1	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. sum1	1 254,20 R	1 254,20
150	Supply and installation of all sensors, thermometers, pressure gauges etc. as per drawings and specification. sum1	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. sum1	3 575,83 R	3 575,83
152	Commisioning of the system sum1	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. sum1	625,00 R	625,00
	Carried to Summary R		R 655 197,42

	DESCRIPTION			RATE		TOTAL
	BILL NO.5					
	<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/hideaway 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/hideaway 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
	<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
	<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/hideaway 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
	Carried to Summary R		R 1 524 281,61
	BILL NO.6 VRV SYSTEM EQUIPMENT		
	Airconditioning system for ground floor		

	DESCRIPTION			RATE		TOTAL	
	<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	
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	R 738 079,86

	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	R 157 511,01

	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	Attenuators 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	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
32	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	1 110,85	R	1 110,85
33	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
34	Weather louvers Supply and installation of Air Movement Equipment or equal weather louvers					
	300x300	no	1	668,87	R	668,87
					R	72 977,87

	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				
	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	R	89 751,19
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	Commissioning of the ground floor floor air conditioning system	sum	1	2 304,00	R	2 304,00	R	256 033,43

	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	R 732 618,90

	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	Attenuators 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	R 93 967,62
	0.8mm	m ²					
	1.0mm	m ²					
	1.2mm	m ²					

	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	Attenuators 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	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 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	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	
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	R 91 301,59

	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	<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	
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	R 118 860,53
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	R 126 489,29
	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	
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	49 840,09
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	

	DESCRIPTION			RATE		TOTAL
129	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
130	Installation of new digital wall thermostat controlling the unit.	ea	30	662,10	R	19 863,00
131	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	10 838,04	R	10 838,04
132	Bluechem treatment to the ground floor outdoor units	sum	1	13 486,57	R	13 486,57
133	Integration of the ground floor system into the central iTouch controller	sum	1	14 003,46	R	14 003,46
134	Commissioning of the ground floor floor air conditioning system	sum	1	2 790,00	R	2 790,00
Carried to Summary R						R 2 707 559,60

	DESCRIPTION			RATE		TOTAL
	<p style="text-align: center;"><u>BILL NO.7</u> <u>VENTILATION SYSTEMS</u></p> <p><u>Extract systems</u></p> <p><u>EAF-1: Female lobby WC</u></p>					
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	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
	<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	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>					
	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
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
36	Motorised volume control dampers Supply and installation of "TROX" or equal MOTORISED VOLUME CONTROL DAMPERS complete, as per the drawings and specifications 1400x450no1	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. 1400x450no1	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 specificationssum1	10 913,35 R	10 913,35
39	Commisioning of the systemsum1	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.sum1	625,00 R	625,00
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
	<div>SECTION NO. 3</div> <div>AIR CONDITIONING AND VENTILATION SYSTEM</div> <div>SECTION SUMMARY</div>		
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

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	DESCRIPTION		RATE	TOTAL
	BILL NO.2 ANALOGUE ADDRESSABLE FIRE DETECTION SYSTEM			
	Supply & Install the following equipment including all connectors, terminal screws:			
	Head end equipment:			
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		
	Field equipment:			
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
	Head end equipment:			
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
	Fire phone system:			
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

Section No.4
Bill No.1
General Cost

	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
	Carried to Summary	R		R 122 384,01

	DESCRIPTION	RATE	TOTAL
	<div>SECTION NO. 4</div> <div>FIRE DETECTION SYSTEM AND PA EVACUATION SYSTEM</div> <div>SECTION SUMMARY</div>	<div>Rate</div> <div>Page No</div>	<div>Amount</div>
1	GENERAL COST		R29 408,61
2	ANALOGUE ADDRESSABLE FIRE DETECTION SYSTEM		R306 193,22
3	PUBLIC ADDRESS AND EVACUATION SYSTEM		R122 384,01
TOTAL : SECTION 5 : FIRE DETECTION SYSTEM AND PA EVACUATION SYSTEM		R	R457 985,85

PRICE LIST

PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES	Price
	<u>DCP/STP EXTINGUISHERS</u>			
1	1,5 kg	Each	1	185,00
2	2,5 kg	Each	1	225,00
3	4,5 kg	Each	1	450,00
4	9,0 kg	Each	1	592,70
	<u>CO² EXTINGUISHERS</u>			
5	2 kg	Each	1	500,00
6	5 kg	Each	1	1 035.00
7	6,8 kg	Each	1	discontinuu
8	Backing board painted red with bracket	Each	1	60,00
9	Super sound alarm complete	Each	1	670,00
10	Lead seal x wire for hose reels	Each	1	4,00
11	Lead seal x wire for fire hydrants	Each	1	4,00
12	Lead seal x wire for CO ² extinguishers	Each	1	4,00
13	Lead seal x wire for DCP extinguishers	Each	1	4,00
14	Safety pin for CO ² extinguisher	Each	1	5,00
15	Safety pin for DCP extinguisher	Each	1	5,00
16	Complete head assembly for CO ² extinguishers	Each	1	155,00
17	Complete Head assembly for DCP extinguishers	Each	1	90,00
18	Pressure gauge for DCP extinguishers	Each	1	35,00
19	Syphon tube for DCP extinguishers (all sizes)	Each	1	15,00
20	Hose and nozzle assembly for DCP extinguishers	Each	1	45,00

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PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES	
21	Nitrogen Powders Propellant for DCP extinguishers	Kg	1	25,00
22	Discharge hose for CO ² extinguishers	Each	1	70,00
23	Discharge horn assembly for CO ² extinguishers	Each	1	80,00
24	Hydrant hand wheel and nut	Each	1	225,00
25	Hydrant key	Each	1	300,00
26	Right angle hydrant valve	Each	1	960,00
27	Hydrant lip washer	Each	1	15,00
28	Hydrant clack washer	Each	1	20,00
29	Approved fire registers for extinguishers	Each	1	500,00

