



BLOUBERG MUNICIPALITY

BLOUBERG MUNICIPALITY CONSTRUCTION OF SENWABARWANA ELECTRICAL SUBSTATION

BID NUMBER: BM51/17/18

<p>Blouberg Municipality</p> <p>Technical Management Division Mr M.J. Maleka Tel: 015 505 7100</p> <p>Supply Chain Management Division Mr. M.M Makobela Tel: 015 505 7100</p>	<p>Volt Consulting Engineers</p> <p>Technical Management Division</p> <p>Mr L. Motsene Tel: 015 296 0275</p>
<p>Name of Bidder</p> <p>..</p> <p>CIDB Grading & CRS Number:</p> <p>Bid Amount (VAT Inclusive)</p>	

PREPARED BY:

Volt Consulting Engineers
 Tel: 015 296 0275
 Fax: 086 545 1820
 Email: info@voltconsulting.co.za
 Address: 15 Pierre Street, Ficus
 Park, Suite No 13, Bendor Park,
 0699



EXPANDED PUBLIC WORKS PROGRAMME

BLouBERG MUNICIPALITY

RESPONSIVENESS AND EVALUATION CRITERIA

1. RESPONSIVENESS CRITERIA

The Blouberg Municipality will consider no Bid unless it meets the following responsiveness criteria:

- The bid must be properly received in a sealed envelope clearly indicating the description of the service and the bid number for which the bid is submitted.
- The bid must be deposited in the relevant bid box as indicated on the notice of the bid on or before the closing date and time of the bid.
- An original Valid Tax Clearance Certificate must be submitted with the bid on or before the closing time and date of the bid.
- Proof of Registration with Central Supplier Database.
- Bid forms must be completed in full and each page of the bid initialled/ signed.
- Original / Certified copy of **B-BBEE** Certificate.
- Certified copy of the company registration certificate must be submitted with the bid on or before the closing time and date of the bid.
- Submission of a Joint Venture Agreement, where applicable, which has been properly signed by all parties.
- Complies with the requirements of the bid and technical specifications.
- Registered in the relevant contractor category in the Construction Development Board Register of Contractors (CIDB).
- Adheres to Pricing Instructions.
- Financial ability to execute the contract.
- Comply in full and observe the requirements of the Notice to Bidders.
- **Intent Letter for Sub-Contracting Local Contractors @minimum of 25%**

1. EVALUATION OF BIDS

- a) All bids received shall be evaluated in terms of the Supply Chain Management Regulations, Blouberg Municipality Supply Chain Management Policy, the Preferential Procurement Policy Framework Act, responsiveness to the bid

documents and on 90/10 point system – of which 90 points is for price and 10 points for **B-BBEE** Level Contribution as determined on the **B-BBEE** Certificates

- b) The Municipality reserves the right to accept all, some, or none of the bids submitted – either wholly or in part – and it is not obliged to accept the lowest bid.

By submitting this bid, the Bidder authorises the Municipality or its delegate(s) to carry out any investigation deemed necessary to verify the correctness of the statements and documents submitted and that such documents reasonably reflect the ability of the Bidder to provide the goods and services required by the Municipality.

PLEASE NOTE

The Municipal Manager may cancel a contract awarded to a person if:

- a) The person committed a corrupt or fraudulent act during the procurement process or in the execution of the contract, or
- b) An official or other role player committed any corrupt or fraudulent act during the procurement process or in the execution of the contract that benefited that person.

The Municipal Manager may reject the bid or quote of any person if that person or any of its directors has:

- c) Failed to pay municipal rates and taxes or municipal service charges and such rates, taxes and charges are in arrears for more than three months;
- d) Failed, during the last five years, to perform satisfactorily on a previous contract with the Blouberg Municipality or any other organ of State after written notice was given to that bidder that performance was unsatisfactory;
- e) Abused the supply chain management system of the Municipality or have committed any improper conduct in relation to this system;
- f) Been convicted of fraud or corruption during the past five years;
- g) Wilfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years; or
- h) Been listed in the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No. 12 of 2004) or has been listed on National Treasury's database as a person prohibited from doing business with public sector.

BLOUBERG MUNICIPALITY

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C3 | Scope of Work

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BID NOTICE AND INVITATION TO BID



BLOUBERG MUNICIPALITY

CONSTRUCTION OF SENWABARWANA ELECTRICAL SUBSTATION.

BID NO. BM51/17/18

The Blouberg Municipality, invites tenders for Construction of Senwabarwana Electrical Substation.

Only Bidders that have a CIDB contractor grading of **5GB** or Higher are eligible to submit bids. Joint ventures are also eligible to submit bids provided every member of the Joint Venture is registered with the CIDB and a combined grade of the Joint Venture calculated in accordance with the construction industry development regulations is equal to or higher than a contractor grading of **5GB** or Higher.

Bids documents containing the conditions of Bid and other requirements in terms of the Supply Chain Management Policy will be downloaded from e-tender Publication Portal at www.etenders.gov.za at no fee. . Queries relating to the issues of these documents may be addressed to **Mr M.J. Maleka/Mr M.M Makobela** Tel: **015 505 7100** and Technical queries may be directed to **Mr L. Motsene** Tel: **015 296 0275**.

Bids will be adjudicated in terms of the Preferential Procurement Policy Framework Act, 5/2000 in consultation with the CIDB Act. Bids will remain valid for 90 days. Blouberg Municipality reserves the right to negotiate further conditions and requirements with the successful bidder.

A compulsory clarification meeting with representatives of the employer will take place on **27 September 2019 at 10h00**. Prospective Bidders are requested to meet the Engineer at Blouberg Municipality offices then proceed to site.

Complete bid documents fully priced and signed sealed in an envelope marked "Bid No. **BM51/17/18 –“Construction of Senwabarwana Electrical substation”**" should be deposited in the Tender Box located in the foyer at the Blouberg Municipality offices at the 2nd Building Senwabarwana-Mogodi Road, not later than **11 October 2019 at 11h00**. Bid documents will be opened in public immediately after the closing time referred above. Telegraphic, e-mail or Tele-fax transmission and late tenders will not be accepted for consideration and where feasible shall be returned to the sender.

Mr Machaba M.J
Municipal Manager

BLOUBERG MUNICIPALITY
P.O Box 1593
Senwabarwana 0790

T1.2 Tender Data

The conditions of tender are the Standard Conditions of Tender as contained in Annex F of the CIDB Standard for Uniformity in Construction Procurement. (See www.cidb.org.za) which are reproduced without amendment or alteration for the convenience of tenderers as an Annex to this Tender Data.

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

The additional conditions of tender are:

Clause number Tender Data

F.1 The employer is Blouberg Municipality

F.1.1 The bid documents issued by the employer comprise:

T1.1 Bid notice and invitation to tender

T1.2 bid data

T2.1 List of returnable documents

T2.2 Returnable schedules

Part 1: Agreements and contract data

C1.1 Form of offer and acceptance

C1.2 Contract data

C1.3 Form of Guarantee

C1.4 Adjudicator's Contract

Part 2: Pricing data

C2.1 Pricing instructions

C2.2 Activity schedules / Bills of Quantities

Part 3: Scope of work

C3 Scope of work

Part 4: Site information

C4 Site information

F.1.2 The Employer's Electrical Engineer

Name : Volt Consulting Engineers
Address : 15 Pierre Street Ficus Park, Suite No: 13 Bendor
Park, Polokwane, 0699
Tel : 015 296 0275
Fax : 015 291 0745
E-mail : info@voltconsulting.co.za

BLOUBERG LOCAL MUNICIPALITY

CONSTRUCTION OF NEW SENWABARWANA ELECTRICAL SUB-STATION

T1.2 Tender Data

The conditions of tender are the Standard Conditions of Tender as contained in Annex F of the CIDB Standard for Uniformity in Construction Procurement. (See www.cidb.org.za) which are reproduced without amendment or alteration for the convenience of tenderers as an Annex to this Tender Data.

