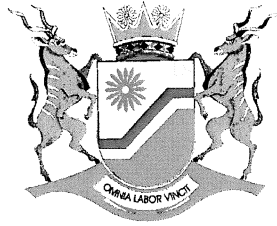


MPUMALANGA PROVINCIAL GOVERNMENT



DEPARTMENT OF EDUCATION

BID NUMBER: EDU/144/23/MP

**APPOINTMENT OF INFRASTRUCTURE TERM
CONTRACTOR(S) FOR THE MAINTENANCE AND
INFRASTRUCTURE RELATED WORKS IN ALL
EDUCATION FACILITIES OF THE
MPUMALANGA DEPARTMENT OF EDUCATION
FOR A PERIOD THREE YEARS**

ISSUED BY:

Department of Education
Private Bag X11341
Mbombela
1200

NAME OF BIDDER:

TOTAL BID PRICE (all inclusive) :

(Also in words):

.....

PART A INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE DEPARTMENT OF EDUCATION					
BID NUMBER:	EDU/144/23/MP	CLOSING DATE:	12 SEPTEMBER 2023	CLOSING TIME:	12H00
DESCRIPTION	APPOINTMENT OF INFRASTRUCTURE TERM CONTRACTOR(S) FOR THE MAINTENANCE AND INFRASTRUCTURE RELATED WORKS IN ALL EDUCATION FACILITIES OF THE MPUMALANGA DEPARTMENT OF EDUCATION FOR A PERIOD THREE YEARS				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)					
MBOMBELA, Riverside Government Complex, Building No 9, Government Boulevard, Mbombela, 1200, PIET RETIEF, No. 11 Measroch Street, Piet Retief Office, KWAMHLANGA, KwaMhlanga Government Complex, Department of Finance, Building No. 12, Computer Centre EVANDER, 10 Cornell Road (previously occupied by Evander Home Affairs Offices), Evander, 2280, BUSHBUCKRIDGE, Bushbuckridge Advice Centre, Department of Finance, Protea building (old Telkom building), MIDDELBURG, Department of Public Works, Cnr. Lillian Ngoyi and Dr Beyers Naudé Streets – Old TPA Building, Upper ground floor, Office numbers A20, 21 and 25, MALELANE, 24 Air Street, Malelane, ELUKWATINI, Elukwatini Sub Regional offices, Office numbers A49 and A50 (opposite Elukwatini Community Hall) Stand number 12 Extension A, Elukwatini.					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO			TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON	Ms. Moira Olivier		CONTACT PERSON	Mr. S. Ndimande	
TELEPHONE NUMBER	013 766 5278		TELEPHONE NUMBER	013 766 5044	
FACSIMILE NUMBER			FACSIMILE NUMBER		
E-MAIL ADDRESS	m.olivier@mpuedu.gov.za		E-MAIL ADDRESS	sndimande@mpuedu.gov.za	
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.					

PART B TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED (NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.
1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
1.4. THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).
2. TAX COMPLIANCE REQUIREMENTS
2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

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

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:

(Proof of authority must be submitted e.g. company resolution)

DATE:

MPUMALANGA PROVINCIAL GOVERNMENT

DEPARTMENT OF EDUCATION



APPOINTMENT OF INFRASTRUCTURE TERM CONTRACTORS FOR THE MAINTENANCE OF ALL EDUCATION FACILITIES FOR THE MPUMALANGA DEPARTMENT OF EDUCATION FOR A PERIOD OF THREE (3) YEARS.

SPECIFICATION CATEGORY(s) SERVICE PROVIDER IS TENDERING FOR		
SPECIFICATION CATEGORY	DESCRIPTION	TICK (✓)
Specification 1	1A: Maintenance of General building "GB" and civil work "CE"	
	1B: Maintenance of water supply and drainage for building (General Building "GB" and "SO" wet services and plumbing).	
Specification 2	2A: Maintenance of Electrical work - Building: (Electrical Engineering work "EB")	
Specification 3	3: Maintenance of Mechanical Engineering work ("ME")	

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Definitions

In this bid document, the following words or expressions shall have the meanings hereby assigned to them, except where the context otherwise requires:

Bid/tender	The concepts are used interchangeably and they mean a written offer, in the form determined by instruction, in response to an invitation for the procurement of goods or services or other form of procurement through a price quotation, a competitive bidding process, a limited bidding process or any other method envisaged in the Act.
Bidder/tenderer	means any person/enterprise which has submitted a bid or Request for Quotation.
Black people	as defined in the Broad-Based Black Economic Empowerment Act, (Act No 53 of 2003), is a generic term which means Africans, Coloured and people of Indian origins.
Conditions of Tender	means a document of the procedures, the manner in which those engaged in the procurement process are to behave, the obligations of the tenderer and the undertakings of the Department. The Conditions of Tender are distinct from both the General Conditions of Contract and the Special Conditions of Contract.
Contract	means any written agreement entered into between the purchaser (i.e. Departments) 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 as defined in the General Conditions of Contract.
Contract price	means the price payable to the supplier under the contract for the full and proper performance of contractual obligations as defined in the General Conditions of Contract.
Consortium or Joint Venture	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.
Disability	in respect of a person, means, a permanent impairment of a physical, intellectual, or sensory function which results in restricted, or lack of ability to perform an activity in the manner or within the range considered normal for a human being.
Department	means Mpumalanga Department of Education
Functionality	means the measurement according to predetermined norms of a service or commodity designed to be practical and useful, working or operating, taking into account quality, reliability, viability, skills, experience and durability of a service or commodity.
Historically Disadvantaged Individual	means a South African citizen who due to the apartheid policy had no franchise in national elections prior to the introduction of the Constitution of the Republic of South Africa, (Act No. 110 of 1983) or the Constitution of the Republic of South Africa, (Act No 200 of 1993) ("the Interim Constitution); and/or who is a female; and/or who has a disability: provided that a person who obtained South African citizenship on or after the coming to effect of the Interim Constitution, is deemed not to be a Historically Disadvantaged Individual.
Highest acceptable tender	means a tender that complies with all specifications and conditions of tender and that has the highest price compared to other tenders.
Individual	means a natural person.
Lowest acceptable tender	means a tender that complies with all specifications and conditions of tender and that has the lowest price compared to other tenders.

Local Labour	means South African residents who permanently reside in the specific municipal or sub-catchment area of jurisdiction where the project is implemented.
Price	means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
Person	includes reference to a juristic person.
Public auction	means a traditional “open cry” auction where it is not practical to apply a system of preference. Examples include events facilitated by an auctioneer during asset disposal auctions; auction of unwanted goods; staff auctions and so on.
80/20-point scoring system	refers to the point system prescribed in regulations 3 and 5 of the regulations issued in terms of section 5 of the PPPFA.
90/10-point scoring system	refers to the point system prescribed in regulations 4 and 6 of the regulations issued in terms of section 5 of the PPPFA.
Rand value	means the total estimated value of a contract in Rand, calculated at the time of the tender invitation.
Request for Quotation (RFQ)	means any request for quotations for the procurement of goods and services above the petty cash procurement estimate / threshold up to R1 million inclusive of all taxes less all unconditional discounts.
Small, Medium, and Micro Enterprises	means small businesses; as defined in section 1 of the National Small Business Act, (Act No. 102 of 1996). A separate and distinct business Department , including co-operative enterprises and non-governmental organisations, managed by one or more owners which (including its branches or subsidiaries, if any) is predominantly carried on in any sector or sub sector of the economy mentioned in Column I of the Schedule and which can be classified as a micro-, a very small, a small or a medium enterprise by satisfying criteria 40 as mentioned in columns 3; 4 and 5 of the Schedule opposite the smallest relevant size or class (as mentioned in column 2 of the Schedule).
Specific goals	means specific goals as contemplated in section 2(1)(d) of the Preferential Procurement Policy Framework Act (Act No. 5 of 2000) which may include contracting with persons, or categories of persons, historically disadvantaged by unfair discrimination on the basis of race, gender and disability including the implementation of programmes of the Reconstruction and Development Programme as published in Government Gazette No. 16085 dated 23 November 1994.
Tender for income-generating contracts	means a written offer in the form determined by a Department 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 Department and a third party that produces revenue for the Department , and includes. but not limited to, leasing and disposal of assets and concession contracts. However, direct sales and disposal of assets through public auctions are excluded.
The Act	means the Preferential Procurement Policy Framework Act (Act No. 5 of 2000).
The Constitution	means the Constitution of the Republic of South Africa (Act No.108 of 1996).
Youth	means persons between the ages of 14 and 35 as per the National Youth Development Agency Act (Act No.54 of 2008).

APPOINTMENT OF INFRASTRUCTURE TERM CONTRACTORS FOR THE MAINTENANCE AND INFRASTRUCTURE RELATED WORKS IN ALL EDUCATION FACILITIES OF THE MPUMALANGA DEPARTMENT OF EDUCATION FOR A PERIOD OF THREE (3) YEARS.

Abbreviation

Abbreviation	Description
ASTM	American Society for Testing and Materials
BAC	Bid Adjudication Committee
BBBEE	Broad Based Black Economic Empowerment
BOQ	Bill of Quantities
BEC	Bid Evaluation Committee
CIDB	Construction Industry Development Board
CE	Civil Engineering
CSD	Central Supplier Database
CoA	Certificate of Acceptability
COC	Certificate of Compliance
CSI	Corporate Social Investment
DBE	Department of Basic Education
DTDC	District Teacher Development and Centres
EB	Electrical work – Building
ECD	Early Childhood Development
ECDC	Early Childhood Development Centres
GB	General Building
GCC	General Conditions of Contract
HDI	Historically Disadvantaged Individual
HoD	Head of Department
HPCSA	Health Professions Council of South Africa
HVAC	Heating, Ventilation and Air Conditioning
ICT	Information Communication Technology
LV	Low Voltage
MDE	Mpumalanga Department of Education
ME	Mechanical Engineering
MSTA	Mathematics, Science and Technology Academy
NCS	National Curriculum Statement
PPPFA	Preferential Procurement Policy Framework Act (Act No.5 of 2000)
PSS	Public Special Schools
PoD	Proof of delivery
POS	Public Ordinary Schools
PPR	Preferential Procurement Regulations of 2022
PMT	Provincial Management Team
PFMA	Public Finance Management Act (Act No.1 of 1999).
RDP	Reconstruction and Development Programme
RFQ	Request for Quotation
SABS	South African Bureau of Standards
SANS	South African National Standards
SANAS	South African National Accreditation System
SARS	South African Revenue Services
SASA	South African Schools Act, 1996 (Act No. 84 of 1996) as amended
SBD	Standard Bidding Document
SCC	Special Conditions of Contract
SCM	Supply Chain Management
SMME	Small, Medium and Micro Enterprises
SLA	Service Level Agreement
UPS	Uninterrupted Power Supply
VAT	Value Added Tax

SECTION A: GENERAL SPECIFICATIONS

1. DESCRIPTION OF THE WORKS

1.1. Department's objectives

The Department need to establish a database of term contractors on standard rates to address maintenance needs in all of its education buildings and related infrastructure works. This will be in line with section 38(1)(d) of the Public Finance Management Act (Act No. 1 of 1999) (PFMA), where the Accounting Officers are expected to be responsible for management, including safeguarding and the maintenance of the assets of the Department towards ensuring conducive teaching and learning in compliance with the occupational health and safety regulations and all building regulations and standards.

1.2. Overview of the Works

Emergency repairs: Any defect of essential services on infrastructure in emergency situations that has an impact on the functionality and/or security of the school or presents a health and safety risk to the educators, learners or general public, and which are considered to be wholly completed within a month as deemed by Mpumalanga department of Education (Head Office). Response time for assessment within 48 hours.

Emergency repairs include sudden and unforeseen works including the above also caused by instances such as natural disaster e.g. storm damages, earthquakes, theft etc.

Normal maintenance: repairs or replacements can only be done by a qualified service provider or qualified specialist.

1.3. Types of maintenance and repairs

The extent of the works shall be maintenance and is to be specified upon every instruction. A database will be developed for all service providers, split into the various services and further disaggregated according to the geographic location vis. District based.

Item	Description
Specification 1	1A: Maintenance of General building “GB” and civil work “CE”
	1B: Maintenance of water supply and drainage for building (General Building “GB” and “SO” wet services and plumbing).
Specification 2	2A: Maintenance of Electrical work - Building: (Electrical Engineering work “EB”)
Specification 3	Maintenance of Mechanical Engineering work (“ME”)

1.4. Location of the works

All education buildings and related infrastructure works are to be located in Bohlabela, Ehlanzeni, Nkangala and Gert Sibande districts within Mpumalanga Province.

1.5. CIDB Grading

Bidders must be registered with the Construction Industry Development Board (CIDB) and have the following grading:

Specification category	Description	CIDB Grading
Specification 1	1A: Maintenance of General building “GB” and civil work “CE”	1GB/CE/SO/ – 5 GB/CE/SO
	1B: Maintenance of water supply and drainage for building (General Building “GB” and “SO” wet services and plumbing).	
Specification 2	2: Maintenance of Electrical work - Building: (Electrical Engineering work “EB”)	1EB– 5EB
Specification 3	Maintenance of Mechanical Engineering work (“ME”)	1ME - 5ME

1.6. The Execution of Works

The site and works shall be done while the educational facilities are operational. The project sites should be properly hoarded for security and safety reasons. The Department reserves the right to stop all work and not honor payment where a contractor failed to adhere to health and safety regulations.

The contractor shall barricade the works away from the learning facilities to minimize disruption of teaching and learning. Barricading plan must be approved by the Project Leader /Works Inspectorate prior to works commencing on site to ensure the school remain functional.

The contractor shall be responsible for the control of access to the site without damaging the existing infrastructure and ensure functionality of the school facilities during the implementation of maintenance works. Any temporary works constructed to control access shall be removed by the contractor as soon as the project is completed. Contractors to ensure that they have in place their approved health safety file on site at all times.

1.7. Site Inspection and Briefing Meetings

No site inspection will be held. However, a compulsory briefing meetings will take place as per tender advertisement on the tender bulletin.

All bidding clarity seeking questions must be submitted via email to the details specified on the tender advertisement, and the questions should be posted at least five working days before the close time of tender as stated in the tender data and advertisement.

SECTION B: BIDDING PROCESS IN TERMS OF PPPFA

2. General

The contract shall be awarded in terms of the Preferential Procurement Policy Framework Act 2000 (Act No. 5 of 2000).

3. Bid Evaluation Methods

The Department shall evaluate the bid in terms of:

- a. Compulsory briefing session;
- b. Compulsory returnable documents;
- c. Returnable supporting documents
- d. Functionality criteria and;
- d. Preference point system.

4. Compulsory briefing session

Information about a compulsory briefing session will be advertised in the Provincial Tender Bulletin. All prospective bidders are obliged to attend the aforementioned briefing session in order to be informed and to become fully acquainted with the peculiarities of this bid. Only service provider/s who attended the briefing session will be considered for the bid.

5. RETURNABLE DOCUMENTS

5.1. Compulsory returnable documents

The required information should be submitted in the templates for both the compulsory and supporting returnable documents.

Clearly indicate with a YES or NO on whether the following compulsory returnable documents are attached or not. Where a YES or NO is not applicable, indicate as such with a N/A. Each bid shall comprise of a clearly indexed proposal with the tender documents as follows:

Section	Compulsory Returnable Documents	Attached YES/NO/ N/A
1.	Bid document must be securely bound.	
2.	Invitation to Bid (SBD 1) must be fully completed.	
3.	Fully completed Pricing Schedule.	
4.	Fully completed SBD4 (Declaration of Interest).	
5.	A Valid Pin Letter from SARS. Failure to submit a Valid Pin Letter, the bid proposal will be considered non-responsive and shall be disqualified. Tax status must remain compliant for the duration of the bid validity period.	
6.	Copy of CIPRO/ CIPC Company registration documents indicating each director's as a shareholding.	
7.	If the bidder is joint venture/consortium/partnership, an originally certified copy of such an agreement and a resolution by each party to such venture/consortium/partnership authorizing its participation in the bid should be attached. If the bidder is not a joint venture/consortium/partnership this section is not compulsory. Bidders in a joint venture agreement should comply with CIDB joint venture regulation.	
8.	Originally certified copies of the identity documents /valid passports of all the directors of the entity. The date on the certified copies must not be older than one (1) month as at the closing date of the bid.	
9.	Attach a detailed Central Supplier Database (CSD) report /printout.	
10.	Proof of CIDB registration for the grades stipulated on this bid.	

N.B: BIDDERS WHO FAIL TO ATTACH ANY OF THE COMPULSORY REQUIREMENTS AS LISTED ABOVE WILL BE DISQUALIFIED. ALL SUBMITTED DOCUMENTS MUST BE INITIALED ON EACH PAGE AND FAILURE TO DO SO WILL LEAD TO DISQUALIFICATION.

5.2. Supporting Returnable Documents

Section	Supporting Bidding Documents	Attached YES/NO/N A
1	A total of 10 preference points shall be allocated on a proportional basis to enterprise owned by historically disadvantaged persons or individuals. For enterprise that is owned by disabled person(s), they must provide a copy of confirmation from a Professional Medical Officer registered with the Health Professions Council of South Africa (HPCSA). <i>Attach a copy of Corporate Social Investment (CSI) or Social Labour Plan proposition.</i>	
2	Qualifications of key personnel. Attach equivalent or better qualifications in the Built Environment (Certificates and/or Diploma or higher qualification)	
3	Experience of key personnel. Attach references of proof for experience on projects of a similar nature.	
4	Approach, methodology, work plan and Quality plan.	
5	Evidence of experience on infrastructure and maintenance in the form of an appointment letter, contract or a purchase order. (The document(s) should be accompanied by a confirmation letter from a relevant institution signed by the Accounting Officer / Accounting Authority.	

NB: ALL ATTACHED DOCUMENTS MUST BE INITIALLED ON EACH PAGE. FAILURE OF THE BIDDER TO ATTACH ANY OF THE ABOVE SUPPORTING DOCUMENTS WILL RESULT IN ZERO POINTS DURING THE EVALUATION PROCESS.

5.3. Functionality

Points allocated for functionality are 100, and members of the Bid Evaluation Committee (BEC) will strictly and individually evaluate the bid by verifying, all documents submitted by bidders, and score responsive bids under the following functionality criteria:

Criteria For Functionality	Sub-weight	Total Weight																
Qualifications of key personnel																		
Site Agent – National Diploma in the Built Environment (or equivalent or better)	10	20																
Site Foreman – Trade Certificate in Built environment (or equivalent or better)	10																	
Relevant Experience of Key Personnel																		
Site Agent – 5 years’ experience on projects of a similar nature	10	20																
<table><tr><th colspan="2">POINTS BREAKDOWN</th></tr><tr><th>Years’ experience</th><th>Points to be allocated</th></tr><tr><td>Less than 1 year</td><td>0</td></tr><tr><td>1</td><td>2</td></tr><tr><td>2</td><td>4</td></tr><tr><td>3</td><td>6</td></tr><tr><td>4</td><td>8</td></tr><tr><td>5</td><td>10 Points</td></tr></table>			POINTS BREAKDOWN		Years’ experience	Points to be allocated	Less than 1 year	0	1	2	2	4	3	6	4	8	5	10 Points
POINTS BREAKDOWN																		
Years’ experience			Points to be allocated															
Less than 1 year			0															
1			2															
2			4															
3			6															
4			8															
5	10 Points																	
Site Foreman – 5 Years’ experience on projects of similar nature	10																	
<table><tr><th colspan="2">POINTS BREAKDOWN</th></tr><tr><th>Years’ experience</th><th>Points to be allocated</th></tr><tr><td>Less than 1 year</td><td>0</td></tr><tr><td>1</td><td>2</td></tr><tr><td>2</td><td>4</td></tr><tr><td>3</td><td>6</td></tr><tr><td>4</td><td>8</td></tr><tr><td>5</td><td>10 Points</td></tr></table>		POINTS BREAKDOWN		Years’ experience	Points to be allocated	Less than 1 year	0	1	2	2	4	3	6	4	8	5	10 Points	
POINTS BREAKDOWN																		
Years’ experience		Points to be allocated																
Less than 1 year		0																
1		2																
2		4																
3		6																
4		8																
5	10 Points																	
Approach, Methodology, and Work plan																		
	15	30																

POINT BREAKDOWN FOR APPROACH, METHODOLOGY AND WORK PLAN			
ITEM ADDRESSED (in relation to specifications)	POINTS		
None	0		
Approach and Methodology, or Work plan	7.5		
Approach and Methodology and Work plan	15		
Quality Plan		15	
POINT BREAKDOWN FOR QUALITY PLAN			
ITEM ADDRESSED (in relation to specifications)	POINTS		
None	0		
Materials or workmanship	7.5		
Materials and workmanship	15		
Company experience		30	30
Evidence of experience on infrastructure and maintenance in the form of an appointment letter, contract or a purchase order.			
➤ 1-11 months = 10			
➤ 1-3 years = 15			
➤ 4-6 years = 20			
➤ 7-9 years = 25			
➤ 10 and above = 30			
Total		100	100

The points scored for functionality shall be calculated as follows:

- Each BEC member shall allocate points for each individual criteria on the score sheet.
- The assessment of functionality shall be done in terms of the above mentioned evaluation criteria and minimum threshold of 70 points.
- All bidders who scored the minimum threshold of 70 points or above shall advance to phase II of the bidding process.
- Bids that do not meet the specified minimum points for functionality shall not proceed further.

5.4. Preference Points in terms of PPPFA.

Responsive bids shall be adjudicated by the MDoE on the 90/10 preference points system in terms of which points are awarded to bidders(s) as follows:

Points for price and specific goals on equity ownership:

Price	(90)
Specific goals on equity ownership	(10)

5.4.1. Evaluation of preference point system for price (90)

The lowest acceptable bid shall obtain the maximum points for price. The other bids with higher prices shall proportionately obtain lower points. The final points for the selection of a preferred bidder shall be calculated as follows:

$$P_s = 90 \left[\frac{1 - P_t - P_{min}}{P_{min}} \right]$$

Where:

P_s = Points scored for comparative price of tender or offer under Consideration,

P_t = Comparative price of tender or offer under consideration, and

P_{min} = Comparative price of lowest acceptable tender or offer.

5.4.2. Evaluation of preference point system for specific goals on equity ownership (10)

A maximum of 10 points shall be awarded to a bidder(s) in respect of specific goals on equity ownership as contemplated in sub-regulation (2) of the PPPFA (Act No.5 of 2000) and section 8 of the MDoE Preferential Procurement Policy will be added to the points scored for price as calculated in accordance with sub-regulation (1) of the PPPFA (Act 5 of 2000).

Points will be awarded to the bidder(s) who attains the specific goals on equity ownership in accordance with the generic scorecard below:

Description	Points (90/10)
<i>Enterprises that are at least 51% black owned.</i>	2
<i>Enterprises that are at least 51% women-owned.</i>	2
<i>Enterprises that are at least 25% owned by disabled persons.</i>	2
<i>Enterprises with at least a 25% ownership by Youth.</i>	2
<i>Corporate Social Investment (CSI) or Social Labour Plan proposition.</i>	2
<i>Non-compliant .</i>	0

Note: The preference claim forms are part of the standard bidding document.

5.5. Recommendations

The top 200 bidders with the highest points shall then be recommended to be included in this database

- The needs of MDoE and the purpose of the project are understood and met;
- The bidder(s)' experience in operations related to building maintenance.
- The bidder(s)' proven knowledge and skills to manage a large scale project;
- The bidder(s)' capacity i.e. financial viability; effective, efficient and reliable equipment and personnel to deliver within the stated timeframes; and
- The bidder(s)' overall ability to provide a service that is characterized by quality, accuracy, economy, productivity and speed.

5.6. Appointment

The bidder(s) who meets the requirements of the bid will be considered for appointment.

NAME OF BIDDER : _____

SIGNATURE OF BIDDER : _____

DATE : _____

SECTION C: SPECIAL CONDITIONS

6. The Special Conditions of Contract are supplementary to the General Conditions of Contract. Where the Special Conditions of Contract are in conflict with the General Conditions of Contract, the latter take precedence. Any appointment made is subject to the bidder(s) accepting the terms and conditions contained in the General Conditions of Contract and Service Level Agreement (SLA). Both the General Conditions of Contract and SLA are in line with Treasury Regulation 16A, published in terms of the Public Finance Management Act, (Act.No.1 of 1999).
- 6.1 The bidder(s) accept the terms and conditions contained in the General Conditions of Contract as the minimum terms and conditions upon which Mpumalanga Department of Education is prepared to enter into a contract with the successful bidder(s).
- 6.2 The bidder submitting the General Conditions of Contract to Mpumalanga Department of Education together with its bid, duly signed by an authorised representative of the bidder.
- 6.3 The contractor who does not comply with the contract requirements can be terminated. Any maintenance works may during and after completion, be inspected, tested or analysed and may be rejected if found not to comply with the requirements of the contract. Such rejected maintenance works shall be held at the cost and risk of the contractor who shall, when called upon, rectify the defects immediately at his own cost and substitute them with supplies which do comply with the requirements of the contract.
- 6.4 Prices levied by the contractor for maintenance works performed under the contract shall not vary from the prices quoted in his/her bid. No variation in or modification of the terms of the contract shall be made except by written amendment signed by the parties concerned.
- 6.5 Maintenance works shall be made by the contractor in accordance with the time schedule prescribed by the Department in the contract. If at any time during implementation of the contract, the contractor encounters impediment shall promptly notify the Department in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the contractor's notice, the Department shall evaluate the situation and may at its discretion extend the contractor's time for

implementation, with or without the imposition of penalties, in which case the extension shall be ratified by the parties.

- 6.6 The Department may terminate this contract in whole or in part: (a) if the contractor fails to complete the maintenance within the period(s) specified in the contract, or within any extension thereof as granted by the Department. (b) if the contractor fails to meet any other obligation(s) under the contract; or (c) if the contractor, in the judgment of the Department, has engaged in corrupt or fraudulent practices in competing for or in executing the contract
- 6.7 If a force majeure situation arises, the contractor shall promptly notify the Department in writing of such condition and the cause thereof. Unless otherwise directed by the Department in writing, the contractor shall continue to render services of goods as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure event.
- 6.8 The Department may at any time terminate the contract by giving written notice to the contractor if he/she becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the contractor, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Department.
- 6.9 If any dispute or difference of any kind whatsoever arises between the Department and the contractor 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. If, after 30 days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Department or the contractor may give notice to the other party of his/her intention to commence with mediation. No mediation in respect of this matter may be commenced unless such notice is given to the other party. Should it not be possible to settle a dispute by means of mediation, it may be settled in a South African court of law.
- 6.10 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. The contract shall be interpreted in accordance with South African laws.

- 6.11 These are only minimum guidelines, exact quantities cannot be given or estimated at this stage and will be provided and confirmed by the management of the Department.
- 6.12 Bid prices are to **INCLUDE DELIVERY COST BY ROAD FOR MAINTENANCE IN ALL EDUCATION FACILITIES.**
- 6.13 Value Added Tax (VAT) is to be INCLUDED in the bid price.
- 6.14 All materials to be used during the project must have the mark of the South African Bureau of Standards (SABS) where applicable.
- 6.15 All prices shall be fixed for the duration of the contract.
- 6.16 All completed works will have a liability period of one (1) year, where the contractor will be liable for fixing the damages due to poor workmanship.
- 6.17 All works as contracted must be completed within specific period determined by the Department during contracting.
- 6.18 Final Payment shall be effected only after receipt of the following:
- a. A detailed invoice (Original and Signed)
 - b. Final Account
 - c. Close-out Report
 - d. Practical and Final Completion Certification
- 6.19 The MDoE reserves the right to:
- 6.19.1 Request further information from the bidder(s) anytime;
 - 6.19.2 Verify information and documentation of the respective bidder(s);
 - 6.19.3 Make sure that the bidder(s) has at his/her disposal, the necessary infrastructure to execute the contract to the satisfaction of the MDoE (prior to the awarding of the contract).
 - 6.19.4 Appoint more than one bidder,
 - 6.19.5 Cancel the bid or not to appoint any bidder(s);
 - 6.19.6 To reject work that does not meet the required standard;

6.20 The prospective service provider shall be served with a 30 days' written notice for the termination of contract in case of non- performance.

6.21 If it is shown that errors or shortcomings exist within the service provided; the prospective provider shall be notified in writing and shall be required to remedy such errors at no cost to the Department.

6.22 10% retention shall be deducted on any progress payment certificate, until the total deducted retention value equal 5% of the total contract / project value. At practical completion, half of the retention value to be released and the remaining half shall be released at final payment.

6.23 The date for practical completion is to be agreed prior to possession of the site. The penalty per calendar day is 0.05% of the contract sum.

6.24 All items which are not in the bill of quantities, a quotation will be sourced from a supplier and a 20% will be added as a markup.

6.25 Contract insurance to be effected by the contractor.

6.26 The bidder must ensure that the bid document is completed in a black ink on the official document(s) provided and not to be retyped.

**SIGNATURE OF BIDDER
OR AUTHORIZED PERSON**

DATE

SECTION D: BILL OF QUANTITIES (BOQ)

NOTE WELL (NB):

1. **The bidder must complete Annexure A – Bill of quantities (BOQ) attached to the bid documents.**
2. **Annexure B –Specifications & Methods, Guidelines to the BOQ.**
3. **The Department will not accept any retyped BOQ.**
4. **BIDDERS ARE OBLIGED TO GIVE CORRECT FIGURES OF PRICES. NO BIDDER(S) SHALL BE ALLOWED TO MAKE CHANGES/ CORRECTIONS/ ADDITIONS ON THE PRICING SCHEDULE.**

BIDDER SIGNATURE

DATE

ANNEXURE B SPECIFICATIONS AND METHODS

APPOINTMENT OF INFRASTRUCTURE TERM CONTRACTORS FOR THE MAINTENANCE OF ALL EDUCATION FACILITIES FOR THE MPUMALANGA DEPARTMENT OF EDUCATION FOR A PERIOD OF THREE (3) YEARS.



SPECIFICATION CATEGORY(s) SERVICE PROVIDER IS TENDERING FOR		
SPECIFICATION CATEGORY	DESCRIPTION	TICK (✓)
Specification 1	1A: Maintenance of General building "GB" and civil work "CE"	
	1B: Maintenance of water supply and drainage for building (General Building "GB" and "SO" wet services and plumbing).	
Specification 2	2: Maintenance of Electrical work - Building: (Electrical Engineering work "EB")	
Specification 3	3: Maintenance of Mechanical Engineering work ("ME")	

ANNEXURE B: SPECIFICATIONS AND METHODS

SPECIFICATION 1A: MAINTENANCE OF GENERAL WORKS & CIVIL WORKS.

1. REPAIR and MAINTENANCE OF CONCRETE STRUCTURES

1.1. Construction Repair Specification:

The work shall consist of removal of unsuitable concrete; surface and face preparation; forming; and furnishing, placing, finishing, and curing concrete repair material as required to repair structures designated as such in section 18 of this specification or as otherwise directed by the Engineer Education at schools and education facilities in Mpumalanga Province.