30	Approved fire registers for hydrants and hose reels	Each	1	500,00
31	ABC Powder for DCP Extinguishers	Kg	1	30,00
32	CO ² gas	Kg	1	30,00
33	Identification number plates	Each	1	20,00
	<u>STEEL CIMA/NATEX/BLUE CRANE</u>			
	<u>SINGLE STRAP</u>			
34	DCP 1 kg DCP light	S	1	15,00
35	DCP 1.5kg DCP light	S	1	20,00
36	DCP 2.5kg DCP light	S	1	31,35
37	DCP 2.5kg DCP Heavy D	S	1	183,15
38	DCP 2.5kg DCP Heavy D Red	S	1	214,50
39	CO ₂ – 2kg Heavy Duty	S	1	214,50
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES	
40	CO 2 – 5kg Heavy D Double Strap	S	1	203,00
41	DCP 4.5kg Cima	S	1	264,00
42	DCP 9kg Single Strap	S	1	321,00
43	DCP 9kg Double Strap	S	1	372,00
44	DCP 4.5 kg Red Round Base	S	1	270,00
45	DCP 9kg Blue Crane	S	1	280,00
	<u>DCP EXTINGUISHER SPARES</u>			
46	DCP J Bracket (4.5 – 9kg)	S	1	6,00
47	DCP J Bracket (1 – 2.5kg)	S	1	6,00
48	DCP 1 kg Nozzel	S	1	10,00
49	DCP 1.5 kg & 2.5 kg Nozzle	S	1	10,00
50	DCP gauge	S	1	24,00
51	DCP O Rings	S	1	5,00
52	DCP Safety Pin Small	S	1	5,00
53	DCP Safety pin large	S	1	6,00
54	DCP Plastic Nozzles (on discharge hose)	S	1	10,00
55	DCP Norma Clamp	S	1	9,00
56	DCP 9kg Discharge Hose	S	1	24,00
57	DCP 4.5 kg Discharge Hose	S	1	20,00
60	DCP 4.5kg PVC cover	S	1	63,00
61	DCPm9k PVC cover	S	1	85,00
62	DCP head large	S	1	107,00
63	DCP head medium	S	1	98,00
64	DCP head small	S	1	92,00
65	DCP handles top and bottom small	S	1	20,00
66	DCP handles top and bottom medium	S	1	22,00
67	DCP handles top and bottom large	S	1	24,00
68	Plastic neck rings	S	1	5,00

PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES	
69	DCP pressure relieve valve L	S	1	7,00
70	DCP plunger spindle small	S	1	10,00
71	DCP plunger spindle large	S	1	11,00
72	DCP black bottom for 9kg stainless steel	S	1	40,00
73	DCP Stainless steel valve	S	1	80,00
74	DCP siphon Tube 1kg Cima	S	1	8,00
75	DCP Siphon tube 1.5kg Cima	S	1	10,00
76	DCP Siphon tube 2.5kg Cima	S	1	12,00
77	DCP Siphon tube 4.5kg Cima	S	1	12,00
78	DCP Siphon tube 9kg Cima	S	1	15,00
79	DCP 40% MAP powder (Alpha Megaflo)	S	1	30,00
81	Alpha Dynaflo 90% Blue Import	S	1	43,00
	<u>FOAM / WATER ACCESSORIES</u>			
82	Foam Nozzles	S	1	22,00
83	Plasic Hose Tails	S	1	10,00
84	Foam Discharge Hose 9 litre	S	1	42,90
85	Water Discharge Hose	S	1	42,90
86	Siphon tube for 9 litre water	S	1	12,00
87	Backing board 600mm	S	1	50,00
88	Uni bracket 40mm	S	1	10,00
89	Uni bracket 70mm	S	1	10,00
90	Safety Pin 3mm CO 2	S	1	8,00
91	Wall bracket Red	S	1	10,00
92	2kg CO2 fixed	S	1	80,85
93	2kg CO2 hose and horn	S	1	122,10
94	5kg CO2 Chubb hose only	S	1	153,45
95	5kg CO2 long horn only	S	1	130,00
96	CO2 washer for horn	S	1	4,00
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES	
97	CO2 handles (top and bottom)	S	1	20,00
98	2kg CO2 Siphon Tubing	S	1	9,00
99	5g CO2 Siphon Tubing	S	1	15,00
100	CO2 1" Tapered Valve (CO 2 head)	S	1	217,80
101	CO2 ½" Tapered Valve (CO 2 head)	S	1	217,80
102	CO2 1" Tapered Valve S/Down	S	1	160,00
103	CO2 ¾" Tapered Valve S/Down	S	1	160,00
104	CO2 ½" Tapered Valve S/Down	S	1	160,00
105	Manual lever valve 24 tap CO2	S	1	235,00
106	CO2 Plunger for CYF 25 ¾"	S	1	15,00
107	Cap for 45kg CO2 extinguisher	S	1	70,00
108	Redlump bolt complete	S	1	275,00