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

The additional conditions of tender are:

Clause number	Tender Data for BID NO: BM51/17/18
F.1.1	The employer is the Blouberg Local Municipality
F.1.2	The tender documents issued by the employer comprises: T1.1 Tender notice and invitation to tender T1.2 Tender data T2.1 List of returnable documents T2.2 Returnable schedules Part 1: Agreements and contract data C1.1 Form of offer and acceptance C1.2 Contract data C1.3 Form of Guarantee C1.4 Adjudicator's appointment Part 2: Pricing data C2.1 Pricing instructions C2.2 Activity schedules / Bills of Quantities Part 3: Scope of work C3 Scope of work Part 4: Site information C4 Site information
F.1.4	The employer's agent is: Name: Volt Consulting Engineers Address: 15 Pierre Street, Bendor Park, 0699 Tel: 015 296 0245 Fax: 015 291 0745 E-mail: info@voltconsulting.co.za
F.2.1	Only those tenderers who are registered with the CIDB, or are capable of being so prior to the evaluation of submissions, in a contractor grading designation equal to or higher than

a contractor grading designation determined in accordance with the sum tendered for a **Grade 5GB** class of construction work, are eligible to submit tenders.

Joint ventures are eligible to submit tenders provided that:

1. every member of the joint venture is registered with the CIDB;
2. the lead partner has a contractor grading designation in the Grade 5GB class of construction work; and
3. the combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a (5GB) General Building class of construction work.

F.2.7 A compulsory briefing with representatives of the Employer will take place on site on the **27 September 2019 starting at 10H00**. Tenderers must sign the attendance list in the name of the tendering entity.

F.2.12 No alternative tender offers will be considered

F.2.13.3 Parts of each tender offer communicated on paper shall be submitted as one original (i.e. no copies should be submitted).

F.2.13.5 The employer's address for delivery of tender offers and identification details to be shown
F2.15.1 on each tender offer package are:

Location of tender box: Physical address:-

BLOUBERG LOCAL MUNICIPALITY

P.O Box 1593
Senwabarwana
0790

Identification details:

Project no: BM51/17/18 Title: CONSTRUCTION OF NEW SENWABARWANA ELECTRICAL SUB-STATION

Postal address: P O Box 1593, Senwabarwana, 0790

F.2.15 The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender.

Closing date: 11 October 2019

Closing time: 11h00

- F.2.15 Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted.
- F.2.16 The tender offer validity period is eight weeks.
- F.2.18 The tenderer is to submit the priced bill of quantities with their tender offer at closure.
- F.2.23 The tenderer is required to submit with his tender a Certificate of Contractor Registration issued by the Construction Industry Development Board; Compensation of Injury Diseases Act certificate (COIDA) and an valid Tax Clearance Certificate issued by the South African Revenue Services.
Where a tenderer tenders through joint venture formation, such tenderers should include a notarized joint venture agreement duly signed by each partner.
- F.3.4 Tenders will be opened immediately after the closing time.

F.3.11 The procedure for the evaluation of responsive tenders is Method 2

The financial offer will be scored using Formula 2 (option 1) where the value of W_1 is 80 points.

The functionality will be scored using the following values: (This section should be read together with the table on the next page titled scorecard legend)

A maximum equal to 100 tender evaluation points will be awarded for quality, sub-divided according to the following:

- 100 points – Quality
 - 35 points – Experience on similar scale projects
 - 10 points – Safety, Health & Environmental Quality (SHEQ) Specific Plan
 - 15 points – Skills and Experience of Key Projects Resources
 - 10 points – Programme Schedule
 - 15 points – Schedule / Availability of Plant & Equipment
 - 15 points – Experience on Similar Projects References

F.3.11 cont Evaluation criteria summary in terms of above clauses:

80/20 SCORECARD LEGEND				
VARIABLES	TOTAL POINTS	CRITERIA	DESCRIPTION OF CRITERIA	POINTS

1. FUNCTIONALITY POINTS	100									
Experience on Similar Projects	35	Very Good	Points allocated for proven track record based on the similar of previous projects executed by tenderer in consideration with section C of the supplier questionnaire. Nature of work (Points allocation to be in line with the nature of work table outlined below)	35						
		Good		31.5						
		Satisfactory		24.5						
		Poor		14						
		Not Acceptable	Value of Work (Points allocation to be in line with the value of work table outlined below) 0							
Experience on Similar Projects References	15	Very Good (Score 100)	Points allocated for previous client references and submission in relation to the nature submitted in section C of the supplier questionnaire. The tenderer shall provide details of his/her performance on each of the previous projects listed in section C of the supplier questionnaire. The client reference forms must be completed and signed by both the client and principal agent.	15						
		Good (Score 90)		13.5						
		Satisfactory (Score 70)		10.5						
		Poor (Score 40)		6						
		Not Acceptable (Score 0)		0						
Skills and Experience of Key Projects Resources	15	Very Good	Points allocated for required competencies & qualification of allocated personnel for the project in consideration. Required Key Project Resources; 1. Project Manager: (i) Tertiary Qualification - National Diploma or Higher in Built Environment profession 2. Site Agent: (i) Tertiary Qualification - National Diploma or Higher in Built Environment profession Points allocations:	15						
		Good		10						
		Satisfactory		5						
		Poor		1						
		Not Submitted		0						
			<table border="1"> <tr> <td>Not submitted</td> <td>0 experience</td> <td>0</td> </tr> <tr> <td>Poor</td> <td>1 to 3 years' experience</td> <td>1</td> </tr> <tr> <td>Satisfactory</td> <td>3 to 5 years' experience</td> <td>3</td> </tr> </table>	Not submitted	0 experience	0	Poor	1 to 3 years' experience	1	Satisfactory
Not submitted	0 experience	0								
Poor	1 to 3 years' experience	1								
Satisfactory	3 to 5 years' experience	3								

			<table border="1"> <tr> <td>Good</td> <td>5 to 10 years' experience</td> <td>5</td> </tr> <tr> <td>Very Good</td> <td>More than 10 years' experience</td> <td>7.5</td> </tr> </table>	Good	5 to 10 years' experience	5	Very Good	More than 10 years' experience	7.5	
Good	5 to 10 years' experience	5								
Very Good	More than 10 years' experience	7.5								
Safety Health Environment & Quality (SHEQ) Plan	10	Very Good	Points allocated for submission of project specific SHEQ Plan. The SHEQ plan must outline but not limited to the following: <ul style="list-style-type: none"> • Project Specific • Safe Work Procedures • Risk Assessment • Risk Controls etc. 	10						
		Good		8						
		Satisfactory		5						
		Poor		3						
		Not Acceptable/Not Submitted		0						
Programme Schedule	10	Very Good	The programme should be a detailed double-linked critical path programme preferably in Microsoft Project format in hard copy and take into consideration the following; <ul style="list-style-type: none"> (i) Dividing the programme into convenient working zones both horizontally and vertically; (ii) Linking all activities as 'open ended' or 'open start' activities are not acceptable; (iii) Detailing all holidays, Christmas/New Year break, etc.; (iv) The programme must be a fully resourced "double linked" critical path programme clearly showing Start, Finish and any Interim completion dates as well as any Milestone dates for critical activities. Also must show both the Date of Practical Completion and the Date of Works Completion. 	10						
		Good		8						
		Satisfactory		5						
		Poor		3						
		Not Acceptable/Not Submitted		0						
Plant & Equipment	15	Very Good	In order to demonstrate capacity to deliver on time the tenderers will need to demonstrate the following: <ul style="list-style-type: none"> (i) Having access to the minimum required Plant and Equipment for the project at hand (ii) Demonstrate whether such Plant & Equipment is Owned or will be Rented. (iii) Submit Proof thereof of such Plant & 	15						
		Good		10						
		Satisfactory		7						
		Poor		4						

			<p>Equipment in existence (iv) If Plant and Equipment is Owned,</p> <p>Plant ownership to be demonstrated in the name of the bidding company and at least 3 of the listed plant below. Rental letters will be accepted however they will carry the allocation of points for "Good" maximum</p> <p>Plant: TLB Excavator Concrete Mixer Concrete Vibrator Tipper Truck Water Tanker etc.</p> <p>Equipment: Scaffolding and Tressel Ladder Wheelbarrows Spades and Shovels Hand Tools etc.</p>	0
Minimum points to be scored for Functionality is 70% of the total Points				
80/20 CRITERIA				
2. 80/20 CRITERIA	100			
EMPOWERMENT POINTS				
B-BBEE Points	20	B-BBEE Contributor Level 1	Points allocated to entities who are contributing towards the empowerment of black people (a SANAS accredited B-BBEE Certificate MUST be submitted with the bid	20
		B-BBEE Contributor Level 2		18
		B-BBEE Contributor Level 3		14
		B-BBEE Contributor Level 4		12