The following product category is applicable to this specification:

Concrete / Admixtures / repair slurries / release fluids (aka form-release gents)

1.2. Material

1.2.1. Aggregates shall conform to the requirements of Concrete Material Specification SANS 1200 G 1982, Aggregates for Portland Cement Concrete, unless otherwise specified. The grading of coarse aggregates shall be as specified in section 18, shown on the drawings, or as specified by the manufacturer of a proprietary repair material as needed.

1.2.2. Portland cement shall conform to the requirements of SANS 50197, Portland Cement, for the specified type. Only one brand of any type of cement shall be used in any single repair as defined in section 18 if needed.

1.2.3. Water used in mixing and curing of the concrete repair shall be clean and free from injurious amounts of oil, salt, acid, alkali, organic matter, or other deleterious substances. In general fit for human consumption.

1.2.4. Fly ash shall conform to the requirements of SANS 50450 Specification, Supplementary Cementitious Materials CEMII.

1.2.5. Air-entraining admixtures shall conform to the requirements of Sika Control-140 or similar chemical Admixtures for Concrete. If air-entraining cement is used, any additional air-entraining admixture shall be the same type as that in the cement. Only as directed by the Engineer Education

1.2.6. Chemical admixtures for water-reducing, retarding, or water-reducing and retarding shall conform to the requirements of the Manufacturer or as directed. Chemical Admixtures for Concrete.

1.2.7. Curing compound shall conform to the requirements of the Manufacturer as directed, Concrete Curing Compound.

1.2.8. Shotcrete, Shall have a compressive 28-day strength of at least 28 MPa or as directed.

1.2.9. Proprietary concrete repair material shall be subject to review and approval of the engineer before use. The material shall meet all specified salient features for repair material and not react detrimentally with the existing concrete or associated member of the structure being repaired and in general be Sika or as directed by the Engineer Education. It is preferred not to use bitumen or related unless otherwise directed by the Engineer Education.

1.2.10. Replacement concrete repair material shall be a material that consists essentially of a binding medium of Portland cement and water that will meet all the specified salient features for repair material and not react detrimentally with the existing concrete or associated members of the structure being repaired. This may be, but is not limited to, a conventional concrete mix with or without admixtures, shotcrete, preplaced aggregate concrete, or grout.

1.3. Preparation of areas to be repaired

All loose, cracked or otherwise unsuitable or defective concrete shall be removed from the existing structure as shown on the drawings or specified in section 18. The final extent of removal shall be determined by the engineer after inspection of prepared surfaces.

Feathered edges at the surface are not permitted. The surface edge of the repaired area shall be cut with a saw, drilled, or chipped to leave a sharp edge with a minimum of a 15 mm depth face perpendicular to the face of the wall.

The top side of the repair hole shall be shaped to a uniform, fairly straight face that is sloped upward on a 1-inch rise for each 3 inches of depth of cut toward the face from which the

repair material will be placed. The repair hole shall be conical in shape with the large end at the surface from which repair material will be placed.

The bottom and vertical or near vertical sides of the hole shall be cut sharply and approximately perpendicular to the face of the wall. All interior corners shall be rounded to a minimum radius of 20mm.

Where reinforcement is encountered, the concrete directly in contact with the sides of the reinforcement shall be removed to provide at least 10mm clear distance between the reinforcement and the insitu concrete.

Before the concrete repair material is placed, all oil and grease shall be steam or solvent cleaned from all reinforcement and surfaces to which the repair material is required to bond. If solvent cleaning is used, solvents and solvent residue shall not impair the repair material or its bonding strengths.

After removal of all oil and grease, the reinforcement shall be cleaned to remove any loose, flaky rust, mill scale, and other coatings or foreign substances that would impair bonding of the repair material to the reinforcement. The prepared faces of the repair hole shall be cleaned by high pressure water jets or compressed air jetting with water to remove all loose particles and dust. The repair hole shall be free of chips, sawdust, debris, free water, ice, snow, rust, or other harmful substances or coatings.

1.4. Disposal

Unless otherwise specified, all concrete and other debris resulting from the repair works shall be removed from the site and disposed of at location(s) of the contractor's selection to the satisfaction of the Engineer Education. The contractor is responsible for complying with all local, Provincial, and Government regulations pertaining to the disposal of such waste.

1.5. Selection of concrete repair material

Only one brand of proprietary concrete repair material shall be used in any single repair operation unless compatibility between brands can be proven with actual test or performance data and there is a compelling reason for using more than one repair material.

A conventional concrete mix to be used as a replacement concrete repair material shall be ready-mix concrete that meets all the specified salient features for repair material and

conforms to ASTM C94. Option A from section 5 of ASTM C94 or the relevant BS code shall apply.

The contractor is responsible for the selection and correct application of the concrete repair material. At least 14 days before installation, the contractor shall provide the engineer for approval all technical data for the repair material. The technical data shall include the design mix and test results to verify satisfactory conformance to the salient feature requirements. If a proprietary material is used, the manufacturer's recommended preparation, use, and installation specifications shall also be submitted 14 days before installation. Concrete repair material shall not be placed before approval and acceptance by the Engineer Education.

Concrete repair material shall have the following salient features:

- a. Be a cementitious material that after hardening will remain stable in wet and moist environments and will not dissolve in water.
- b. A 28-day compressive strength of 35MPa or greater when tested according to ASTM C39 or EN196-1:1995, unless otherwise specified.
- c. Bond strength of the repair material shall be tested in accordance with ASTM C882 procedures for type V material and shall have the minimum strength of 35MPa at 28 days unless otherwise specified.
- d. Shall be suitable for application at the minimum temperature of 55 degrees Fahrenheit.
- e. Shall not contain chlorides, added gypsum, added lime, or high alumina cements. Shall be noncombustible both before and after cure.
- f. Color shall be concrete gray unless otherwise specified.
- g. Shall not produce a vapor barrier material and shall be thermally compatible with concrete.
- h. Shall have a freeze-thaw resistance equal to or greater than 30MPa, air-entrained concrete designed for severe exposure conditions according to ACI Standard Practice 211.1, unless otherwise specified.
- i. Shall exhibit no shrinkage at 28 days and no more than 0.4 percent expansion at 3, 14, or 28 days after placement

Additional site specific requirements for materials are defined in section 18 or as directed by the Engineer.

1.6. Handling and measurement of material

For all types of repair material, the cementitious components shall be kept dry and protected from contamination until incorporated in the mix. Broken containers or bags of premeasured and premixed components will not be accepted.

Handling and measurement of conventional concrete mix repair material shall conform to ASTM C94.

Handling and measurement of prepackaged proprietary material shall follow the manufacturer's recommendations and requirements. Handling and measurement of components that are not prepackaged or premeasured shall be in accordance with the following requirements and the manufacturer's requirements. A copy of the manufacturer's written requirements will be provided to the engineer 14 days before installation.

The handling and measurement requirements are:

- a) Aggregates shall be stored or stockpiled in such a manner that separation of coarse and fine particles of each size is avoided and that various sizes do not become intermixed before proportioning. Methods of handling and transporting aggregates shall be such as to avoid contamination, excessive breakage, segregation or degradation, or intermingling of various sizes.
- b) Scales for weighing aggregates and repair material components shall be beam type, electronic, or springless dial type. They shall be accurate within 0.4 percent under operating conditions. All exposed fulcrums, clevises, and similar working parts of scales shall be kept clean and properly maintained.
- c) The quantities by weight of repair material components and aggregates in each batch of material, as indicated by the scales, shall be within the following percentage of the required batch weights:
 - i. Aggregates \pm 2 percent
 - ii. Other components \pm 1 percent

Measuring tanks for mixing water or liquid shall be of adequate capacity to furnish the maximum amount of mixing water or liquid required per approved batch. Measuring tanks shall provide the means for readily and accurately measuring the amount of water or liquid required. Accuracy of water measurement shall be plus or minus 1 percent.

1.7. Forms

Forming material shall be wood, plywood, steel, or other approved material and shall be mortar tight. The forms and associated falsework shall be substantial and unyielding and shall be constructed so that the finished repair conforms to the specified dimensions and contours. Form surfaces shall be smooth and free from holes, dents, sags, or other irregularities.

Before the forms are set into place, the surface of the form shall be lined with plastic sheeting or coated with a nonstaining form release agent compatible with the repair material being used. This prevents bonding of the repair material to the forms. If the forms are lined with plastic, the plastic shall be stretched taut to remove all wrinkles and folds and maintain a smooth condition during the placement and curing of the repair material.

Metal ties or anchorage within the forms shall be equipped with cones, she-bolts, or other devices that permit their removal to a minimum depth of 1 inch without injury to the concrete or repair material. Ties designed to break off below the surface of the concrete shall not be used without cones. It is preferred to use either Peri or Doka anchorages

All visible edges and corners included in the repair location shall be shaped the same as adjacent or similar edges or corners of the structure being repaired.

Forms shall be constructed to facilitate consolidation and complete filling of the repair void, and, when all surfaces are formed, to facilitate applying pressure to the repair material immediately after placement.

1.8. Mixing, conveying, and placing

Proprietary repair material shall be mixed and conveyed to the forms according to manufacturer's written recommendations. Material that cannot be placed within the manufacturer's time requirements shall not be placed in the forms and shall be discarded offsite at locations selected by the contractor to the satisfaction of the Engineer Education.

Concrete repair material shall not be placed until the subgrade, forms, and steel reinforcement have been inspected and approved by the Engineer Education or as directed by same.

The contractor shall have all equipment and material required for curing available at the site ready for use before placement of repair material begins.

Initially concrete repair material shall be placed in the presence of the engineer or until such a time as the Engineer is convinced of the proficiency of the contractor to execute according to specification. The contractor shall give reasonable notice to the engineer each time concrete repair material is scheduled for placement. Such notice shall be adequate to allow the engineer sufficient time to review and approve the subgrade, forms, steel reinforcement, and other preparations for compliance with the specifications as he may deem fit. Other preparations include, but are not limited to, the mixing and delivery equipment and system, placing and finishing equipment and system, schedule of work, workforce, and heating and cooling facilities as applicable. All deficiencies are to be corrected before concrete repair material is mixed for placement.

The concrete repair material shall be deposited as closely as possible to its final position in the forms and shall be worked into the corners and angles of the forms and around all reinforcement and embedded items in a manner to prevent segregation of aggregates or excessive laitance. The depositing of repair material shall be regulated so that the material can be consolidated with a minimum of lateral movement.

Unless otherwise approved, concrete repair material shall not be dropped from a height greater than recommended by the manufacturer or 500mm, whichever is less.

Unless otherwise specified, all concrete repair material required for each repair location shall be placed in one continuous operation. Successive layers or batches shall be placed at a rate sufficient to prevent setting of material between successive layers.

At the time of placement of repair material, the existing concrete surface shall be damp and without free water unless otherwise specified or required by the manufacturer of the proprietary repair material being used.

1.9. Consolidating

Concrete repair material shall be consolidated to ensure positive contact of repair material with all repair surfaces and reinforcing steel, to remove entrapped air pockets and voids, and to maximize the density of the repair material.

Vibration shall not be applied directly to the reinforcing steel or other embedded items, the forms, or to concrete repair material that has hardened to the degree that it is no longer plastic. The use of vibrators to transport concrete repair material in the forms or conveying equipment is not allowed.

Proprietary repair material shall be consolidated in accordance with the manufacturer's recommendations.

Unless otherwise specified in section 18, conventional concrete mix repair material shall be consolidated in the following manner:

a) Conventional concrete mix repair material shall be consolidated with internal type mechanical vibrators capable of transmitting vibration to the concrete at frequencies not less than 8,000 impulses per minute. Vibration shall be supplemented by spading, rodding, or hand tamping as necessary to ensure smooth and dense concrete along form surfaces, in corners, and around embedded items.

b) The location, manner, and duration of the application of the vibrators shall be such as to secure maximum consolidation of the concrete repair material without causing segregation of the mortar and coarse aggregate and without causing water or cement paste to flush to the surface. Vibration shall compact the concrete repair material and bring it into intimate contact with the forms and embedded items while removing voids and pockets of entrapped air.

The contractor shall provide sufficient vibrators to properly consolidate the concrete repair material immediately after it is placed. Vibration shall be applied to the freshly deposited concrete repair material by slowly inserting and removing the vibrator at points uniformly spaced and not farther apart than twice the radius of action (i.e., the distance that the concrete repair material is visibly effected by the vibration). The area visibly effected by the vibrator shall overlap the adjacent, just vibrated area. The vibrator shall extend vertically into the previously placed layer of fresh concrete repair material at all points. This ensures an effective bond between layers. In thin slabs the vibrator(s) should be sloped toward the horizontal to allow operations in a fully embedded position.

c) The internal vibration of thin slabs (less than 200mm) may be augmented using surface vibrators when approved by the engineer. Consolidation of the concrete repair material from the top surface down, along with a leveling effect to assist the finishing

operation, may be provided by vibrating screeds, plate or grid vibratory tampers, or vibrating roller screeds. The contractor's plan, including equipment selection and specifications, shall be submitted to the contracting officer for approval at least 5 days before concrete repair material placement using surface vibrating methods.

1.10. Removal of forms

Unless otherwise approved, forms shall not be removed sooner than the minimum time recommended by the manufacturer of the repair material or 48 hours, whichever is greater.

Forms shall be removed in a manner to prevent damage to the concrete repair material. Supports shall be removed in a manner that permits the repair material to take the stresses caused by its own weight, uniformly and gradually.

1.11. Finishing formed surfaces

All repaired surfaces shall be true and even, and shall be free of open or rough spaces, depressions, or projections. Immediately after the removal of forms:

- All bulges, fins, form marks, or other irregularities that in the judgment of the engineer will adversely affect the appearance or function of the structure shall be removed. All form bolts and ties shall be removed to a minimum depth of 20mm below the surface of the repair. The cavities produced by form ties and all other holes of similar size and depth shall be thoroughly cleaned. After the interior surface has been kept continuously damp for at least 3 hours, the cavities shall be carefully repaired with a compatible patching mortar or packed with a dry patching mortar mixed not richer than one part cement and three parts sand. Dry patching mortar shall be mixed in advance and allowed to stand without addition of water until it has reached the stiffest consistency that will permit placing. Manipulation of the mortar with a trowel during this period shall be performed as required to ensure the proper consistency.

Holes resulting from form bolts or straps that pass through the wall shall be entirely filled with mortar to form a dense, well-bonded unit. The mortar shall be tamped into place with a rod slightly smaller than the hole being filled. The hardened mortar shall be sound and free from shrinkage cracks.

All repaired areas shall be cured as specified in section 13.

1.12. Finishing unformed surfaces

All exposed surfaces of the concrete repair material shall be accurately screeded to grade and finished to match adjacent surfaces, unless otherwise specified. Water shall not be sprinkled or in any manner added to the surface of conventional concrete mix repair material during finishing operations.

Proprietary repair material shall be finished in accordance with the manufacturer's recommendations.

Joints and edges on unformed surfaces shall be shaped the same as adjacent or similar edges or corners of the structure being repaired.

1.13. Curing

The repair material shall be protected against premature surface drying, rainfall, and freezing for at least 72 hours. For proprietary repair material, the manufacturer's recommendations for curing shall be followed. Replacement concrete repair material shall be protected from drying and freezing for 7 days after placement during winter months.

If curing compound is used, it shall be nonsolvent type and shall conform to ASTM C309, Type 1-D, Class B, nonpigmented with a fugitive dye, unless otherwise specified. Curing compounds shall not be used if specifically prohibited by the proprietary repair material user guides.

1.14. Removal or repair

When the repaired area is honeycombed, damaged, or otherwise defective, the contractor shall remove and replace the defective repair. The engineer determines the required extent of removal, replacement, and/or repair. Removal and repair activities shall be performed only after inspection by the Engineer Education.

1.15. Concrete repair in cold weather

For proprietary repair material, the manufacturer's recommendation together with the requirements below will be followed.

For conventional concrete mix repair material, the requirements below shall be followed.

Concrete repairing in cold weather shall be performed in accordance with ACI 306, Cold Weather Concreting, of which some specific interpretations are set forth below.

Cold weather concrete repairing shall apply when the 3-day average daily outdoor temperature at the job site is less than 10 degrees Celsius. When cold weather conditions exist on the job site, the following additional provisions shall apply:

- a. The temperature of the concrete repair material at the time of placing shall not be less than 15 degrees Celsius or more than 25 degrees Celsius. The temperature of the mixing water shall not exceed 40 degrees Celsius when the cement is added nor shall aggregate temperature exceed 40 degrees Celsius.
- b. Concrete structures shall be immediately protected after placement of the concrete repair material. The temperature of the concrete repair material at the concrete surface shall be maintained at not less than 10 degrees Celsius nor more than 30 degrees Celsius during the 7-day protection period.
- c. Proper methods of covering, insulating, housing, or heating concrete structures shall be implemented.
- d. Exhaust flue gases from combustion heaters shall be vented to the outside of the heating enclosure.
- e. Following the completion of the protection period, the concrete repair material shall be allowed to cool gradually. The concrete repair material surface shall not have a temperature decrease of more than 20 degrees Celsius in a 24-hour period.
- f. Concrete repair material placed during cold weather not meeting the cold weather definition above shall be protected by proper methods for a minimum of 24 hours after placement.

1.16. Concrete repair in hot weather

For proprietary repair material, the manufacturer's recommendation together with the requirements below shall be followed.

For replacement concrete repair material, the requirements below shall be followed.

For the purpose of this specification, hot weather is defined as any combination of the following conditions that may impair the quality of the freshly mixed and/or hardened

concrete repair material by accelerating the rate of moisture loss and rate of cement hydration, or any other action that could contribute to detrimental results. These conditions are:

- High ambient temperature
- High concrete temperature
- Low relative humidity
- Wind velocity
- Solar radiation

Whenever these conditions exist or when climatic conditions are such that the temperature of the concrete repair material may reasonably be expected to exceed 30 degrees Celsius at the time of delivery to the work site or during the placement operations, the following provisions shall apply:

- a. The contractor shall maintain the temperature of the concrete repair material below 00 degrees Celsius during mixing, conveying, and placing.
- b. The exposed concrete repair material surface that tends to dry or set too rapidly shall be continuously moistened using fog sprays or other suitable means to maintain adequate moisture during the period between placement and finishing, and following finishing. Water shall not be sprinkled or added directly to the surface of the concrete repair before or during finishing.
- c. Finishing of slabs and other exposed or nonformed surfaces shall be started as soon as the condition of the concrete repair material allows and shall be completed without delay in one shift.
- d. The formed surface shall be kept completely and continuously moist for the duration of the curing period or until the application of the curing compound is completed.
- e. Concrete repair material surface, especially flat-work placed with large surface areas, shall be covered with wet burlap or other similar material as soon as the concrete repair material has sufficiently hardened and shall be kept continuously moist for at least 24 hours for the initial curing period. This protective method shall be continued for the required curing period or until the application of curing compound is completed.
- f. Moist curing may be discontinued before the end of the curing period if white, or other color selected in section 18, pigmented curing compound is applied immediately.

g. Under extreme conditions of high ambient temperature, high concrete temperature, low relative humidity, wind velocity, and exposure to solar radiation, the engineer may:

- I.Restrict placement to the most favorable time of day.
- II.Restrict the depth of layers to assure coverage of the previous layer while it will still respond readily to vibration
- III.Suspend placement until conditions improve.
- IV.Require removal of forms, repair, patching, and reapplication of wet curing by small areas at a time.

1.17. Measurement and payment

Method 1—For items of work for which specific unit prices are established in the contract, concrete repair volume is determined by computing the volume to the nearest 3000 cubic centimeter between the neatness shown on the drawings and the approved pay limit.

Method 2—For items of work for which specific unit prices are established in the contract, concrete repair volume is determined by counting the number of premeasured, prepackaged units properly used to perform the approved repair. A premeasured, prepackaged unit is defined as a composite of all components and additives required to be mixed together before the repair material can be properly placed.

When only a part of a unit is needed to complete the filling of a repair void, it is counted as one unit. Units required to fill voids outside the approved pay limits are not counted for payment. Units mixed, but not placed in a repair void because of the contractor's improper construction operation or management are not counted.

Method 3—For items of work for which specific unit prices are established in the contract, concrete repair area is determined by measuring the surface treated and computing the area to the nearest 30mm square.

All methods—The following applies to all methods of measurement and payment:


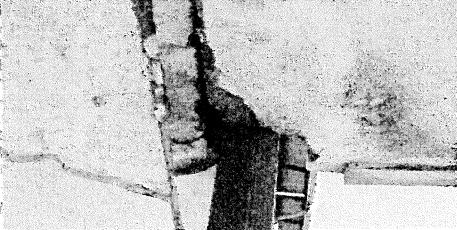


Payment for concrete repair is made at the contract unit price for the item. The payment for repair constitutes full compensation for all labor, material, equipment, transportation, tools, forms, false-work, bracing, and all other items necessary and incidental to the completion of the repair work.



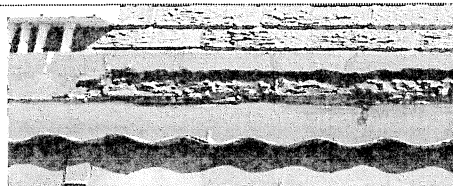

Repair material required to fill voids outside the neatness or pay limits not directed or approved by the engineer and resulting from excessive removal by the contractor, damages caused by the contractor's activities, or improper construction operations as determined by the contracting officer is not measured nor paid for under this item.

Compensation for any item of work described in the contract, but not listed in the bid schedule is included in the payment for the item of work to which it is made subsidiary. Such items and the items to which they are made subsidiary are identified in section 18 of this specification.

1.18. Items of work and construction details

In order to simplify repair types and assist with payment rates the following are given by way of example:

 <p>General damage repair : A</p>	 <p>Construction joint repair: B</p>
 <p>Specialist repair (exposed rebar and joint considerations) : C</p>	 <p>Specialist repair (Structural) : D</p>

 <p>Plaster repair (not concrete / not structural): E</p>	 <p>Slab repair : F</p>
 <p>Structural repair with exposed rebar : G</p>	 <p>Advanced structural repair : H</p>

1.19. MATERIALS

All materials used shall comply with the applicable industry standards and work shall be done according to industry–accepted practices. Special attention is given to the following materials when used in the works

1.19.1. Cement

Cement shall comply with SANS 50197 – 1. Cement stored on site shall be, as far as is practicable, stored in a dry, weatherproof, enclosed shed / storage area with dry floors.

1.19.2. Aggregates

Both coarse aggregate (stone) and fine aggregate (sand) shall comply with the relevant requirements of SANS 1083. The coarse aggregates shall have a nominal size of 13 mm or 19 mm, or as otherwise specified.

Aggregates to be used in concrete shall be stored separately to prevent contamination.

1.19.3. Admixtures

Admixtures may only be used in ready-mixed concrete supplied to the site.

1.19.4. Concrete

Hand mixing of concrete shall be done on a surface free of contaminants. The sand shall be thoroughly mixed with the cement before adding water and stone. The addition of water to the mix shall be controlled such that the resulting concrete shall be without segregation of materials or excessive bleeding. Concrete shall only be mixed in the quantities required for immediate use. Concrete that has set shall be discarded.

Water to be used in mixing concrete shall be clean and free from clay, silt, oil, acid, alkali, organic and other matter which would impair the required strength and durability of the concrete.

Ready-mixed concrete used in the works shall be mixed in accordance with the requirements of SANS 878.

The grade of concrete to be used shall be as specified in the scope of works / instructions issued.

1.20. ROOFING

Looking at roofs, gutters and downpipes is arguably the quickest way to form an impression of the state of repair or disrepair of a building, therefore it is important that; these elements should be cleaned regularly and be kept free of leaves, debris or other blockages.

- Securing of roof: roof trusses &/or roof beams shall be fixed at each support to walls with ties of 1,6mm thick galv. hoop iron 32 mm wide, built 750mm deep into brickwork, wrapped over truss and fixed with four galv. nails 40mm long all to engineer's specifications and details.
- Wall plate: 38x114mm SA Pine grade V4 (SABS 563) treated with creosote (SABS 1290) and bedded on cement mortar, strap where necessary.
- Timber roof trusses: See SABS 0243. The design, manufacture and erection of timber trusses.

i) Material:

- a) Grade of species of timber: Sawn Softwood grade 6
- b) Preservative treatment of timber: creosote

- c) Type of timber connections that may be used: connector plates manufactured from 1mm pitch high quality steel with 275g/m² galvanising.
- d) Spacing: to roof plan.
- ii) Design: The trusses and bracing must be designed by a competent professional engineer according to SABS 0243, and be prefabricated by an approved specialist firm who must have a valid certificate of competence of the Institute of Timber Construction, under cover of a written guarantee. The design and guarantee must be submitted for approval before any work is started.
- iii) Erection: Erect and fix the roof structure according to SABS 0243.
- iv) Certificate: Supply a certificate after erection, signed by the engineer who designed the structure, stating that the whole roof structure has been fabricated and erected to SABS 0243.
- v) Timber: Bracing, wall plate Softwood grade V4 (SABS 563), painted with creosote (SABS 1290)
- Ceiling bracing: Std. 38x38 SA Pine complying with SABS Specification 653, fixed at 400mm centres in one direction and around the edges of ceilings. Install additional timber for ceiling fan.
 - Waterproofing of Roof Slabs: Apply Bituthene 3000 as supplied by Darex Africa (Pty) Ltd to manuf. spec. on dust-free screed.
 - Steel Sheeting Spec: Safintra 0.50mm SAFLOK 700 concealed fix profile with an effective cover width of 700mm roof sheeting sloped as on existing roof structure or as specified by MDOE architect.
 - Steel Flashing: Stop endings must be formed at the apex and the pan turned down at the eaves to form a drip.
 - Provide polyethylene 'Polyclosure' by 'SONDOR' to form a dustproof, bird-proof & waterproof weather resistant seal to the eaves end edge profile of all steel roof sheeting.
 - Everite FC Barge Boards 10mm thickness with sizes to match existing or as per MDOE architect's Spec. Fixing according to manufacturer's specification. Provide self-adhesive acrylic impregnated polyurethane foam 'Lapseal' by 'SONDOR'

sealing strip for waterproofing and Dust-proofing the side and end laps of all steel roof sheeting.

- Everite Nutec fascia boards 150x3600x10mm Thick. Product Code: 041-004

1.21 Ceilings

Ceilings require little or no maintenance. However, dust that settles on top of the ceilings may cause over time soil marks on the bottom of the ceiling accentuating the brandering to which the ceiling is fixed. Water marks, caused by leaks in the roof may also occur. Should that happen the cause (a possible roof leak) must be immediately found and rectified.

1.21.1 **Ceiling specification A:** See attached. Rhinoboard used is 9mm Gypsum ceiling boards.

9mm Gypsum board ceiling with Rhino Lite skim coat flush plaster to smooth even finish. Ceiling complete with aluminium shadow line at all cornice junctions with walls or beams. Ceiling fitted to brandering at 450mm centres. Ceiling finished with primer, undercoat and paint – colour to MDOE architect spec. Ceiling may need to be suspended down to lower level in certain instances, check ceiling levels on sections. Ceilings below roof tiles to receive 50mm mineral fibre roof insulation.

1.21.2 **Ceiling specification B:** See attached. Rhinoboard used is 6,4mm Gypsum ceiling boards. 6,4mm Gypsum ceiling boards fitted with Bishop connecting strips. Ceiling nailed up to 38mm x 38mm SA pine batons at 450mm centres. Ceiling with primer, undercoat and paint finish. Colour – white. Ceiling complete with 75mm gypsum or polystyrene cove cornice. Ceiling with 135mm roof insulation (according to energy zone, see table above), as before.

1.21.3 **Ceiling specification C:** See attached. Rhinoboard used is Moisture Resistant 12.5mm

Gyproc Skimmed Ceiling System 12.5 mm - Timber Brandering

System Overview - 1x Rhinoboard® Moisture Resistant™ 12.5 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Greentag Level B) fixed to Timber Brandering using Gyproc Grabber Screw 32 mm at maximum 150

mm centres. All joints should be staggered. Spot/cover all the screw heads using Gyproc RhinoGlide®. Timber Brandering shall be spaced at 600 mm centres. Timber Brandering shall be suitably fixed to the joist/tie beam. Apply Gyproc Rhino Tape® to all joints and internal corners. Install Gypframe® Corner Bead to all external corners. Cover Gyproc RhinoTape® with 1 layer of Gyproc RhinoLite® Multipurpose/ RhinoLite® Natural Plus®/ RhinoLite® CreteStone® (locally manufactured, Greentag Level B).

Wall Angle – Fix Gyproc Plaster Trim 12.5 mm (locally manufactured) to the wall using fixings at 300 mm centres. Install 135 mm thick flexible, non-combustible, lightweight Aerolite® insulation material between the roof trusses and over brandering/purlins in a completed roof and ceiling system. Install in accordance with the manufacturers detail and specification.

1.22 Thermal Insulation - System Information

Climatic zone	1	2	3	4	5	5H	6	7
Isover Aerolite® thickness (mm)	135	135	135	135	135	100	135	135
R-value of Aerolite®	3.38	3.38	3.38	3.38	3.38	2.5	3.38	3.38
Min. required total R-value	3.7	3.7	3.7	3.7	3.7	2.7	3.7	3.7

Where required, for improved thermal and/or acoustic performance, lay Isover insulation (locally manufactured, non-combustible to SANS 10177-5, SABS Mark) onto the ceiling.
Minimum Thickness: 100 mm/ 135 mm (according to energy zone, see table above)

1.23 WINDOWS & DOORS

Doors and locks are subjected to heavy use and consequent wear and tear which necessitates vigilant attention. Normal wear and tear apart, vandalism has also become a cause for concern and suitable preventative measures should be taken. For example, door hinges and locking mechanisms should be properly oiled at regular intervals.

- Window sill: External: 25mm sloped plaster sealed & waterproofed with 'COPROX' prior to paint finish, colour to architect.
- Locks and furniture: to SABS 4. No key may fit more than one lock. Provide two keys with every lock. Provide ironmongery including screws as shown on schedules. Keys to be handed over on practical completion.

- Glass: All glazing shall comply with SABS 0137 & NAAMSA/SAGGA regulations. SEE WINDOW AND DOOR SCHEDULES FOR GLASS SIZES AND FINISH.
- Exterior Timber Doors: **SILKWOOD M2 Sealer** - Prepare and apply 2 coats. Apply strictly to manuf. specification. DOOR: Standard 2032 x 813 x 44mm thick Solid MERANTI Door with Horizontal grooved pattern. DOOR FINISH: Sand door down until smooth, apply 1x coat Silkwood M2 Timber care sealer and 2x coats of clear Teak varnish.
- Interior Timber Doors: Apply two coats oil-based 'SILKWOOD' timber sealer to all interior timber surfaces. Ensure surfaces are dust free and dry prior to application as per manufacturer's recommendations.
- Interior & Exterior Metal (*Door Frames*): Unpainted: prepare and apply one coat of Merit Universal undercoat (UC.1). Apply one or two coats of PLASCON Universal Enamel Matt Paint (M) colour – “Battleship Grey” to MDOE architect’s Spec.
- Standard External Ironmongery Spec. - Sambava handles with cylinder escutcheons / QS6055/1-cylinder latch lock and deadbolt / QS1108 thumb-turn cylinder / Pair of QS4417 2mm stainless steel hinges / QS4422 stainless steel doorstop. 5-year warranty on all QS products.