109	Redlump Bolt glass tube only	S	1	80,00
110	Redlump Bolt Ceramic Tube only	S	1	80,00
111	Super sound complete	S	1	350,00
112	Super sound box	S	1	190,00
113	Super sound refill	S	1	150,00
116	Fire AXE 6lbs	S	1	388,00
117	Fire AXE small	S	1	149,00
	<u>FIRE BLANKETS</u>			
118	0.9 x 0.9	S	1	111,00
119	1 x 1	S	1	173,00
120	1.2 x 1.2	S	1	234,00
121	1.2 x 1.8	S	1	232,65
122	1.8 x 1.8	S	1	331,65
123	1m x 50m roll	roll	1	3 078.90
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES	
	<u>HOSE REEL</u>			
124	30m PVC hose local	S	1	866,00
125	45m PVC hose local	S	1	1 295.00
126	30m H/Reel complete local	S	1	1 716.00
131	Hose reel frame	S	1	736,00
132	Hose reel cover	S	1	256,00
133	CP valve	S	1	343,00
	<u>HOSE REEL SPARES</u>			
134	CP valve hand wheel	S	1	28,00
135	CP valve washer	S	1	20,00
136	Hose reel Norma Clamp	S	1	10,00
137	Hose reel Waterway	S	1	179,85
138	Hose reel Shackel	S	1	20,00
139	Hose reel nozzle	S	1	37,95
140	Hose reel aluminium nozzle	S	1	91,00
	<u>HYDRANT</u>			
145	65mm RAV x 80mm BSP Cast iron Anti Tamper	S	1	1 023.00
146	Booster Connections	S	1	600,00
	<u>HYDRANT SPARES</u>			
147	Hydrant Clack Washer	S	1	18,00
148	Hydrant Lip Washer	S	1	12,00
149	Hydrant Hand Wheel for Brass Valve	S	1	75,00
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES	
150	Hydrant Hand Wheel for Cast iron	S	1	78,00
151	Hydrant Hand Wheel Bolt and Nut	S	1	40,00
152	Hydrant Nipple Female to Male 65mm	S	1	50,00

153	Adaptor 65mm for Cast Iron Valve	S	1	180,00
154	Hydrant Aluminium Cover	S	1	238,00
155	Hydrant Cap & Chain	S	1	32,00
156	Booste Cap & Chain	S	1	32,00
157	Hydrant Key	S	1	62,00
158	Hydrant Spindle	S	1	140,00
159	Hydrant Lugs	S	1	35,00
160	Hydrant O ring	S	1	15,00
	LAYFLATS			
161	65 x 10Bar Single Lined + Coupling/white	S	1	1 500.00
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES	
	<u>INSTANTANEOUS COUPLINGS</u>			
177	38(M) to 50(F) BSP A/L Adap	S	1	212,00
178	50(M) to 50(F) BSP A/L Adap	S	1	212,00
179	65(F) to 65(F) BSP A/L Adap	S	1	212,00
180	65(M) to 65(M) BSP A/L Adap	S	1	212,00
181	65(M) to 65(F) BSP A/L Adap	S	1	212,00
182	65(F) to 44(M) BSP A/L Adap	S	1	212,00
183	65(M) to 50(M) BSP A/L Adap	S	1	212,00
184	65(F) to 50(F) BSP A/L Adap	S	1	212,00
185	65(M) to 50(F) BSP A/L Adap	S	1	212,00
186	65(F) to 50(M) BSP A/L Adap	S	1	212,00
187	65(F) to 65(M) BSP A/L Adap	S	1	212,00
188	65mm Male/Female BSP Adaptor 81mm LUG	S	1	517,00
189	Storz Spanner Medium	S	1	430,00
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES	
	<u>CABINETS</u>			
205	4,5kg Extinguisher Steel Cabinet	S	1	652,00
206	4,5kg Double Steel Ext Cabinet	S	1	759,00
207	4,5kg Extinguimate Cabinet	S	1	1 367.85
208	9kg Extinguisher Steel Cabinet	S	1	677,00
209	9kg Double Extinguisher Steel Cabinet	S	1	825,00
210	9kg Extinguimate Cabinet	S	1	1 399.20
211	9kg Plastic Cabinet	S	1	865,00
213	BA Extinguimate Cabinet	S	1	2 541.00
214	BA Extinguimate Brackets	S	1	691,35
215	Wall Mounted Cabinet	S	1	1 355.00
217	Hose Cabinet Legs Only	S	1	1 777.00
218	H/R Closed Back Cabinets	S	1	2 475.00
219	H/R Open Back Cabinets	S	1	1 088.00
220	CO2 Extinguisher Cabinet	S	1	792,00

223	CP Valve Box	S	1	180,00
224	Key Box	S	1	120,00
225	Cabinet Glass	S	1	20,00
226	Key Box Glass	S	1	50,00
227	CP Valve Box Glass	S	1	45,00
228	Lock and keys	S	1	95,70
229	Spare Keys	S	1	25,00
230	Panic Bolt Hammer and Chain	S	1	85,00
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES	
	<u>SIGNS</u>			
	<u>ABS 190 X 190</u>			
231	Red Arrow	S	1	22,00
232	Extinguisher	S	1	22,00
233	Hose Reel	S	1	22,00
234	Hydrant	S	1	22,00
235	Fire Alarm	S	1	22,00
236	Sprinkler Valve	S	1	22,00
237	Fire Telephone	S	1	22,00
238	Booster Pump	S	1	22,00
239	Super Sound	S	1	22,00
240	First Aid	S	1	22,00
241	Green Arrow	S	1	22,00
242	Man Running Left	S	1	22,00
243	Man Running Right	S	1	22,00
244	Ladies Toilet	S	1	22,00
245	Gents Toilet	S	1	22,00
246	Stairs Going Down Left	S	1	22,00
247	Stairs Going Up Right	S	1	22,00
248	No Smoking	S	1	22,00
249	No Open Flame	S	1	22,00
250	No Entry	S	1	22,00
	<u>ABS 290 X 290</u>			
251	Red Arrow	S	1	28,00
252	Extinguisher	S	1	28,00
253	Hose Reel	S	1	28,00
254	Hydrant	S	1	28,00
255	Fire Alarm	S	1	28,00
256	Sprinkler Valve	S	1	28,00
257	Fire Telephone	S	1	28,00
258	Booster Pump	S	1	28,00
259	Super Sound	S	1	28,00
260	First Aid	S	1	28,00

PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES	
262	Green Arrow	S	1	28,00
263	Man Running Left	S	1	28,00
264	Man Running Right	S	1	28,00
265	Ladie Toilet	S	1	28,00
266	Gents Toilet	S	1	28,00
267	Stairs Going Down Left	S	1	28,00
268	Stairs Going Up right	S	1	28,00
269	Eye Protection	S	1	28,00
270	Musk	S	1	28,00
271	Head Protection	S	1	28,00
272	Eat Protection	S	1	28,00
273	Hand Protection	S	1	28,00
274	Feet Protection	S	1	28,00
275	No Smoking	S	1	28,00
276	No Open Flame	S	1	28,00
277	No Pedestrians	S	1	28,00
278	No Water as Extinguisher	S	1	28,00
279	No Entry	S	1	28,00
280	General Warning of Hazard	S	1	28,00
281	Beware Fire Hazard	S	1	28,00
282	Beware Explosion Hazard	S	1	28,00
283	Beware Electric Shock	S	1	28,00
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES	
	<u>PHOTOLUM 190 X 190</u>			
284	Red Arrow	S	1	146,00
285	Extinguisher	S	1	146,00
286	Hose Reel	S	1	146,00
287	Hydrant	S	1	146,00
288	Fire Alarm	S	1	146,00
289	Sprinkler Valve	S	1	146,00
290	Fire Telephone	S	1	146,00
291	Booster Pump	S	1	146,00
292	Super Sound	S	1	146,00
293	First Aid	S	1	146,00
294	Green Arrow	S	1	146,00
295	Man Running Left	S	1	146,00
296	Man Running Right	S	1	146,00
297	Ladies Toilet	S	1	146,00
298	Gents Toilet	S	1	146,00
299	Stairs Going Down Left	S	1	146,00
300	Stairs Going Up Right	S	1	146,00

301	No Smoking	S	1	146,00
302	No Open Flame	S	1	146,00
303	No Entry	S	1	146,00
304	Beware Electric Shock	S	1	146,00
	<u>PHOTOLUM 290 X 290</u>			
305	Red Arrow	S	1	198,00
306	Extinguisher	S	1	198,00
307	Hose Reel	S	1	198,00
308	Hydrant	S	1	198,00
309	Fire Alarm	S	1	198,00
310	Sprinkler Valve	S	1	198,00
311	Fire Telephone	S	1	198,00
312	Booster Pump	S	1	198,00
313	Super Sound	S	1	198,00
314	First Aid	S	1	198,00
315	Green Arrow	S	1	198,00
316	Man Running Left	S	1	198,00
317	Man Running Right	S	1	198,00
318	Ladies Toilet	S	1	198,00
319	Gents Toilet	s	1	198,00
320	Stairs Going Down Left	S	1	198,00
321	Stairs Going Up Right	S	1	198,00
322	No Smoking	S	1	198,00
323	No Open Flame	S	1	198,00
324	No Entry	S	1	198,00
325	Beware Electric Shock	S	1	198,00
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES	
	<u>SPECIAL SIGNS</u>			
326	Assembly Point ABS	S	1	200,00
327	Chevron Board 380 x 680	S	1	132,00
328	Chromodeck 290 x 290 Photo	S	1	321,75
329	Chromodeck 190 x 190 Photo	S	1	132,00
330	Chromodeck 290 x 290 ABS	S	1	148,50
331	Chromodeck 190 x 190 ABS	S	1	99,00
332	Chromodeck 440 x 440	S	1	214,50
	<u>FIRST AID</u>			
346	First Aid Steelbox Complete Reg 7	S	1	640,00
348	First Aid Refill Reg 7	S	1	400,00
PART NO	DESCRIPTION	UNIT	PROVISIONAL QUANTITIES	
	<u>GAS SUPPRESSION</u>			
352	FM 200 Cylinders - per kg co 2	S	1	70,00
353	FM 200 Cylinders - per kg HFC 227	S	1	1 700.00

354	Major service of 4,5 kg DCP/STP extinguisher as per scope of work Part 4 item 1.2	S	1	100,00
353	Major service of 6,8 kg CO ² extinguisher as per scope of work Part 4 item 1.1	S	1	discontinuu
356	Major Service of 2-2.5 kg DCP/STP extinguisher as per scope of work Part 4 item 1.2	S	1	100,00
357	Major Service of 5kg CO ² extinguisher as per scope of work Part 4 item 1.1	S	1	100,00
358	Major Service of 4.5kg CO ² extinguisher as per scope of work Part 4 item 1.1	S	1	100,00
359	Major Service of 2.25kg CO ² extinguisher as per scope of work Part 4 item 1.1	S	1	100,00
360	Major Service of fire hydrants as per scope of work Part 4 item 3	S	1	45,00
361	Major Service of Hose reels as per scope of work Part 4 item 2	S	1	45,00
362	Supply of Register as per scope of work Part 4 item 5	S	1	500,00
363	Pressure testing fire extinguishers with certificates as per scope of work Part 4 item 6	S	1	130,00
364	Monthly inspection as per scope of work Part 4 item 7 - per institution	S	1	2 000.00
365	Servicing of Sprinkler systems as per scope of work Part 4 item 14 - per sprikler valvue	S	1	5 000.00
366	Servicing of Fire FM 200 system as per scope of work Part 4 item 19 - per zone	S	1	3 000.00