		B-BBEE Contributor Level 5	documents before any points can be allocated. Tenderers to submit Original B-BBEE or certified copies not older than 3 months). Tenderers tendering as joint ventures/ consortiums are required to submit a consolidated B-BBEE from a SANAS accredited verification agency in order to qualify for points for their B-BBEE status level as one entity. Bidders who qualify as EME's in terms of the B-BBEE Act must submit an Original Sworn Affidavit. Copies of certified sworn affidavits will result in no allocation of points.	8
		B-BBEE Contributor Level 6		6
		B-BBEE Contributor Level 7		4
		B-BBEE Contributor Level 8		2
		Non-Contributor		0
FINANCIAL OFFER/PRICE				
Price / Financial Offer Points	80	<p>Formula 2 Option 1, $A = (1 - \{p - pm/pm\})$</p> <p>pm =The comparative Price offer of the lowest qualifying tenderer</p> <p>p =The comparative offer of the tender under consideration</p>	Formula used to calculate Financial Offer/Price points	

1. LIST OF RETURNABLE SCHEDULES

Criteria No	Gate Keeper (Compulsory) Criteria	Gate Keeper Criteria Description
1	Valid CSD Registration Report with supplier number	Valid CSD registration Report printed from the CSD website with supplier number.
2	Letter of Good Standing (COIDA)	Valid Letter of Good Standing (Workman's Compensation, COIDA), If JV for all members of the JV. COIDA verification will be conducted to ensure

		validity and avoid fraudulent certificates, fraudulent documents will result into disqualification of bid.
3	CIDB Grading Certificate	Required CIDB Grading equivalent for the works. CIDB verification will be conducted to ensure validity of supplier status. Bidders who's CIDB status is found to be suspended/inactive or expired will be disqualified.
4	Detailed Bill of Quantities (BOQ), Written in Ink	Fully priced and detailed Bill of Quantities, written in Ink. (The P& G's should be fully priced. Unpriced items shall be deemed to be priced elsewhere, bidders will not be eliminated due to P&G's being not fully priced).
5	CIPC (Company registration) documents	CIPC documents with directors information
6	Certified Owners'/Directors' Identity Documents	Original Certified ID (Identity Documents/Cards) of Owners and/or Directors and should not be older than 3 months.
7	Consortium / Joint Venture Agreement	If Applicable , JV Agreement signed by all parties of the JV and signed & stamped by the commissioner of oaths.
8	Attendance to the Compulsory Briefing Meeting	Signed Compulsory Briefing Attendance Register
9	Fully and Duly Completed Form of Offer	Fully completed and signed form of offer
10	Declaration of Interest	Submission of Signed Declaration of Interest Form (SBD 4)
11	Preferential points claim form	Submission of completed SBD 6.1 Form
12	Local Content	Submission of completed SBD 6.2 Form
13	Declaration of Bidders Past SCM Practices	Submission of Signed SBD 9 Form
14	Certificate of Independent Bid Determination	Submission of Signed SBD 8 Form

Criteria No	Non Statutory (Non Compulsory) Requirements	Non Statutory (Non Compulsory) Requirements Description
1	Checklist for Tender Submission	Checklist for Tender Submission
2	Details of Tender	Details of Tender
3	Letter of Resolution	Letter of Resolution
4	Certificate of Compliance with Tender Documentation	Certificate of Compliance with Tender Documentation
5	Banking Details	Banking Details
6	Financial Report on Bank Official Letterhead	Financial Report on Bank Official Letterhead
7	Letter of Intent to Provide Security	Letter of Intent to Provide Security
8	Contractor's Health and Safety Declaration	Contractor's Health and Safety Declaration
9	Litigation History	Litigation History
10	Past Projects undertaken by the Tenderer in the last 5 years	Past Projects undertaken by the Tenderer in the last 5 years

11	Current Projects and Commitments	Current Projects and Commitments
12	Projects awaiting potential awards	Projects awaiting potential awards
13	Consolidated BBBEE certificate	Consolidated BBBEE certificate
14	Tenderer's Competence & Performance on Similar (Large Scale Project)	Tenderer's Competence & Performance on Similar (Large Scale Project)
15	Tenderer's Competence & Performance on similar (Healthcare) Project	Tenderer's Competence & Performance on similar (Healthcare) Project
16	Record of Addenda to Tender Documents	Record of Addenda to Tender Documents
17	Proposed amendments and Qualifications	Proposed amendments and Qualifications
18	Method Statement	Method Statement
19	Detailed Construction Programme	Detailed Construction Programme
20	Detailed Cash-Flow	Detailed Cash-Flow
21	Key Personnel	Key Personnel
22	Curriculum Vitae of Key Personnel & Qualifications	Curriculum Vitae of Key Personnel and Certified Qualifications that are not older than 3 months
23	Proposed Project Organogram	Proposed Project Organogram
24	Detailed Resourcing schedule	Detailed Resourcing schedule
25	Schedule of Proposed Domestic Sub-Contractors	Schedule of Proposed Domestic Sub-Contractors
26	Schedule of Plant and Equipment	Schedule of Plant and Equipment
27	Schedule of Materials and Equipment subject to Forex adjustment	Schedule of Materials and Equipment subject to Forex adjustment
28	Trade References	Trade References
29	Labour Intensive Programme	Labour Intensive Programme
30	Waiver of Contractor's Lien	Waiver of Contractor's Lien
31	Form of Indemnity for Design Work	Form of Indemnity for Design Work
32	Contractor's Safety Record	Contractor's Safety Record
33	Tax Clearance certificate	Submission of valid Tax clearance certificate with Tax compliance status form (PIN)
34	Project Specific SHEQ Plan	Project Specific SHEQ Plan

Value of work evaluation (No points will be allocated for value of works for Civil Engineering projects, water projects, Transport Projects, Traffic Engineering Projects and all Electrical & Mechanical Engineering projects)

Value of work	Rating
13.5m and above	Very Good
7m – 13.4m	Good
4m – 6.9m	Satisfactory
1m – 3.9m	Poor
0m – 0.9m	Not Submitted

Nature of work evaluation (No points will be allocated for value of works for Civil Engineering projects, water projects, Transport Projects, Traffic Engineering Projects and all Electrical & Mechanical Engineering projects)

Nature of Work	Rating
Construction and renovation of Hospitals, Clinics, Schools, Libraries, Hotels, Malls, shopping Complex, Courts, Office blocks, Town Houses	Very Good
Construction and renovation of Residential Houses	Good
Construction and renovations of Enviro loo toilets, RDP houses, Taxi Rank, Community Halls	Satisfactory
Construction and renovation of household toilets (VIP toilets)	Poor
Civil Engineering projects, water projects, Transport Projects, Traffic Engineering Projects and all Electrical & Mechanical Engineering projects	Not Submitted

Plant and Equipment

Plant and Equipment	Description
Plant and Equipment 1	Heavy duty machinery, TLBs, Excavators, Rollers
Plant and Equipment 2	Trucks, 6- 10 trucks, water tanks
Plant and Equipment 3	LDVs, Bakkies
Plant and Equipment 4	Scaffolding, trestles, step ladders, concrete mixers, Generators, jack hammer
Plant and Equipment 5	Spades, shovels, wheel barrows
Plant and Equipment 6	Hand tools, screw drivers, trowel, hammers, drills, grinders

Notes:

1. **Tenderers are required to score minimum points of 70 for Quality stated in tender data.**
2. **Tenderers who fail to meet the required minimum number of points for functionality stated in the tender data will be rejected.**
3. **Tenderers who fail to disclose information as per the returnable schedules will be disqualified.**
4. **Tenderers who fail to disclose information as per the returnable schedules will be disqualified.**
5. **All Bidders are required to be registered on CSD (Central Supplier Database) with National Treasury.**
6. **Please Provide CSD Registration report with supplier number with your Bid.**
7. **Registration with CSD is a requirement before any award for a Bid.**

T2.1.20 EVALUATION SCHEDULE: CLIENT REFERENCES

The Tenderer shall provide details of his performance on each of the previous projects listed in the “Relevant Experience” returnable schedule. “Client Reference Scorecards” will be completed by each of the respective Clients for the projects listed in the “Relevant Experience” returnable schedule.

REPORT ON CONTRACTOR’S COMPETANCE & PERFORMANCE ON A SIMILAR PROJECT FOR TENDER RECOMMENDATION PURPOSES

The following are to be **completed by the Client and Principal Agent** and is to be supported in each case by a letter of award and the works completion certificate. Both Client and Principal Agent must stamp the documents failure to obtain both stamps will result in no allocation of points.