1.24 PAINT WORK

The contractor and subcontractors are to be qualified and have full knowledge, skills and proper tools to perform the work. All work to meet or exceed minimum standards/methods of the trade, manufacturer’s specifications as well as local and national laws and standards that apply to their work. Each trade is to be fully versed in the standards and methods of their trade. All materials should be SABS approved.

1.24.1 External walls inspection:

1. Look for cracks and water ingress
2. Find source of ingress
3. Check for peeling paint and plaster problems
4. Check for bushes and shrubs touching the exterior of the building
5. Check for ponding of water next to buildings.

1.24.2 External walls maintenance:

1. Repair cracks and apply sealant and paint on external surface.

1.24.3 Internal walls inspection:

1. Check for cracks and damp problems.
2. Check for peeling paint and plaster problems.
3. Check condition of paint.

1.24.4 Internal walls maintenance:

1. Wash walls with sugar soap.
2. Repaint internal walls.

NOTE: COC documents requested after completion and copies provided to school and head office:

1. Signed Certificates of Compliance (CoC) from all trades involved in the maintenance of paintwork including visual inspection, testing certificates.
2. Warranty for paint.
3. Maintenance procedures/manuals of paint work.

SPECIFICATION 1B: MAINTENANCE OF WATER SUPPLY & DRAINAGE FOR BUILDING

1. PLUMBING AND DRAINAGE

The contractor and subcontractors are to be qualified and have full knowledge, skills and proper tools to perform the work. All work to meet or exceed minimum standards/methods of the trade, manufacturer's specifications as well as local and national laws and standards that apply to their work. Each trade is to be fully versed in the standards and methods of their trade. All materials should be SABS approved.

1.2. Suggested Inspection activities / Preventative Maintenance activities:

1.2.1. Sanitation facilities and sanitary fittings inspection:

1. Check for leaking taps, pipes and toilets.
2. Inspect tub and sink areas for leaks.
3. Check serviceability of flushing toilets.
4. Inspect floors and walls for moisture and possible leaks.
5. Inspect for proper ventilation in ablution / toilets areas.
6. Check hot and cold water supplies
7. Check hot water geyser if any for functioning properly.

1.2.2. Sanitation Maintenance activities:

1. Repair all leaks as required.
2. Clean gullies and traps.
3. Service and maintain flushing toilets and urinals.
4. Maintain sink, wash basins, showers and drinking fountains.
5. Replace parts in problem areas like ablutions and toilets if necessary.

1.3. SEWERAGE

1.3.1. Sewerage inspection:

1. Check that septic tanks and French drains are functioning well.
2. Check that manhole covers are present and seal properly.
3. Check the general condition of the pipes and connections.
4. Check the frequently for pipe blockages and investigate what caused the problem.

1.3.2. Sewerage maintenance:

1. Eliminate frequent blockages and replace damaged pipes.
2. Repair pipe connections.
3. Open and repair French drains and provide new ones where necessary.

1.4. STORM WATER

The works shall comprise all maintenance activities associated with the management of stormwater, including but not limited to the following:

- Unblocking of blocked stormwater pipes and drains;
- Repair / removal and replacement of damaged stormwater pipes;
- Repair / replacement of roof gutters and downpipes
- Clearing / unblocking of retaining wall weep-holes
- Replenishing of free - draining materials behind retaining walls
- Clearing / repair / replacement or installation of concrete channels
- Unblocking, installation of stormwater catch pits.
- Repair / installation of concrete aprons.

All works shall be as deemed necessary by the Department's Built Environment Professional.

1.4.1. Storm water inspection:

1. Check that storm water inlets are not obstructed and manholes are clean.
2. Check that storm water channels are clean and free from dirt.
3. Check that storm water runoff is effective.

1.4.2. Storm water maintenance:

1. Clean storm water channels, grids and manholes and repair where necessary.

1.5. WATER SUPPLY AND RETICULATION

1.5.1. Water supply inspection:

1. General inspection for leaks and breakages.
2. Check water storage tank water levels and storage capability and water quality.
3. Check water booster pump function.

1.5.2. Water supply maintenance:

1. Maintain shut-off valve.
2. Clean and maintain water storage tanks.
3. Carry out repairs to the water network.
4. Maintain or replace booster pumps if faulty.

1.6. BOREHOLE PUMP

1.6.1. Borehole pump inspection:

1. Check that borehole pump is working effectively and yielding enough water.

1.6.2. Borehole pump maintenance:

1. Carry out repairs to pump and piping as necessary.

1.6.3. COC documents requested after completion and copies provided to school and head office:

1. Signed Certificates of Compliance (CoC) from all trades involved in the maintenance of sanitation features / fittings including visual inspection, testing certificates such as pressure testing, leak testing and water-tightness testing as well as equipment alignment.
2. Warranty for new sanitary fittings.
3. Maintenance procedures/manuals of new sanitary fittings.

1.7. ROOF GUTTERS

Works comprising the replacement of damaged roof gutters shall include the following were warranted and as specified by the Department's Built Environment professional:

- Gutter bodies
- Gutter brackets
- Stop ends
- Downpipes, including downpipe cleats

The manufacturer's specifications for all materials used in the replacement of damaged roof gutters shall be adhered to.

SPECIFICATION 2: MAINTENANCE OF ELECTRICAL WORKS AND

1.1. General electrical work

The scope of the required electrical maintenance work includes, but is not limited to, the following:

- a) Conducting maintenance on the medium voltage (1kV - 33kV) electrical network, which involves servicing pole-mounted transformers and miniature substations. Works on pole mounted transformers and miniature substation shall include, but is not limited to, checking oil leaks and oil levels.
- b) Carrying out maintenance and repairs on standby generators, including changeover control panel.
- c) Testing, repairing, or replacing Uninterruptible Power Supply (UPS) units and their batteries. Work on the UPS shall include, but is not limited to, checking battery electrolyte and top up if needed, recording the UPS' output voltage, measuring and recording the battery float charge voltage, checking and cleaning of battery terminals. The tests performed shall include, but not limited to, performing operational tests on overload checks, loss of input, on simulations of faults and on all alarm shutdown functions.
- d) Testing of transformers. The tests performed shall include, but not limited to, insulation resistance tests and voltage ratio tests.
- e) Testing miniature substation. The tests performed shall include, but not limited to, insulation resistance tests, voltage ratio tests
- f) Testing standby generator
- g) Performing maintenance and service for solar panels including inverters and batteries.
- h) Performing maintenance and service for area lighting.
- i) Performing maintenance on the low voltage electrical network, encompassing both single-phase and three-phase systems. This includes servicing Low voltage (LV) panels and kiosks. Work on the LV panels will include, but is not limited to, checking that jumpers from busbars to switchgear are the correct size and current carrying capacity, checking that all panel instruments and metering equipment are in working order and correctly installed.

- j) Providing maintenance and service for distribution boards. The required work shall include, but is not limited to, rewiring distribution boards (DBs), replacing DBs, checking that all switchgear and circuits are correctly labelled, ensuring that all covers and panels are in place, verifying that there is no access to live parts, and confirming that all screws are properly fitted.
- k) Tracing, locating, and repairing faults in underground electrical cables for both medium and low voltage systems.
- l) Identifying and rectifying faults in the electrical wiring of buildings, either through repairs or replacements.
- m) Replacing electrical installations within buildings, such as light fittings, lights, socket outlets, and wiring/cables, is part of the work. This shall include, but is not limited to, checking socket outlets and air conditioning isolators for damage and replacing them where necessary. Additionally, all sockets and circuit outlets will be checked to ensure proper labelling.
- n) Adjusting, maintaining, repairing, and replacing tubes, fuses, circuit breakers, isolators, starter switches, and electrical wiring from the main incoming isolator.
- o) Inspecting electrical reticulation, distribution boards, cable ducts, trenches, wire ways, lighting, and power points.
- p) Ensuring that live electrical equipment is inaccessible, electric circuits are protected, and lighting and power systems are operational.
- q) Performing maintenance and service of the lightning and earthing systems.
- r) Performing maintenance and service for telemetry systems.
- s) Performing maintenance and service for electronic security systems including Close circuit television (CCTV), Public address system and access control systems (If applicable).
- t) Performing maintenance and service for information and communications technology (ICT) systems including telephone and data points (If applicable).
- u) Issuing a certificate of compliance as and when required.

No maintenance work should be carried out without obtaining prior written approval from the Electrical Engineer/Mechanical Engineer at the head office. Maintenance schedules, inspection procedures, and maintenance tasks must be approved by the respective Electrical Engineer/Mechanical Engineer before any work can commence. Failure to comply with this requirement will result in nonpayment for the work performed.

SPECIFICATION 3: MAINTENANCE OF MECHANICAL WORKS

1.1. General mechanical maintenance work

The scope of the required mechanical maintenance work includes, but is not limited to, the following:

- a) Repairing and replacing motors and pumps on an as-needed basis.
- b) Conducting inspections, servicing, emptying, cleaning, and maintaining sewer pumps.
- c) Performing inspections of pump control panels and associated components to ensure optimal operation.
- d) Maintenance and servicing of heating, ventilation and air conditioning (HVAC) systems including but not limited to console unit, split unit and extractor fans
- e) Maintenance and servicing of fire equipment and systems.
- f) Maintenance and servicing of water reticulation systems and equipment including booster pumps.
- g) Issuing a certificate of compliance as and when required.

No maintenance work should be carried out without obtaining prior written approval from the Electrical Engineer/Mechanical Engineer at the head office. Maintenance schedules, inspection procedures, and maintenance tasks must be approved by the respective Electrical Engineer/Mechanical Engineer before any work can commence. Failure to comply with this requirement will result in nonpayment for the work performed.

MPUMALANGA PROVINCIAL GOVERNMENT

DEPARTMENT OF EDUCATION



**APPOINTMENT OF INFRASTRUCTURE TERM CONTRACTORS FOR
THE MAINTENANCE AND INFRASTRUCTURE RELATED WORKS IN
ALL EDUCATION FACILITIES OF THE MPUMALANGA
DEPARTMENT OF EDUCATION FOR A PERIOD OF THREE (3)
YEARS.**

BILL OF QUANTITIES (BOQ)

ELECTRICAL WORKS						
Item No.	Description	Unit	Quantity	Material	Labour	Total
Education Facilities						
1	Electrical maintenance work					
1.1	Conducting maintenance on the medium voltage (1kV - 33kV) electrical network, which involves servicing pole-mounted transformers and miniature substations.	Sum	1			R
1.2	Maintenance and repairs on standby generators, including changeover control panel	Sum	1			R
1.3	Testing, repairing, or replacing Uninterruptible Power Supply (UPS) units and their batteries.	Sum	1			R
1.4	Testing of transformers.	Sum	1			R
1.5	Testing miniature substation.	Sum	1			R
1.6	Testing standby generator	Sum	1			R
1.7	Maintenance and service for solar panels including inverters and batteries	Sum	1			R
1.8	Performing maintenance and service for area lighting.	Sum	1			R
1.9	Maintenance on the low voltage electrical network, encompassing both single-phase and three-phase systems. This includes servicing Low voltage (LV) panels and kiosks	Sum	1			R
1.10	Maintenance and service for distribution boards.	Sum	1			R
1.11	Tracing, locating, and repairing faults in underground electrical cables for both medium and low voltage systems.	Sum	1			R
1.12	Identifying and rectifying faults in the electrical wiring of buildings, either through repairs or replacements	Sum	1			R
1.13	Replacing electrical installations within buildings, such as light fittings, lights, socket outlets, and wiring/cables, is part of the work.	Sum	1			R
1.14	Adjusting, maintaining, repairing, and replacing tubes, fuses, circuit breakers, isolators, starter switches, and electrical wiring from the main incoming isolator.	Sum	1			R
1.15	Inspecting electrical reticulation, distribution boards, cable ducts, trenches, wire ways, lighting, and power points.	Sum	1			R
1.16	Ensuring that live electrical equipment is inaccessible, electric circuits are protected, and lighting and power systems are operational.	Sum	1			R
1.17	Maintenance and service of the lightning and earthing systems.	Sum	1			R
1.18	Performing maintenance and service for telemetry systems.	Sum	1			R
1.19	Maintenance and service for electronic security systems including Close circuit television (CCTV), Public address system and access control systems.	Sum	1			R
1.20	maintenance and service for information and communications technology (ICT) systems including telephone and data points .	Sum	1			R
1.21	Repairing and replacing motors and pumps on an as-needed basis.	Sum	1			R
1.22	Conducting inspections, servicing, emptying, cleaning, and maintaining sewer pumps.	Sum	1			R
1.23	Performing inspections of pump control panels and associated components to ensure optimal operation.	Sum	1			R
1.24	Maintenance and servicing of heating, ventilation and air conditioning (HVAC) systems including but not limited to console unit, split unit and extractor fans	Sum	1			R
1.25	Maintenance and servicing of fire equipment and systems.	Sum	1			R
1.26	Maintenance and servicing of water reticulation systems and equipment including booster pumps. Maintenance and servicing of fire equipment and systems.	Sum	1			R
1.27	Issuing a certificate of compliance as and when required.	Sum	1			R
	Maintenance Electrical Work: Carry to final summary					R

MECHANICAL WORKS						
Item No.	Description	Unit	Quantity	Material	Labour	Total
Education Facilities						
1	Mechanical maintenance work					
1.1	Repairing and replacing motors and pumps on an as-needed basis.	Sum	1			R
1.2	Conducting inspections, servicing, emptying, cleaning, and maintaining sewer pumps.	Sum	1			R
1.3	Performing inspections of pump control panels and associated components to ensure optimal operation.	Sum	1			R
1.4	Maintenance and servicing of heating, ventilation and air conditioning (HVAC) systems including but not limited to console unit, split unit and extractor fans	Sum	1			R
1.5	Maintenance and servicing of fire equipment and systems.	Sum	1			R
1.6	Maintenance and servicing of water reticulation systems and equipment including booster pumpers. Maintenance and servicing of fire equipment and systems.	Sum	1			R
1.7	Issuing a certificate of compliance as and when required.	Sum	1			R
						R
						R
						R
	Maintenance Mechanical Work: Carry to final summary					R

APPOINTMENT OF INFRASTRUCTURE TERM CONTRACTORS FOR THE MAINTENANCE AND INFRASTRUCTURE RELATED WORKS IN ALL EDUCATION FACILITIES OF THE MPUMALANGA DEPARTMENT OF EDUCATION FOR A PERIOD OF THREE (3) YEARS

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 1</u>	H1			
	<u>PRELIMINARIES</u>	H1			
	<u>BUILDING AGREEMENT AND PRELIMINARIES</u>	H2			
	The JBCC Series 2000 Principal Building Agreement (May 2018 edition 6.2) or Monir Works Agreement (May 2018 edition 6.2) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described				
	The JBCC Principal Building Agreement Contract Data and the JBCC Minor Works Agreement Contract Data form an integral part of this agreement				
	The ASAQs Preliminaries (November 2007 edition) published by the Association of South African Quantity Surveyors for use with the said JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities				
	Contractors are referred to the abovementioned documents for the intent and meaning of each clause thereof				
	These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this agreement such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the abovementioned documents				
	Where any item is not relevant to this specific agreement such item is marked N/A (signifying "not applicable")				
	PREAMBLES FOR TRADES	H2			
	The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained				
	Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles				

	<p>The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles</p> <p>PRICING OF PRELIMINARIES</p> <p>Should the contractor select Option A in terms of subclause 3.2.1 in the Contract Data - Contractor to Employer (CE) for the purpose of adjustment of these preliminaries, the amount entered into the amount column in these preliminaries is to be divided into one or more of the three categories provided namely Fixed (F), Value Related (V) and Time Related (T)</p>	H2				
1	Preliminaries at 12,5%	Item			R	-
	<p>SUMMARY OF CATEGORIES</p> <p>Category : Fixed R.....</p> <p>Category : Value R.....</p> <p>Category : Time R.....</p>	H3				
PRELIMINARIES AND GENERAL : CARRY TO FINAL SUMMARY					R	-

APPOINTMENT OF INFRASTRUCTURE TERM CONTRACTORS FOR THE MAINTENANCE OF ALL EDUCATION BUILDING AND RELATED INFRASTRUCTURE WORKS OF THE MPUMALANGA DEPARTMENT OF EDUCATION FOR A PERIOD OF THREE YEARS (3)

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SECTION NO. 1</u>				
	<u>MAINTENANCE OF GENERAL BUILDING AND CIVIL WORKS</u>				
	<u>BILL NO. 1</u>	H3			
	<u>DEMOLITIONS ETC</u>	H3			
	<u>The contractor is referred to the Model Preambles for Trades (2008 edition) as issued the Association of South African Quantity Surveyors before pricing this bill.</u>				
	<u>GENERAL NOTES</u>	H2			
	<u>SHORT DESCRIPTIONS</u>	H2			
	<u>For further preambles and full descriptions of items not fully described in this Bill, reference must be made to supplementary preambles and descriptions in the other Bills of this Section. Such supplementary preambles and descriptions shall apply equally to the work in this Bill</u>				
	<u>GENERAL</u>	H2			
	<u>In taking down and removing existing work the utmost care shall be observed to prevent any structural or other damage to remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc. to ensure the stability of all structures during alteration work. Special care shall be exercised during the progress of the work to ensure that any electrical installations, water supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Principal Agent</u>				
1	<u>if any disconnection or alterations become necessary</u>	CONT			
	<u>Any water supply and other piping that may be encountered and which is found necessary to disconnect or cut shall, after such disconnection or cutting has been authorised by the Principal Agent, be effectively stopped off and any new connections that may be necessary made with the proper tees, junction pieces, etc. to the satisfaction of the Principal Agent. The Contractor shall afford every facility to workmen not under his control making disconnections and new connections as required to any services</u>				
	<u>MATERIALS FROM THE ALTERATIONS, CREDIT, ETC.</u>	H2			

<p><u>OLD MATERIALS TO BECOME THE PROPERTY OF THE CONTRACTOR</u> Old materials from alterations, except where described as to be "re-used" or "handed over" become the property of the Contractor who may allow credit for same where provided for in these Bills of Quantities <u>OLD MATERIALS TO BE CARTED AWAY</u> Old materials from the alterations, where described as to be "removed" as well as all rubbish, etc. must be regularly carted from the site and not be allowed to accumulate on or around the site <u>OLD MATERIALS NOT TO BE RE-USED</u> None of the old materials are to be used for new work except where specifically described as being "set aside for re-use" <u>HANDING OVER OF MATERIALS</u> Where certain materials or articles from alterations are described as to be "handed over" to the Principal Agent, such material or articles shall be properly stored by the Contractor, until handing over thereof. The Contractor must obtain an official receipt listing the materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor</p>				
<p><u>EXISTING BUILDINGS</u></p> <p>The existing buildings will be in use and occupied during the progress of the contract and the Contractor will be required to carry out the works in such a manner as will least interfere with the occupants and with the minimum of disturbance. Contractors are also to note that due to the buildings being occupied the repairs and renovations works will be required to be executed in a specific order as will be determined by the Principal Agent in conjunction with the user client's authorised representative.</p>	H2			
<p><u>SIZE PERTAINING TO EXISTING WORK</u></p> <p>The Contractor is advised to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the correctness of sizes of all new work. All sizes given in relation to existing work are approximate</p>	H2			
<p><u>MAKING GOOD DAMAGED WORK</u></p> <p>The Contractor shall make good in all trades to existing work where damaged or disturbed through the alterations with all necessary new materials to match the existing</p>	H2			
<p><u>FORMING NEW OPENINGS OR ALTERING OPENINGS IN EXISTING WALLS</u></p> <p>Descriptions of forming new openings or altering openings in existing walls shall be deemed to include breaking out for and forming new brick, in-situ concrete or prestressed concrete lintels, including all reinforcement, formwork, turning pieces, etc., building up jams or portion of openings as described with brickwork properly toothed and bonded to existing, building cavities of hollow walls solid where necessary and making good finishes all round on both sides and into reveals as described</p>	H2			

<u>BUILDING UP OPENINGS</u>	H2				
<u>Descriptions of building up existing openings where given in number shall be deemed to include preparing existing surfaces all around, brickwork properly toothed and bonded to existing, wedging up and making good on both sides as described</u>					
<u>PAINTWORK</u>	H2				
<u>Where plasterwork on walls, ceilings, etc. are required to be patched or made good, prices are to include for the appropriate priming coat and one coat undercoat to receive paint finishing coats which are measured elsewhere</u>					
<u>The contractor must protect all work not removed such as walls, floors, doors, windows, fittings, etc., from damage during the progress of the work and provide all necessary materials for doing so. All shoring, etc., of portions of the existing buildings necessary to ensure the stability of the premises while executing the demolitions or alterations is to be provided by the contractor, who will be held solely responsible for any damage to persons or property and for safety of the structure throughout the contract period. The contractor will be required to make good at his own expense any damage that may occur.</u>					
<u>Tenderers are advised to visit the site before tendering and satisfy themselves as to the nature and extent of the works, means of access to the site and availability of working space. No claims will be entertained due to the tenderer having failed to comply with the above conditions. The descriptions in the items are given as a guide and to assist contractors in tendering, but not necessarily accurate or complete. Contractors must verify the items by personal inspection on the site. Unless otherwise stated the contractor shall not remove or interfere with any furniture, furnishings, fittings or similar articles belonging to the Employer and /or their staff.</u>					
<u>PROCEDURE OF WORK</u>	H2				
<u>The Principal Agent reserves the right to direct the order in which the contract will be executed, should circumstances necessitate such action.</u>					
<u>LOSS BY THEFT, FIRE OR OTHERWISE</u>	H2				
<u>The risk of loss, theft, fire, storm, riot or otherwise of the buildings to be demolished and the materials therein shall rest entirely with the contractor immediately upon the handing over of the site. He shall take such steps as he may deem fit for his own protection against such loss.</u>					
<u>Water and other piping</u>	H2				

<p><u>Any water supply or other piping that may be met with and found necessary to disconnect or cut are to be effectually stopped off or grubbed up and removed and any new connections that may be necessary and are to be made with proper fittings and to the satisfaction of the Principal Agent to whom due notice is to be given regarding all alterations to existing services. Prices for items of demolitions, are where applicable, to include for taking out and removing all sanitary fittings, plumbing and water supplies.</u></p>				
<p><u>Electrical and other services</u></p>	H2			
<p><u>Special care is to be exercised not to unnecessarily interfere with any electric light, bell, power, telephone or other wires and fittings that may be met with and due notice must be given to the Principal Agent when any disconnections, removals, diversions, interruptions, etc. are necessary and the contractor is to afford every facility to the workmen carrying out this work.</u></p>				
<p><u>The contractor must protect all work not removed such as walls, floors, doors, windows, fittings, etc. from damage during the progress of the work and provide all necessary materials for doing so. All shoring, etc. of portions of the existing buildings necessary to ensure the stability of the premises while executing the demolitions or alterations is to be provided by the contractor, who will be held solely responsible for any damage to persons or property and for safety of the structure throughout the contract period. The contractor will be required to make good at his own expense any damage that may occur.</u></p>				
<p><u>Existing buildings occupied</u></p>	H2			
<p><u>Tenderers are advised that the existing buildings will be in occupation during the building operations and due allowance must be made for the work being carried out in such a manner as will least interfere with the general routine of the occupants. Adequate warning must be given if a particular section of the building has to be evacuated to carry out the work.</u></p>				
<p><u>Noise prevention</u></p>	H2			
<p><u>The contractor shall take special care to minimise noisy operations during business hours. Such measures will include, inter alia, the use of silent compressors and strict control of workmen.</u></p>				

<p><u>The contractor shall demolish the portions of existing structures or buildings with a minimum amount of damage to adjoining buildings, materials, pavings, etc. Any damage caused is to be made good at his own expense with materials to match the existing to the entire satisfaction of the Architect.</u></p> <p><u>Tenderers should take particular note of and allow accordingly in their prices for the type of structure and materials to be encountered and the thickness of walls, concrete slabs, etc. to be demolished. Unless otherwise described all materials arising from the demolitions and alterations are to become the property of the contractor and he is to allow a credit for the same as provided for on the final summary page. These materials, including all rubbish and debris shall be immediately carted away and the site left clean and unencumbered. None of the old brick from the demolitions are to be re-used for any new brickwork.</u></p>					
Bricking up, altering or breaking new opening in existing walls		H2			
<p><u>Where the Contractor is required to form openings, alter openings or brick up openings in existing walls all brickwork shall be made good at jambs including properly bonding to existing. Brickwork in bricking up openings shall be wedged and pinned up to brickwork or concrete over in cement mortar. Cement screeds, pavings, granolithic, etc. in openings are to be levelled and prepared for raising of brickwork. Plaster to reveals to openings are to have all external angles rounded and making good of finishes is to include for junction with existing finishes. Where openings are described as having new brick lintols they are to be with minimum 300mm end bearings and prices are to include for brick reinforcement to suit the width of the wall. Lintols are to be three courses high up to span of 1000mm and four courses high up to span of 1000mm and four courses high when exceeding that span and brickwork is to be built in 1:3 cement mortar. Where openings are described as having precast prestressed concrete lintols they are to be with minimum 300mm end bearings of 30 MPa concrete. One prestressed lintol for each half brick thickness is required and is to be reinforced with and including all necessary high tensile wire.</u></p>					
Making good, etc.		H2			
<p><u>Prices are to include for making good in all trades to existing work, where damaged or disturbed through alterations, with all necessary new materials to match existing and leave complete and perfect in every respect.</u></p>					
TEMPORARY BARRICADES, SCREENS, ETC		H2			
Temporary barricades, screens, roofs, etc including removal		H4	0		
1	Supply and erect any 2,4m high temporary tarpaulins, dust or weatherproof screens and barriers that may be necessary during the progress of the Contract, all to the satisfaction of the Architect or Project Manager and remove when directed	m	1	R	-
Breaking up and Removing		H3			
2	200mm Thick concrete surface beds, paving, etc	m2	1	R	-

3	200mm Thick mesh reinforced concrete surface beds, paving, etc	m2	1	R	-
4	Brick paving with mortar joints	m2	1	R	-
5	Concrete kerbs	m	1	R	-
6	Brick kerbs with mortar joints	m	1	R	-
7	Stone pitching paving (kerb stone to remain)	m2	1	R	-
	<u>Taking Down and Removing</u>	H3			
8	Diamond mesh fence 2.5m high with steel posts and droppers	m	1	R	-
8	Steel palisade fence 1.8m high with steel posts and droppers	m	1	R	-
8	Concrete palisade fence 1.8m high with steel posts and droppers	m	1	R	-
9	Half brick boundary or yard wall 2.5m high	m	1	R	-
	<u>Demilishing and Removing</u>	H3			
10	Single storey building with pitched roof 10 x 10m on plan and 2.3m high overall, comprising concrete surface bed, 220mm external walls, 220mm internal walls and steel roof covering on timber trusses	No	1	R	-
11	Single storey building with flat roof 10 x 10m on plan and 2.3m high overall, comprising concrete surface bed, 220mm external walls, 220mm internal walls and steel roof covering on timber trusses	No	1	R	-
12	Carefully remove and dispose single storey absetos cement structure or building with pitched roof 5 x 5m on plan 2.3m high overall, comprising reinforced concrete surface bed, steel structure framework, asbestos cement dividing internal walls and steel roof covering on steel trusses by specialist	No	1	R	-
13	Carefully remove and dispose single storey absetos cement structure or building with flat roof 5 x 5m on plan 2.3m high overall, comprising reinforced concrete surface bed, steel structure framework, asbestos cement dividing internal walls and steel roof covering on steel trusses by specialist	No	1	R	-
14	Excavation in earth not exceeding 2m deep to remove foundations (Provisional)	m3	1	R	-
15	Extra over for removal of brickwork (Provisional)	m3	1	R	-
16	Extra over for removal of unreinforced (reinforced?) concrete (Provisional)	m3	1	R	-
				R	-

APPOINTMENT OF INFRASTRUCTURE TERM CONTRACTORS FOR THE MAINTENANCE OF ALL EDUCATION BUILDING AND RELATED INFRASTRUCTURE WORKS OF THE MPUMALANGA DEPARTMENT OF EDUCATION FOR A PERIOD OF THREE YEARS (3)

<u>SECTION NO. 1</u>					
<u>BILL NO. 2</u>					
<u>ALTERATIONS</u>					
<u>REMOVAL OF EXISTING WORK</u>					
Breaking up and removing mass concrete					
1 Apron	m3	1	R	-	
2 Steps	m3	1	R	-	
3 100mm Thick Surface Bed	m2	1	R	-	
<u>Breaking up and removing reinforced concrete including cutting off and removing reinforcement</u>					
4 Stairs and landings	m3	1	R	-	
6 Beams	m3	1	R	-	
7 Columns	m3	1	R	-	
8 200mm Thick Slabs	m2	1	R	-	
<u>Breaking down and removing brickwork etc</u>					
11 Mass brickwork	m3	1	R	-	
12 Half brick wall	m2	1	R	-	
13 One brick wall	m2	1	R	-	
<u>Taking out and removing doors, windows, etc from brickwork to be demolished</u>					
14 Timber single door and frame not exceeding 2,5m2	No	1	R	-	
15 Timber single door and frame 813 x 2032mm high	No	1	R	-	
16 Timber double door and frame exceeding 2.5m2 and not exceeding 3.5m2	No	1	R	-	
17 Timber double door and frame 1626 x 2032mm high	No	1	R	-	
18 Timber single door and steel frame not exceeding 2,5m2	No	1	R	-	
19 Steel single door and steel frame 813 x 2032mm high	No	1	R	-	
20 Glazed steel window not exceeding 2,5m²	No	1	R	-	
21 Glazed steel window exceeding 2,5m² and not exceeding 5m²	No	1	R	-	
22 Steel security gates 813 x 2032mm high	No	1	R	-	
23 Steel security gates 1680 x 2100mm high	No	1	R	-	