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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</u>			
	<u>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
	<u>7,5 kg Clear American Tumble dryers</u>			
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
	<u>7,5 kg Whirlpool Tumble dryers</u>	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	100	350	R35 000,00
2	Electrician - Over time	hrs	100	465,5	R46 550,00
3	Electrician - Saturday	hrs	100	542,5	R54 250,00
4	Electrician - Sunday	hrs	100	542,5	R54 250,00
5	Labourer - Normal time	hrs	100	250	R25 000,00
6	Labourer - Over time	hrs	100	332,5	R33 250,00
7	Labourer - Saturday	hrs	100	387,5	R38 750,00
8	Labourer - Sunday	hrs	100	387,5	R38 750,00
9	Call out - Normal time	No.	100	950	R95 000,00
10	Call Out - Over time	No.	100	950	R95 000,00
11	Call Out - Saturday	No.	100	950	R95 000,00
12	Call Out - Sunday	No.	100	950	R95 000,00
TOTAL FOR SECTION A CARRIED TO SUMMARY PAGE					R705 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	200	85	R17 000,00
2.2	Engine Oil	ltr	200	80	R16 000,00
2.3	Oil Filter	No.	100	1 320,50	R132 050,00
2.4	Diesel Filter	No.	100	1 599,56	R159 956,00
2.5	Air Filter	No.	100	888,85	R88 885,00
3	Additional Work Carried out				
3.1	Battery Leads set inclusive lugs	No.	1	205	R205,00
3.2	12V 120AH Smartgen battery	No.	1	3 999,50	R3 999,50
3.3	12V DC Smart Battery Charger 20A	No.	1	2 300,00	R2 300,00
3.4	12V Soleniod	No.	1	1 450,00	R1 450,00
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	1	250 000,00	R250 000,00

3.14	Travelling from nearest local office to Institution per km	km	800	67	R53 600,00
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					#####
SUMMARY					
SUB TOTAL					#####
VAT					R269 764,73
TOTAL					#####

- 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



GAUTENG PROVINCE
PROVINCIAL TREASURY
REPUBLIC OF SOUTH AFRICA

Provincial Supply Chain Management

Registered Supplier Confirmation

Page 1 of 1

THIS FORM IS TO BE COMPLETED BY REGISTERED SUPPLIERS ONLY

PLEASE NOTE:

SUPPLIERS ARE REQUIRED TO PROVIDE THEIR REGISTERED CENTRAL SUPPLIER DATABASE (CSD) NUMBER _____

For confirmation of your supplier number and/or any assistance please call the GPT Call Centre on **0860 011 000**.

Registered Suppliers to ensure that all details completed below are CURRENT.

MANDATORY SUPPLIER DETAILS			
GPT Supplier number			
Company name (Legal & Trade as)			
Company registration No.			
Tax Number			
VAT number (If applicable)			
COIDA certificate No.			
UIF reference No.			
Street Address		Postal Address	
CONTACT DETAILS			
Contact Person		Telephone Number	
Fax Number		Cell Number	
e-mail address		Principal's Id number	
BANKING DETAILS (in the name of the Company)			
Bank Name		Branch Code	
Account Number		Type of Account	

I HEREBY CERTIFY THAT THIS INFORMATION IS CORRECT.

Name(s) & Signature(s) of Bidder(s)

DATE:



Provincial Supply Chain Management

Financial Statements

Page 1 of 1

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 with the tender document. 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 attached.
- 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 than 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.

Annexure A**GOVERNMENT PROCUREMENT
GENERAL CONDITIONS OF CONTRACT
July 2010****NOTES**

The purpose of this document is to:

- (i) Draw special attention to certain general conditions applicable to government bids, contracts and orders; and
- (ii) To ensure that clients be familiar with regard to the rights and obligations of all parties involved in doing business with government.

In this document words in the singular also mean in the plural and vice versa and words in the masculine also mean in the feminine and neuter.

- The General Conditions of Contract will form part of all bid documents and may not be amended.
- Special Conditions of Contract (SCC) relevant to a specific bid, should be compiled separately for every bid (if applicable) and will supplement the General Conditions of Contract. Whenever there is a conflict, the provisions in the SCC shall prevail.

TABLE OF CLAUSES

1. Definitions
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8. Inspections, tests and analysis
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10. Delivery and documents
11. Insurance
12. Transportation
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15. Warranty
16. Payment
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21. Delays in the supplier's performance
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General Conditions of Contract

1. Definitions

1. The following terms shall be interpreted as indicated:
 - 1.1 “Closing time” means the date and hour specified in the bidding documents for the receipt of bids.
 - 1.2 “Contract” means the written agreement entered into between the purchaser and the supplier, as recorded in the contract form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
 - 1.3 “Contract price” means the price payable to the supplier under the contract for the full and proper performance of his contractual obligations.
 - 1.4 “Corrupt practice” means the offering, giving, receiving, or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution.
 - 1.5 "Countervailing duties" are imposed in cases where an enterprise abroad is subsidized by its government and encouraged to market its products internationally.
 - 1.6 “Country of origin” means the place where the goods were mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembly of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.
 - 1.7 “Day” means calendar day.
 - 1.8 “Delivery” means delivery in compliance of the conditions of the contract or order.
 - 1.9 “Delivery ex stock” means immediate delivery directly from stock actually on hand.
 - 1.10 “Delivery into consignees store or to his site” means delivered and unloaded in the specified store or depot or on the specified site in compliance with the conditions of the contract or order, the supplier bearing all risks and charges involved until the supplies are so delivered and a valid receipt is obtained.
 - 1.11 "Dumping" occurs when a private enterprise abroad market its goods on own initiative in the RSA at lower prices than that of the country of origin and which have the potential to harm the local industries in the RSA.