PROJECT NAME and SCOPE OF WORK:
--

Principal agent:

Client:

Contract Amount:

Contract Duration:

Actual Contract Duration:

Description / Performance	Very poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)
Quality of office administration					
Quality of site management					
Competence of foreman					
Co-operation during contract					
Quality of workmanship					
Quality of materials					
Project management					
Rectification of condemned work					
Tidiness of site					
Adequacy of equipment					
Adequacy of labour force					
Procurement of materials					
Labour relations					

Any other remarks considered necessary to assist in evaluation of the contractor?

.....

Principal Firm: **Agent**

Telephone:

PA Signature:

Date:

Stamp

Client Signature:.....

Date:.....

Stamp

T2.1.20 EVALUATION SCHEDULE: REPORT ON CONTRACTOR'S COMPETANCE & PERFORMANCE ON A SIMILAR PROJECT FOR TENDER RECOMMENDATION PURPOSES

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PROJECT NAME and SCOPE OF WORK:
--

Principal agent:

Client:

Contract Amount:

Contract Duration:

Actual Contract Duration:

Description / Performance	Very poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)
Quality of office administration					
Quality of site management					
Competence of foreman					
Co-operation during contract					
Quality of workmanship					
Quality of materials					
Programme management					
Rectification of condemned work					
Tidiness of site					
Adequacy of equipment					
Adequacy of labour force					
Procurement of materials					
Labour relations					

Any other remarks considered necessary to assist in evaluation of the contractor?

.....

.....

Principal Agent Firm:

Telephone:

PA Signature:

Date:



Client Signature:.....

Date:.....

Stamp

T2.1.20 EVALUATION SCHEDULE: REPORT ON CONTRACTOR'S COMPETANCE & PERFORMANCE ON A SIMILAR PROJECT FOR TENDER RECOMMENDATION PURPOSES

The following are to be completed by the Client and Principal Agent and is to be supported in each case by a letter of award and the works completion certificate. Both Client and Principal Agent must stamp the documents failure to obtain both stamps will result in no allocation of points.

PROJECT NAME and SCOPE OF WORK:

Principal agent:

Client:

Contract Amount:

Contract Duration:

Actual Contract Duration:

Description / Performance	Very poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)
Quality of office administration					
Quality of site management					
Competence of foreman					
Co-operation during contract					
Quality of workmanship					
Quality of materials					
Programme management					
Rectification of condemned work					
Tidiness of site					
Adequacy of equipment					
Adequacy of labour force					
Procurement of materials					
Labour relations					

Any other remarks considered necessary to assist in evaluation of the contractor?

.....

.....

Principal Agent Firm:

Telephone:

PA Signature:

Date:.....

Stamp

Client Signature:.....

Date:.....

Stamp

T2.1.20 EVALUATION SCHEDULE: REPORT ON CONTRACTOR'S COMPETANCE & PERFORMANCE ON A SIMILAR PROJECT FOR TENDER RECOMMENDATION PURPOSES

The following are to be completed by the Client and Principal Agent and is to be supported in each case by a letter of award and the works completion certificate. Both Client and Principal Agent must stamp the documents failure to obtain both stamps will result in no allocation of points.

PROJECT NAME and SCOPE OF WORK:

Principal agent:

Client:

Contract Amount:

Contract Duration:

Actual Contract Duration:

Description / Performance	Very poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)
Quality of office administration					
Quality of site management					
Competence of foreman					
Co-operation during contract					
Quality of workmanship					
Quality of materials					
Programme management					
Rectification of condemned work					
Tidiness of site					
Adequacy of equipment					
Adequacy of labour force					
Procurement of materials					
Labour relations					

Any other remarks considered necessary to assist in evaluation of the contractor?

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Principal Agent Firm:

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Principal agent:

Client:

Contract Amount:

Contract Duration:

Actual Contract Duration:

Description / Performance	Very poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)
Quality of office administration					
Quality of site management					
Competence of foreman					
Co-operation during contract					
Quality of workmanship					
Quality of materials					
Programme management					
Rectification of condemned work					
Tidiness of site					
Adequacy of equipment					
Adequacy of labour force					
Procurement of materials					
Labour relations					

Any other remarks considered necessary to assist in evaluation of the contractor?

.....

.....

Principal Agent Firm:

Telephone:

PA Signature:

Date:.....

Stamp

Client Signature:.....

Date:.....

Stamp

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Principal agent:

Client:

Contract Amount:

Contract Duration:

Actual Contract Duration:

Description / Performance	Very poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)
Quality of office administration					
Quality of site management					
Competence of foreman					
Co-operation during contract					
Quality of workmanship					
Quality of materials					
Programme management					
Rectification of condemned work					
Tidiness of site					
Adequacy of equipment					
Adequacy of labour force					
Procurement of materials					
Labour relations					

Any other remarks considered necessary to assist in evaluation of the contractor?

.....

.....

Principal Agent Firm:

Telephone:

PA Signature:

Date:.....

Stamp

Client Signature:.....

Date:.....

Stamp

F.2 Only those bidders who have in their employ management and supervisory staff satisfying the requirements of the Scope of Work for labour intensive competencies for supervisory and management staff are eligible to submit tenders.

F.2.1 The following bidders who are registered with the CIDB, or are capable of being so registered prior to the closing of bids, are eligible to submit documents:

- a) contractors who have a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a **5GB** or Higher class of construction work; and
- b) contractors registered as potentially emerging enterprises with the CIDB who are registered in one contractor grading designation lower than that required in terms of a) above and who satisfy the following criteria:
 - The Employer, following an interview with the management of the enterprise, is satisfied that the enterprise has the potential to develop and qualify to be registered in a higher contractor grading designation; and
 - The Employer, following a risk assessment, is able to provide the necessary supportive measures required to enable the enterprise to successfully execute the contract.

Joint ventures are eligible to submit tenders provided that:

1. every member of the joint venture is registered with the CIDB;
2. the lead partner has a contractor grading designation in the **5GB** or Higher class of construction work; and
3. The combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a **5GB** or Higher **class** of construction work.

F.2.3 The arrangements for a compulsory clarification meeting are as stated in the Bid Notice and Invitation to Bid.

Bidders must sign the attendance list in the name of the tendering entity. Addenda will be issued to and tenders will be received only from those tendering entities appearing on the attendance list.

- F.2.4 If a bidder wish to submit an alternative tender offer, the only criteria permitted for such alternative bid offer is that it demonstrably satisfies the Employer's standards and requirements, the details of which may be obtained from the Employer's Agent.

Calculations, drawings and all other pertinent technical information and characteristics as well as modified or proposed Pricing Data must be submitted with the alternative tender offer to enable the Employer to evaluate the efficacy of the alternative and its principal elements, to take a view on the degree to which the alternative complies with the Employer's standards and requirements and to evaluate the acceptability of the pricing proposals. Calculations must be set out in a clear and logical sequence and must clearly reflect all design assumptions. Pricing Data must reflect all assumptions in the development of the pricing proposal.

Acceptance of an alternative tender offer will mean acceptance in principle of the offer. It will be an obligation of the contract for the tenderer, in the event that the alternative is accepted, to accept full responsibility and liability that the alternative offer complies in all respects with the Employer's standards and requirements.

The modified Pricing Data must include an amount equal to 5% of the amount tendered for the alternative offer to cover the Employer's costs of confirming the acceptability of the detailed design before it is constructed.

- F.2.5 Parts of each tender offer communicated on paper shall be submitted as an original, plus 0 copies.

- F.2.6 The Blouberg Municipality's address for delivery of bid offers and identification details to be shown on each bid offer package are:

**P.O Box 1593
Senwabarwana
0790**

- F.2.8 A two-envelope procedure will not be followed.

- F.2.9 The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender.

- F.2.10 Telephonic, telegraphic, telex, facsimile or e-mailed bid offers will not be accepted.

- F.2.11 The tender offer validity period is 90 working Days.

- F.2.13 The bidder shall, when requested by the Employer to do so, submit the names of all management and supervisory staff that will be employed to supervise the labour-intensive portion of the works together with satisfactory evidence that such staff members satisfy the eligibility requirements.

- F.2.14 The bidder is required to submit with his tender:

- 1) A Certificate of Contractor Registration issued by the Construction Industry Development Board.
- 2) where the bidding amount inclusive of VAT exceeds R 10 million:
 - i) audited annual financial statement for 3 years, or for the period since establishment if established during the last 3 years, if required by law to prepare annual financial statements for auditing;
 - ii) a certificate certifying that the tenderer has no undisputed commitments for municipal services towards a municipality or other service provider in respect of which payment is overdue for more than 30 days;
 - iii) particulars of any contracts awarded to the tenderer by an organ of state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract;

- iv) a statement indicating whether any portion of the goods or services are expected to be sourced from outside the Republic, and, if so, what portion and whether any portion of payment from the municipality or municipal entity is expected to be transferred out of the Republic.