<u>Taking out and removing doors, windows, etc including thresholds, sills, etc (building up openings elsewhere)</u>		H3			
25	Timber single door and frame not exceeding 2,5m2	No	1	R	-
26	Timber single door and frame 813 x 2032mm high	No	1	R	-
27	Timber double door and frame exceeding 2.5m2 and not exceeding 3.5m2	No	1	R	-
28	Timber double door and frame 1626 x 2032mm high	No	1	R	-
29	Timber single door and steel frame not exceeding 2,5m2	No	1	R	-
30	Steel single door and steel frame 813 x 2032mm high	No	1	R	-
31	Glazed steel window not exceeding 2,5m ²	No	1	R	-
32	Glazed steel window exceeding 2,5m ² and not exceeding 5m ²	No	1	R	-
33	Steel security gates 813 x 2032mm high	No	1	R	-
34	Steel security gates 1680 x 2100mm high	No	1	R	-
<u>Taking out doors, windows, etc including thresholds, sills, etc and handing to employer (building up openings elsewhere)</u>		H3			
35	Timber single door and frame not exceeding 2,5m2	No	1	R	-
36	Timber single door and frame 813 x 2032mm high	No	1	R	-
37	Timber double door and frame exceeding 2.5m2 and not exceeding 3.5m2	No	1	R	-
38	Timber double door and frame 1626 x 2032mm high	No	1	R	-
39	Timber single door and steel frame not exceeding 2,5m2	No	1	R	-
40	Steel single door and steel frame 813 x 2032mm high	No	1	R	-
41	Glazed steel window not exceeding 2,5m ²	No	1	R	-
42	Glazed steel window exceeding 2,5m ² and not exceeding 5m ²	No	1	R	-
43	Steel security gates 813 x 2032mm high	No	1	R	-
44	Steel security gates 1680 x 2100mm high	No	1	R	-
<u>Taking out doors, windows, etc including thresholds, sills, etc and setting aside for re-use (refixing and building up openings elsewhere)</u>		H3			
45	Timber single door and frame not exceeding 2,5m2	No	1	R	-
46	Timber single door and frame 813 x 2032mm high	No	1	R	-
47	Timber double door and frame exceeding 2.5m2 and not exceeding 3.5m2	No	1	R	-
48	Timber double door and frame 1626 x 2032mm high	No	1	R	-
49	Timber single door and steel frame not exceeding 2,5m2	No	1	R	-

50	Steel single door and steel frame 813 x 2032mm high	No	1	R	-
51	Glazed steel window not exceeding 2,5m ²	No	1	R	-
52	Glazed steel window exceeding 2,5m ² and not exceeding 5m ²	No	1	R	-
53	Steel security gates 813 x 2032mm high	No	1	R	
54	Steel security gates 1680 x 2100mm high	No	1	R	
	<u>Taking out and removing doors, windows, etc including thresholds, sills, etc and building up openings in brick walls including making good cement plaster on both sides (making good paintwork elsewhere)</u>	H3			
55	Timber single door and frame not exceeding 2,5m ²	No	1	R	-
56	Timber single door and frame 813 x 2032mm high	No	1	R	-
57	Timber double door and frame exceeding 2.5m ² and not exceeding 3.5m ²	No	1	R	-
58	Timber double door and frame 1626 x 2032mm high	No	1	R	-
59	Timber single door and steel frame not exceeding 2,5m ²	No	1	R	-
60	Steel single door and steel frame 813 x 2032mm high	No	1	R	-
61	Glazed steel window not exceeding 2,5m ²	No	1	R	-
62	Glazed steel window exceeding 2,5m ² and not exceeding 5m ²	No	1	R	-
63	Steel security gates 813 x 2032mm high	No	1	R	
64	Steel security gates 1680 x 2100mm high	No	1	R	
	<u>Taking out and removing doors, windows, etc including thresholds, sills, etc and building up openings in brick walls including making good face brickwork on one side and cement plaster on other side (making good paintwork elsewhere)</u>	H3			
65	Timber single door and frame not exceeding 2,5m ²	No	1	R	-
66	Timber single door and frame 813 x 2032mm high	No	1	R	-
67	Timber double door and frame exceeding 2.5m ² and not exceeding 3.5m ²	No	1	R	-
68	Timber double door and frame 1626 x 2032mm high	No	1	R	-
69	Timber single door and steel frame not exceeding 2,5m ²	No	1	R	-
70	Steel single door and steel frame 813 x 2032mm high	No	1	R	-
71	Glazed steel window not exceeding 2,5m ²	No	1	R	-
72	Glazed steel window exceeding 2,5m ² and not exceeding 5m ²	No	1	R	-
73	Steel security gates 813 x 2032mm high	No	1	R	-
74	Steel security gates 1680 x 2100mm high	No	1	R	-

75	Roller shutter door 1.2 x 2.0m high	No	1	R	-
76	Folding door 7.0 x 2.1m high	No	1	R	-
	<u>Refixing of existing doors, windows, etc (removal and setting aside elsewhere)</u>	H3			
	Setting up and building in timber door frame in brickwork, rehanging single door on new 100mm brass hinges and replacing lock with mortice lock (mortice lock elsewhere measured)	No	1	R	-
77		No	1	R	-
	Setting up and building in steel door frame in brickwork, rehanging single door on new 100mm brass hinges and replacing lock with mortice lock (mortice lock elsewhere measured)	No	1	R	-
78		No	1	R	-
	Setting up steel window 1000 x 1000mm high in brickwork and replacing any broken glass panes with 3mm clear float glass	No	1	R	-
79		No	1	R	-
	<u>Taking out/off and removing sundry metalwork</u>	H3			
	Steel pipe handrail from walls including making good plaster finish	m	1	R	-
80		m	1	R	-
	Steel balustrade 900mm high from concrete stairs including making good granolithic/tile finish	m	1	R	-
81		m	1	R	-
	Cut and remove rusted / damaged sections of balustrade not exceeding 3mm in thickness (between 0,1 to 0.5m in length) and replace with new, welded or bolted as the case may be prepare and paint to match existing	No	1	R	-
82		No	1	R	-
	Cut and remove rusted / damaged sections of balustrade not exceeding 3mm in thickness (between 0,5 to 1,0m in length) and replace with new, welded or bolted as the case may be prepare and paint to match existing	No	1	R	-
83		No	1	R	-
	Cut and remove rusted / damaged sections of balustrade exceeding 3mm but not exceeding 6mm in thickness (between 0,1 to 0.5m in length) and replace with new, welded or bolted as the case may be prepare and paint to match existing	No	1	R	-
84		No	1	R	-
	<u>Taking out and removing sundry joinery work</u>	H3			
	Timber cornices from brickwork	m	1	R	-
85		m	1	R	-
	Timber skirtings from brickwork	m	1	R	-
86		m	1	R	-
	Timber sills from brickwork	m	1	R	-
87		m	1	R	-
	<u>Taking out and removing joinery fittings etc</u>	H3			
	Timber wall cupboard 1000 x 1000 x 1000mm high	No	1	R	-
88		No	1	R	-
	Timber floor cupboard 1000 x 1000 x 1000mm high	No	1	R	-
89		No	1	R	-
	Timber sink cupboard 1000 x 1000 x 1000mm high including disconnecting waste pipe (new trap and connecting to new waste pipe elsewhere)	No	1	R	-
90		No	1	R	-

91	Timber counter 1000 x 1000 x 1000mm high	No	1	R	-
	<u>Taking up and removing vinyl floor coverings, carpeting, etc</u>	H3			
92	Vinyl tile floor covering including preparing screed for new floor covering	m2	1	R	-
	<u>Taking out and removing ironmongery Carefully take out and remove from site the following including making good all works disturbed</u>	H3			
93	Existing door hinges	No	1	R	-
94	Existing single action floor spring hinges	No	1	R	-
95	Existing double action floor spring hinges	No	1	R	-
96	Existing barrel bolt with keep fixed to metal/concrete	No	1	R	-
97	Existing flush bolt with keep fixed to metal/concrete	No	1	R	-
98	Existing WC indicator bolt with keep fixed to metal/concrete	No	1	R	-
99	Existing panic bolt for single door with one keep let into concrete	No	1	R	-
100	Existing panic bolt for double door with one keep let into concrete	No	1	R	-
	<u>Carefully take out and remove from site the following including making good all works disturbed</u>	H3			
101	Existing ball catch	No	1	R	-
102	Existing Single roller catch	No	1	R	-
103	Existing Double roller catch	No	1	R	-
104	Existing Fanlight catch	No	1	R	-
105	Existing Fanlight stay	No	1	R	-
106	Existing Fanlight friction sliding arm	No	1	R	-
107	Existing Fanlight opener with cord and cleat	No	1	R	-
108	Existing cabin hook and eye	No	1	R	-
	<u>Carefully take out and remove from site the following including making good all works disturbed</u>	H3			
109	Existing Padlock	No	1	R	-
110	Existing night latch	No	1	R	-
111	Existing bathroom lockset	No	1	R	-
112	Existing bathroom lockset with striking plate fixed to metal/timber	No	1	R	-
113	Existing three lever deadlock	No	1	R	-

114	Existing three lever rebated deadlock	No	1	R	-
115	Existing four lever deadlock	No	1	R	-
116	Existing four lever rebated deadlock	No	1	R	-
117	Existing two lever lockset	No	1	R	-
118	Existing two lever lockset with striking plate fixed to metal/timber	No	1	R	-
119	Existing two lever rebated lockset	No	1	R	-
120	Existing three lever lockset	No	1	R	-
121	Existing three lever lockset with striking plate fixed to metal/timber	No	1	R	-
122	Existing three lever rebated lockset	No	1	R	-
123	Existing four lever lockset	No	1	R	-
124	Existing four lever lockset with striking plate fixed to metal/timber	No	1	R	-
125	Existing four lever rebated lockset	No	1	R	-
126	Existing three lever sliding door lock	No	1	R	-
127	Existing four lever sliding door lock	No	1	R	-
128	Existing single cylinder deadlock	No	1	R	-
129	Existing single cylinder rebated deadlock	No	1	R	-
130	Existing double cylinder deadlock	No	1	R	-
131	Existing double cylinder rebated deadlock	No	1	R	-
132	Existing single cylinder lockset	No	1	R	-
133	Existing single cylinder lockset with striking plate fixed to metal/timber	No	1	R	-
134	Existing single cylinder rebated lockset	No	1	R	-
135	Existing double cylinder lockset	No	1	R	-
136	Existing double cylinder lockset with striking plate fixed to metal/timber	No	1	R	-
137	Existing double cylinder rebated lockset	No	1	R	-
138	Existing single cylinder sliding door lock	No	1	R	-
139	Existing double cylinder sliding door lock	No	1	R	-
	<u>Carefully take out and remove from site the following including making good all works disturbed</u>	H3			
140	Existing flush handle	No	1	R	-

141	Existing knob	No	1	R	-
142	Existing pull handle	No	1	R	-
143	Existing Set of two pull handles fixed back to back	No	1	R	-
	<u>Carefully take out and remove from site the following including making good all works disturbed</u>	H3			
144	Existing aluminium plates not exceeding 0,1m2	No	1	R	-
145	Existing aluminium plates exceeding 0,1m2 but not exceeding 0,3m2	No	1	R	-
146	Existing aluminium plates exceeding 0,3m2 but not exceeding 0,5m2	No	1	R	-
	<u>Carefully take out and remove from site the following including making good all works disturbed</u>	H3			
147	Existing door closer	No	1	R	-
148	Existing door closer with bracket	No	1	R	-
149	Existing concealed door closer	No	1	R	-
150	Existing concealed door closer with bracket	No	1	R	-
	<u>Carefully take out and remove from site the following including making good all works disturbed</u>	H3			
151	Existing Brass or plastic letters/numerals	No	1	R	-
152	Existing perspex plate with engraved and painted letters/numerals/symbols not exceeding 0,1m2	No	1	R	-
153	Existing aluminium plate with engraved or painted letters/numerals/symbols exceeding 0,1m2	No	1	R	-
	<u>Carefully take out and remove from site the following including making good all works disturbed</u>	H3		R	-
154	Existing plugged pressed steel pelmet with single or double curtain tracks including gliders, hangers and brackets	m	1	R	-
155	Existing plastic soffit fixing single or double curtain tracks including gliders, hangers and brackets	m	1	R	-
156	Existing face fixing plastic single or double curtain tracks including gliders, hangers and brackets and make good all works disturbed	m	1	R	-
157	Existing hospital cubicle curtain track including gliders, hangers, and brackets	m	1	R	-
	<u>Carefully take out and remove from site the following including making good all works disturbed</u>	H3			
158	Existing chromium plated curtain or hanging rail not exceeding 1,0m long	No	1	R	-

159	Existing chromium plated curtain or hanging rail exceeding 1,0m but not exceeding 2,0m long	No	1	R	-
160	Existing chromium plated towel rail not exceeding 1,0m long	No	1	R	-
161	Existing toilet roll holder	No	1	R	-
162	Existing Lockable toilet roll holder plugged	No	1	R	-
163	Existing soap holder	No	1	R	-
164	Existing back grab rail not exceeding 1,0m long	No	1	R	-
165	Existing side grab rail not exceeding 1,0m girth	No	1	R	-
166	Existing bathroom cabinet	No	1	R	-
167	Existing soap dispenser	No	1	R	-
168	Existing electric hand-drier	No	1	R	-
	<u>Carefully take out and remove from site the following including making good all works disturbed</u>	H3			
169	Existing rubber door stop	No	1	R	-
	<u>Taking out/off and removing sundry metalwork</u>	H3			
170	Steel pipe handrail from walls including making good plaster finish	m	1	R	-
171	Steel balustrade 900mm high from concrete stairs including making good granolithic finish to kerb	m	1	R	-
172	Steel wire mesh burglar proofing with framing 1000 x 1000mm high bolted to brickwork and making good face brickwork	No	1	R	-
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u>	H3			
173	30mm Granolithic from floors	m2	1	R	-
174	30mm Granolithic from treads and risers of stairs	m2	1	R	-
175	Granolithic skirting 15mm high	m	1	R	-
176	25mm Screed from floors	m2	1	R	-
177	Remove damaged steel or wood floated floor screed and prepare surface to receive new floor screed (New floor screed measured elsewhere)	m2	1	R	-
178	Internal plaster from walls and columns	m2	1	R	-
179	Internal plaster from ceilings and beams	m2	1	R	-
180	External plaster from walls, columns and beams	m2	1	R	-

	<u>Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes</u>	H3			
181	Tiles to floors	m2	1	R	-
182	Tiles to treads and risers of stairs	m2	1	R	-
183	Tiles to walls	m2	1	R	-
184	Tile skirting 20mm high	m	1	R	-
	<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>	H3			
185	Stainless steel wash hand basin	No	1	R	-
187	Stainless steel sink and drainer	No	1	R	-
188	Wash hand basin	No	1	R	-
189	Wash hand basin on pedestal.	No	1	R	-
190	Pedestal only	No	1	R	-
191	WC pan only	No	1	R	-
192	WC pan with cistern	No	1	R	-
193	WC pan with flush valve	No	1	R	-
194	Cistern and internal flushing mechanism	No	1	R	-
195	Cistern only	No	1	R	-
196	Cistern internal flushing mechanism only	No	1	R	-
197	WC seat and cover	No	1	R	-
198	WC pan connector	No	1	R	-
199	Wall hung urinal with flush valve	No	1	R	-
200	Wall hung urinal only	No	1	R	-
201	Urinal flush valve	No	1	R	-
	<u>Taking out and removing glass and mirrors</u>	H3			
202	Glass from steel windows, including cleaning out rebates and preparing for new glass	m2	1	R	-
203	Carefully remove cracked or broken glazing in panes not exceeding 0,1m2 in existing metal windows and doors including scraping out putty on reveals and prepare windows and doors to receive new glazing (New glazing elsewhere measured)	No	1	R	-

204	Carefully remove cracked or broken glazing in panes exceeding 0,1m2 and not exceeding 0,5m2 in existing metal windows and doors including scraping out putty on reveals and prepare windows and or doors to receive new glazing (New glazing elsewhere measured)	No	1		R	-
205	Carefully remove cracked or broken glazing in panes exceeding 0,5m2 and not exceeding 2m2 in existing metal windows and doors including scraping out putty on reveals and prepare windows and or doors to receive new glazing (New glazing elsewhere measured)	No	1		R	-
206	Carefully remove cracked or broken glazing in panes exceeding 2m2 and not exceeding 4m2 in existing metal windows and doors including scraping out putty on reveals and prepare windows and or doors to receive new glazing (New glazing elsewhere measured)	No	1		R	-
207	Carefully remove cracked or broken glazing in panes not exceeding 0,1m2 in existing metal windows and doors including removal of steel beads and prepare windows and doors to receive new glazing (New glazing elsewhere measured)	No	1		R	-
208	Carefully remove cracked or broken glazing in panes exceeding 0,1m2 and not exceeding 0,5m2 in existing metal windows and doors including removal of steel beads and prepare windows and doors to receive new glazing (New glazing elsewhere measured)	No	1		R	-
209	Carefully remove cracked or broken glazing in panes exceeding 0,5m2 and not exceeding 2m2 in existing metal windows and doors including removal of steel beads and prepare windows and doors to receive new glazing (New glazing elsewhere measured)	No	1		R	-
210	Carefully remove cracked or broken glazing in panes exceeding 2m2 and not exceeding 4m2 in existing metal windows and doors including removal of steel beads and prepare windows and doors to receive new glazing (New glazing elsewhere measured)	No	1		R	-
211	Carefully remove cracked or broken glazing in panes not exceeding 0,1m2 in existing timber windows and doors including removal of timber beads and prepare windows and doors to receive new glazing (New glazing elsewhere measured)	No	1		R	-
212	Carefully remove cracked or broken glazing in panes exceeding 0,1m2 and not exceeding 0,5m2 in existing timber windows and doors including removal of timber beads and prepare windows and doors to receive new glazing (New glazing elsewhere measured)	No	1		R	-
213	Carefully remove cracked or broken glazing in panes exceeding 0,5m2 and not exceeding 2m2 in existing timber windows and doors including removal of timber beads and prepare windows and doors to receive new glazing (New glazing elsewhere measured)	No	1		R	-

214	Carefully remove cracked or broken glazing in panes exceeding 2m2 and not exceeding 4m2 in existing timber windows and doors including removal of timber beads and prepare windows and doors to receive new glazing (New glazing elsewhere measured)	No	1	R	-
215	Mirror, size 600 x 600mm	No	1	R	-
216	Carefully remove cracked or broken mirrors including making good painted or tiled backing and prepare surface to receive new mirrors (New mirrors elsewhere measured)	m2	1	R	-
	<u>Taking down and removing roofs, e.t.c</u>	H3			
217	Carefully remove and dispose by specialist existing Corrugated Asbestors Cement roof covering	m2	1	R	-
218	Carefully take out and remove damaged existing corrugated / concrete tiles / IBR roofing sheetand make good trusses to receive new roof covering	m2	1	R	-
219	Carefully take out and remove damaged existing timber roof trusses and make good brickwork to receive new roof trusses (New roof trusses elsewhere measured)	m2	1	R	-
220	Inspect and repair all concrete tiled roof for cracks, leaks and damages and make good to receive paintwork (Paintwork elsewhere measured)	m2	1	R	-
221	Inspect and replace concrete tiled roof for cracks, leaks and damages and make good to receive paintwork (Paintwork and new concrete tiles elsewhere measured)	m2	1	R	-
222	Remove broken or damaged concrete roof tiles and replace with matching profile, make water tight and paint to match existing colour	m2	1	R	-
223	Remove broken or damaged concrete ridge tiles and replace with matching profile, make water tight and paint to match existing colour	m2	1	R	-
224	Remove broken or damaged concrete fascia and verge tiles and replace with matching profile, make water tight and paint to match existing colour	m	1	R	-
225	Inspect and repair corrugated roofing sheets for cracks, leaks and damages and make good to receive paintwork (Paintwork elsewhere measured)	m	1	R	-
226	Inspect and replace corrugated roofing sheets for cracks, leaks and damages and make good to receive paintwork (Paintwork and new corrugate sheets elsewhere measured)	m	1	R	-
227	Repair leaks and make water-tight Corrugated roofing sheets and paint to match existing colour	m2	1	R	-
228	Cut out and remove broken or damaged corrugated roofing sheets and replace with matching profile, make water tight and paint to match existing colour	m2	1	R	-
229	Inspect and replace IBR roofing sheets for cracks, leaks and damages and make good to receive paintwork (Paintwork and new corrugate sheets elsewhere measured)	m2	1	R	-

230	Inspect and repair IBR roofing sheets cracks, leaks and damages and make good to receive paintwork (Paintwork elsewhere measured)	m2	1	R	-
231	Repair leaks and make water-tight IBR roofing sheets and paint to match existing colour	m2	1	R	-
232	Cut out and remove broken or damaged IBR roofing sheets and replace with matching profile, make water tight and paint to match existing colour	m2	1	R	-
233	Strip off existing roof covering, cut into and replace damaged sections of 38 x 38mm sawn timber branderings/purlins including firmly securing to existing truss with fasteners/hurricane clips/bolts and replace roof covering	m2	1	R	-
234	Strip off existing roof covering, cut into and replace damaged sections of 38 x 52mm sawn timber purlins/trusses including firmly securing to existing truss with fasteners/hurricane clips/bolts and replace roof covering	m	1	R	-
235	Strip off existing roof covering, cut into and replace damaged sections of 38 x 114mm sawn timber trusses including firmly securing to existing truss with fasteners/hurricane clips/bolts and replace roof covering	m	1	R	-
236	Strip off existing roof covering, cut into and replace damaged sections of 38 x 152mm sawn timber branderings/purlins including firmly securing to existing truss with fasteners/hurricane clips/bolts and replace roof covering	m	1	R	-
237	Carefully cut and remove rusted steel head wall/parapet/undertile flashing/counterflashing not exceeding 450mm girth, and make good all works disturbed (replacement elsewhere measured)	m	1	R	-
238	Carefully remove broken or damaged fibre fascia/argeboards, replace with new and paint to match existng	m	1	R	-
239	Carefully remove rusted steel head wall/parapet/undertile flashing/counterflashing not exceeding 450mm girth, replace with new and paint to match existng	m	1	R	-
240	Carefully cut and remove broken or damaged metal roof valley/gutter not exceeding 600mm wide and replace with matching profile, make water tight and paint to match existing	m	1	R	-
	<u>Taking down and removing ceilings, e.t.c</u>	H3			
241	Allow provision for scaffold for 1 day to cover 10 m2 to fix ceiling exceeding 3,5m but not exceeding 5m high.	Item	1	R	-
242	Carefully hack out and remove damp, loose and flaking plaster to concrete slab, prepare surface to receive the plaster and replaster to flush and match existing	m2	1	R	-

243	Carefully remove damaged portions of existing gypsum ceiling boards including removal of damaged brandering and cornices and prepare existing to receive new (New boards elsewhere measured)	m2	1	R	-
244	Carefully remove damaged portions of existing fibre cement ceiling boards including removal of damaged brandering and cornices and prepare existing to receive new (New boards elsewhere measured)	m2	1	R	-
245	Patch cracks in gypsum cement ceiling board not exceeding 5mm wide with gypsum plaster	m	1	R	-
246	Patch holes in gypsum ceiling board not exceeding 50mm diameter with gypsum plaster	No	1	R	-
247	Patch holes in gypsum ceiling board exceeding 50mm but not exceeding 100mm diameter with gypsum plaster and mesh	No	1	R	-
248	Patch cracks in gypsum cement ceiling board not exceeding 5mm wide with gypsum plaster and mesh	m	1	R	-
249	Patch holes in gypsum ceiling board not exceeding 50mm diameter according to the instruction of the Architect	No	1	R	-
250	Patch holes in gypsum ceiling board exceeding 50mm but not exceeding 100mm diameter according to the instruction of the Architect	No	1	R	-
251	Patch holes in fibre cement ceiling boards not exceeding 50mm diameter	No	1	R	-
252	Patch holes in fibre cement ceiling boards exceeding 50mm but not exceeding 100mm diameter	No	1	R	-
253	Carefully remove damaged portions of existing fibre cement ceiling boards including removal of damaged brandering and prepare existing to receive new (New boards elsewhere measured)	m2	1	R	-
254	Carefully remove damaged sections of existing gypsum cornices in lengths, make good walls and ceilings to receive new (New cornice and paintwork elsewhere measured)	m	1	R	-
	<u>SERVICING EXISTING ITEM Service existing sanitary fittings, accessories, etc.</u>	H3			
252	Carefully examine hydroboil, for any leaks, worn parts, etc repair and fully service same to ensure functionality, all to the satisfaction of the Principal Agent or Project manager	No	1	R	-
253	Carefully examine wash hand basins, taps, traps and piping for any leaks, worn parts, etc. repair and fully service same to ensure functionality, all to the satisfaction of the Principal Agent	No	1	R	-
254	Carefully examine sinks, taps, traps and piping for any leaks, worn parts, etc. repair and fully service same to ensure functionality, all to the satisfaction of the Principal Agent	No	1	R	-

255	Carefully examine bath tub, taps, traps and piping for any leaks, worn parts, etc. repair and fully service same to ensure functionality, all to the satisfaction of the Principal Agent	No	1	R	-
256	Carefully examine laundry sinks, size 1300 x 500 x 900mm high, taps, traps and piping for any leaks, worn parts, etc. repair and fully service same to ensure functionality, all to the satisfaction of the Principal Agent	No	1	R	-
	<u>Servicing existing windows</u>	H3			
257	Carefully examine hinges, handles and stays to steel windows, replace putty to glazing of steel windows and fully service same to facilitate smooth functionality, all to the satisfaction of the Principal Agent or Project manager	No	1	R	-
	<u>CUTTING THROUGH FLOORS, CEILINGS AND FLOORS</u>	H3			
258	50 x 50mm chase formed for plumbing pipework	m	1	R	-
259	110 x 110mm chase formed for plumbing pipework	m	1	R	-
260	Cutting through:	H4	0		
261	100mm thick concrete surface bed for 500mm wide concrete wall footing including making good concrete on both sides of new 220mm brick wall	m	1	R	-
262	100mm Thick unreinforced concrete surface bed for 110mm internal diameter pipe and making good concrete (making good floor finishes elsewhere)	m	1		
263	100mm Thick unreinforced concrete surface bed for 230mm external diameter pipe and making good concrete (making good floor finishes elsewhere)	m	1		
	<u>BUILDING UP OPENINGS Brickwork in NFP bricks in class II mortar in building up openings</u>	H3			
264	Half brick walls	m2	1	R	-
265	One brick walls	m2	1	R	-
	<u>Sundries</u>	H3			
266	Cutting toothings and bonding new brickwork to existing	m2	1	R	-
	<u>220mm face bricks pointed with flush horizontal and vertical joints</u>	H3			
267	Extra over brickwork for face brickwork in patches	m2	1	R	-
268	1000mm Wide brick-on-edge header course sill set sloping and slightly projecting	m	1	R	-
269	Cutting toothings and bonding new face brickwork to existing	m	1	R	-

<u>PREPARATORY WORK TO EXISTING SURFACES</u>		H3				
<u>Scabble existing surface of plastered wall and prepare surface to receive new tiling (new tiling elsewhere measured)</u>						
270	On walls	m2	1	R	-	
<u>Scabble existing surface of fair faced wall and prepare surface to receive new plaster (new plaster elsewhere measured)</u>		H3				
271	On walls	m2	1	R	-	
<u>SCREEDS</u>		H3				
272	Make good cracks not more than 5mm wide with cement grout (1:3) on steel or wood floated screed, flush and match existing floor texture	m	1	R	-	
273	Make good cracks on steel or wood floated screed more than 5mm thick by hacking out 150mm wide and 25mm deep minimum on both sides of cracks, prepare the surface and lay new screed to flush and match existing	m	1	R	-	
274	Make good holes not exceeding 0,1m2 in existing steel or wood floated floor screed including removing damaged sections and patching with new screed to flush and match existing	No	1	R	-	
274	Make good holes exceeding 0,1m2 but not exceeding 0,3m2 in existing steel or wood floated floor screed including removing damaged sections and patching with new screed to flush and match existing	No	1	R	-	
275	Make good holes exceeding 0,3m2 but not exceeding 0,5m2 in existing steel or wood floated floor screed including removing damaged sections and patching with new screed to flush and match existing	No	1	R	-	
276	Make good holes exceeding 0,5m2 but not exceeding 1,0m2 in existing steel or wood floated floor screed including removing damaged sections and patching with new screed to flush and match existing	No	1	R	-	
<u>GRANOLITHIC</u>		H3				
277	Make good cracks not more than 5mm wide with with cement grout on granolithic floor screed, flush and match existing floor texture	m	1	R	-	
278	Make good cracks on granolithic floor screed more than 5mm thick by hacking out 150mm wide and minimum 25mm deep on both sides of cracks, prepare the surface and lay new screed to flush and match existing	m	1	R	-	
279	Make good holes not exceeding 0,1m2 in existing granolithic floor screed including removing damaged sections and patching with new screed to flush and match existing	No	1	R	-	

280	Make good holes exceeding 0,1m2 but not exceeding 0,3m2 in existing granolithic floor screed including removing damaged sections and patching with new screed to flush and match existing	No	1	R	-
281	Make good holes exceeding 0,3m2 but not exceeding 0,5m2 in existing granolithic floor screed including removing damaged sections and patching with new screed to flush and match existing	No	1	R	-
282	Make good holes exceeding 0,5m2 but not exceeding 1,0m2 in existing granolithic floor screed including removing damaged sections and patching with new screed to flush and match existing	No	1	R	-
283	Hack off and remove damaged granolithic floor screed exceeding 1,0m2 and prepare surface to receive new floor screed (New granolithic screed measured elsewhere)	m2	1	R	-
<u>CEILINGS</u>					
284	Allow provision for scaffold for 1 day to cover 10 m2 to fix ceiling exceeding 3,5m but not exceeding 5m high.	Item	1	R	-
285	Make good cracks not more than 5mm wide on the concrete plastered ceiling with poly-filler to flush and match existing	m	1	R	-
286	Make good cracks more than 5mm wide on plastered ceiling by hacking out and removing plaster 150mm wide on both sides of cracks and make good with wired chicken mesh and cover with new plaster	m	1	R	-
<u>INTERNAL PLASTER</u>		H3			
287	Fill cracks not more than 5mm wide with poly-filler and touch-up paint to match existing colour	m	1	R	-
288	Make good holes, chips, dents and cracks not exceeding 0,1m2 in existing plaster including removing damaged sections and patching with new plaster to flush and match existing	No	1	R	-
289	Make good cracks more than 5mm wide by hacking out and removing existing plaster 150mm wide on both sides of cracks, prepare surface and repair with chicken mesh covered with new plaster and paint to match existing paint	m	1	R	-
290	Make good holes, chips, dents and cracks exceeding 0,1m2 but not exceeding 0,3m2 in existing plaster including removing damaged sections and patching with new plaster to flush and match existing	No	1	R	-
291	Make good holes, chips, dents and cracks exceeding 0,3m2 but not exceeding 0,5m2 in existing plaster including removing damaged sections and patching with new plaster to flush and match existing	No	1	R	-
292	Make good holes, chips, dents and cracks exceeding 0,5m2 but not exceeding 1,0m2 in existing plaster including removing damaged sections and patching with new plaster to flush and match existing	No	1	R	-