- 1.12 "Force majeure" means an event beyond the control of the supplier and not involving the supplier's fault or negligence and not foreseeable. Such events may include, but is not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 1.13 "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any bidder, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the bidder of the benefits of free and open competition.
- 1.14 "GCC" means the General Conditions of Contract.
- 1.15 "Goods" means all of the equipment, machinery, and/or other materials that the supplier is required to supply to the purchaser under the contract.
- 1.16 "Imported content" means that portion of the bidding price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or his subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs such as landing costs, dock dues, import duty, sales duty or other similar tax or duty at the South African place of entry as well as transportation and handling charges to the factory in the Republic where the supplies covered by the bid will be manufactured.
- 1.17 "Local content" means that portion of the bidding price which is not included in the imported content provided that local manufacture does take place.
- 1.18 "Manufacture" means the production of products in a factory using labour, materials, components and machinery and includes other related value-adding activities.
- 1.19 "Order" means an official written order issued for the supply of goods or works or the rendering of a service.
- 1.20 "Project site," where applicable, means the place indicated in bidding documents.
- 1.21 "Purchaser" means the organization purchasing the goods.
- 1.22 "Republic" means the Republic of South Africa.
- 1.23 "SCC" means the Special Conditions of Contract.
- 1.24 "Services" means those functional services ancillary to the supply of the goods, such as transportation and any other incidental services, such as installation, commissioning, provision of technical assistance, training, catering, gardening, security, maintenance and other such obligations of the supplier covered under the contract.

- 1.25 “Written” or “in writing” means handwritten in ink or any form of electronic or mechanical writing.
- 2. Application**
- 2.1 These general conditions are applicable to all bids, contracts and orders including bids for functional and professional services, sales, hiring, letting and the granting or acquiring of rights, but excluding immovable property, unless otherwise indicated in the bidding documents.
- 2.2 Where applicable, special conditions of contract are also laid down to cover specific supplies, services or works.
- 2.3 Where such special conditions of contract are in conflict with these general conditions, the special conditions shall apply.
- 3. General**
- 3.1 Unless otherwise indicated in the bidding documents, the purchaser shall not be liable for any expense incurred in the preparation and submission of a bid. Where applicable a non-refundable fee for documents may be charged.
- 3.2 With certain exceptions, invitations to bid are only published in the Government Tender Bulletin. The Government Tender Bulletin may be obtained directly from the Government Printer, Private Bag X85, Pretoria 0001, or accessed electronically from www.treasury.gov.za
- 4. Standards**
- 4.1 The goods supplied shall conform to the standards mentioned in the bidding documents and specifications.
- 5. Use of contract documents and information; inspection.**
- 5.1 The supplier shall not, without the purchaser’s prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the purchaser in connection therewith, to any person other than a person employed by the supplier in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
- 5.2 The supplier shall not, without the purchaser’s prior written consent, make use of any document or information mentioned in GCC clause 5.1 except for purposes of performing the contract.
- 5.3 Any document, other than the contract itself mentioned in GCC clause 5.1 shall remain the property of the purchaser and shall be returned (all copies) to the purchaser on completion of the supplier’s performance under the contract if so required by the purchaser.
- 5.4 The supplier shall permit the purchaser to inspect the supplier’s records relating to the performance of the supplier and to have them audited by auditors appointed by the purchaser, if so required by the purchaser.
- 6. Patent rights**
- 6.1 The supplier shall indemnify the purchaser against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the goods or any part thereof by the purchaser.
- 7. Performance**
- 7.1 Within thirty (30) days of receipt of the notification of contract award,

security

the successful bidder shall furnish to the purchaser the performance security of the amount specified in SCC.

- 7.2 The proceeds of the performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete his obligations under the contract.
- 7.3 The performance security shall be denominated in the currency of the contract, or in a freely convertible currency acceptable to the purchaser and shall be in one of the following forms:
 - (a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the purchaser's country or abroad, acceptable to the purchaser, in the form provided in the bidding documents or another form acceptable to the purchaser; or
 - (b) a cashier's or certified cheque
- 7.4 The performance security will be discharged by the purchaser and returned to the supplier not later than thirty (30) days following the date of completion of the supplier's performance obligations under the contract, including any warranty obligations, unless otherwise specified in SCC.

8. Inspections, tests and analyses

- 8.1 All pre-bidding testing will be for the account of the bidder.
- 8.2 If it is a bid condition that supplies to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by a representative of the Department or an organization acting on behalf of the Department.
- 8.3 If there are no inspection requirements indicated in the bidding documents and no mention is made in the contract, but during the contract period it is decided that inspections shall be carried out, the purchaser shall itself make the necessary arrangements, including payment arrangements with the testing authority concerned.
- 8.4 If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the supplies to be in accordance with the contract requirements, the cost of the inspections, tests and analyses shall be defrayed by the purchaser.
- 8.5 Where the supplies or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such supplies or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.
- 8.6 Supplies and services which are referred to in clauses 8.2 and 8.3 and which do not comply with the contract requirements may be rejected.
- 8.7 Any contract supplies may on or after delivery be inspected, tested or analyzed and may be rejected if found not to comply with the requirements of the contract. Such rejected supplies shall be held at the

cost and risk of the supplier who shall, when called upon, remove them immediately at his own cost and forthwith substitute them with supplies which do comply with the requirements of the contract. Failing such removal the rejected supplies shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute supplies forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected supplies, purchase such supplies as may be necessary at the expense of the supplier.

- 8.8 The provisions of clauses 8.4 to 8.7 shall not prejudice the right of the purchaser to cancel the contract on account of a breach of the conditions thereof, or to act in terms of Clause 23 of GCC.

9. Packing

- 9.1 The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing, case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.
- 9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the purchaser.

10. Delivery and documents

- 10.1 Delivery of the goods shall be made by the supplier in accordance with the terms specified in the contract. The details of shipping and/or other documents to be furnished by the supplier are specified in SCC.
- 10.2 Documents to be submitted by the supplier are specified in SCC.

11. Insurance

- 11.1 The goods supplied under the contract shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in the SCC.

12. Transportation

- 12.1 Should a price other than an all-inclusive delivered price be required, this shall be specified in the SCC.