Where a bidder satisfies CIDB contractor grading designation requirements through joint venture formation, such tenderers must submit the Certificates of Contractor Registration in respect of each partner.

F.3 Bid documents will be opened immediately after the closing time for bidders at the Blouberg Municipality's offices.

F.3.1 The procedure for the evaluation of responsive tenders is Method 1

The financial offer will be scored using Formula 2 (Option 1) where the value of W_1 is:

- 1) 90 where the financial value inclusive of VAT of all responsive tenders received have a value in excess of R 1 000 000; or
- 2) 80 where the financial value inclusive of VAT of one or more responsive tender offers equals or is less than R 1 000 000.

Up to 100 minus W_1 tender evaluation points will be awarded to tenderers who complete the preferencing schedule and who are found to be eligible for the preference claimed.

- F3.2 Bid offers will only be accepted if:
- a) Copy of company registration certificate is submitted.
 - b) An original valid tax clearance certificate issued by SARS is submitted.
 - c) A copy of BBB-EE Certificate
 - d) the bidder is registered with the Construction Industry Development Board in an appropriate contractor grading designation;
 - e) the tenderer or any of its directors is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector;
 - f) the bidder has not:
 - i) abused the Employer's Supply Chain Management System; or
 - ii) failed to perform on any previous contract and has been given a written notice to this effect; and
 - g) has completed the Compulsory Enterprise Questionnaire and there are no conflicts of Interest which may impact on the tenderer's ability to perform the contract in the best interests of the employer or potentially compromise the tender process.

F.3.3 The number of paper copies of the signed contract to be provided by the employer is one.

Annex F: Standard Conditions of Tender

F.1 General

F.1.1 Actions

The employer and each bidder submitting a bid offer shall comply with these conditions of tender. In their dealings with each other, they shall discharge their duties and obligations as set out in F.2 and F.3, timeously and with integrity, and behave equitably, honestly and transparently.

F.1.2 Bid Documents

The documents issued by the employer for the purpose of a bid offer are listed in the tender data.

F.1.3 Interpretation

F.1.3.1 The bid data and additional requirements contained in the bid schedules that are included in the returnable documents are deemed to be part of these conditions of bid.

F.1.3.2 These conditions of bid, the bid data and bid schedules which are only required for bid evaluation purposes, shall not form part of any contract arising from the invitation to bid.

F.1.3.3 For the purposes of these conditions for the calling for expressions of interest, the following definitions apply:

- a) **Comparative offer** means the bidder's financial offer after the factors of non-firm prices, all unconditional discounts and any other tendered parameters that will affect the value of the financial offer have been taken into consideration
- b) **corrupt practice** means the offering, giving, receiving or soliciting of anything of value to influence the action of the employer or his staff or agents in the tender process; and
- c) **fraudulent practice** means the misrepresentation of the facts in order to influence the bid process or the award of a contract arising from a bid offer to the detriment of the employer, including collusive practices intended to establish prices at artificial levels
- d) **quality (functionality)** means the totality of features and characteristics of a product or service that bear on its ability to satisfy stated or implied needs

F.1.4 Communication and employer's agent

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

F.1.5 The employer's right to accept or reject any bid offer

F.1.5.1 The employer may accept or reject any variation, deviation, bid offer, or alternative bid offer, and may cancel the bid process and reject all bid offers at any time before the formation of a contract. The employer shall not accept or incur any liability to a bidder for such cancellation and rejection, but will give written reasons for such action upon written request to do so.

F.1.5.2 The employer may not subsequent to the cancellation or abandonment of a bid process or the rejection of all responsive tender offers re-issue a bid covering substantially the same scope of work within a period of six months unless only one bid was received and such bid was returned unopened to the bidder.

F.2 Bidder's obligations

F.2.1 Eligibility

Submit a bid offer only if the bidder satisfies the criteria stated in the bid data and the bidder, or any of his principals, is not under any restriction to do business with employer.

F.2.2 Cost of tendering

Accept that the employer will not compensate the bidder for any costs incurred in the preparation and submission of a bid offer, including the costs of any testing necessary to demonstrate that aspects of the offer satisfy requirements.

F.2.3 Check documents

Check the bid documents on receipt for completeness and notify the employer of any discrepancy or omission.

F.2.4 Confidentiality and copyright of documents

Treat as confidential all matters arising in connection with the bid. Use and copy the documents issued by the employer only for the purpose of preparing and submitting a bid offer in response to the invitation.

F.2.5 Reference documents

Obtain, as necessary for submitting a bid offer, copies of the latest versions of standards, specifications, conditions of contract and other publications, which are not attached but which are incorporated into the bid documents by reference.

F.2.6 Acknowledge addenda

Acknowledge receipt of addenda to the bid documents, which the employer may issue, and if necessary apply for an extension to the closing time stated in the bid data, in order to take the addenda into account.

F.2.7 Clarification meeting

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

F.2.8 Seek clarification

Request clarification of the bid documents, if necessary, by notifying the employer at least five working days before the closing time stated in the bid data.

F.2.9 Insurance

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

F.2.10 Pricing the tender offer

F.2.10.1 Include in the rates, prices, and the bidding total of the prices (if any) all duties, taxes (except Value Added Tax (VAT)), and other levies payable by the successful bidder, such duties, taxes and levies being those applicable 14 days before the closing time stated in the bid data.

F2.10.2 Show VAT payable by the employer separately as an addition to the tendered total of the prices.

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

F.2.10.4 State the rates and prices in Rand unless instructed otherwise in the tender data. The conditions of contract identified in the contract data may provide for part payment in other currencies.

F.2.11 Alterations to documents

Not make any alterations or additions to the tender documents, except to comply with instructions issued by the employer, or necessary to correct errors made by the bidder. All signatories to the bid offer shall initial all such alterations. Erasures and the use of masking fluid are prohibited.

F.2.12 Alternative bid offers

F.2.12.1 Submit alternative tender offers only if a main tender offer, strictly in accordance with all the requirements of the bid documents, is also submitted. The alternative bid offer is to be submitted with the main bid offer together with a schedule that compares the requirements of the bid documents with the alternative requirements of the bidding proposes.

F.2.12.2 Accept that an alternative tender offer may be based only on the criteria stated in the bid data or criteria otherwise acceptable to the employer.

F.2.13 Submitting a tender offer

F.2.13.1 Submit a bid offer to provide the whole of the works, services or supply identified in the contract data and described in the scope of works, unless stated otherwise in the bid data.

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

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

F.2.13.4 Sign the original and all copies of the bid offer where required in terms of the bid data. The employer will hold all authorized signatories liable on behalf of the bidder. Signatories for bidders proposing to contract as joint ventures shall state which of the signatories is the lead partner whom the employer shall hold liable for the purpose of the bid offer.

F.2.13.5 Seal the original and each copy of the bid offer as separate packages marking the packages as "ORIGINAL" and "COPY". Each package shall state on the outside the employer's address and identification details stated in the tender data, as well as the bidder's name and contact address.

F.2.13.6 Where a two-envelope system is required in terms of the bid data, place and seal the returnable documents listed in the bid data in an envelope marked "financial proposal" and place the remaining returnable documents in an envelope marked "technical proposal". Each envelope shall state on the outside the employer's address and identification details stated in the bid data, as well as the bidder's name and contact address.

F.2.13.7 Seal the original bid offer and copy packages together in an outer package that states on the outside only the employer's address and identification details as stated in the bid data.

F.2.13.8 Accept that the employer will not assume any responsibility for the misplacement or premature opening of the bid offer if the outer package is not sealed and marked as stated.

F.2.14 Information and data to be completed in all respects

Tender

Accept that bid offers, which do not provide all the data or information requested completely and in the form required, may be regarded by the employer as non-responsive.

F.2.15 Closing time

F.2.15.1 Ensure that the employer receives the bid offer at the address specified in the bid data not later than the closing time stated in the bid data. Proof of posting shall not be accepted as proof of delivery. The employer shall **not** accept bid offers submitted by telegraph, telex, facsimile or e-mail, unless stated otherwise in the bid data.