293	Carefully hack out and remove damp, loose, flaking or cracked plaster to walls exceeding 1,0m2 and prepare surface of wall to receive new plaster (New plaster elsewhere measured)	m2	1	R	-
	<u>EXTERNAL PLASTER</u>	H3			
294	Fill cracks not more than 5mm wide with poly-filler and touch-up paint to match existing colour	m	1	R	-
295	Make good cracks more than 5mm wide by hacking out and removing existing plaster 150mm wide on both sides of cracks, prepare surface and repair with chicken mesh covered with new plaster and paint to match existing paint	m	1	R	-
296	Make good holes, chips, dents and cracks not exceeding 0,1m2 in existing plaster including removing damaged sections and patching with new plaster to flush and match existing	No	1	R	-
297	Make good holes, chips, dents and cracks exceeding 0,1m2 but not exceeding 0,3m2 in existing plaster including removing damaged sections and patching with new plaster to flush and match existing	No	1	R	-
298	Make good holes, chips, dents and cracks exceeding 0,3m2 but not exceeding 0,5m2 in existing plaster including removing damaged sections and patching with new plaster to flush and match existing	No	1	R	-
299	Make good holes, chips, dents and cracks exceeding 0,5m2 but not exceeding 1,0m2 in existing plaster including removing damaged sections and patching with new plaster to flush and match existing	No	1	R	-
300	Carefully hack out and remove damp, loose, flaking or cracked plaster to walls exceeding 1,0m2 and prepare surface of wall to receive new plaster (New plaster elsewhere measured)	m2	1	R	-
301	Cutting out joints of existing brickwork to receive plaster	m2	1	R	-
302	Hacking face of existing concrete columns, beams, etc to receive plaster	m2	1	R	-
303	Hacking face of existing face brickwork to receive plaster	m2	1	R	-
304	Making good defects in existing screeded floors with "Pavelite"	m2	1	R	-
	<u>DAMP PROOF TREATMENT</u>	H3			
305	Hack-off plaster, apply damp repellent and replaster and paint to match existing	m2	1	R	-
	<u>RAINWATER PIPES</u>	H3			
306	Carefully cut out and remove damaged sections of existing galvanised 125 x 100mm gutter and replace with new to match existing profile, make water-tight at joining, prepare and paint to match existing	m	1	R	-

307	Carefully cut out and remove damaged sections of existing galvanised 100 x 85mm gutter and replace with new to match existing profile, make water-tight at joining, prepare and paint to match existing	m	1	R	-
308	Carefully cut out and remove damaged sections of existing galvanised 100mm diameter downpipes and replace with new to match existing profile, make water-tight at joining, prepare and paint to match existing	m	1	R	-
309	Carefully cut and remove damaged existing galvanised eaves offset, shoe, bends, elbow, etc and replace with new to match existing profile, make water-tight at joining, prepare and paint to match existing	No	1	R	-
310	Carefully cut and remove damaged galvanised box head and replace with new to match existing profile, make good flashing and counter flashing and make water-tight at joining, prepare and paint to match existing	No	1	R	-
311	<u>Repair leaking water supply pipes Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths not exceeding 0,5m and replace with new including all necessary fittings.</u>	H3			
312	15mm Copper pipes	No	1	R	-
313	22mm Copper pipes	No	1	R	-
314	28mm Copper pipes	No	1	R	-
315	32mm Copper pipes	No	1	R	-
316	50mm Copper pipes	No	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths exceeding 0,5m but not exceeding 1m and replace with new including all necessary fittings.</u>	H3			
317	15mm Copper pipes	No	1	R	-
318	22mm Copper pipes	No	1	R	-
319	28mm Copper pipes	No	1	R	-
320	32mm Copper pipes	No	1	R	-
321	50mm Copper pipes	No	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths exceeding 1m and replace with new including all necessary fittings.</u>	H3			
322	15mm Copper pipes	m	1	R	-
323	22mm Copper pipes	m	1	R	-
324	28mm Copper pipes	m	1	R	-
325	32mm Copper pipes	m	1	R	-

326	50mm Copper pipes	m	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged fittings to existing pipes and replace with new including making good all works disturbed.</u>				
		H3			
349	15mm Copper fittings	m	1	R	-
350	22mm Copper fittings	m	1	R	-
351	28mm Copper fittings	m	1	R	-
352	32mm Copper fittings	m	1	R	-
353	50mm Copper fittings	m	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths not exceeding 0,5m and replace with new including all necessary fittings.</u>				
		H3			
354	15mm Galvanised pipes	No	1	R	-
355	22mm Galvanised pipes	No	1	R	-
356	28mm Galvanised pipes	No	1	R	-
357	32mm Galvanised pipes	No	1	R	-
358	50mm Galvanised pipes	No	1	R	-
359	65mm Galvanised pipes	No	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths exceeding 0,5m but not exceeding 1m and replace with new including all necessary fittings.</u>				
		H3			
360	15mm Galvanised pipes	No	1	R	-
361	22mm Galvanised pipes	No	1	R	-
362	28mm Galvanised pipes	No	1	R	-
363	32mm Galvanised pipes	No	1	R	-
364	50mm Galvanised pipes	No	1	R	-
365	65mm Galvanised pipes	No	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths exceeding 1m and replace with new including all necessary fittings.</u>				
		H3			
366	15mm Galvanised pipes	m	1	R	-
367	22mm Galvanised pipes	m	1	R	-
368	28mm Galvanised pipes	m	1	R	-
369	32mm Galvanised pipes	m	1	R	-

370	50mm Galvanised pipes	m	1	R	-
371	65mm Galvanised pipes	m	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged fittings to existing pipes and replace with new including making good all works disturbed.</u>		H3		
372	15mm Galvanised fittings	No	1	R	-
373	22mm Galvanised fittings	No	1	R	-
374	28mm Galvanised fittings	No	1	R	-
375	32mm Galvanised fittings	No	1	R	-
376	50mm Galvanised fittings	No	1	R	-
377	65mm Galvanised fittings	No	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths not exceeding 0,5m and replace with new including all necessary fittings.</u>		H3		
378	15mm uPVC pipes	No	1	R	-
379	22mm uPVC pipes	No	1	R	-
380	28mm uPVC pipes	No	1	R	-
381	32mm uPVC pipes	No	1	R	-
382	50mm uPVC pipes	No	1		
383	65mm uPVC pipes	No	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths exceeding 0,5m but not exceeding 1m and replace with new including all necessary fittings.</u>		H3		
384	15mm uPVC pipes	No	1	R	-
385	22mm uPVC pipes	No	1	R	-
386	28mm uPVC pipes	No	1	R	-
387	32mm uPVC pipes	No	1	R	-
388	50mm uPVC pipes	No	1	R	-
389	65mm uPVC pipes	No	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths exceeding 1m and replace with new including all necessary fittings.</u>		H3		
390	15mm uPVC pipes	m	1	R	-
391	22mm uPVC pipes	m	1	R	-

392	28mm uPVC pipes	m	1	R	-
393	32mm uPVC pipes	m	1	R	-
394	50mm uPVC pipes	m	1	R	-
395	65mm uPVC pipes	m	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged fittings to existing pipes and replace with new including making good all works disturbed.</u>	H3			
396	15mm uPVC fittings	No	1	R	-
397	22mm uPVC fittings	No	1	R	-
398	28mm uPVC fittings	No	1	R	-
399	32mm uPVC fittings	No	1	R	-
400	50mm uPVC fittings	No	1	R	-
401	65mm uPVC fittings	No	1	R	-
	<u>Cut out and remove damaged sections of existing pipes in lengths not exceeding 0,5m and replace with new including all necessary joining fittings.</u>	H3			
402	50mm diameter uPVC pipes	No	1	R	-
403	100mm diameter uPVC pipes	No	1	R	-
	<u>Cut out and remove damaged sections of existing pipes in lengths exceeding 0,5m but not exceeding 1m and replace with new including all necessary joining fittings.</u>	H3			
404	50mm diameter uPVC pipes	m	1	R	-
405	100mm diameter uPVC pipes	m	1	R	-
	<u>Cut out and remove damaged sections of existing pipes in lengths exceeding 1m and replace with new including all necessary joining fittings.</u>	H3			
406	50mm diameter uPVC pipes	No	1	R	-
407	100mm diameter uPVC pipes	No	1	R	-
	<u>Cut out and remove damaged fittings on existing pipes and replace with new including making good all works disturbed.</u>	H3			
408	50mm diameter uPVC fittings	No	1	R	-
409	100mm diameter uPVC fittings	No	1	R	-
	<u>Cut out and remove damaged sections of existing pipes in lengths not exceeding 0,5m and replace with new including all necessary joining fittings.</u>	H3			
410	50mm diameter cast iron pipes	No	1	R	-
411	100mm diameter cast iron pipes	No	1	R	-

	<u>Cut out and remove damaged sections of existing pipes in lengths exceeding 0,5m but not exceeding 1m and replace with new including all necessary joining fittings.</u>	H3			
412	50mm diameter cast iron pipes	m	1	R	-
413	100mm diameter cast iron pipes	m	1	R	-
	<u>Cut out and remove damaged sections of existing pipes in lengths exceeding 1m and replace with new including all necessary joining fittings.</u>	H3			
414	50mm diameter cast iron pipes	m	1	R	-
415	100mm diameter cast iron pipes	m	1	R	-
	<u>Cut out and remove damaged fittings on existing pipes and replace with new including making good all works disturbed.</u>	H3			
416	50mm diameter cast iron fittings	No	1	R	-
417	100mm diameter cast iron fittings	No	1	R	-
	<u>Locate and unblock blocked waste and sewer pipes and make good all works disturbed.</u>	H3			
418	50mm diameter uPVC or cast iron pipes	m	1	R	-
419	100mm diameter uPVC or cast iron pipes	m	1	R	-
	<u>Fix firmly into position loose/shaking sanitary fittings, etc</u>	H3			
420	Stainless steel wash hand basin	No	1	R	-
421	Stainless steel sink and drainer	No	1	R	-
422	Wash hand basin	No	1	R	-
423	Wash hand basin on pedestal	No	1	R	-
424	Pedestal only	No	1	R	-
425	WC pan only	No	1	R	-
426	WC pan with cistern	No	1	R	-
427	WC pan with flush valve	No	1	R	-
428	Cistern and internal flushing mechanism	No	1	R	-
429	Cistern only	No	1	R	-
430	Cistern internal flushing mechanism only	No	1	R	-
431	WC seat and cover	No	1	R	-
432	WC pan connector	No	1	R	-
433	Wall hung urinal with flush valve	No	1	R	-
434	Wall hung urinal only	No	1	R	-

435	Urinal flush valve	No	1	R	-
	<u>TRAPS ETC Carefully remove the following traps, make water tight and make good all works disturbed "Marley" or Similar approved</u>	H3			
436	32mm Reseal "P" or "S" trap	No	1	R	-
437	40mm Bath trap complete with overflow outlet and pipe	No	1	R	-
438	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	1	R	-
	<u>"Vulcathene" or Similar approved</u>	H3			
439	40mm Anti-vac bottle trap	No	1	R	-
	<u>"Approved" Chromium plated</u>	H3			
440	40mm Chrome plated Bottle trap	No	1	R	-
	<u>"Cobra Watertech" or Similar approved</u>	H3			
441	75mm Chrome Plated hinged urinal domical grating	No	1	R	-
	<u>TAPS, VALVES, ETC Shut off water supply and carefully remove the following existing taps, valves, e.t.c, not exceeding 50mm diameter Brass</u>	H3			
442	Stopcock	No	1	R	-
443	Fullway gate valve	No	1	R	-
444	Bibcock with hose union	No	1	R	-
445	Non-return valve	No	1	R	-
	<u>"Cobra Watertech" or Similar</u>	H3			
446	Chrome Plated angle regulating valve	No	1	R	-
447	Chrome Plated stopcock	No	1	R	-
448	Chrome Plated "Star" underwall pattern stopcock	No	1	R	-
449	Fullway gate valve	No	1	R	-
450	Bibcock	No	1	R	-
451	Bibcock with hose union	No	1	R	-
452	Chrome Plated bibcock	No	1	R	-
453	Chrome Plated pillarcock	No	1	R	-
454	Chrome Plated single taphole basin mixer	No	1	R	-
455	Chrome Plated sink mixer	No	1	R	-
456	Chrome Plated bath mixer	No	1	R	-

457	Chrome Plated bath mixer with hand shower	No	1	R	-
458	Chrome Plated shower mixer	No	1	R	-
459	Chrome Plated bath spout	No	1	R	-
460	Chrome Plated shower rose	No	1	R	-
461	Chrome Plated overhead shower arm	No	1	R	-
462	In-line strainer	No	1	R	-
463	Chrome Plated fullway ballcock	No	1	R	-
464	Fullway ballcock	No	1	R	-
465	PB1.10RB vacuum breaker	No	1	R	-
466	PA1.1RB "Kwikflo" 400 kPa pressure reducing valve	No	1	R	-
467	"Flushmaster Junior" toilet flush valve	No	1	R	-
468	"Flushmaster Junior" urinal flush valve	No	1	R	-
469	"Flushmaster" toilet flush valve	No	1	R	-
	<u>Fix firmly into position existing loose/shaking taps, valves, etc not exceeding 50mm diameter Brass</u>	H3			
470	Stopcock	No	1	R	-
471	Fullway gate valve	No	1	R	-
472	Bibcock with hose union	No	1	R	-
473	Non-return valve	No	1	R	-
	<u>"Cobra Watertech" or Similar</u>	H3			
474	Chrome Plated angle regulating valve	No	1	R	-
475	Chrome Plated stopcock	No	1	R	-
476	Chrome Plated "Star" underwall pattern stopcock	No	1	R	-
477	Fullway gate valve	No	1	R	-
478	Bibcock	No	1	R	-
479	Bibcock with hose union	No	1	R	-
480	Chrome Plated bibcock	No	1	R	-
481	Chrome Plated pillarcock	No	1	R	-
482	Chrome Plated single taphole basin mixer	No	1	R	-
483	Chrome Plated sink mixer	No	1	R	-
484	Chrome Plated bath mixer	No	1	R	-
485	Chrome Plated bath mixer with hand shower	No	1	R	-

486	Chrome Plated shower mixer	No	1	R	-
487	Chrome Plated bath spout	No	1	R	-
488	Chrome Plated shower rose	No	1	R	-
489	Chrome Plated overhead shower arm	No	1	R	-
490	In-line strainer	No	1	R	-
491	Chrome Plated fullway ballcock	No	1	R	-
492	Fullway ballcock	No	1	R	-
493	PB1.10RB vacuum breaker	No	1	R	-
494	PA1.1RB "Kwikflo" 400 kPa pressure reducing valve	No	1	R	-
495	"Flushmaster Junior" toilet flush valve	No	1	R	-
496	"Flushmaster Junior" urinal flush valve	No	1	R	-
497	"Flushmaster" toilet flush valve	No	1	R	-
<u>Fix firmly into position existing loose/shaking fire appliances</u>		H3			
498	"Everyway" hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	1	R	-
499	4.5kg Dry chemical fire extinguisher	No	1	R	-
500	9kg Dry chemical fire extinguisher	No	1	R	-
<u>Carefully remove the following fire appliances</u>		H3			
501	"Everyway" hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	1	R	-
502	4.5kg Dry chemical fire extinguisher	No	1	R	-
503	9kg Dry chemical fire extinguisher	No	1	R	-
<u>Service the following appliances and leave in perfect working order including making good all works disturbed</u>		H3			
504	"Everyway" hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	1	R	-
505	4.5kg Dry chemical fire extinguisher	No	1	R	-
506	9kg Dry chemical fire extinguisher	No	1	R	-
<u>MAKING GOOD OF FINISHES ETC TILING</u>		H3			
509	Carefully hack out and remove damaged sections of existing ceramic wall tiles exceeding 0,6m2 but not exceeding 1,0m2 and replace with new pointed neat to match existing	No	1	R	-

510	Carefully hack out and remove damaged sections of existing ceramic wall tiles and prepare surface to receive new wall tiles to match the existing (New wall tiles elsewhere measured)	m2	1	R	-
513	Carefully hack out and remove damaged sections of existing ceramic floor tiles exceeding 0,6m2 but not exceeding 1,0m2 and replace with new pointed neat to match existing	No	1	R	-
514	Carefully hack out and remove damaged sections of existing ceramic floor tiles and prepare surface to receive new floor tiles to match existing (New floor tiles elsewhere measured)	m2	1	R	-
517	Carefully hack out and remove damaged sections of existing terrazzo floor tiles exceeding 0,6m2 but not exceeding 1,0m2 and replace with new pointed neat to match existing	No	1	R	-
518	Carefully hack out and remove damaged sections of existing terrazzo floor tiles and prepare surface to receive new floor tiles to match existing (New terrazzo floor tiles elsewhere measured)	m2	1	R	-
	<u>FACE BRICKWORK IN REPAIRS External facings in approved face bricks (FBS) with a PC Amount of R3 500.00 (Three thousand rand) per thousand bricks delivered to site (excluding VAT) pointed with square recessed horizontal and vertical joints.</u>	H3		R	-
519	Half brick wall in facings in patchwork including all bonding to existing facebrickwork (full value item)	m2	1	R	-
	<u>Examination and repair of existing roof covering</u>	H3			
520	Carefully examine/check existing sheet metal roof covering, replace/make good any defective sheets and check roof screws/bolts and replace where necessary (to ensure watertightness of roofs)	m2	1	R	-
521	Carefully examine/check existing vertical sheet metal cladding, replace/make good any defective sheets and check roof screws/bolts and replace where necessary (to ensure watertightness of roofs)	m2	1	R	-
522	Carefully examine/check/clean existing gutters, replace/make good any defective gutters and check roof joints and replace where necessary (to ensure watertightness of gutters)	m	1	R	-
	<u>Cut off and remove damaged timbers at eaves</u>	H3			
523	Cut off 38 x 114mm roof trusses in repairs	m	1	R	-
524	Cut off 38 x 152mm roof trusses in repairs	m	1	R	-
525	Cut off 50 x 76mm Purlins	m	1	R	-
	<u>Supply and installation of new sawn SAP Grade 6 timbers in repair works at eaves including all necessary propping, insertion of new timbers, all cutting, bolting, etc required in executing repair works</u>	H3			
526	38 x 114mm Bolted roof truss members in length not exceeding 2400mm	m	1	R	-

527	38 x 152mm Bolted roof truss members in lengths not exceeding 2400mm	m	1	R	-
528	38 x 152mm Bolted roof truss members in lengths exceeding 2400mm and not exceeding 3900mm	m	1	R	-
529	50 x 70mm Purlins	m	1	R	-
	<u>Cut off and remove damaged timbers in roof space</u>	H3			
530	Cut off 38 x 114mm roof trusses in repairs	m	1	R	-
531	Cut off 38 x 152mm roof trusses in repairs	m	1	R	-
532	Cut off 50 x 76mm Purlins	m	1	R	-
	<u>Supply and installation of new sawn SAP Grade 6 timbers in repair works in roof space including all necessary propping, insertion of new roof timbers, all cutting, bolting, etc required in executing repair works</u>	H3			
533	38 x 114mm Bolted roof truss members in length not exceeding 2400mm	m	1	R	-
534	38 x 114mm Bolted roof truss members in length exceeding 2400mm and not exceeding 3900mm	m	1	R	-
535	38 x 152mm Bolted roof truss members in lengths not exceeding 2400mm	m	1	R	-
536	38 x 152mm Bolted roof truss members in lengths exceeding 2400mm and not exceeding 3900mm	m	1	R	-
537	50 x 76mm Purlins	m	1	R	-
	<u>Walls Clean down by hand with an approved cleaning agent and wash down</u>	H3			
538	Existing facebrick walls	m2	1	R	-
	<u>Wash down with high pressure low volume water jet</u>	H3			
539	On existing external facebrick walls	m2	1	R	-
	<u>OPENINGS THROUGH EXISTING WALLS ETC Altering openings</u>	H3			
540	Altering opening in 220mm brick wall where 1000 x 1000mm high steel window removed to form opening for new double door and frame 1624 x 2032mm high overall by breaking out brickwork on both sides and bottom including necessary precast concrete lintel and making good plaster on one side and into reveals and face brickwork on other side and into reveals with concrete with quarry tile finish to threshold (new door and frame and making good paintwork elsewhere)	No	1	R	-
	<u>Breaking out for and forming plain openings through brick walls including necessary precast concrete lintels and making good plaster on both sides and into reveals with concrete thresholds with steel trowelled finish (making good paintwork elsewhere)</u>	H3			

541	Opening 1000 x 1000mm high through 220 brick wall	No	1	R	-
542	Opening for door with timber frame 813 x 2032mm high overall through 220mm brick wall	No	1	R	-
	<u>Breaking out for and forming openings through brick walls for new doors and frames including necessary precast concrete lintels and making good plaster on both sides and into reveals with concrete thresholds with steel trowelled finish (new doors and frames and making good paintwork elsewhere)</u>	H3			
543	Opening 1000 x 1000mm high through 220 brick wall	No	1	R	-
544	Opening for door with timber frame 813 x 2032mm high overall through 220mm brick wall	No	1	R	-
	<u>Breaking out for and forming openings through brick walls for new windows including necessary precast concrete lintels and making good plaster on both sides and into reveals (new windows and making good paintwork elsewhere)</u>	H3			
545	Opening for window 1000 x 1000mm high through 220mm brick wall	No	1	R	-
	<u>Breaking out for and forming openings through brick walls for new windows including necessary precast concrete lintels and making good plaster on one side and into reveals and face brickwork on other side and into reveals (new windows and making good paintwork elsewhere)</u>	H3		R	-
546	Opening for window 1000 x 1000mm high through 220mm brick wall	No	1	R	-
				R	-

APPOINTMENT OF INFRASTRUCTURE TERM CONTRACTORS FOR THE MAINTENANCE OF ALL EDUCATION BUILDING AND RELATED INFRASTRUCTURE WORKS OF THE MPUMALANGA DEPARTMENT OF EDUCATION FOR A PERIOD OF THREE YEARS (3)

<u>SECTION NO. 1</u>					
<u>BILL NO. 3</u>					
<u>FOUNDATIONS (PROVISIONAL)</u>					
<u>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 104 for CPAP formula purposes</u>					
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Nature of ground</u>					
<u>The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock"</u>					
<u>Carting away of excavated material</u>					
<u>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</u>					
<u>EARTHWORKS</u>					
<u>SITE CLEARANCE ETC</u>					
<u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	1	R	-
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	1	R	-
<u>REMOVAL OF TREES ETC Taking out and removing, grubbing up roots and filling in holes</u>					
3	Tree stump exceeding 200mm and not exceeding 500mm girth	No	1	R	-
4	Tree stump exceeding 500mm and not exceeding 1000mm girth	No	1	R	-
<u>Cutting down and removing, grubbing up roots and filling in holes</u>					
5	Hedge not exceeding 1000mm high	m	1	R	-
6	Hedge exceeding 1000mm and not exceeding 2000mm high	m	1	R	-
7	Tree exceeding 200mm and not exceeding 500mm girth	No	1	R	-
8	Tree exceeding 500mm and not exceeding 1000mm girth	No	1	R	-

<u>BULK EXCAVATION, FILLING, ETC User Note: This section is given as an alternative option and in the event of it being exercised the excavation, filling, etc other than bulk is to be given under the later section Open face excavation in earth over sloping site</u>					
	H3				
9 Open face excavation	m3	1	R	-	
10 Extra over bulk excavation in earth for excavation in Soft rock	m3	1	R	-	
11 Hard rock	m3	1	R	-	
12 Extra over all excavations for carting away Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	1	R	-	
13 Surplus material from excavations and/or stock piles on site to a dumping site situated approximately 3km from the building site	m3	1	R	-	
14 Risk of collapse of excavations Sides of bulk excavations not exceeding 1,5m deep	m2	1	R	-	
15 Sides of bulk excavations exceeding 1,5m deep	m2	1	R	-	
16 Keeping excavations free of water Keeping excavations free of all water other than subterranean water	Item	1	R	-	
<u>FILLING, ETC</u>					
	H3				
17 Earth filling obtained from the excavations (not compacted) In prescribed stock piles on site	m3	1	R	-	
18 Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density Over site	m3	1	R	-	
19 Selected material supplied by the contractor and compacted to 95% Mod AASHTO maximum density Over site	m3	1	R	-	
20 Compaction of surfaces Compaction of ground surface under floors etc including scarifying for a depth of 150mm and compacting to 98% Mod AASHTO Density	m3	1	R	-	
21 Prescribed density tests on filling "Modified AASHTO Density" test	No	1	R	-	
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK EXCAVATION</u>					
	H3				
22 Excavation in earth not exceeding 2m deep Trenches	m3	1	R	-	
23 Holes	m3	1	R	-	
24 Trenches and holes for thickening under surface beds etc	m3	1	R	-	
25 Extra over bulk excavation in earth for excavation in Soft rock	m3	1	R	-	
26 Hard rock	m3	1	R	-	
27 Extra over bulk excavation in earth for breaking up and removing Brickwork	m3	1	R	-	

28	Unreinforced concrete	m3	1	R	-
29	Reinforced concrete	m3	1	R	-
30	Extra over trench and hole excavations in earth for excavation in Soft rock	m3	1	R	-
31	Hard rock	m3	1	R	-
32	Extra over all excavations for carting away Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	1	R	-
33	Risk of collapse of excavations Sides of trench and hole excavations not exceeding 1,5m deep	m2	1	R	-
34	Sides of trench and hole excavations exceeding 1,5m deep	m2	1	R	-
35	Keeping excavations free of water Keeping excavations free of all water other than subterranean water	Item	1	R	-
36	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density Under floors, steps, pavings, etc	m3	1	R	-
37	Backfilling to trenches, holes, etc	m3	1	R	-
38	Earth filling supplied by the contractor compacted to 95% Mod AASHTO density Under floors, steps, pavings, etc	m3	1	R	-
39	Coarse river sand filling supplied by the contractor Under floors etc	m3	1	R	-
40	Garden soil filling obtained from the excavations and/or prescribed stockpiles on site (not compacted) Over site	m3	1	R	-
	<u>SOIL POISONING</u>	H3			
	<u>Soil Insecticide</u>	H3			
41	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	1	R	-
42	To bottoms and sides of trenches	m2	1	R	-
	<u>GRASSING</u>	H3			
43	Grassing of roots in rows "Kikuyu" grass over site	m2	1	R	-
44	Grass on sports fields	m2	1	R	-
45	Fertilizing Fertilizing grassed areas with fertilizer after completion of planting	m2	1	R	-
46	Maintenance Maintenance of grassed areas for a period of 6 months (total area approximately 100 m2) including regularly weeding and irrigating as necessary	Item	1	R	-
				R	-

APPOINTMENT OF INFRASTRUCTURE TERM CONTRACTORS FOR THE MAINTENANCE OF ALL EDUCATION BUILDING AND RELATED INFRASTRUCTURE WORKS OF THE MPUMALANGA DEPARTMENT OF EDUCATION FOR A PERIOD OF THREE YEARS (3)

SECTION NO. 1					
BILL NO. 4	H1				
CONCRETE, FORMWORK AND REINFORCEMENT	H1				
NOTE :Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 110 for CPAP formula purposes					
SUPPLEMENTARY PREAMBLES	H2				
<u>Cost of tests</u>	H3				
<u>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Principal Agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately)</u>					
Formwork	H3				
<u>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</u>					
<u>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</u>					
<u>Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</u>					
<u>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</u>					
UNREINFORCED CONCRETE	H3				
25Mpa/19mm concrete	H3				
1 Ramps	m3	1		R	-
2 Steps, urinal steps, cupboard platforms, etc	m3	1		R	-
UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES 25MPa/19mm concrete	H3				
3 Surface blinding under footings and bases	m3	1		R	-

4	Strip footings	m3	1	R	-
5	Surface beds	m3	1	R	-
6	Surface beds on waterproofing	m3	1	R	-
7	Surface beds cast in panels	m3	1	R	-
8	Surface beds cast in panels on waterproofing	m3	1	R	-
9	Ramps	m3	1	R	-
	<u>REINFORCED CONCRETE</u>	H3			
	<u>30Mpa/19mm concrete</u>	H3			
10	Strip footings	m3	1	R	-
11	Bases	m3	1	R	-
12	Foundation beams	m3	1	R	-
13	Surface beds on waterproofing	m3	1	R	-
14	Surface beds cast in panels	m3	1	R	-
15	Surface beds cast in panels on waterproofing	m3	1	R	-
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>	H3			
	<u>30Mpa/19mm concrete</u>	H3			
16	Slabs including beams and inverted beams	m3	1	R	-
17	Isolated beams	m3	1	R	-
18	Stairs including landings, beams and inverted beams	m3	1	R	-
19	Columns in foundations (Provisional)	m3	1	R	-
20	Columns	m3	1	R	-
	<u>TEST BLOCKS</u>	H3			
21	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	1	R	-
	<u>CONCRETE SUNDRIES</u>	H3			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>	H3			
22	Surface beds, slabs, etc	m2	1	R	-
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>	H3			
23	Surface beds, slabs, etc	m2	1	R	-
	<u>Finishing top surfaces of concrete smooth with a power float</u>	H3			

24	Surface beds, slabs, etc	m2	1	R	-
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>	H3			
	<u>Rough formwork to sides</u>	H3			
25	Foundation beams (Provisional)	m2	1	R	-
26	Rectangular stub columns in foundations (Provisional)	m2	1	R	-
27	Rectangular columns in foundations (Provisional)	m2	1	R	-
28	Rectangular columns	m2	1	R	-
29	Beams	m2	1	R	-
	<u>Smooth formwork to circular columns</u>	H3			
30	500mm Diameter column 3000m high	No	1	R	-
	<u>Rough formwork to soffits</u>	H3			
31	Slabs propped up not exceeding 1.5m high	m2	1	R	-
	<u>Rough formwork to sides and soffits</u>	H3			
32	Beams propped up not exceeding 1.5m high	m2	1	R	-
	<u>REINFORCEMENT</u>	H3			
	<u>REINFORCEMENT (PROVISIONAL)</u>	H3			
	<u>Mild steel reinforcement to structural concrete work</u>	H3			
33	40mm Diameter bars	t	1	R	-
34	32mm Diameter bars	t	1	R	-
35	25mm Diameter bars	t	1	R	-
36	20mm Diameter bars	t	1	R	-
37	16mm Diameter bars	t	1	R	-
38	12mm Diameter bars	t	1	R	-
39	10mm Diameter bars	t	1	R	-
40	8mm Diameter bars	t	1	R	-
				R	-

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<u>SECTION NO. 1</u>					
<u>BILL NO. 5</u>	H1				
<u>MASONRY</u>	H1				
<u>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 116 for CPAP formula purposes</u>					
<u>SUPPLEMENTARY PREAMBLES</u>	H2				
<u>BRICKWORK</u>	H2				
<u>Sizes in descriptions</u>	H3				
<u>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</u>					
<u>Face bricks</u>	H3				
<u>Bricks shall be ordered timeously to obtain uniformity in size and colour</u>					
<u>Pointing</u>	H3				
<u>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.</u>					
<u>Brickwork of NFP bricks in class II mortar</u>	H3				
1 Piers	m3	1		R	-
2 Half brick walls	m2	1		R	-
3 Half brick walls in beamfilling	m2	1		R	-
4 One brick walls	m2	1		R	-
<u>SUPERSTRUCTURE</u>	H3				
<u>Brickwork of NFX bricks (14MPa nominal compressive strenght) in class I mortar in foundations</u>					
5 Piers	m3	1		R	-
6 Mass brick walls	m3	1		R	-
7 Half brick walls	m2	1		R	-
8 Half brick walls circular on plan	m2	1		R	-
9 Half brick walls against existing surfaces	m2	1		R	-
10 Half brick walls against waterproofing	m2	1		R	-
11 Half brick walls against waterproofing circular on plan	m2	1		R	-