13. Incidental services

- 13.1 The supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:
- (a) performance or supervision of on-site assembly and/or commissioning of the supplied goods;
 - (b) furnishing of tools required for assembly and/or maintenance of the supplied goods;
 - (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;
 - (d) performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed by the parties,

- provided that this service shall not relieve the supplier of any warranty obligations under this contract; and
- (e) training of the purchaser's personnel, at the supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied goods.

13.2 Prices charged by the supplier for incidental services, if not included in the contract price for the goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier for similar services.

14. Spare parts

14.1 As specified in SCC, the supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the supplier:

- (a) such spare parts as the purchaser may elect to purchase from the supplier, provided that this election shall not relieve the supplier of any warranty obligations under the contract; and
- (b) in the event of termination of production of the spare parts:
 - (i) Advance notification to the purchaser of the pending termination, in sufficient time to permit the purchaser to procure needed requirements; and
 - (ii) following such termination, furnishing at no cost to the purchaser, the blueprints, drawings, and specifications of the spare parts, if requested.

15. Warranty

15.1 The supplier warrants that the goods supplied under the contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that all goods supplied under this contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the purchaser's specifications) or from any act or omission of the supplier, that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination.

15.2 This warranty shall remain valid for twelve (12) months after the goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the contract, or for eighteen (18) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in SCC.

15.3 The purchaser shall promptly notify the supplier in writing of any claims arising under this warranty.

15.4 Upon receipt of such notice, the supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective goods or parts thereof, without costs to the purchaser.

15.5 If the supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchaser

may have against the supplier under the contract.

16. Payment

- 16.1 The method and conditions of payment to be made to the supplier under this contract shall be specified in SCC.
- 16.2 The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfillment of other obligations stipulated in the contract.
- 16.3 Payments shall be made promptly by the purchaser, but in no case later than thirty (30) days after submission of an invoice or claim by the supplier.
- 16.4 Payment will be made in Rand unless otherwise stipulated in SCC.

17. Prices

- 17.1 Prices charged by the supplier for goods delivered and services performed under the contract shall not vary from the prices quoted by the supplier in his bid, with the exception of any price adjustments authorized in SCC or in the purchaser's request for bid validity extension, as the case may be.

18. Contract amendments

- 18.1 No variation in or modification of the terms of the contract shall be made except by written amendment signed by the parties concerned.

19. Assignment

- 19.1 The supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the purchaser's prior written consent.

20. Subcontracts

- 20.1 The supplier shall notify the purchaser in writing of all subcontracts awarded under this contracts if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the supplier from any liability or obligation under the contract.

21. Delays in the supplier's performance

- 21.1 Delivery of the goods and performance of services shall be made by the supplier in accordance with the time schedule prescribed by the purchaser in the contract.
- 21.2 If at any time during performance of the contract, the supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the parties by amendment of contract.
- 21.3 No provision in a contract shall be deemed to prohibit the obtaining of supplies or services from a national department, provincial department, or a local authority.
- 21.4 The right is reserved to procure outside of the contract small quantities or to have minor essential services executed if an emergency arises, the supplier's point of supply is not situated at or near the place where the supplies are required, or the supplier's services are not readily

available.

21.5 Except as provided under GCC Clause 25, a delay by the supplier in the performance of its delivery obligations shall render the supplier liable to the imposition of penalties, pursuant to GCC Clause 22, unless an extension of time is agreed upon pursuant to GCC Clause 21.2 without the application of penalties.

21.6 Upon any delay beyond the delivery period in the case of a supplies contract, the purchaser shall, without canceling the contract, be entitled to purchase supplies of a similar quality and up to the same quantity in substitution of the goods not supplied in conformity with the contract and to return any goods delivered later at the supplier's expense and risk, or to cancel the contract and buy such goods as may be required to complete the contract and without prejudice to his other rights, be entitled to claim damages from the supplier.

22. Penalties

22.1 Subject to GCC Clause 25, if the supplier fails to deliver any or all of the goods or to perform the services within the period(s) specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as a penalty, a sum calculated on the delivered price of the delayed goods or unperformed services using the current prime interest rate calculated for each day of the delay until actual delivery or performance. The purchaser may also consider termination of the contract pursuant to GCC Clause 23.

23. Termination for default

23.1 The purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, may terminate this contract in whole or in part:

- (a) if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC Clause 21.2;
- (b) if the Supplier fails to perform any other obligation(s) under the contract; or
- (c) if the supplier, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.

23.2 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner as it deems appropriate, goods, works or services similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar goods, works or services. However, the supplier shall continue performance of the contract to the extent not terminated.

23.3 Where the purchaser terminates the contract in whole or in part, the purchaser may decide to impose a restriction penalty on the supplier by prohibiting such supplier from doing business with the public sector for a period not exceeding 10 years.

23.4 If a purchaser intends imposing a restriction on a supplier or any person associated with the supplier, the supplier will be allowed a time period of not more than fourteen (14) days to provide reasons why the

envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated fourteen (14) days the purchaser may regard the intended penalty as not objected against and may impose it on the supplier.

23.5 Any restriction imposed on any person by the Accounting Officer / Authority will, at the discretion of the Accounting Officer / Authority, also be applicable to any other enterprise or any partner, manager, director or other person who wholly or partly exercises or exercised or may exercise control over the enterprise of the first-mentioned person, and with which enterprise or person the first-mentioned person, is or was in the opinion of the Accounting Officer / Authority actively associated.

23.6 If a restriction is imposed, the purchaser must, within five (5) working days of such imposition, furnish the National Treasury, with the following information:

- (i) the name and address of the supplier and / or person restricted by the purchaser;
- (ii) the date of commencement of the restriction
- (iii) the period of restriction; and
- (iv) the reasons for the restriction.