F.2.15.2 Accept that, if the employer extends the closing time stated in the bid data for any reason, the requirements of these conditions of bid apply equally to the extended deadline.

F.2.16 Tender offer validity

F.2.16.1 Hold the bid offer(s) valid for acceptance by the employer at any time during the validity period stated in the bid data after the closing time stated in the bid data.

F.2.16.2 If requested by the employer, consider extending the validity period stated in the bid data for an agreed additional period.

F.2.17 Clarification of tender offer after submission

Provide clarification of a bid offer in response to a request to do so from the employer during the evaluation of bid offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in the total of the prices or substance of the bid offer is sought, offered, or permitted. The total of the prices stated by the tenderer shall be binding upon the bidder.

Note: Sub-clause F.2.17 does not preclude the negotiation of the final terms of the contract with a preferred bidder following a competitive selection process, should the Employer elect to do so.

F.2.18 Provide other material

F.2.18.1 Provide, on request by the employer, any other material that has a bearing on the bid offer, the bidder's commercial position (including notarized joint venture agreements), preferencing arrangements, or samples of materials, considered necessary by the employer for the purpose of a full and fair risk assessment. Should the bidder not provide the material, or a satisfactory reason as to why it cannot be provided, by the time for submission stated in the employer's request, the employer may regard the bid offer as non-responsive.

F.2.18.2 Dispose of samples of materials provided for evaluation by the employer, where required.

F.2.19 Inspections, tests and analysis

Provide access during working hours to premises for inspections, tests and analysis as provided for in the bid data.

F.2.20 Submit securities, bonds, policies, etc.

If requested, submit for the employer's acceptance before formation of the contract, all securities, bonds, guarantees, policies and certificates of insurance required in terms of the conditions of contract identified in the contract data.

F.2.21 Check final draft

Check the final draft of the contract provided by the employer within the time available for the employer to issue the contract.

F.2.22 Return of other bid documents

If so instructed by the employer, return all retained bid documents within 28 days after the expiry of the validity period stated in the bid data.

F.2.23 Certificates

Include in the bid submission or provide the employer with any certificates as stated in the bid data.

F.3 The employer's undertakings

F.3.1 Respond to clarification

Respond to a request for clarification received up to five working days before the bid closing time stated in the Bid Data and notify all bidders who drew procurement documents.

F.3.2 Issue Addenda

If necessary, issue addenda that may amend or amplify the bid documents to each bidder during the period from the date that bid documents are available until seven days before the bid closing time stated in the Bid Data. If, as a result a Bidder applies for an extension to the closing time stated in the Bid Data, the Employer may grant such extension and, shall then notify all bidders who drew documents.

F.3.3 Return late bid offers

Return bid offers received after the closing time stated in the Bid Data, unopened, (unless it is necessary to open a bid submission to obtain a forwarding address), to the bidder concerned.

F.3.4 Opening of bid submissions

F.3.4.1 Unless the two-envelope system is to be followed, open valid bid submissions in the presence of bidders' agents who choose to attend at the time and place stated in the bid data. Bid submissions for which acceptable reasons for withdrawal have been submitted will not be opened.

F.3.4.2 Announce at the meeting held immediately after the opening of bid submissions, at a venue indicated in the bid data, the name of each bidder whose bid offer is opened, the total of this prices, preferences claimed and time for completion, if any, for the main bid offer only.

F.3.4.3 Make available the record outlined in F.3.4.2 to all interested persons upon request.

F.3.5 Two-envelope system

F.3.5.1 Where stated in the bid data that a two-envelope system is to be followed, open only the technical proposal of valid bidders in the presence of bidders' agents who choose to attend at the time and place stated in the bid data and announce the name of each bidder whose technical proposal is opened.

F.3.5.2 Evaluate the quality of the technical proposals offered by bidders, then advise bidders who remain in contention for the award of the contract of the time and place when the financial proposals will

be opened. Open only the financial proposals of bidders, who score in the quality evaluation more than the minimum number of points for quality stated in the bid data, and announce the score obtained for the technical proposals and the total price and any preferences claimed. Return unopened financial proposals to bidders whose technical proposals failed to achieve the minimum number of points for quality.

F.3.6 Non-disclosure

Not disclose to bidders, or to any other person not officially concerned with such processes, information relating to the evaluation and comparison of tender offers, the final evaluation price and recommendations for the award of a contract, until after the award of the contract to the successful bidder.

F.3.7 Grounds for rejection and disqualification

Determine whether there has been any effort by a bidder to influence the processing of bid offers and instantly disqualify a bidder (and his bid offer) if it is established that he engaged in corrupt or fraudulent practices.

F.3.8 Test for responsiveness

F.3.8.1 Determine, on opening and before detailed evaluation, whether each bid offer properly received:

- a) complies with the requirements of these Conditions of Bid,
- b) has been properly and fully completed and signed, and
- c) is responsive to the other requirements of the bid documents.

F.3.8.2 A responsive bid is one that conforms to all the terms, conditions, and specifications of the bid documents without material deviation or qualification. A material deviation or qualification is one which, in the Employer's opinion, would:

- a) detrimentally affect the scope, quality, or performance of the works, services or supply identified in the Scope of Work,
- b) change the Employer's or the tenderer's risks and responsibilities under the contract, or
- c) affect the competitive position of other tenderers presenting responsive tenders, if it were to be rectified.

Reject a non-responsive bid offer, and not allow it to be subsequently made responsive by correction or withdrawal of the non-conforming deviation or reservation.

F.3.9 Arithmetical errors

F.3.9.1 Check responsive tender offers for arithmetical errors, correcting them in the following manner:

- a) Where there is a discrepancy between the amounts in figures and in words, the amount in words shall govern.
- b) If bills of quantities (or schedule of quantities or schedule of rates) apply and there is an error in the line item total resulting from the product of the unit rate and the quantity, the line item total shall govern and the rate shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line item total as quoted shall govern, and the unit rate shall be corrected.
- c) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the bidder's addition of prices, the total of the prices shall govern and the

bidder will be asked to revise selected item prices (and their rates if bills of quantities apply) to achieve the bid total of the prices.

F.3.9.2 Consider the rejection of a bid offer if the bidder does not correct or accept the correction of his arithmetical errors in the manner described in F.3.9.1.

F.3.10 Clarification of a bid offer

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

F.3.11 Evaluation of tender offers

F.3.11.1 General

Appoint an evaluation panel of not less than three persons. Reduce each responsive bid offer to a comparative offer and evaluate it using the bid evaluation method that is indicated in the Bid Data and described below:

Method 1: Financial offer	<ol style="list-style-type: none"> 1) Rank bid offers from the most favourable to the least favourable comparative offer. 2) Recommend highest ranked bidder for the award of the contract, unless there are compelling and justifiable reasons not to do so.
Method 2: Financial offer and preferences	<ol style="list-style-type: none"> 1) Score bid evaluation points for financial offer. 2) Confirm that bidders are eligible for the preferences claimed and if so, score tender evaluation points for preferencing. 3) Calculate total bid evaluation points. 4) Rank bid offers from the highest number of tender evaluation points to the lowest. 5) Recommend bidder with the highest number of bid evaluation points for the award of the contract, unless there are compelling and justifiable reasons not to do so.
Method 3: Financial offer and quality	<ol style="list-style-type: none"> 1) Score quality, rejecting all bid offers that fail to score the minimum number of points for quality stated in the Bid data. 2) Score bid evaluation points for financial offer. 3) Calculate total bid evaluation points. 4) Rank bid offers from the highest number of bid evaluation points to the lowest. 5) Recommend bidder with the highest number of bid evaluation points for the award of the contract, unless there are compelling and justifiable reasons not to do so.
Method 4: Financial offer, quality and preferences	<ol style="list-style-type: none"> 1) Score quality, rejecting all tender offers that fail to score the minimum number of points for quality stated in the Bid data. 2) Score Bid evaluation points for financial offer. 3) Confirm that bidders are eligible for the preferences claimed, and if so, score bid evaluation points for preferencing. 4) Calculate total tender evaluation points. 5) Rank bid offers from the highest number of tender evaluation points to the lowest. <ol style="list-style-type: none"> 6) Recommend bidder with the highest number of bid evaluation points for the award of the contract, unless there are compelling and justifiable reasons not to do so.

Score financial offers, preferences and quality, as relevant, to two decimal places.

F.3.11.2 Scoring Financial Offers

Score the financial offers of remaining responsive bid offers using the following formula:

$N_{FO} = W_1 \times A$ where:

N_{FO} = the number of tender evaluation points awarded for the financial offer.