12	Half brick walls in beamfilling	m2	1	R	-
13	Half brick walls in beamfilling circular on plan	m2	1	R	-
14	One brick walls	m2	1	R	-
15	One brick walls circular on plan	m2	1	R	-
16	One brick walls against existing surfaces	m2	1	R	-
17	One brick walls in beamfilling	m2	1	R	-
18	One brick walls in beamfilling circular on plan	m2	1	R	-
19	One and half brick walls	m2	1	R	-
20	One and half brick walls circular on plan	m2	1	R	-
21	One and half brick walls against existing surfaces	m2	1	R	-
22	Brick-on-edge header course sill laid sloping and slightly projecting	m	1	R	-
	<u>BRICKWORK SUNDRIES</u>	H3			
	<u>Joint forming material in movement joints</u>	H3			
23	10mm Bitumen impregnated soft board built in vertically between / through brick skins	m2	1	R	-
	<u>Brickwork reinforcement</u>	H3			
24	75mm Wide reinforcement built in horizontally	m	1	R	-
25	75mm Wide reinforcement built in horizontally circular on plan	m	1	R	-
26	150mm Wide reinforcement built in horizontally	m	1	R	-
27	150mm Wide reinforcement built in horizontally circular on plan	m	1	R	-
28	230mm Wide reinforcement built in horizontally	m	1	R	-
	<u>Galvanised hoop iron cramps, ties, etc</u>	H3			
29	30 x 1,6mm Wall tie 500mm long with one end shot pinned to concrete and other end built into brickwork	No	1	R	-
	<u>FACE BRICKWORK</u>	H3			
	<u>Facebrick pointed with recessed horizontal and vertical joints to match existing (PC Sum R3500.00/1000 delivered to site)</u>	H3			
30	Extra over brickwork for face brickwork	m2	1	R	-
31	Extra over brickwork for face brickwork circular on plan.	m2	1	R	-
32	Extra over brick-on-edge header course sill laid sloping and slightly projecting	m	1	R	-

33	Extra over brick-on-edge header course linte	m	1	R	-
34	Cutting toothings and bonding new face brickwork to existing	m2	1	R	-
	<u>QUARRY TILES</u>	H3			
	<u>15mm x 150mm wide quarry tiles on brickwork with continuous joints in both directions and pointed on all exposed surfaces</u>	H3			
35	Carefully remove and set aside for re-use quarry tiles sill and prepare surface to receive new (New quarry tiles elsewhere measured)	m	1	R	-
36	Carefully cut out and remove damaged quarry tiles sill and prepare surface to receive new (New quarry tiles elsewhere measured)	m	1	R	-
37	150mm Wide sill tiles set flat and slightly projecting	m	1	R	-
38	Fix only removed 150mm Wide sill tiles set flat and slightly projecting	m	1	R	-
	<u>NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS</u>	H3			
	<u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc</u>	H3			
39	Carefully cut out and remove damaged sections of fibre cement sill and prepare surface to receive new (New fibre cement tiles elsewhere measured)	m	1	R	-
40	15mm x150mm Wide sills set flat and slightly projecting	m	1	R	-
				R	-

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<u>SECTION NO. 1</u>					
<u>BILL NO. 6</u>		H1			
<u>WATERPROOFING</u>		H1			
NOTE :Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 120 for CPAP formula purposes					
<u>DAMP-PROOFING OF WALLS AND FLOORS</u>		H2			
<u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u>		H3			
1	110mm In walls	m	1	R	-
2	230mm In walls	m	1	R	-
<u>One layer of 375 micron "Consol Plastics Gunplas USB Green" waterproof sealed at laps with "Gunplas pressure sensitive tape"</u>		H3			
3	Under surface beds, ramps, pavings, steps e.t.c	m2	1	R	-
<u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u>		H2			
<u>Two layers 4mm "Derbigum SP" fully bonded waterproofing including turn-ups and turn-downs at edges well jointed to existing</u>		H3			
4	On flat floors	m2	1	R	-
5	On walls	m2	1	R	-
6	On bottoms and sides of floor ducts, channels, etc	m2	1	R	-
7	On bottoms and sides of box gutters	m2	1	R	-
8	On bottoms and sides of planter boxes	m2	1	R	-
9	Flashing strip not exceeding 300mm girth at turn-ups including sealing top edge into groove with mastic	m	1	R	-
<u>PROTECTIVE STONE DRESSING</u>		H2			
<u>25mm crushed stone dressing evenly spread with larger stones around outlets</u>		H3			
10	50mm Thick on waterproofing to flat roofs	m2	1	R	-
<u>20mm River stone pebble dressing evenly spread with larger stones around outlets</u>		H3			
11	50mm Thick on waterproofing to flat roofs	m2	1	R	-
<u>PROTECTIVE ROOFING PAINT</u>		H2			
12	Two coats "Silvakote" bituminous aluminium paint On waterproofing to roofs	m2	1	R	-

13	On waterproofing to box gutters	m2	1	R	-
	<u>JOINT SEALANTS ETC</u>	H2			
	<u>Fosroc Thioflex 600 two-part grey polysulphide sealing compound including backing cord, bond breaker, primer etc</u>	H3			
14	10 x 10mm in vertical/horizontal expansion joints in concrete work/brickwork	m	1	R	-
15	10 x 10mm in vertical/horizontal expansion joints in concrete work/brickwork including raking out existing expansion joint filler as necessary	m	1	R	-
				R	-

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<u>SECTION NO. 1</u>					
<u>BILL NO. 7</u>	H3				
<u>ROOF COVERING</u>	H3				
<u>Sundries</u>	H3				
<u>Galvanised hoop iron cramps, ties, etc</u>	H3				
1 30 x 1,6mm Metal perforated strip roof tie 1500mm long with one end shot pinned to concrete work / brickwork and other end nailed around roof timber trusses	No	1		R	-
2 1,6mm Truss hangers nailed to fasten timber trusses	No	1		R	-
3 1,6mm Hurricane clips nailed to fasten timber trusses	No	1		R	-
4 150 x 100 x 1,6mm Fasteners nailed to fasten roof timber trusses at joints	No	1		R	-
5 10mm diameter bolt and nut	No	1		R	-
<u>TILES</u>	H3				
<u>300mm x 420mm "Marley Monarch Designer range- Verona" or similar to match existing concrete tiles laid on and including underlay of 150 micron "Yellow polyethene" plastic sheeting with 75mm laped and sealed joints and nailed through underlay with non-corrosive tile nails and/or fixed with suitable non-corrosive tile clips as required nailed through underlay to 38 x 38mm sawn softwood battens at 300mm centres</u>	H3				
6 Roof covering with pitch not exceeding 25 degrees	m2	1		R	-
7 Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour	m	1		R	-
8 Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour	m	1		R	-
9 Verge capping tiles to match roofing tiles fixed with non-corrosive fixing accessories	m	1		R	-
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>	H3				
<u>0,6mm corrugated Z275 spelter galvanised sheet steel or similar to match existing profile fixed to timber/steel purlins or rails</u>	H3				
10 Roof covering with pitch not exceeding 25 degrees	m2	1		R	-
11 Side cladding	m2	1		R	-
12 Ridge capping 450mm girth	m	1		R	-
13 Hip capping 450mm girth	m	1		R	-
14 Side wall flashing 450mm girth	m	1		R	-

15	Head wall flashing 450mm girth	m	1	R	-
16	Gable trim 250mm girth	m	1	R	-
17	Apex flashing 450mm girth	m	1	R	-
	<u>0,6mm "Zincalume" or similar to match existing Z275 spelter galvanised ribbed sheet steel in single lengths fixed to timber/steel purlins or rails.</u>	H3			
18	0,6mm "zincalume" or similar to match existing Z275 spelter galvanised ribbed sheet steel in single lengths fixed to timber/steel purlins or rails. Roof covering with pitch not exceeding 25 degrees	m2	1	R	-
19	Side cladding	m2	1	R	-
20	Ridge capping 450mm girth	m	1	R	-
21	Hip capping 450mm girth	m	1	R	-
22	Side wall flashing 450mm girth	m	1	R	-
23	Head wall flashing 450mm girth	m	1	R	-
24	Gable trim 250mm girth	m	1	R	-
25	Apex flashing 450mm girth	m	1	R	-
				R	-

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<u>SECTION NO. 1</u>					
<u>BILL NO. 8</u>	H3				
<u>CARPENTRY AND JOINERY</u>	H3				
<u>SUPPLEMENTARY PREAMBLES</u>	H2				
<u>Particle board:</u>	H3				
Particle board shall comply with the following specifications: a) <u>SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type</u>					
<u>Joinery:</u>	H3				
<u>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc</u>					
<u>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</u>					
<u>Fixing</u>	H3				
<u>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</u>					
<u>Decorative laminate finish:</u>	H3				
<u>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</u>					
<u>EAVES , VERGES , ETC</u>	H3				
<u>"Everite" pressed nutec-cement</u>	H3				
1 12 x 225mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	1		R	-
<u>SKIRTINGS</u>	H3				
<u>Wrought Meranti</u>	H3				
2 19 x 76mm Skirting including 19mm quadrant bead nailed	m	1		R	-
<u>DOORS ETC</u>	H3				
<u>Wrought Meranti</u>	H3				
3 Meranti framed batten external single door	No	1		R	-
4 Meranti framed batten external double door (PC R4250.00/No)	No	1		R	-
5 Approved timber framed glazed single door (PC R4650.00/No)	No	1		R	-

6	Approved timber framed glazed double door (PC R7250.00/No)	No	1	R	-
7	Approved solid core flush single door (PC R2650.00/No)	No	1	R	-
8	Approved solid core flush double door (PC R4850.00/No)	No	1	R	-
9	Approved semi-solid core flush single door (PC R1650.00/No)	No	1	R	-
10	Approved semi-solid core flush double door (PC R3800.00/No)	No	1	R	-
11	Approved Hollow core flush single door (PC R650.00/No)	No	1	R	-
12	Approved hollow core flush double door (PC R1550.00/No)	No	1	R	-
	<u>FITTINGS</u>	H3			
	<u>General</u>	H3			
	<u>The following cupboard fittings have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc (refer Architect's drawings as attached to the back of these Bills of Quantities) Fittings to Classroom Store Shelving 350mm wide made up of 25mm thick hardwood top and 250 x 250mm high triangular mild steel brackets bolted to wall complete with paint and varnish</u>				
		H3			
	<u>Fittings to Classroom Store</u>	H3			
13	Shelving 350mm wide made up of 25mm thick hardwood top and 250 x 250mm high triangular mild steel brackets bolted to wall complete with paint and varnish	m	1	R	-
	<u>ROOFS ETC</u>	H3			
14	Plate nailed timber roof truss construction Truss construction to double pitched roof with hipped or gable ends and 2100mm high extreme including wall plates, trusses, jack rafters, permanent bracing including 38 x 38mm purlins/battens at not exceeding 300mm centres for concrete roof tile covering	m2	1	R	-
15	Truss construction to double pitched roof with hipped or gable ends and 2100mm high extreme including wall plates, trusses, jack rafters, permanent bracing including 38 x 52mm purlins/battens at not exceeding 900mm centres for corrugated roofing sheets	m2	1	R	-
16	Truss construction to double pitched roof with hipped or gable ends and 2100mm high extreme including wall plates, trusses, jack rafters, permanent bracing including 38 x 52mm purlins/battens at not exceeding 1500mm centres for IBR roofing sheets	m2	1	R	-

	<u>Sawn Softwood</u>	H3				
17	Sawn softwood 38 x 76 mm Wall plates	m	1		R	-
18	38 x 114 mm Wall plates	m	1		R	-
19	Sawn softwood grade 4 38 x 76 mm Runners (Provisional)	m	1		R	-
20	50 x 76 mm Runners (Provisional)	m	1		R	-
21	38 x 114 mm Cross bracing (Provisional)	m	1		R	-
22	50 x 152mm Geyser bearers on truss tie beams	m	1		R	-
					R	-

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<u>SECTION NO. 1</u>					
<u>BILL NO. 9</u>		H3			
<u>CEILING,PARTITIONS AND ACCESS FLOORING</u>		H3			
<u>SUPPLEMENTARY PREAMBLES</u>		H2			
Descriptions:		H3			
<u>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</u>					
<u>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere</u>					
<u>CEILINGS ETC</u>		H3			
<u>"Aerolite" Insulation</u>		H3			
1 75mm Insulation closely fitted and laid on top of brandering between roof timbers etc	m2		1	R	-
<u>NAILED UP CEILINGS</u>		H3			
<u>6.4mm "Rhino" gypsum plasterboard with H-Type pressed steel jointing strips</u>		H3			
2 Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres	m2		1	R	-
3 Sloping ceilings including 38 x 38mm sawn softwood brandering at 400mm centres	m2		1	R	-
4 Extra over ceiling for 650 x 650mm trap door of 38 x 50mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No		1	R	-
<u>"Rhino" Gypsum plaster cornices</u>		H3			
5 75mm Coved cornices	m		1	R	-
				R	-

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<u>SECTION NO. 1</u>					
<u>BILL NO. 10</u>		H1			
<u>FLOOR COVERINGS</u>		H1			
<u>2.5mm "Marley Superflex" or similar to match existing fully flexible vinyl sheeting (with welded joints)</u>		H1			
1	New Vinyl sheeting to match existing where damaged sections of Vinyl floor sheetings had been removed and well bonded to existing	m2	1	R	-
2	New Vinyl sheeting	m2	1	R	-
<u>300 x 300 x 2.0mm "Marley Superflex" or similar to match existing semi-flexible vinyl tiles</u>		H1			
3	New Vinyl sheeting to match existing where damaged sections of Vinyl floor sheetings had been removed and well bonded to existing	m2	1	R	-
4	New Vinyl sheeting	m2	1	R	-
<u>POLISH, SEALERS, ETC</u>		H1			
5	Three coats wax polish on vinyl flooring	m2	1	R	-
				R	-

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<u>SECTION NO. 1</u>					
<u>BILL NO 11</u>		H3			
<u>IRONMONGERY</u>		H3			
NOTE :Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 132 for CPAP formula purposes					
<u>HINGES, BOLTS, ETC</u>		H3			
1	Door hinges	No	1	R	-
2	Single action floor spring hinges	No	1	R	-
3	Double action floor spring hinges	No	1	R	-
4	Barrel bolt with keep fixed to metal/concrete	No	1	R	-
5	Flush bolt with keep fixed to metal/concrete	No	1	R	-
6	WC indicator bolt with keep fixed to metal/concrete	No	1	R	-
7	Panic bolt for single door with one keep let into concrete	No	1	R	-
8	Panic bolt for double door with one keep let into concrete	No	1	R	-
<u>CATCHES, CABIN HOOKS, ETC</u>		H3			
9	Ball catch	No	1	R	-
10	Single roller catch	No	1	R	-
11	Double roller catch	No	1	R	-
12	Fanlight catch	No	1	R	-
13	Fanlight stay	No	1	R	-
14	Fanlight friction sliding arm	No	1	R	-
15	Fanlight opener with cord and cleat	No	1	R	-
16	Cabin hook and eye	No	1	R	-
<u>LOCKS</u>		H3			
17	Padlock	No	1	R	-
18	Night latch	No	1	R	-
19	Bathroom lockset	No	1	R	-
20	Bathroom lockset with striking plate fixed to metal/timber	No	1	R	-
21	Three lever deadlock	No	1	R	-
22	Three lever rebated deadlock	No	1	R	-

23	Four lever deadlock	No	1	R	-
24	Four lever rebated deadlock	No	1	R	-
25	Two lever lockset	No	1	R	-
26	Two lever lockset with striking plate fixed to metal/timber	No	1	R	-
27	Two lever rebated lockset	No	1	R	-
28	Three lever lockset	No	1	R	-
29	Three lever lockset with striking plate fixed to metal/timber	No	1	R	-
30	Three lever rebated lockset	No	1	R	-
31	Four lever lockset	No	1	R	-
32	Four lever lockset with striking plate fixed to metal/timber	No	1	R	-
33	Four lever rebated lockset	No	1	R	-
34	Three lever sliding door lock	No	1	R	-
35	Four lever sliding door lock	No	1	R	-
36	Single cylinder deadlock	No	1	R	-
37	Single cylinder rebated deadlock	No	1	R	-
38	Double cylinder deadlock	No	1	R	-
39	Double cylinder rebated deadlock	No	1	R	-
40	Single cylinder lockset	No	1	R	-
41	Single cylinder lockset with striking plate fixed to metal/timber	No	1	R	-
42	Single cylinder rebated lockset	No	1	R	-
43	Double cylinder lockset	No	1	R	-
44	Double cylinder lockset with striking plate fixed to metal/timber	No	1	R	-
45	Double cylinder rebated lockset	No	1	R	-
46	Single cylinder sliding door lock	No	1	R	-
47	Double cylinder sliding door lock	No	1	R	-
	<u>HANDLES</u>	H3			
48	Door flush handle	No	1	R	-
49	Door knob	No	1	R	-
50	Door pull handle	No	1	R	-
51	Set of two door pull handles fixed back to back	No	1	R	-

	<u>PUSH PLATES AND KICKING PLATES</u>	H3			
52	Aluminium plates not exceeding 0,1m2	No	1	R	-
53	Aluminium plates exceeding 0,1m2 but not exceeding 0,3m2	No	1	R	-
54	Aluminium plates exceeding 0,3m2 but not exceeding 0,5m2	No	1	R	-
	<u>DOOR CLOSERS</u>	H3			
55	Door closer	No	1	R	-
56	Door closer with bracket	No	1	R	-
57	Concealed door closer	No	1	R	-
58	Concealed door closer with bracket	No	1	R	-
	<u>LETTERS, NAMEPLATES, ETC</u>	H3			
59	Brass or plastic letters/numerals	No	1	R	-
60	Perspex plate with engraved or painted letters/numerals/symbols not exceeding 0,1m2	No	1	R	-
61	Aluminium plate with engraved or painted letters/numerals/symbols not exceeding 0,1m2	No	1	R	-
	<u>PELMETS AND CURTAIN TRACKS</u>	H3			
62	Pressed steel pelmet with single or double curtain tracks including gliders, hangers and brackets	m	1	R	-
63	Soffit fixing plastic single or double curtain tracks including gliders, hangers and brackets	m	1	R	-
64	Face fixing plastic single or double curtain tracks including gliders, hangers and brackets and make good all works disturbed	m	1	R	-
65	Hospital cubicle curtain track including gliders, hangers and brackets	m	1	R	-
	<u>BATHROOM FITTINGS</u>	H3			
66	BATHROOM FITTINGS Chromium plated curtain or hanging rail not exceeding 1,0m long	No	1	R	-
67	Chromium plated curtain or hanging rail exceeding 1,0m but not exceeding 2,0m long	No	1	R	-
68	Chromium plated towel rail not exceeding 1,0m long	No	1	R	-
69	Toilet roll holder	No	1	R	-
70	Lockable toilet roll holder	No	1	R	-
71	Soap holder	No	1	R	-
72	Back grab rail not exceeding 1,0m long	No	1	R	-

73	Side grab rail not exceeding 1,0m girth	No	1	R	-
74	Bathroom cabinet	No	1	R	-
75	Soap dispenser	No	1	R	-
76	Electric hand-drier	No	1	R	-
	<u>SUNDRIES</u>	H3			
77	Rubber door stop	No	1	R	-
	<u>STEEL LOCKERS</u>	H3			
	<u>"Greenfield baseline Guardsman" steel lockers with standard baked enamel finish</u>	H3			
78	"GB002" locker 300 x 450 x 1800mm high	No	1	R	-
	<u>WRITING BOARDS, PINNING BOARDS, ETC</u>	H3			
	<u>"Virtrex" vitreous enamelled writing boards etc, to SABS CSK-36-1980</u>	H3			
79	Green writing board 4 800 x 1 140mm high consisting of two fixed panels each 2 400 x 1 140mm high complete with aluminium chalk rail, etc, plugged	No	1	R	-
	<u>"Parrot Products"</u>	H3			
80	"BD0476" 2 400 x 1 200mm Aluminium framed carpet bulletin board	No	1	R	-
				R	-

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<u>SECTION NO. 1</u>					
<u>BILL NO. 12</u>	H1				
<u>METALWORKS</u>	H1				
<u>SUPPLEMENTARY PREAMBLES</u>	H2				
<u>Descriptions</u>	H3				
<u>Descriptions of bolts shall be deemed to include nuts and washers</u>					
<u>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</u>					
<u>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</u>					
<u>WELDED SCREENS, GATES, ETC</u>	H2				
<u>Steel gates and Frames</u>	H1				
1 Single gate and frame 965 x 2 067mm high overall, the outer frame of 45 x 45 x 3mm hollow section bolted to wall with and including eight 70mm M80 expansion bolts and the gate 813 x 2 032mm high of 40 x 60 x 2mm hollow section frame with two 40 x 6mm flat section horizontal rails filled in with 20mm diameter vertical rails at 110mm centres fitted with one and a half pairs of suitable pin hinges welded to hollow section steel frame, complete with and including 150mm barrelbolt and padlock	No	1		R	-
2 Double gate and frame 2000 x 2 100mm high overall, the outer frame of 45 x 45 x 3mm hollow section bolted to wall with and including eight 70mm M80 expansion bolts and the gate 1890 x 2 032mm high of 40 x 60 x 2mm hollow section frame with two 40 x 6mm flat section horizontal rails filled in with 20mm diameter vertical rails at 110mm centres fitted with one and a half pairs of suitable pin hinges welded to hollow section steel frame, complete with and including 150mm barrelbolt and padlock	No	1		R	-
<u>PRESSED STEEL DOOR FRAMES</u>	H1				
<u>1,2mm Double rebated frames suitable for half brickwalls</u>	H1				
3 Frame for door 813 x 2 032mm high	No	1		R	-
4 Frame for double door 1500 x 2 032mm high	No	1		R	-
<u>1,2mm Double rebated frames suitable for one brickwalls</u>	H1				
5 Frame for door 813 x 2 032mm high	No	1		R	-
6 Frame for double door 1500 x 2 032mm high	No	1		R	-
<u>STEEL WINDOWS, DOORS ETC</u>	H1				

<u>Standard residential windows with type "B2" burglar bars to opening sashes</u>		H3				
7	Window type E7, 1 022 x 654mm high	No	1		R	-
8	Window type E4, 1 511 x 654mm high	No	1		R	-
<u>Standard industrial windows with type "B1" burglar bars to opening sashes</u>		H3				
9	Window type SS53, 1 616 x 1 445mm high	No	1		R	-
<u>Purpose made medium universal doors, sidelights, fanlights, etc</u>		H3				
10	Door 813 x 2032mm high side hung to open out with horizontal glazing bars and lock box, the bottom pane 300mm high filled in with kick plate, the door fitted with complete lock set	No	1		R	-
					R	-

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SECTION NO. 1					
BILL NO. 13		H3			
PLASTERING		H3			
NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 142 for CPAP formula purposes.					
SCREEDS		H2			
Screeds on concrete		H3			
Cement plaster on brickwork;		H3			
1	50mm Thick Average on floors and landings	m2	1	R	-
Cement plaster screeds Steel trowelled on concrete		H3			
2	50mm Thick Average on floors and landings	m2	1	R	-
GRANOLITHIC		H3			
Untinted granolithic on concrete		H3			
3	50mm Thick Average on floors and landings	m2	1	R	-
Tinted granolithic on concrete		H3			
4	50mm Thick Average on floors and landings	m2	1	R	-
INTERNAL PLASTER		H3			
Cement plaster on brickwork/concrete		H3			
5	One coat cement plaster on walls or concrete	m2	1	R	-
Sundries		H3			
6	Apply one coat rhinolite plaster to smoothen rough surfaces of plaster and prepare surface to receive painting. (Painting elsewhere measured)	m2	1	R	-
Cement plaster on brickwork/concrete		H3			
7	One coat cement plaster on walls or concrete	m2	1	R	-
Sundries		H3			
8	Apply one coat poly-filler to smoothen rough surfaces of plaster and prepare surface to receive painting. (Painting elsewhere measured)	m2	1	R	-
				R	-

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<u>SECTION NO. 1</u>					
<u>BILL NO. 14</u>		H1			
<u>TILING</u>		H1			
<p><u>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities. No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted.</u></p>					
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<u>Tiles supplied by Tile Africa or similar approved</u>		H1			
<u>Ceramic tile (PC Amount R200.00/m2)</u>		H1			
1	On walls	m2	1	R	-
2	On narrow widths	m2	1	R	-
<u>FLOOR TILING</u>		H1			
<u>Porcelain tile (PC Amount R250.00/m2)</u>		H1			
3	On floors and landings	m2	1	R	-
4	100mm High skirting	m	1	R	-
				R	-

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<u>SECTION NO. 1</u>				
<u>BILL NO. 15</u>	H3			
<u>PLUMBING AND DRAINAGE</u>	H3			
<u>SUPPLEMENTARY PREAMBLES</u>	H2			
<u>uPVC pipes and fittings:</u>	H3			
<u>Soil, waste and vent pipes and fittings shall be solvent weld jointed</u>				
<u>uPVC pressure pipes and fittings:</u>	H3			
<u>Pipes for water supply shall be of the class stated</u>				
<u>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</u>				
<u>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</u>				
<u>Copper pipes:</u>	H3			
<u>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. Fittings 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</u>				
<u>Fixing of pipes</u>	H3			
<u>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level</u>				
<u>Reducing fittings</u>	H3			
<u>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. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained</u>				
<u>Exposed concrete surfaces</u>	H3			

<u>Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster</u>					
<u>Excavations</u>					
H3					
<u>No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling</u>					
<u>"Soft rock" and "hard rock" shall be as defined in "Earthworks"</u>					
<u>Laying, backfilling, bedding, etc. of pipes</u>					
H3					
<u>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions</u>					
<u>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 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</u>					
<u>Flush pans</u>					
H3					
<u>Flush pans shall have straight or side outlets and "P" or "S" traps as necessary</u>					
<u>Stainless steel basins, sinks, wash troughs, urinals, etc.</u>					
H3					
<u>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</u>					
<u>Waste unions</u>					
H3					
<u>Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings</u>					
<u>RAINWATER DISPOSAL</u>					
H3					
<u>0,6mm galvanised sheet iron with chromadek finish</u>					
H3					
1	100 x 125mm Galvanised gutter fixed to rafter feet	m	1	R	-
2	Extra on 100 x 125mm square gutter for stop ends	No	1	R	-
3	Extra on 100 x 125mm square gutter for outlet to 60mm diameter downpipe	No	1	R	-
4	60mm diameter rainwater downpipe	m	1	R	-
5	Extra on 60mm rainwater downpipe for shoe	No	1	R	-
6	Extra over 60mm rainwater pipe for eaves offset	No	1	R	-
<u>"Fullbore" Cast iron outlets</u>					
H3					

7	76mm diameter 90 Degree side outlet	No	1	R	-
	<u>Sundries</u>	H3			
	<u>RAINWATER DISPOSAL</u>	H3			
8	50mm diameter x 300mm long galvanised mild steel spout	No	1	R	-
	<u>SANITARY FITTINGS (All items necessary to be replaced to match existing or similar approved)</u>	H3			
9	Stainless steel wash hand basin	No	1	R	-
10	Stainless steel sink and drainer	No	1	R	-
11	Wash hand basin	No	1	R	-
12	Wash hand basin on pedestal.	No	1	R	-
13	Pedestal only	No	1	R	-
14	WC pan only	No	1	R	-
15	WC pan with cistern	No	1	R	-
16	WC pan with flush valve	No	1	R	-
17	Cistern and internal flushing mechanism	No	1	R	-
18	Cistern only	No	1	R	-
19	Cistern internal flushing mechanism only	No	1	R	-
20	WC seat and cover	No	1	R	-
21	WC pan connector	No	1	R	-
22	Wall hung urinal with flush valve	No	1	R	-
23	Wall hung urinal only	No	1	R	-
24	Urinal flush valve	No	1	R	-
	<u>WASTE UNIONS ETC</u>	H3			
	<u>New</u>	H3			
25	32mm Bath overflow union (PC Sum R60.00/No)	No	1	R	-
26	32mm Basin waste union (PC Sum R60.00/No)	No	1	R	-
27	32mm waste union (PC Sum R45.00/No)	No	1	R	-
28	38mm Bath or sink waste union (PC Sum R60.00/No)	No	1	R	-
	<u>TRAPS ETC</u>	H3			
	<u>"Marley" or similar approved</u>	H3			
29	32mm Reseal "P" or "S" trap	No	1	R	-

30	40mm Bath trap complete with overflow outlet and pipe	No	1	R	-
31	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	1	R	-
	<u>"Vulcathene" or Similar approved</u>	H3			
32	40mm Anti-vac bottle trap	No	1	R	-
	<u>"Approved" Chromium Plated</u>	H3			
33	40mm Chrome plated Bottle trap	No	1	R	-
	<u>"Cobra Watertech" or similar approved</u>	H3			
34	75mm Chrome Plated hinged urinal domical grating	No	1	R	-
	<u>Brass</u>	H3			
35	Stopcock	No	1	R	-
36	Fullway gate valve	No	1	R	-
37	Bibcock with hose union	No	1	R	-
38	Non-return valve	No	1	R	-
	<u>"Cobra Watertech" or similar approved</u>	H3			
39	Chrome Plated angle regulating valve	No	1	R	-
40	Chrome Plated stopcock	No	1	R	-
41	Chrome Plated "Star" underwall pattern stopcock	No	1	R	-
42	Fullway gate valve	No	1	R	-
43	Bibcock	No	1	R	-
44	Bibcock with hose union	No	1	R	-
45	Chrome Plated bibcock	No	1	R	-
46	Chrome Plated pillarcock	No	1	R	-
47	Chrome Plated single taphole basin mixer	No	1	R	-
48	Chrome Plated sink mixer	No	1	R	-
49	Chrome Plated bath mixer	No	1	R	-
50	Chrome Plated bath mixer with hand shower	No	1	R	-
51	Chrome Plated shower mixer	No	1	R	-
52	Chrome Plated bath spout	No	1	R	-
53	Chrome Plated shower rose	No	1	R	-
54	Chrome Plated overhead shower arm	No	1	R	-
55	In-line strainer	No	1	R	-

56	Chrome Plated fullway ballcock	No	1	R	-
57	Fullway ballcock	No	1	R	-
58	PB1.10RB vacuum breaker	No	1	R	-
59	PA1.1RB "Kwikflo" 400 kPa pressure reducing valve	No	1	R	-
60	"Flushmaster Junior" toilet flush valve	No	1	R	-
61	"Flushmaster Junior" urinal flush valve	No	1	R	-
62	"Flushmaster" toilet flush valve	No	1	R	-
	<u>SANITARY PLUMBING</u>	H3			
	<u>Upvc Pipes</u>	H3			
63	40mm Diameter pipes	m	1	R	-
64	50mm Diameter pipes	m	1	R	-
65	110mm Diameter pipes	m	1	R	-
	<u>Extra-over for Upvc for fittings</u>	H3			
66	Extra over for uPVC for fittings 40mm Bend	No	1	R	-
67	50mm Bend	No	1	R	-
68	110mm Bend	No	1	R	-
69	40mm Junction	No	1	R	-
70	50mm Junction	No	1	R	-
71	110mm Junction	No	1	R	-
72	40mm Inspection junction	No	1	R	-
73	50mm Inspection junction	No	1	R	-
74	110mm Inspection junction	No	1	R	-
75	50mm Reducing junction	No	1	R	-
76	110mm Reducing junction	No	1	R	-
77	110mm Pan connector	No	1	R	-
78	110mm "GI Two way" vent valve	No	1	R	-
79	50mm "GI Two way" vent valve	No	1	R	-
	<u>HOT AND COLD WATER SERVICES</u>	H3			
	<u>Class 1 copper (hard drawn) pipes</u>	H3			
80	15mm Pipes to walls, etc	m	1	R	-
81	22mm Pipes to walls, etc	m	1	R	-