These details will be loaded in the National Treasury's central database of suppliers or persons prohibited from doing business with the public sector.

23.7 If a court of law convicts a person of an offence as contemplated in sections 12 or 13 of the Prevention and Combating of Corrupt Activities Act, No. 12 of 2004, the court may also rule that such person's name be endorsed on the Register for Tender Defaulters. When a person's name has been endorsed on the Register, the person will be prohibited from doing business with the public sector for a period not less than five years and not more than 10 years. The National Treasury is empowered to determine the period of restriction and each case will be dealt with on its own merits. According to section 32 of the Act the Register must be open to the public. The Register can be perused on the National Treasury website.

24. Anti-dumping and countervailing duties and rights

24.1 When, after the date of bid, provisional payments are required, or anti-dumping or countervailing duties are imposed, or the amount of a provisional payment or anti-dumping or countervailing right is increased in respect of any dumped or subsidized import, the State is not liable for any amount so required or imposed, or for the amount of any such increase. When, after the said date, such a provisional payment is no longer required or any such anti-dumping or countervailing right is abolished, or where the amount of such provisional payment or any such right is reduced, any such favourable difference shall on demand be paid forthwith by the contractor to the State or the State may deduct such amounts from moneys (if any) which may otherwise be due to the contractor in regard to supplies or services which he delivered or rendered, or is to deliver or render in terms of the contract or any other contract or any other amount which may be due to him

25. Force Majeure

- 25.1 Notwithstanding the provisions of GCC Clauses 22 and 23, the supplier shall not be liable for forfeiture of its performance security, damages, or termination for default if and to the extent that his delay in performance or other failure to perform his obligations under the contract is the result of an event of force majeure.
- 25.2 If a force majeure situation arises, the supplier shall promptly notify the purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

26. Termination for insolvency

- 26.1 The purchaser may at any time terminate the contract by giving written notice to the supplier if the supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

27. Settlement of Disputes

- 27.1 If any dispute or difference of any kind whatsoever arises between the purchaser and the supplier in connection with or arising out of the contract, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.
- 27.2 If, after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the purchaser or the supplier may give notice to the other party of his intention to commence with mediation. No mediation in respect of this matter may be commenced unless such notice is given to the other party.
- 27.3 Should it not be possible to settle a dispute by means of mediation, it may be settled in a South African court of law.
- 27.4 Mediation proceedings shall be conducted in accordance with the rules of procedure specified in the SCC.
- 27.5 Notwithstanding any reference to mediation and/or court proceedings herein,
- (a) the parties shall continue to perform their respective obligations under the contract unless they otherwise agree; and
 - (b) the purchaser shall pay the supplier any monies due the supplier.


28. Limitation of liability

- 28.1 Except in cases of criminal negligence or willful misconduct, and in the case of infringement pursuant to Clause 6;
- (a) the supplier shall not be liable to the purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the supplier to pay penalties and/or damages to the purchaser; and

- (b) the aggregate liability of the supplier to the purchaser, whether under the contract, in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.
- 29. Governing language** 29.1 The contract shall be written in English. All correspondence and other documents pertaining to the contract that is exchanged by the parties shall also be written in English.
- 30. Applicable law** 30.1 The contract shall be interpreted in accordance with South African laws, unless otherwise specified in SCC.
- 31. Notices** 31.1 Every written acceptance of a bid shall be posted to the supplier concerned by registered or certified mail and any other notice to him shall be posted by ordinary mail to the address furnished in his bid or to the address notified later by him in writing and such posting shall be deemed to be proper service of such notice
- 31.2 The time mentioned in the contract documents for performing any act after such aforesaid notice has been given, shall be reckoned from the date of posting of such notice.
- 32. Taxes and duties** 32.1 A foreign supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the purchaser's country.
- 32.2 A local supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted goods to the purchaser.
- 32.3 No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid the Department must be in possession of a tax clearance certificate, submitted by the bidder. This certificate must be an original issued by the South African Revenue Services.
- 33. National Industrial Participation Programme (NIP)** 33.1 The NIP Programme administered by the Department of Trade and Industry shall be applicable to all contracts that are subject to the NIP obligation.
- 34. Prohibition of Restrictive practices** 34.1 In terms of section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, an agreement between, or concerted practice by, firms, or a decision by an association of firms, is prohibited if it is between parties in a horizontal relationship and if a bidder (s) is / are or a contractor(s) was / were involved in collusive bidding (or bid rigging).
- 34.2 If a bidder(s) or contractor(s), based on reasonable grounds or evidence obtained by the purchaser, has / have engaged in the restrictive practice referred to above, the purchaser may refer the matter to the Competition Commission for investigation and possible imposition of administrative penalties as contemplated in the Competition Act No. 89 of 1998.

- 34.3 If a bidder(s) or contractor(s), has / have been found guilty by the Competition Commission of the restrictive practice referred to above, the purchaser may, in addition and without prejudice to any other remedy provided for, invalidate the bid(s) for such item(s) offered, and / or terminate the contract in whole or part, and / or restrict the bidder(s) or contractor(s) from conducting business with the public sector for a period not exceeding ten (10) years and / or claim damages from the bidder(s) or contractor(s) concerned.

Js General Conditions of Contract (revised July 2010)

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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	
SPECIFIC GOALS	
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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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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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)



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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]

<input type="checkbox"/>	Partnership/Joint Venture / Consortium
<input type="checkbox"/>	One-person business/sole propriety
<input type="checkbox"/>	Close corporation
<input type="checkbox"/>	Public Company
<input type="checkbox"/>	Personal Liability Company
<input type="checkbox"/>	(Pty) Limited
<input type="checkbox"/>	Non-Profit Company
<input type="checkbox"/>	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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- (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	
ADDRESS	