W_1 = the maximum possible number of tender evaluation points awarded for the financial offer as stated in the Bid Data.

A = a number calculated using either formulas 1 or 2 below as stated in the Tender Data.

Formula	Comparison aimed at achieving	Option 1	Option 2
1	Highest price or discount	$A = (1 + \frac{P - P_m}{P_m})$	$A = P / P_m$
2	Lowest price or percentage commission / fee	$A = (1 - \frac{P - P_m}{P_m})$	$A = P_m / P$

where:

P_m = the comparative offer of the most favourable bid offer.

P = the comparative offer of bid offer under consideration.

F.3.11.3 Scoring quality (functionality)

Score quality in each of the categories in accordance with the Bid Data and calculate total score for quality.

F.3.12 Insurance provided by the employer

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

F.3.13 Acceptance of bid offer

F.3.13.1 Accept bid offer only if the bidder complies with the legal requirements stated in the Bid Data.

F.3.13.2 Notify the successful bidder of the employer's acceptance of his bid offer by completing and returning one copy of the form of offer and acceptance before the expiry of the validity period stated in the bid data, or agreed additional period. Providing the form of offer and acceptance does not contain any qualifying statements, it will constitute the formation of a contract between the employer and the successful bidder as described in the form of offer and acceptance.

F.3.14 Notice to unsuccessful bidders

After the successful bidder has acknowledged the employer's notice of acceptance, notify other bidders that their bid offers have not been accepted.

F.3.15. Prepare contract documents

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

- a) addenda issued during the tender period,
- b) inclusion of some of the returnable documents,
- c) other revisions agreed between the employer and the successful bidder, and
- d) the schedule of deviations attached to the form of offer and acceptance, if any.

F.3.16 Issue final contract

Prepare and issue the final draft of contract documents to the successful bidder for acceptance as soon as possible after the date of the employer's signing of the form of offer and acceptance (including the schedule of deviations, if any). Only those documents that the conditions of bid require the bidder to submit, after acceptance by the employer, shall be included.

F.3.17 Complete adjudicator's contract

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

F.3.18 Provide copies of the contracts

Provide to the successful bidder the number of copies stated in the Bid Data of the signed copy of the contract as MBD 1

INVITATION TO BID

The bidder must complete the following returnable documents:

1 Returnable Schedules required only for bid evaluation purposes

- Certificate of authority for joint ventures (where applicable)
- Compulsory Enterprise Questionnaire
- Record of Addenda to Tender Documents
- Proposed Amendments and Qualifications
- Schedule of Subcontractors
- Schedule of Plant and Equipment
- Schedule of the Tenderer's Experience
- Certificate for Municipal Services and Payments
- Authorisation for deduction of outstanding amounts owed to Municipality
- Declaration of Bidder's Past Supply Chain Management Practices
- Compliance with OHS Act (Act 85 of 1993)
- A valid certified copy of B-BBEE Certificate

2 Other documents required only for bid evaluation purposes

- Certificate of Contractor Registration issued by the Construction Industry Development Board
- Copy of company registration certificate (C.K. Certificate) with shareholding
- An original valid Tax Clearance Certificate issued by the South African Revenue Services.
- Where the tendered amount inclusive of VAT exceeds R 10 million:
 - i) audited annual financial statement for 3 years, or for the period since establishment if established during the last 3 years, if required by law to prepare annual financial statements for auditing;
 - ii) certificate certifying that the tenderer has no undisputed commitments for municipal services towards a municipality or other service provider in respect of which payment is overdue for more than 30 days;

- iii) particulars of any contracts awarded to the tenderer by an organ of state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract;
- iv) a statement indicating whether any portion of the goods or services are expected to be sourced from outside the Republic, and, if so, what portion and whether any portion of payment from the municipality or municipal entity is expected to be transferred out of the Republic.
- v) Certified copy of the Bidder's wireman's licence

3 Returnable Schedules that will be incorporated into the contract

- Preferencing Schedule (direct preferences) / Preferencing Schedule (contract participation goals)
- Direct Preferencing shall be used in evaluation of Bids

4 The offer portion of the C1.1 Offer and Acceptance

5 C1.2 Contract Data (Part 2)

6 C2.2 Bills of Quantities

Record of Addenda to Bid Documents

We confirm that the following communications received from the Employer before the submission of this bid offer, amending the bid documents, have been taken into account in this bid offer:		
	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		

Attach additional pages if more space is required.

Signed _____ Name _____ Tenderer _____	Date _____ Position _____
--	------------------------------

Compulsory Enterprise Questionnaire

The following particulars must be furnished. In the case of a joint venture, **separate** enterprise questionnaires in respect of each partner must be completed and submitted.

Section 1: Name of enterprise:

Section 2: VAT registration number, if any:

Section 3: CIDB registration number, if any:

Section 4: Particulars of sole proprietors and partners in partnerships

Name*	Identity number*	Personal income tax number*

* Complete only if sole proprietor or partnership and attach separate page if more than 3 partners

Section 5: Particulars of companies and close corporations

Company registration number

Close corporation number

Tax reference number

Section 6: Record in the service of the state

Indicate by marking the relevant boxes with a cross, if any sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months in the service of any of the following:

- | | |
|--|---|
| <input type="checkbox"/> a member of any municipal council
<input type="checkbox"/> a member of any provincial legislature
<input type="checkbox"/> a member of the National Assembly or the National Council of Province
<input type="checkbox"/> a member of the board of directors of any municipal entity
<input type="checkbox"/> an official of any municipality or municipal entity | <input type="checkbox"/> an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999)
<input type="checkbox"/> a member of an accounting authority of any national or provincial public entity
<input type="checkbox"/> an employee of Parliament or a provincial legislature |
|--|---|

If any of the above boxes are marked, disclose the following:

Name of sole proprietor, partner, director, manager, principal shareholder or stakeholder	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within last 12 months

*insert separate page if necessary

Section 7: Record of spouses, children and parents in the service of the state

Indicate by marking the relevant boxes with a cross, if any spouse, child or parent of a sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months been in the service of any of the following:

- a member of any municipal council
- a member of any provincial legislature
- a member of the National Assembly or the National Council of Province
- a member of the board of directors of any municipal entity
- an official of any municipality or municipal entity
- An employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999)
- a member of an accounting authority of any national or provincial public entity
- an employee of Parliament or a provincial legislature

Name of spouse, child or parent	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within last 12 months

*insert separate page if necessary

The undersigned, who warrants that he / she is duly authorised to do so on behalf of the enterprise:

- i) authorizes the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;
- ii) confirms that the neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004;
- iii) confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convicted of fraud or corruption;
- iv) confirms that I / we are not associated, linked or involved with any other tendering entities submitting bid offers and have no other relationship with any of the bidders or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest; and
- iv) confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

Signed _____ Date _____
 Name _____ Position _____
 Enterprise name _____

Certificate of Authority for Joint Ventures

This Returnable Schedule is to be completed by joint ventures.

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorise Mr/Ms , authorised signatory of the company , acting in the capacity of lead partner, to sign all documents in connection with the bid offer and any contract resulting from it on our behalf.

NAME OF FIRM	ADDRESS	DULY AUTHORIZED SIGNATORY
Lead partner		Signature. Name Designation.
		Signature. Name Designation.
		Signature. Name Designation.
		Signature. Name Designation.

Schedule of Proposed Subcontractors

We notify you that it is our intention to employ the following Subcontractors for work in this contract.

If we are awarded a contract we agree that this notification does not change the requirement for us to submit the names of proposed Subcontractors in accordance with requirements in the contract for such appointments. If there are no such requirements in the contract, then your written acceptance of this list shall be binding between us.

We confirm that all Subcontractors who are contracted to construct a house are registered as home builders with the National Home Builders Registration Council.

	Name and address of proposed Subcontractor	Nature and extent of work	Previous experience with Subcontractor.
1.			
2.			
3.			
4.			
5.			

Signed

Date

Name

Position

Bidder

Schedule of Plant and Equipment

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

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

Quantity	Description, size, capacity, etc.

Attach additional pages if more space is required.

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

Quantity	Description, size, capacity, etc.

Attach additional pages if more space is required.