82	28mm Pipes to walls, etc	m	1	R	-
83	35mm Pipes to walls, etc	m	1	R	-
	<u>Extra-over class 1 copper (hard drawn) pipes for capillary fittings</u>	H3			
84	15mm Fittings	No	1	R	-
85	22mm Fittings	No	1	R	-
86	28mm Fittings	No	1	R	-
87	35mm Reducer	No	1	R	-
88	35mm Elbow	No	1	R	-
89	35mm Tee	No	1	R	-
	<u>Precast Concrete</u>	H3			
90	Precast concrete gulley, overall size 430 x 440mm, bedded and jointed in Class II mortar and pointed on all exposed faces.	No	1	R	-
	<u>TESTING</u>	H3			
91	Testing water pipe system	No	1	R	-
92	Testing sewer/waste pipe system	No	1	R	-
	<u>FIRE APPLIANCES ETC</u>	H3			
	<u>Fix only removed or new fire appliances and make good all works disturbed</u>	H3			
93	"Everyway" hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	1	R	-
94	4.5kg Dry chemical fire extinguisher	No	1	R	-
95	9kg Dry chemical fire extinguisher	No	1	R	-
				R	-

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<u>SECTION NO. 1</u>					
<u>BILL NO. 16</u>		H3			
<u>GLAZING</u>		H3			
<u>NOTE :Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 150 for CPAP formula purposes</u>					
<u>GLAZING TO METAL / WOOD WITH PUTTY OR BEADS</u>		H3			
<u>4mm Clear float glass</u>		H3			
1	Panes not exceeding 0,1 m2	m2	1	R	-
2	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	1	R	-
3	Panes exceeding 0,5m2 and not exceeding 2m2	m2	1	R	-
4	Panes exceeding 2m2 and not exceeding 4m2	m2	1	R	-
<u>4mm Patterned glass</u>		H3			
5	Panes not exceeding 0,1 m2	m2	1	R	-
6	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	1	R	-
7	Panes exceeding 0,5m2 and not exceeding 2m2	m2	1	R	-
8	Panes exceeding 2m2 and not exceeding 4m2	m2	1	R	-
<u>6mm georgian wired raft cast glass</u>		H3			
9	Panes not exceeding 0,1 m2	m2	1	R	-
10	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	1	R	-
11	Panes exceeding 0,5m2 and not exceeding 2m2	m2	1	R	-
12	Panes exceeding 2m2 and not exceeding 4m2	m2	1	R	-
<u>6mm Clear toughened safety glass</u>		H3			
13	Panes not exceeding 0,1 m2	m2	1	R	-
14	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	1	R	-
15	Panes exceeding 0,5m2 and not exceeding 2m2	m2	1	R	-
16	Panes exceeding 2m2 and not exceeding 4m2	m2	1	R	-
<u>MIRRORS ETC</u>		H3			
<u>New Works</u>		H3			

	<u>6mm silvered float glass copper backed mirrors with 10mm bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plug in brickwork or concrete</u>	H3				
17	Mirror 450 x 450 mm high	No	1		R	-
18	Mirror 450 x 600mm high	No	1		R	-
19	Mirror 450 x 900mm high	No	1		R	-
20	Mirror 450 x 1200mm high	No	1		R	-
21	Mirror 600 x 600mm high	No	1		R	-
22	Mirror 600 x 900mm high	No	1		R	-
23	Mirror 600 x 1200mm high	No	1		R	-
24	Mirror 600 x 1500mm high	No	1		R	-
					R	-

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<u>SECTION NO. 1</u>					
<u>BILL NO. 17</u>	H1				
<u>PAINTWORK</u>	H1				
<u>PREPARATORY WORK TO EXISTING WORK</u>	H2				
<u>Previously painted plastered surfaces</u>	H3				
<u>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</u>					
<u>Previously painted metal surfaces</u>	H3				
<u>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</u>					
<u>Previously painted wood surfaces</u>	H3				
<u>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</u>					
<u>Note: All paintwork to be "Dulux" or similar approved product</u>	H1				
<u>On floated plaster</u>	H1				
<u>Apply two coats of acrylic PVA emulsion paint on work previously painted</u>	H1				
1 On internal walls	m2	1		R	-
2 On external walls	m2	1		R	-
3 On ceilings and beams	m2	1		R	-
4 On ceilings and cornices	m2	1		R	-
5 On fascias and barge boards not exceeding 300 mm girth	m	1		R	-
<u>On Smooth Concrete</u>	H1				
<u>Apply two coats of acrylic PVA emulsion paint on work previously painted</u>	H1				
6 On internal walls	m2	1		R	-
7 On external walls	m2	1		R	-
8 On ceilings and beams	m2	1		R	-
9 On ceilings and cornices	m2	1		R	-

	<u>On Fair faced brickwork</u>	H1				
	<u>Apply two coats of acrylic PVA emulsion paint on work previously painted</u>	H1				
10	On internal walls	m2	1	R	-	
11	On external walls	m2	1	R	-	
	<u>Prepare and apply two coats brick dressing on</u>	H1				
12	Existing surfaces of face brickwork	m2	1	R	-	
	<u>On Plaster Board</u>	H1				
	<u>Apply two coats of acrylic PVA emulsion paint on work previously painted</u>	H1				
13	On ceilings and cornices	m2	1	R	-	
14	On fascias and barge boards not exceeding 300 mm girth	m	1	R	-	
	<u>On Fibre cement</u>	H1				
	<u>Apply two coats of acrylic PVA emulsion paint on work previously painted</u>	H1				
15	On ceilings and cornices	m2	1	R	-	
16	On fascias and barge boards not exceeding 300 mm girth	m	1	R	-	
	<u>On Metal</u>	H1				
	<u>Apply one undercoat and two finishing coats of gloss paint on metalwork</u>	H1				
17	On doors	m2	1	R	-	
18	On door frames	m2	1	R	-	
19	On windows (both sides measured flat)	m2	1	R	-	
20	On windows with burglar bars (both sides measured flat)	m2	1	R	-	
	<u>On Wood</u>	H1				
	<u>Prepare and apply one coat wood primer, one undercoat and one finishing coat alkyd enamel paint in colours which have a value of 7 or less on the munsell system in accordance with SABS 1091</u>	H1				
21	On boarded panelling	m2	1	R	-	
22	On boarded ceilings	m2	1	R	-	
23	On doors	m2	1	R	-	
24	On windows, sash doors and fanlights	m2	1	R	-	
25	On door frames etc	m2	1	R	-	
26	On roof timbers at eaves and verges	m2	1	R	-	
27	On skirtings, rails, etc not exceeding 300 mm girth	m	1	R	-	

<u>PAINTWORK ETC TO NEW WORK</u>		H1			
<u>NOTE: All paintwork to be DULUX or similar approved product.</u>		H1			
<u>Prepare and apply one undercoat and two finishing coats of acrylic PVA emulsion paint to match existing</u>		H1			
28	On internal walls	m2	1	R	-
29	On external walls	m2	1	R	-
30	On ceilings and beams	m2	1	R	-
31	On ceilings and cornices	m2	1	R	-
32	On fascias and barge boards not exceeding 300 mm girth	m	1	R	-
<u>On smooth Concrete</u>		H1			
<u>Prepare and apply one undercoat and two finishing coats of acrylic PVA emulsion paint to match existing</u>		H1			
On Smooth Concrete Prepare and apply one undercoat and two finishing coats of Acrylic PVA emulsion paint to match existing					
33	On internal walls	m2	1	R	-
34	On external walls	m2	1	R	-
35	On ceilings and beams	m2	1	R	-
36	On ceilings and cornices	m2	1	R	-
On Fair Faced Brickwork		H1			
<u>Prepare and apply one undercoat and two finishing coats of acrylic PVA emulsion paint to match existing</u>		H1			
37	On internal walls	m2	1	R	-
38	On external walls	m2	1	R	-
<u>Prepare and apply "Drikote sealer" or similar approved clear sealing compound in accordance with manufacturers instruction on site</u>		H1			
39	Surfaces of face brickwork to match existing	m2	1	R	-
<u>On Plaster Board</u>		H1			
<u>Prepare and apply one undercoat and two finishing coats of acrylic PVA emulsion paint to match existing</u>		H1			
40	On ceilings and cornices	m2	1	R	-
41	On fascias and barge boards not exceeding 300 mm girth	m	1	R	-

<u>On Fibre-Cement</u>		H1				
<u>Prepare and apply one undercoat and two finishing coats of acrylic PVA emulsion paint to match existing</u>		H1				
42	On ceilings and cornices	m2	1		R	-
43	On fascias and barge boards not exceeding 300 mm girth	m	1		R	-
<u>On Metal</u>		H1				
<u>Prepare and apply one undercoat and two finishing coats of gloss paint on metalworks</u>		H1				
44	On doors	m2	1		R	-
45	On door frames	m2	1		R	-
46	On windows (both sides measured flat)	m2	1		R	-
47	On windows with burglar bars (both sides measured flat)	m2	1		R	-
<u>On Wood</u>		H1				
<u>Prepare and apply one coat wood primer, one undercoat and one finishing coat alkyd enamel paint in colours which have a value of 7 or less on the munsell system in accordance with SABS 1091</u>		H1				
48	On boarded panelling	m2	1		R	-
49	On boarded ceilings	m2	1		R	-
50	On doors	m2	1		R	-
51	On windows, sash doors and fanlights	m2	1		R	-
52	On door frames etc	m2	1		R	-
53	On roof timbers at eaves and verges	m2	1		R	-
54	On skirtings, rails, etc not exceeding 300 mm girth	m2	1		R	-
					R	-

APPOINTMENT OF INFRASTRUCTURE TERM CONTRACTORS FOR THE MAINTENANCE OF ALL EDUCATION BUILDING AND RELATED INFRASTRUCTURE WORKS OF THE MPUMALANGA DEPARTMENT OF EDUCATION FOR A PERIOD OF THREE YEARS (3)

SECTIONAL SUMMARY					
1	Demolitions				R -
2	Alterations				R -
3	Earthworks (Provisional)				R -
4	Concrete, Formwork and Reinforcement				R -
5	Masonry				R -
6	Waterproofing				R -
7	Roof Coverings				R -
8	Carpentry and Joinery				R -
9	Ceilings, Partitions and Access Flooring				R -
10	Floor Coverings				R -
11	Ironmongery				R -
12	Metalworks				R -
13	Plastering				R -
14	Tiling				R -
15	Plumbing and Drainage				R -
16	Glazing				R -
17	Paintwork				R -
					R -

APPOINTMENT OF INFRASTRUCTURE TERM CONTRACTORS FOR THE MAINTENANCE OF ALL EDUCATION BUILDING AND RELATED INFRASTRUCTURE WORKS OF THE MPUMALANGA DEPARTMENT OF EDUCATION FOR A PERIOD OF THREE YEARS (3)

SECTION NO. 2	H3				
BILL NO. 1	H3				
<u>PROVISIONAL SUMS FOR THE MAIN CONTRACT NOMINATED OR SELECTED SUBCONTRACT</u>	H3				
NOTES:	H2				
<p>1. The Contractor's attention is drawn specifically to the Principal Building Agreement Clause 20.0 (Nominated Sub-Contractors), Clause 21.0 (Selected Sub-Contractors) and Clause 22 (Work by Others) and to the related Clauses in Section 1, Bill No. 1 - Preliminaries</p> <p>2. The Contractor's attention is drawn also to the definition of attendance on Nominated or Selected Sub-Contractors and of fuel, power and water for commissioning of mechanical and other specialised installations given in the JBCC Preliminaries</p> <p>3. Where special attendance includes the provision of hoisting facilities for a Sub-Contractor then the Contractor shall:-</p> <p>Ensure that the capacities of his hoisting equipment are sufficient to deal with the masses and the quantities of the items to be hoisted,</p> <p>Schedule the times of availability of the hoisting equipment for each Sub-Contractor,</p> <p>Provide all necessary personnel to operate the hoisting equipment,</p> <p>all to enable the Sub-Contractor to execute the hoisting or lowering of his material, etc. using the facilities provided by the Contractor</p> <p>4. Under no circumstances may any Provisional Amount, etc. be extended at an amount lower than the amount given in this Bill</p>					
FIRE APPLIANCES ETC	H3				
Allow the Provisional Sum of R 20,000.00 (Twenty Thousand Rand) for the purchase and supply of fire appliances to be expended as directed by MDOE Representatives	Item	1		R	-
2 Allow for profit	Item	1		R	-
JOINERY FITTINGS	H3				
Provide the sum of R50,000.00 (Fifty Thousand Rand) for Joinery fittings to be expended as directed by the MDOE Representatives	Item	1		R	-
4 Allow for profit	Item	1		R	-
5 Allow for attendance	Item	1		R	-

CIVIL WORKS		H3			
Provide the sum of R50,000.00 (Fifty Thousand Rand) for Civil Works to be expended as directed by the MDOE					
6	Representatives	Item	1	R	-
7	Allow for profit	Item	1	R	-
8	Allow for attendance	Item	1	R	-
Community Liaison Officer (R 7,500.00 per month) Provide the sum of R 7,500.00 (Ten Thousand Rand) for the Community Liaison Officer should it be required, to be expended as					
9	directed by the MDOE Representatives	Item	1	R	-
10	Allow for profit	Item	1	R	-
				R	-

APPOINTMENT OF INFRASTRUCTURE TERM CONTRACTORS FOR THE MAINTENANCE OF ALL EDUCATION BUILDING AND RELATED INFRASTRUCTURE WORKS OF THE MPUMALANGA DEPARTMENT OF EDUCATION FOR A PERIOD OF THREE YEARS (3)

1	BUILDING WORKS				R	-
2	PROVISIONAL SUMS				R	-
MAINTENANCE OF GENERAL BUILDING AND CIVIL WORKS : CARRY TO FINAL SUMMARY						R -

**APPOINTMENT OF INFRASTRUCTURE TERM CONTRACTORS FOR THE MAINTENANCE AND INFRASTRUCTURE RELATED
WORKS IN ALL EDUCATION FACILITIES OF THE MPUMALANGA DEPARTMENT OF EDUCATION FOR A PERIOD OF THREE (3) YEARS**

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SECTION NO. 1</u>	H1			
	<u>MAINTENANCE OF WATER SUPPLY AND DRAINAGE TO THE BUILDING AND WET SERVICE AND PLUMBING</u>				
	<u>BILL NO. 1</u>	H1			
	<u>ALTERATIONS</u>	H3			
	<u>REMOVAL OF EXISTING WORK</u>	H3			
	<u>Taking out and removing ironmongery Carefully take out and remove from site the following including making good all works disturbed</u>	H3			
1	Existing WC indicator bolt with keep fixed to metal/concrete	No	1	R	-
	<u>Carefully take out and remove from site the following including making good all works disturbed</u>	H3			
2	Existing bathroom lockset	No	1	R	-
3	Existing bathroom lockset with striking plate fixed to metal/timber	No	1	R	-
	<u>Carefully take out and remove from site the following including making good all works disturbed</u>	H3			
4	Existing chromium plated curtain or hanging rail not exceeding 1,0m long	No	1	R	-
5	Existing chromium plated curtain or hanging rail exceeding 1,0m but not exceeding 2,0m long	No	1	R	-
6	Existing chromium plated towel rail not exceeding 1,0m long	No	1	R	-
7	Existing toilet roll holder	No	1	R	-
8	Existing Lockable toilet roll holder plugged	No	1	R	-
9	Existing soap holder	No	1	R	-
10	Existing back grab rail not exceeding 1,0m long	No	1	R	-
11	Existing side grab rail not exceeding 1,0m girth	No	1	R	-
12	Existing bathroom cabinet	No	1	R	-
13	Existing soap dispenser	No	1	R	-
14	Existing electric hand-drier	No	1	R	-
	<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>	H3			

15	Stainless steel wash hand basin	No	1	R	-
16	Stainless steel sink and drainer	No	1	R	-
17	Wash hand basin	No	1	R	-
18	Wash hand basin on pedestal.	No	1	R	-
19	Pedestal only	No	1	R	-
20	WC pan only	No	1	R	-
21	WC pan with cistern	No	1	R	-
22	WC pan with flush valve	No	1	R	-
23	Cistern and internal flushing mechanism	No	1	R	-
24	Cistern only	No	1	R	-
25	Cistern internal flushing mechanism only	No	1	R	-
26	WC seat and cover	No	1	R	-
27	WC pan connector	No	1	R	-
28	Wall hung urinal with flush valve	No	1	R	-
29	Wall hung urinal only	No	1	R	-
30	Urinal flush valve	No	1	R	-
	<u>Repair leaking water supply pipes Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths not exceeding 0,5m and replace with new including all necessary fittings.</u>	H3			
31	15mm Copper pipes	No	1	R	-
32	22mm Copper pipes	No	1	R	-
33	28mm Copper pipes	No	1	R	-
34	32mm Copper pipes	No	1	R	-
35	50mm Copper pipes	No	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths exceeding 0,5m but not exceeding 1m and replace with new including all necessary fittings.</u>	H3			
36	15mm Copper pipes	No	1	R	-
37	22mm Copper pipes	No	1	R	-
38	28mm Copper pipes	No	1	R	-
39	32mm Copper pipes	No	1	R	-
40	50mm Copper pipes	No	1	R	-

	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths exceeding 1m and replace with new including all necessary fittings.</u>	H3			
41	15mm Copper pipes	m	1	R	-
42	22mm Copper pipes	m	1	R	-
43	28mm Copper pipes	m	1	R	-
44	32mm Copper pipes	m	1	R	-
45	50mm Copper pipes	m	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged fittings to existing pipes and replace with new including making good all works disturbed.</u>	H3			
46	15mm Copper fittings	m	1	R	-
47	22mm Copper fittings	m	1	R	-
48	28mm Copper fittings	m	1	R	-
49	32mm Copper fittings	m	1	R	-
50	50mm Copper fittings	m	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths not exceeding 0,5m and replace with new including all necessary fittings.</u>	H3			
51	15mm Galvanised pipes	No	1	R	-
52	22mm Galvanised pipes	No	1	R	-
53	28mm Galvanised pipes	No	1	R	-
54	32mm Galvanised pipes	No	1	R	-
55	50mm Galvanised pipes	No	1	R	-
56	65mm Galvanised pipes	No	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths exceeding 0,5m but not exceeding 1m and replace with new including all necessary fittings.</u>	H3			
57	15mm Galvanised pipes	No	1	R	-
58	22mm Galvanised pipes	No	1	R	-
59	28mm Galvanised pipes	No	1	R	-
60	32mm Galvanised pipes	No	1	R	-
61	50mm Galvanised pipes	No	1	R	-

62	65mm Galvanised pipes	No	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths exceeding 1m and replace with new including all necessary fittings.</u>				
		H3			
63	15mm Galvanised pipes	m	1	R	-
64	22mm Galvanised pipes	m	1	R	-
65	28mm Galvanised pipes	m	1	R	-
67	32mm Galvanised pipes	m	1	R	-
68	50mm Galvanised pipes	m	1	R	-
69	65mm Galvanised pipes	m	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged fittings to existing pipes and replace with new including making good all works disturbed.</u>				
		H3			
70	15mm Galvanised fittings	No	1	R	-
71	22mm Galvanised fittings	No	1	R	-
72	28mm Galvanised fittings	No	1	R	-
73	32mm Galvanised fittings	No	1	R	-
74	50mm Galvanised fittings	No	1	R	-
75	65mm Galvanised fittings	No	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths not exceeding 0,5m and replace with new including all necessary fittings.</u>				
		H3			
76	15mm uPVC pipes	No	1	R	-
77	22mm uPVC pipes	No	1	R	-
78	28mm uPVC pipes	No	1	R	-
79	32mm uPVC pipes	No	1	R	-
80	50mm uPVC pipes	No	1		
81	65mm uPVC pipes	No	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths exceeding 0,5m but not exceeding 1m and replace with new including all necessary fittings.</u>				
		H3			
82	15mm uPVC pipes	No	1	R	-
88	22mm uPVC pipes	No	1	R	-

89	28mm uPVC pipes	No	1	R	-
90	32mm uPVC pipes	No	1	R	-
91	50mm uPVC pipes	No	1	R	-
92	65mm uPVC pipes	No	1	R	-
<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths exceeding 1m and replace with new including all necessary fittings.</u>		H3			
93	15mm uPVC pipes	m	1	R	-
94	22mm uPVC pipes	m	1	R	-
95	28mm uPVC pipes	m	1	R	-
96	32mm uPVC pipes	m	1	R	-
97	50mm uPVC pipes	m	1	R	-
98	65mm uPVC pipes	m	1	R	-
<u>Shut off water supply to affected pipes, cut out and remove damaged fittings to existing pipes and replace with new including making good all works disturbed.</u>		H3			
99	15mm uPVC fittings	No	1	R	-
100	22mm uPVC fittings	No	1	R	-
101	28mm uPVC fittings	No	1	R	-
102	32mm uPVC fittings	No	1	R	-
103	50mm uPVC fittings	No	1	R	-
104	65mm uPVC fittings	No	1	R	-
<u>Cut out and remove damaged sections of existing pipes in lengths not exceeding 0,5m and replace with new including all necessary joining fittings.</u>		H3			
105	50mm diameter uPVC pipes	No	1	R	-
106	100mm diameter uPVC pipes	No	1	R	-
<u>Cut out and remove damaged sections of existing pipes in lengths exceeding 0,5m but not exceeding 1m and replace with new including all necessary joining fittings.</u>		H3			
107	50mm diameter uPVC pipes	m	1	R	-
108	100mm diameter uPVC pipes	m	1	R	-
<u>Cut out and remove damaged sections of existing pipes in lengths exceeding 1m and replace with new including all necessary joining fittings.</u>		H3			
109	50mm diameter uPVC pipes	No	1	R	-

110	100mm diameter uPVC pipes	No	1	R	-
	<u>Cut out and remove damaged fittings on existing pipes and replace with new including making good all works disturbed.</u>	H3			
111	50mm diameter uPVC fittings	No	1	R	-
112	100mm diameter uPVC fittings	No	1	R	-
	<u>Cut out and remove damaged sections of existing pipes in lengths not exceeding 0,5m and replace with new including all necessary joining fittings.</u>	H3			
113	50mm diameter cast iron pipes	No	1	R	-
114	100mm diameter cast iron pipes	No	1	R	-
	<u>Cut out and remove damaged sections of existing pipes in lengths exceeding 0,5m but not exceeding 1m and replace with new including all necessary joining fittings.</u>	H3			
115	50mm diameter cast iron pipes	m	1	R	-
116	100mm diameter cast iron pipes	m	1	R	-
	<u>Cut out and remove damaged sections of existing pipes in lengths exceeding 1m and replace with new including all necessary joining fittings.</u>	H3			
117	50mm diameter cast iron pipes	m	1	R	-
118	100mm diameter cast iron pipes	m	1	R	-
	<u>Cut out and remove damaged fittings on existing pipes and replace with new including making good all works disturbed.</u>	H3			
119	50mm diameter cast iron fittings	No	1	R	-
120	100mm diameter cast iron fittings	No	1	R	-
	<u>Locate and unblock blocked waste and sewer pipes and make good all works disturbed.</u>	H3			
121	50mm diameter uPVC or cast iron pipes	m	1	R	-
122	100mm diameter uPVC or cast iron pipes	m	1	R	-
	<u>Fix firmly into position loose/shaking sanitary fittings, etc</u>	H3			
123	Stainless steel wash hand basin	No	1	R	-
124	Stainless steel sink and drainer	No	1	R	-
125	Wash hand basin	No	1	R	-
126	Wash hand basin on pedestal	No	1	R	-

127	Pedestal only	No	1	R	-
128	WC pan only	No	1	R	-
129	WC pan with cistern	No	1	R	-
130	WC pan with flush valve	No	1	R	-
131	Cistern and internal flushing mechanism	No	1	R	-
132	Cistern only	No	1	R	-
133	Cistern internal flushing mechanism only	No	1	R	-
134	WC seat and cover	No	1	R	-
135	WC pan connector	No	1	R	-
136	Wall hung urinal with flush valve	No	1	R	-
137	Wall hung urinal only	No	1	R	-
138	Urinal flush valve	No	1	R	-
	<u>TRAPS ETC Carefully remove the following traps, make water tight and make good all works disturbed "Marley" or Similar approved</u>	H3			
140	32mm Reseal "P" or "S" trap	No	1	R	-
141	40mm Bath trap complete with overflow outlet and pipe	No	1	R	-
142	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	1	R	-
	<u>"Vulcathene" or Similar approved</u>	H3			
143	40mm Anti-vac bottle trap	No	1	R	-
	<u>"Approved" Chromium plated</u>	H3			
144	40mm Chrome plated Bottle trap	No	1	R	-
	<u>"Cobra Watertech" or Similar approved</u>	H3			
145	75mm Chrome Plated hinged urinal domical grating	No	1	R	-
	<u>TAPS, VALVES, ETC Shut off water supply and carefully remove the following existing taps, valves, e.t.c, not exceeding 50mm diameter Brass</u>	H3			
155	Stopcock	No	1	R	-
156	Fullway gate valve	No	1	R	-
157	Bibcock with hose union	No	1	R	-
158	Non-return valve	No	1	R	-
	<u>"Cobra Watertech" or Similar</u>	H3			
159	Chrome Plated angle regulating valve	No	1	R	-

160	Chrome Plated stopcock	No	1	R	-
161	Chrome Plated "Star" underwall pattern stopcock	No	1	R	-
167	Fullway gate valve	No	1	R	-
168	Bibcock	No	1	R	-
169	Bibcock with hose union	No	1	R	-
170	Chrome Plated bibcock	No	1	R	-
171	Chrome Plated pillarcock	No	1	R	-
172	Chrome Plated single taphole basin mixer	No	1	R	-
173	Chrome Plated sink mixer	No	1	R	-
174	Chrome Plated bath mixer	No	1	R	-
175	Chrome Plated bath mixer with hand shower	No	1	R	-
176	Chrome Plated shower mixer	No	1	R	-
178	Chrome Plated bath spout	No	1	R	-
179	Chrome Plated shower rose	No	1	R	-
180	Chrome Plated overhead shower arm	No	1	R	-
181	In-line strainer	No	1	R	-
182	Chrome Plated fullway ballcock	No	1	R	-
183	Fullway ballcock	No	1	R	-
184	PB1.10RB vacuum breaker	No	1	R	-
185	PA1.1RB "Kwikflo" 400 kPa pressure reducing valve	No	1	R	-
186	"Flushmaster Junior" toilet flush valve	No	1	R	-
187	"Flushmaster Junior" urinal flush valve	No	1	R	-
188	"Flushmaster" toilet flush valve	No	1	R	-
	<u>Fix firmly into position existing loose/shaking taps, valves, etc not exceeding 50mm diameter Brass</u>	H3			
189	Stopcock	No	1	R	-
190	Fullway gate valve	No	1	R	-
191	Bibcock with hose union	No	1	R	-
192	Non-return valve	No	1	R	-
	<u>"Cobra Watertech" or Similar</u>	H3			
193	Chrome Plated angle regulating valve	No	1	R	-

194	Chrome Plated stopcock	No	1	R	-
195	Chrome Plated "Star" underwall pattern stopcock	No	1	R	-
196	Fullway gate valve	No	1	R	-
197	Bibcock	No	1	R	-
198	Bibcock with hose union	No	1	R	-
199	Chrome Plated bibcock	No	1	R	-
120	Chrome Plated pillarcock	No	1	R	-
121	Chrome Plated single taphole basin mixer	No	1	R	-
122	Chrome Plated sink mixer	No	1	R	-
123	Chrome Plated bath mixer	No	1	R	-
124	Chrome Plated bath mixer with hand shower	No	1	R	-
125	Chrome Plated shower mixer	No	1	R	-
126	Chrome Plated bath spout	No	1	R	-
127	Chrome Plated shower rose	No	1	R	-
128	Chrome Plated overhead shower arm	No	1	R	-
129	In-line strainer	No	1	R	-
130	Chrome Plated fullway ballcock	No	1	R	-
131	Fullway ballcock	No	1	R	-
132	PB1.10RB vacuum breaker	No	1	R	-
133	PA1.1RB "Kwikflo" 400 kPa pressure reducing valve	No	1	R	-
134	"Flushmaster Junior" toilet flush valve	No	1	R	-
135	"Flushmaster Junior" urinal flush valve	No	1	R	-
138	"Flushmaster" toilet flush valve	No	1	R	-
<u>Fix firmly into position existing loose/shaking fire appliances</u>		H3			
139	"Everyway" hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	1	R	-
140	4.5kg Dry chemical fire extinguisher	No	1	R	-
141	9kg Dry chemical fire extinguisher	No	1	R	-
<u>Carefully remove the following fire appliances</u>		H3			
142	"Everyway" hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	1	R	-
143	4.5kg Dry chemical fire extinguisher	No	1	R	-

144	9kg Dry chemical fire extinguisher	No	1	R	-
	<u>Service the following appliances and leave in perfect working order including making good all works disturbed</u>	H3			
145	"Everyway" hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	1	R	-
146	4.5kg Dry chemical fire extinguisher	No	1	R	-
147	9kg Dry chemical fire extinguisher	No	1	R	-
	<u>CUTTING THROUGH FLOORS, CEILINGS AND FLOORS</u>	H3			
148	50 x 50mm chase formed for plumbing pipework	m	1	R	-
149	110 x 110mm chase formed for plumbing pipework	m	1	R	-
	<u>SERVICING EXISTING ITEM Service existing sanitary fittings, accessories, etc.</u>	H3			
150	Carefully examine hydroboil, for any leaks, worn parts, etc repair and fully service same to ensure functionality, all to the satisfaction of the Principal Agent	No	1	R	-
151	Carefully examine wash hand basins, taps, traps and piping for any leaks, worn parts, etc. repair and fully service same to ensure functionality, all to the satisfaction of the Principal Agent	No	1	R	-
152	Carefully examine sinks, taps, traps and piping for any leaks, worn parts, etc. repair and fully service same to ensure functionality, all to the satisfaction of the Principal Agent	No	1	R	-
153	Carefully examine bath tub, taps, traps and piping for any leaks, worn parts, etc. repair and fully service same to ensure functionality, all to the satisfaction of the Principal Agent	No	1	R	-
154	Carefully examine laundry sinks, size 1300 x 500 x 900mm high, taps, traps and piping for any leaks, worn parts, etc. repair and fully service same to ensure functionality, all to the satisfaction of the Principal Agent	No	1	R	-

PREPARATORY WORK TO EXISTING SURFACES

H3

RAINWATER PIPES

H3

155	Carefully cut out and remove damaged sections of existing galvanised 125 x 100mm gutter and replace with new to match existing profile, make water-tight at joining, prepare and paint to match existing	m	1	R	-
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156	Carefully cut out and remove damaged sections of existing galvanised 100 x 85mm gutter and replace with new to match existing profile, make water-tight at joining, prepare and paint to match existing	m	1	R	-
157	Carefully cut out and remove damaged sections of existing galvanised 100mm diameter downpipes and replace with new to match existing profile, make water-tight at joining, prepare and paint to match existing	m	1	R	-
158	Carefully cut and remove damaged existing galvanised eaves offset, shoe, bends, elbow, etc and replace with new to match existing profile, make water-tight at joining, prepare and paint to match existing	No	1	R	-
159	Carefully cut and remove damaged galvanised box head and replace with new to match existing profile, make good flashing and counter flashing and make water-tight at joining, prepare and paint to match existing	No	1	R	-
	<u>Repair leaking water supply pipes Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths not exceeding 0,5m and replace with new including all necessary fittings.</u>	H3			
160	15mm Copper pipes	No	1	R	-
161	22mm Copper pipes	No	1	R	-
162	28mm Copper pipes	No	1	R	-
163	32mm Copper pipes	No	1	R	-
164	50mm Copper pipes	No	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths exceeding 0,5m but not exceeding 1m and replace with new including all necessary fittings.</u>	H3			
165	15mm Copper pipes	No	1	R	-
166	22mm Copper pipes	No	1	R	-
167	28mm Copper pipes	No	1	R	-
168	32mm Copper pipes	No	1	R	-
169	50mm Copper pipes	No	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths exceeding 1m and replace with new including all necessary fittings.</u>	H3			
170	15mm Copper pipes	m	1	R	-
171	22mm Copper pipes	m	1	R	-
172	28mm Copper pipes	m	1	R	-
173	32mm Copper pipes	m	1	R	-

174	50mm Copper pipes	m	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged fittings to existing pipes and replace with new including making good all works disturbed.</u>				
		H3			
175	15mm Copper fittings	m	1	R	-
176	22mm Copper fittings	m	1	R	-
177	28mm Copper fittings	m	1	R	-
178	32mm Copper fittings	m	1	R	-
179	50mm Copper fittings	m	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths not exceeding 0,5m and replace with new including all necessary fittings.</u>				
		H3			
180	15mm Galvanised pipes	No	1	R	-
181	22mm Galvanised pipes	No	1	R	-
182	28mm Galvanised pipes	No	1	R	-
183	32mm Galvanised pipes	No	1	R	-
184	50mm Galvanised pipes	No	1	R	-
185	65mm Galvanised pipes	No	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths exceeding 0,5m but not exceeding 1m and replace with new including all necessary fittings.</u>				
		H3			
190	15mm Galvanised pipes	No	1	R	-
191	22mm Galvanised pipes	No	1	R	-
192	28mm Galvanised pipes	No	1	R	-
193	32mm Galvanised pipes	No	1	R	-
194	50mm Galvanised pipes	No	1	R	-
195	65mm Galvanised pipes	No	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths exceeding 1m and replace with new including all necessary fittings.</u>				
		H3			
196	15mm Galvanised pipes	m	1	R	-
197	22mm Galvanised pipes	m	1	R	-
198	28mm Galvanised pipes	m	1	R	-
199	32mm Galvanised pipes	m	1	R	-
200	50mm Galvanised pipes	m	1	R	-

201	65mm Galvanised pipes	m	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged fittings to existing pipes and replace with new including making good all works disturbed.</u>				
		H3			
202	15mm Galvanised fittings	No	1	R	-
203	22mm Galvanised fittings	No	1	R	-
204	28mm Galvanised fittings	No	1	R	-
205	32mm Galvanised fittings	No	1	R	-
206	50mm Galvanised fittings	No	1	R	-
207	65mm Galvanised fittings	No	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths not exceeding 0,5m and replace with new including all necessary fittings.</u>				
		H3			
208	15mm uPVC pipes	No	1	R	-
209	22mm uPVC pipes	No	1	R	-
210	28mm uPVC pipes	No	1	R	-
211	32mm uPVC pipes	No	1	R	-
212	50mm uPVC pipes	No	1		
213	65mm uPVC pipes	No	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths exceeding 0,5m but not exceeding 1m and replace with new including all necessary fittings.</u>				
		H3			
214	15mm uPVC pipes	No	1	R	-
215	22mm uPVC pipes	No	1	R	-
216	28mm uPVC pipes	No	1	R	-
217	32mm uPVC pipes	No	1	R	-
218	50mm uPVC pipes	No	1	R	-
219	65mm uPVC pipes	No	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged sections of existing pipes in lengths exceeding 1m and replace with new including all necessary fittings.</u>				
		H3			
220	15mm uPVC pipes	m	1	R	-
221	22mm uPVC pipes	m	1	R	-
223	28mm uPVC pipes	m	1	R	-

224	32mm uPVC pipes	m	1	R	-
225	50mm uPVC pipes	m	1	R	-
226	65mm uPVC pipes	m	1	R	-
	<u>Shut off water supply to affected pipes, cut out and remove damaged fittings to existing pipes and replace with new including making good all works disturbed.</u>	H3			
227	15mm uPVC fittings	No	1	R	-
228	22mm uPVC fittings	No	1	R	-
229	28mm uPVC fittings	No	1	R	-
230	32mm uPVC fittings	No	1	R	-
231	50mm uPVC fittings	No	1	R	-
232	65mm uPVC fittings	No	1	R	-
	<u>Cut out and remove damaged sections of existing pipes in lengths not exceeding 0,5m and replace with new including all necessary joining fittings.</u>	H3			
233	50mm diameter uPVC pipes	No	1	R	-
234	100mm diameter uPVC pipes	No	1	R	-
	<u>Cut out and remove damaged sections of existing pipes in lengths exceeding 0,5m but not exceeding 1m and replace with new including all necessary joining fittings.</u>	H3			
235	50mm diameter uPVC pipes	m	1	R	-
236	100mm diameter uPVC pipes	m	1	R	-
	<u>Cut out and remove damaged sections of existing pipes in lengths exceeding 1m and replace with new including all necessary joining fittings.</u>	H3			
237	50mm diameter uPVC pipes	No	1	R	-
238	100mm diameter uPVC pipes	No	1	R	-
	<u>Cut out and remove damaged fittings on existing pipes and replace with new including making good all works disturbed.</u>	H3			
240	50mm diameter uPVC fittings	No	1	R	-
241	100mm diameter uPVC fittings	No	1	R	-
	<u>Cut out and remove damaged sections of existing pipes in lengths not exceeding 0,5m and replace with new including all necessary joining fittings.</u>	H3			
242	50mm diameter cast iron pipes	No	1	R	-
243	100mm diameter cast iron pipes	No	1	R	-

	<u>Cut out and remove damaged sections of existing pipes in lengths exceeding 0,5m but not exceeding 1m and replace with new including all necessary joining fittings.</u>	H3				
244	50mm diameter cast iron pipes	m	1	R	-	
245	100mm diameter cast iron pipes	m	1	R	-	
	<u>Cut out and remove damaged sections of existing pipes in lengths exceeding 1m and replace with new including all necessary joining fittings.</u>	H3				
246	50mm diameter cast iron pipes	m	1	R	-	
247	100mm diameter cast iron pipes	m	1	R	-	
	<u>Cut out and remove damaged fittings on existing pipes and replace with new including making good all works disturbed.</u>	H3				
248	50mm diameter cast iron fittings	No	1	R	-	
249	100mm diameter cast iron fittings	No	1	R	-	
	<u>Locate and unblock blocked waste and sewer pipes and make good all works disturbed.</u>	H3				
250	50mm diameter uPVC or cast iron pipes	m	1	R	-	
251	100mm diameter uPVC or cast iron pipes	m	1	R	-	
	<u>Fix firmly into position loose/shaking sanitary fittings, etc</u>	H3				
252	Stainless steel wash hand basin	No	1	R	-	
253	Stainless steel sink and drainer	No	1	R	-	
254	Wash hand basin	No	1	R	-	
255	Wash hand basin on pedestal	No	1	R	-	
256	Pedestal only	No	1	R	-	
257	WC pan only	No	1	R	-	
258	WC pan with cistern	No	1	R	-	
259	WC pan with flush valve	No	1	R	-	
260	Cistern and internal flushing mechanism	No	1	R	-	
261	Cistern only	No	1	R	-	
262	Cistern internal flushing mechanism only	No	1	R	-	
263	WC seat and cover	No	1	R	-	
264	WC pan connector	No	1	R	-	
265	Wall hung urinal with flush valve	No	1	R	-	
266	Wall hung urinal only	No	1	R	-	

267	Urinal flush valve	No	1	R	-
	<u>TRAPS ETC Carefully remove the following traps, make water tight and make good all works disturbed "Marley" or Similar approved</u>	H3			
268	32mm Reseal "P" or "S" trap	No	1	R	-
269	40mm Bath trap complete with overflow outlet and pipe	No	1	R	-
270	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	1	R	-
	<u>"Vulcathene" or Similar approved</u>	H3			
271	40mm Anti-vac bottle trap	No	1	R	-
	<u>"Approved" Chromium plated</u>	H3			
272	40mm Chrome plated Bottle trap	No	1	R	-
	<u>"Cobra Watertech" or Similar approved</u>	H3			
273	75mm Chrome Plated hinged urinal domical grating	No	1	R	-
	<u>TAPS, VALVES, ETC Shut off water supply and carefully remove the following existing taps, valves, e.t.c, not exceeding 50mm diameter Brass</u>	H3			
274	Stopcock	No	1	R	-
275	Fullway gate valve	No	1	R	-
276	Bibcock with hose union	No	1	R	-
277	Non-return valve	No	1	R	-
	<u>"Cobra Watertech" or Similar</u>	H3			
278	Chrome Plated angle regulating valve	No	1	R	-
279	Chrome Plated stopcock	No	1	R	-
280	Chrome Plated "Star" underwall pattern stopcock	No	1	R	-
281	Fullway gate valve	No	1	R	-
282	Bibcock	No	1	R	-
283	Bibcock with hose union	No	1	R	-
284	Chrome Plated bibcock	No	1	R	-
285	Chrome Plated pillarcock	No	1	R	-
286	Chrome Plated single taphole basin mixer	No	1	R	-
287	Chrome Plated sink mixer	No	1	R	-
288	Chrome Plated bath mixer	No	1	R	-
289	Chrome Plated bath mixer with hand shower	No	1	R	-

290	Chrome Plated shower mixer	No	1	R	-
291	Chrome Plated bath spout	No	1	R	-
292	Chrome Plated shower rose	No	1	R	-
293	Chrome Plated overhead shower arm	No	1	R	-
294	In-line strainer	No	1	R	-
295	Chrome Plated fullway ballcock	No	1	R	-
296	Fullway ballcock	No	1	R	-
297	PB1.10RB vacuum breaker	No	1	R	-
298	PA1.1RB "Kwikflo" 400 kPa pressure reducing valve	No	1	R	-
299	"Flushmaster Junior" toilet flush valve	No	1	R	-
300	"Flushmaster Junior" urinal flush valve	No	1	R	-
301	"Flushmaster" toilet flush valve	No	1	R	-
	<u>Fix firmly into position existing loose/shaking taps, valves, etc not exceeding 50mm diameter Brass</u>	H3			
302	Stopcock	No	1	R	-
303	Fullway gate valve	No	1	R	-
304	Bibcock with hose union	No	1	R	-
305	Non-return valve	No	1	R	-
	<u>"Cobra Watertech" or Similar</u>	H3			
306	Chrome Plated angle regulating valve	No	1	R	-
307	Chrome Plated stopcock	No	1	R	-
308	Chrome Plated "Star" underwall pattern stopcock	No	1	R	-
309	Fullway gate valve	No	1	R	-
310	Bibcock	No	1	R	-
311	Bibcock with hose union	No	1	R	-
312	Chrome Plated bibcock	No	1	R	-
313	Chrome Plated pillarcock	No	1	R	-
314	Chrome Plated single taphole basin mixer	No	1	R	-
315	Chrome Plated sink mixer	No	1	R	-
316	Chrome Plated bath mixer	No	1	R	-
317	Chrome Plated bath mixer with hand shower	No	1	R	-

318	Chrome Plated shower mixer	No	1	R	-
319	Chrome Plated bath spout	No	1	R	-
320	Chrome Plated shower rose	No	1	R	-
321	Chrome Plated overhead shower arm	No	1	R	-
322	In-line strainer	No	1	R	-
323	Chrome Plated fullway ballcock	No	1	R	-
324	Fullway ballcock	No	1	R	-
325	PB1.10RB vacuum breaker	No	1	R	-
326	PA1.1RB "Kwikflo" 400 kPa pressure reducing valve	No	1	R	-
327	"Flushmaster Junior" toilet flush valve	No	1	R	-
328	"Flushmaster Junior" urinal flush valve	No	1	R	-
329	"Flushmaster" toilet flush valve	No	1	R	-
	<u>Fix firmly into position existing loose/shaking fire appliances</u>	H3			
330	"Everyway" hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	1	R	-
331	4.5kg Dry chemical fire extinguisher	No	1	R	-
332	9kg Dry chemical fire extinguisher	No	1	R	-
	<u>Carefully remove the following fire appliances</u>	H3			
333	"Everyway" hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	1	R	-
334	4.5kg Dry chemical fire extinguisher	No	1	R	-
335	9kg Dry chemical fire extinguisher	No	1	R	-
	<u>Service the following appliances and leave in perfect working order including making good all works disturbed</u>	H3			
336	"Everyway" hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	1	R	-
337	4.5kg Dry chemical fire extinguisher	No	1	R	-
338	9kg Dry chemical fire extinguisher	No	1	R	-
	<u>REFURBISHMENT OF EXISTING SERVICES</u>	H3			
	<u>Carefully investigate, service and replace dysfunctional existing borehole and making good when necessary</u>	H3			
339	Repair to pumps	No	1	R	-
340	Repair to piping	No	1	R	-

	<u>Provide vacuum truck to empty existing septic tank, enviro-loo toilets and pit latrine etc</u>	H3				
331	Septic tank	No	1		R	-
332	Enviro-loo toilets (two block)	No	1		R	-
	<u>Clean off all debris, dirt etc and making good when necessary</u>	H3				
333	Clean storm water channels, grinds and manholes and repair where necessary	No	1		R	-
					R	-

APPOINTMENT OF INFRASTRUCTURE TERM CONTRACTORS FOR THE MAINTENANCE AND INFRASTRUCTURE RELATED WORKS IN ALL EDUCATION FACILITIES OF THE MPUMALANGA DEPARTMENT OF EDUCATION FOR A PERIOD OF THREE (3) YEARS

<u>SECTION NO. 2</u>				
<u>BILL NO. 2</u>	H3			
<u>PLUMBING AND DRAINAGE</u>	H3			
<u>SUPPLEMENTARY PREAMBLES</u>	H2			
<u>uPVC pipes and fittings:</u>	H3			

<u>Soil, waste and vent pipes and fittings shall be solvent weld jointed</u>					
<u>uPVC pressure pipes and fittings:</u>	H3				
<u>Pipes for water supply shall be of the class stated</u>					
<u>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</u>					
<u>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</u>					
<u>Copper pipes:</u>	H3				
<u>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. Fittings 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</u>					
<u>Fixing of pipes</u>	H3				
<u>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level</u>					
<u>Reducing fittings</u>	H3				
<u>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. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained</u>					
<u>Exposed concrete surfaces</u>	H3				
<u>Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster</u>					
<u>Excavations</u>	H3				
<u>No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling</u>					
<u>"Soft rock" and "hard rock" shall be as defined in "Earthworks"</u>					
<u>Laying, backfilling, bedding, etc. of pipes</u>	H3				

<u>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions</u>					
<u>where no manufacturers instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:</u>					
<u>SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 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</u>					
<u>Flush pans</u>	H3				
<u>Flush pans shall have straight or side outlets and "P" or "S" traps as necessary</u>					
<u>Stainless steel basins, sinks, wash troughs, urinals, etc.</u>	H3				
<u>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</u>					
<u>Waste unions</u>	H3				
<u>Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings</u>					
<u>RAINWATER DISPOSAL</u>	H3				
<u>0,6mm galvanised sheet iron with chromadek finish</u>	H3				
1 100 x 125mm Galvanised gutter fixed to rafter feet	m	1	R	-	
2 Extra on 100 x 125mm square gutter for stop ends	No	1	R	-	
Extra on 100 x 125mm square gutter for outlet to 60mm diameter downpipe	No	1	R	-	
3 60mm diameter rainwater downpipe	m	1	R	-	
4 Extra on 60mm rainwater downpipe for shoe	No	1	R	-	
5 Extra over 60mm rainwater pipe for eaves offset	No	1	R	-	
6					
<u>"Fullbore" Cast iron outlets</u>	H3				
7 76mm diameter 90 Degree side outlet	No	1	R	-	
<u>Sundries</u>	H3				
<u>RAINWATER DISPOSAL</u>	H3				
8 50mm diameter x 300mm long galvanised mild steel spout	No	1	R	-	
<u>SANITARY FITTINGS (All items necessary to be replaced to match existing or similar approved)</u>	H3				
9 Stainless steel wash hand basin	No	1	R	-	

10	Stainless steel sink and drainer	No	1	R	-
11	Wash hand basin	No	1	R	-
12	Wash hand basin on pedestal.	No	1	R	-
13	Pedestal only	No	1	R	-
14	WC pan only	No	1	R	-
15	WC pan with cistern	No	1	R	-
16	WC pan with flush valve	No	1	R	-
17	Cistern and internal flushing mechanism	No	1	R	-
18	Cistern only	No	1	R	-
19	Cistern internal flushing mechanism only	No	1	R	-
20	WC seat and cover	No	1	R	-
21	WC pan connector	No	1	R	-
22	Wall hung urinal with flush valve	No	1	R	-
23	Wall hung urinal only	No	1	R	-
24	Urinal flush valve	No	1	R	-
	<u>WASTE UNIONS ETC</u>	H3			
	<u>New</u>	H3			
25	32mm Bath overflow union (PC Sum R60.00/No)	No	1	R	-
26	32mm Basin waste union (PC Sum R60.00/No)	No	1	R	-
27	32mm waste union (PC Sum R45.00/No)	No	1	R	-
28	38mm Bath or sink waste union (PC Sum R60.00/No)	No	1	R	-
	<u>TRAPS ETC</u>	H3			
	<u>"Marley" or similar approved</u>	H3			
29	32mm Reseal "P" or "S" trap	No	1	R	-
30	40mm Bath trap complete with overflow outlet and pipe	No	1	R	-
	40 x 300mm Sink combination for double bowl with deepseal				
31	"P" trap	No	1	R	-
	<u>"Vulcathene" or Similar approved</u>	H3			
32	40mm Anti-vac bottle trap	No	1	R	-
	<u>"Approved" Chromium Plated</u>	H3			
33	40mm Chrome plated Bottle trap	No	1	R	-
	<u>"Cobra Watertech" or similar approved</u>	H3			

34	75mm Chrome Plated hinged urinal domical grating	No	1	R	-
	<u>Brass</u>	H3			
35	Stopcock	No	1	R	-
36	Fullway gate valve	No	1	R	-
37	Bibcock with hose union	No	1	R	-
38	Non-return valve	No	1	R	-
	<u>"Cobra Watertech" or similar approved</u>	H3			
39	Chrome Plated angle regulating valve	No	1	R	-
40	Chrome Plated stopcock	No	1	R	-
41	Chrome Plated "Star" underwall pattern stopcock	No	1	R	-
42	Fullway gate valve	No	1	R	-
43	Bibcock	No	1	R	-
44	Bibcock with hose union	No	1	R	-
45	Chrome Plated bibcock	No	1	R	-
46	Chrome Plated pillarcock	No	1	R	-
47	Chrome Plated single taphole basin mixer	No	1	R	-
48	Chrome Plated sink mixer	No	1	R	-
49	Chrome Plated bath mixer	No	1	R	-
50	Chrome Plated bath mixer with hand shower	No	1	R	-
51	Chrome Plated shower mixer	No	1	R	-
52	Chrome Plated bath spout	No	1	R	-
53	Chrome Plated shower rose	No	1	R	-
54	Chrome Plated overhead shower arm	No	1	R	-
55	In-line strainer	No	1	R	-
56	Chrome Plated fullway ballcock	No	1	R	-
57	Fullway ballcock	No	1	R	-
58	PB1.10RB vacuum breaker	No	1	R	-
59	PA1.1RB "Kwikflo" 400 kPa pressure reducing valve	No	1	R	-
60	"Flushmaster Junior" toilet flush valve	No	1	R	-
61	"Flushmaster Junior" urinal flush valve	No	1	R	-
62	"Flushmaster" toilet flush valve	No	1	R	-

	<u>SANITARY PLUMBING</u>	H3			
	<u>Upvc Pipes</u>	H3			
63	40mm Diameter pipes	m	1	R	-
64	50mm Diameter pipes	m	1	R	-
65	110mm Diameter pipes	m	1	R	-
	<u>Extra-over for Upvc for fittings</u>	H3			
66	Extra over for uPVC for fittings 40mm Bend	No	1	R	-
67	50mm Bend	No	1	R	-
68	110mm Bend	No	1	R	-
69	40mm Junction	No	1	R	-
70	50mm Junction	No	1	R	-
71	110mm Junction	No	1	R	-
72	40mm Inspection junction	No	1	R	-
73	50mm Inspection junction	No	1	R	-
74	110mm Inspection junction	No	1	R	-
75	50mm Reducing junction	No	1	R	-
76	110mm Reducing junction	No	1	R	-
77	110mm Pan connector	No	1	R	-
78	110mm "GI Two way" vent valve	No	1	R	-
79	50mm "GI Two way" vent valve	No	1	R	-
	<u>HOT AND COLD WATER SERVICES</u>	H3			
	<u>Class 1 copper (hard drawn) pipes</u>	H3			
80	15mm Pipes to walls, etc	m	1	R	-
81	22mm Pipes to walls, etc	m	1	R	-
82	28mm Pipes to walls, etc	m	1	R	-
83	35mm Pipes to walls, etc	m	1	R	-
	<u>Extra-over class 1 copper (hard drawn) pipes for capillary fittings</u>	H3			
84	15mm Fittings	No	1	R	-
85	22mm Fittings	No	1	R	-
86	28mm Fittings	No	1	R	-

87	35mm Reducer	No	1	R	-
88	35mm Elbow	No	1	R	-
89	35mm Tee	No	1	R	-
	<u>Precast Concrete</u>	H3			
90	Precast concrete gulley, overall size 430 x 440mm, bedded and jointed in Class II mortar and pointed on all exposed faces.	No	1	R	-
	<u>TESTING</u>	H3			
91	Testing water pipe system	No	1	R	-
92	Testing sewer/waste pipe system	No	1	R	-
	<u>FIRE APPLIANCES ETC</u>	H3			
	<u>Fix only removed or new fire appliances and make good all works disturbed</u>	H3			
93	"Everyway" hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	1	R	-
94	4.5kg Dry chemical fire extinguisher	No	1	R	-
95	9kg Dry chemical fire extinguisher	No	1	R	-
				R	-

APPOINTMENT OF INFRASTRUCTURE TERM CONTRACTORS FOR THE MAINTENANCE AND INFRASTRUCTURE RELATED WORKS IN ALL EDUCATION FACILITIES OF THE MPUMALANGA DEPARTMENT OF EDUCATION FOR A PERIOD OF THREE (3) YEARS

1	ALTERATIONS			R	-
2	PLUMBING AND DRAINAGE			R	-

MAINTENANCE OF WATER SUPPLY AND DRAINAGE TO THE BUILDING AND WET SERVICE AND PLUMBING : CARRY TO FINAL SUMMARY	R -
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APPOINTMENT OF INFRASTRUCTURE TERM CONTRACTORS FOR THE MAINTENANCE AND INFRASTRUCTURE RELATED WORKS IN ALL EDUCATION FACILITIES OF THE MPUMALANGA DEPARTMENT OF EDUCATION FOR A PERIOD OF THREE (3) YEARS

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1	PRELIMINARIES				R -
2	MAINTENANCE OF GENERAL BUILDING AND CIVIL WORKS				R -
3	MAINTENANCE OF WATER SUPPLY AND DRAINAGE TO THE BUILDING AND WET SERVICE AND PLUMBING				R -
4	MAINTENACE ELECTRICAL WORK				R -
5	MAINTENANCE OF MECHANICAL WORKS				R -
SUB-TOTAL (A)		ST			R -
CONTINGENCIES		H1			
	Allow 5% contingencies	Item	1		R -
SUB-TOTAL(B)		ST			R -
SUB-TOTAL(C)		ST			R -
	Add value added tax @ 15%	TAX	15%		R -
GRAND-TOTAL		ST			R -



TAX CLEARANCE

TCC 001

Application for a Tax Clearance Certificate**Purpose**Select the applicable optionTenders ☐ Good standing ☐

If "Good standing", please state the purpose of this application

Particulars of applicantName/Legal name
(Initials & Surname
or registered name)Trading name
(if applicable)ID/Passport no Company/Close Corp.
registered no

Income Tax ref no PAYE ref no 7

VAT registration no 4 SDL ref no L

Customs code UIF ref no U

Telephone no Fax
no

E-mail address

Physical address

Postal address

Particulars of representative (Public Officer/Trustee/Partner)

Surname

First names

ID/Passport no Income Tax ref no

Telephone no Fax
no

E-mail address

Physical address

Particulars of tender (If applicable)Tender number Estimated Tender amount R , Expected duration of the tender year(s)**Particulars of the 3 largest contracts previously awarded**

Date started	Date finalised	Principal	Contact person	Telephone number	Amount
--------------	----------------	-----------	----------------	------------------	--------

Audit

Are you currently aware of any Audit investigation against you/the company? YES NO

If "YES" provide details

Appointment of representative/agent (Power of Attorney)I the undersigned confirm that I require a Tax Clearance Certificate in respect of Tenders or Goodstanding.I hereby authorise and instruct to apply to and receive from SARS the applicable Tax Clearance Certificate on my/our behalf.

Signature of representative/agent

Date

Name of representative/agent

Declaration

I declare that the information furnished in this application as well as any supporting documents is true and correct in every respect.

Signature of applicant/Public Officer

Date

Name of applicant/
Public Officer**Notes:**

- It is a serious offence to make a false declaration.
- Section 75 of the Income Tax Act, 1962, states: Any person who
 - fails or neglects to furnish, file or submit any return or document as and when required by or under this Act; or
 - without just cause shown by him, refuses or neglects to-
 - furnish, produce or make available any information, documents or things;
 - reply to or answer truly and fully, any questions put to him ...

As and when required in terms of this Act ... shall be guilty of an offence ...
- SARS will, under no circumstances, issue a Tax Clearance Certificate unless this form is completed in full.**
- Your Tax Clearance Certificate will only be issued on presentation of your South African Identity Document or Passport (Foreigners only) as applicable.

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

- 2.2 Do you, or any person connected with the bidder, have a relationship

_____ 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.

SBD4

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:

.....
.....

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.

SBD4

- 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

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**

- a) The applicable preference point system for this tender is the **90/10** preference point system.
- b) The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

1.3 Points for this tender shall be awarded for:

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

1.4 **To be completed by the organ of state:**

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	90
SPECIFIC GOALS	
> 51% black ownership	2
> 51% women ownership	2
> 25% ownership by disable person(s)	2
> 25% ownership by youth	2
Corporate Social Investment (CSI) or Social Labour Plan Proposition	2
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).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 90/10 PREFERENCE POINT SYSTEMS

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

90/10

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

Where

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

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:

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

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 claimed (90/10 system) (To be completed by the tenderer)
> 51% black ownership	2	
> 51% women ownership	2	
> 25% ownership by disable person(s)	2	
> 25% ownership by youth	2	
Corporate Social Investment (CSI) or Social Labour Plan Proposition	2	

DECLARATION WITH REGARD TO COMPANY/FIRM

- 4.2. Name of company/firm.....
- 4.3. Company registration number:
- 4.4. TYPE OF COMPANY/ FIRM
- ☐ Partnership/Joint Venture / Consortium
 - ☐ One-person business/sole propriety
 - ☐ Close corporation
 - ☐ Public Company
 - ☐ Personal Liability Company
 - ☐ (Pty) Limited
 - ☐ Non-Profit Company
 - ☐ State Owned Company
- [TICK APPLICABLE BOX]

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

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

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

This Standard Bidding Document (SBD) must form part of all bids invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2017, the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

1. General Conditions

- 1.1. Preferential Procurement Regulations, 2017 (Regulation 8) make provision for the promotion of local production and content.
- 1.2. Regulation 8.(2) prescribes that in the case of designated sectors, organs of state must advertise such tenders with the specific bidding condition that only locally produced or manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for tenders referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - x / y] * 100$$

Where

x is the imported content in Rand

y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by South African Reserve Bank (SARB) at 12:00 on the date of advertisement of the bid as indicated in paragraph 4.1 below.

The SABS approved technical specification number SATS 1286:2011 is accessible on [http://www.thedti.gov.za/industrial development/ip.jsp](http://www.thedti.gov.za/industrial%20development/ip.jsp) at no cost.

1.6. A bid may be disqualified if this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation;

2. The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:

<u>Description of services, works or goods</u>	<u>Stipulated minimum threshold</u>
_____	_____ %
_____	_____ %
_____	_____ %

3. Does any portion of the goods or services offered have any imported content?

(Tick applicable box)

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

3.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by SARB for the specific currency at 12:00 on the date of advertisement of the bid.

The relevant rates of exchange information is accessible on www.reservebank.co.za

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Bidders must submit proof of the SARB rate (s) of exchange used.

4. Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the AO/AA provide directives in this regard.

LOCAL CONTENT DECLARATION
(REFER TO ANNEX B OF SATS 1286:2011)

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)

IN RESPECT OF BID NO.

ISSUED BY: (Procurement Authority / Name of Institution):

NB

- 1 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.
- 2 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on <http://www.thdti.gov.za/industrialdevelopment/ip.jsp>. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, (full names),
do hereby declare, in my capacity as
of(name of bidder
entity), the following:

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have satisfied myself that:
 - (i) the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011; and
- (c) The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C:

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 3 above)	
Local content %, as calculated in terms of SATS 1286:2011	

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above.

The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E.

- (d) I accept that the Procurement Authority / Institution has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.
- (e) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Institution imposing any or all of the remedies as provided for in Regulation 14 of the Preferential Procurement Regulations, 2017

promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

SIGNATURE: _____

DATE: _____

WITNESS No. 1 _____

DATE: _____

WITNESS No. 2 _____

DATE: _____

THE NATIONAL TREASURY

Republic of South Africa



GOVERNMENT PROCUREMENT: GENERAL CONDITIONS OF CONTRACT

July 2010

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.

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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 security

- 7.1 Within thirty (30) days of receipt of the notification of contract award, 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	<p>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</p> <p>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.</p>
32. Taxes and duties	<p>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.</p> <p>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.</p> <p>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.</p>
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	<p>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).</p> <p>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.</p>

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.