Signed Date

Name Position

Bidder

Schedule of the Bidder's Experience

The following is a statement of similar work successfully executed by myself / ourselves:

Employer, contact person and telephone number.	Description of contract	Value of work inclusive of VAT (Rand)	Date completed

Signed

Date

Name

Position

Bidder

Proposed amendments and qualifications

The Bidder should record any deviations or qualifications he may wish to make to the bid documents in this Returnable Schedule. Alternatively, a bidder may state such deviations and qualifications in a covering letter to his bid and reference such letter in this schedule.

The Bidder's attention is drawn to clause F.3.8 of the Standard Conditions of Bid referenced in the Bid Data regarding the employer's handling of material deviations and qualifications.

Page	Clause or item	Proposal

Signed

Date

Name

Position

Bidder

CERTIFICATE FOR MUNICIPAL SERVICES AND PAYMENTS

TO: MUNICIPAL MANAGER, BLOUBERG MUNICIPALITY

FROM: _____ (Name of Bidder)

FURTHER DETAILS OF BIDDER(S); DIRECTORS/SHAREHOLDERS/PARTNERS, ETC.

Directors/shareholders/ Partner	Physical address of the Business	Municipal Account No.	Physical residential address of the Director/Shareholder/Partner	Municipal Account No.

NB: Please attach certified copy (ies) of ID document(s)

Signatory

Date

Witnesses

1. _____
Full Names

Signature

Date

2. _____
Full Names

Signature

Date

INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NAME OF MUNICIPALITY/ENTITY)

BID NUMBER: CLOSING DATE: CLOSING TIME:
.....

DESCRIPTION.....
.....

The successful bidder will be required to fill in and sign a written Contract Form (MBD 7).

BID DOCUMENTS MAY BE POSTED TO:

.....
.....

OR

DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)

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

Bidders should ensure that bids are delivered timeously to the correct address. If the bid is late, it will not be accepted for consideration.

The bid box is generally open 24 hours a day, 7 days a week.

ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS – (NOT TO BE RE-TYPED)

THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2011, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT

NB: NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE (as defined in Regulation 1 of the Local Government: Municipal Supply Chain Management Regulation

**THE FOLLOWING PARTICULARS MUST BE FURNISHED
(FAILURE TO DO SO MAY RESULT IN YOUR BID BEING DISQUALIFIED)**

NAME OF BIDDER

.....

POSTAL ADDRESS

.....

STREET ADDRESS

.....

TELEPHONE NUMBER

CODE.....NUMBER.....

CELLPHONE NUMBER

.....

FACSIMILE NUMBER

CODE

NUMBER.....

E-MAIL ADDRESS

.....

VAT REGISTRATION NUMBER

.....

HAS AN ORIGINAL AND VALID TAX CLEARANCE CERTIFICATE BEEN ATTACHED? (MBD 2)

YES/NO

HAS A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE BEEN SUBMITTED? (MBD 6.1)

YES/NO

IF YES, WHO WAS THE CERTIFICATE ISSUED BY?

AN ACCOUNTING OFFICER AS CONTEMPLATED IN THE CLOSE CORPORATION ACT (CCA)

A VERIFICATION AGENCY ACCREDITED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM (SANAS)

A REGISTERED AUDITOR

(Tick applicable box)

(A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE)

ARE YOU THE ACCREDITED REPRESENTATIVE
IN SOUTH AFRICA FOR THE GOODS/SERVICES/WORKS OFFERED?

YES/NO

(IF YES ENCLOSE PROOF)

SIGNATURE OF BIDDER

.....

DATE

.....

CAPACITY UNDER WHICH THIS BID IS SIGNED

.....

TOTAL BID PRICE.....TOTAL NUMBER OF ITEMS OFFERED.....

ANY ENQUIRIES REGARDING THE BIDDING PROCEDURE MAY BE DIRECTED TO:

Municipality / Municipal Entity:

Department:

Contact Person:

Tel:

Fax:

ANY ENQUIRIES REGARDING TECHNICAL INFORMATION MAY BE DIRECTED TO:

Contact Person:

Tel:

Fax:

TAX CLEARANCE REQUIREMENTS

IT IS A CONDITION OF BIDDING THAT -

1. The taxes of the successful bidder must be in order, or that satisfactory arrangements have been made with the Receiver of Revenue to meet his / her tax obligations.
2. The attached form "Application for Tax Clearance Certificate (in respect of bidders)", must be completed in all respects and submitted to the Receiver of Revenue where the bidder is registered for tax purposes. The Receiver of Revenue will then furnish the bidder with a Tax Clearance Certificate that will be valid for a period of twelve (12) months from date of issue. This Tax Clearance Certificate must be submitted in the original together with the bid. Failure to submit the original and valid Tax Clearance Certificate may invalidate the bid.
3. In bids where Consortia / Joint Ventures / Sub-contractors are involved each party must submit a separate Tax Clearance Certificate. Copies of the Application for Tax Clearance Certificates are available at any Receiver's Office.

MBD2/ Application for tax Certificate...

- Does the offer comply with the specification(s)? *YES/NO
- If not to specification, indicate deviation(s)
- Period required for delivery
*Delivery: Firm/Not firm
- Delivery basis

Note: All delivery costs must be included in the bid price, for delivery at the prescribed destination.

** "all applicable taxes" includes value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies.

*Delete if not applicable

MBD 3.2

**PRICING SCHEDULE – NON-FIRM PRICES
(PURCHASES)**

NOTE: PRICE ADJUSTMENTS WILL BE ALLOWED AT THE PERIODS AND TIMES SPECIFIED IN THE BIDDING DOCUMENTS.

IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING, A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY POINT

Name of Bidder.....	Bid number.....
Closing Time	Closing Date

OFFER TO BE VALID FOR.....DAYS FROM THE CLOSING DATE OF BID.

ITEM NO.	QUANTITY	DESCRIPTION	BID PRICE IN RSA CURRENCY **(ALL APPLICABLE TAXES INCLUDED)
----------	----------	-------------	--

- Required by:

- At:

- Brand and model

- Country of origin

- Does the offer comply with the specification(s)? *YES/NO

- If not to specification, indicate deviation(s)

- Period required for delivery

- Delivery: *Firm/Not firm

**** "all applicable taxes" includes value- added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies.**

MBD 3.2

PRICE ADJUSTMENTS

A NON-FIRM PRICES SUBJECT TO ESCALATION

1. IN CASES OF PERIOD CONTRACTS, NON FIRM PRICES WILL BE ADJUSTED (LOADED) WITH THE ASSESSED CONTRACT PRICE ADJUSTMENTS IMPLICIT IN NON FIRM PRICES WHEN CALCULATING THE COMPARATIVE PRICES
2. IN THIS CATEGORY PRICE ESCALATIONS WILL ONLY BE CONSIDERED IN TERMS OF THE FOLLOWING FORMULA:

$$P_a = (1-V)P_t + D_1 R_{1t} + D_2 R_{2t} + D_3 R_{3t} + D_4 R_{4t} + VP_t$$

$$\square \quad R_{1o} \quad R_{2o} \quad R_{3o} \quad R_{4o} \square$$

Where:

- P_a = The new escalated price to be calculated.
- $(1-V) P_t$ = 85% of the original bid price. **Note that P_t must always be the original bid price and not an escalated price.**
- $D_1, D_2..$ = Each factor of the bid price eg. labour, transport, clothing, footwear, etc.
The total of the various factors $D_1, D_2...etc.$ must add up to 100%.
- $R_{1t}, R_{2t}.....$ = Index figure obtained from new index (depends on the number of factors used).
- R_{1o}, R_{2o} = Index figure at time of bidding.
- VP_t = 15% of the original bid price. This portion of the bid price remains firm
i.e. it is not subject to any price escalations.

3. The following index/indices must be used to calculate your bid price:

Index..... Dated..... Index..... Dated..... Index..... Dated.....
 Index..... Dated..... Index..... Dated..... Index..... Dated.....

4. FURNISH A BREAKDOWN OF YOUR PRICE IN TERMS OF ABOVE-MENTIONED FORMULA. THE TOTAL OF THE VARIOUS FACTORS MUST ADD UP TO 100%.

FACTOR (D1, D2 etc. eg. Labour, transport etc.)	PERCENTAGE OF BID PRICE

B PRICES SUBJECT TO RATE OF EXCHANGE VARIATIONS

1. Please furnish full particulars of your financial institution, state the currencies used in the conversion of the prices of the items to South African currency, which portion of the price is subject to rate of exchange variations and the amounts remitted abroad.

PARTICULARS OF FINANCIAL INSTITUTION	ITEM NO	PRICE	CURRENCY	RATE	PORTION OF PRICE SUBJECT TO ROE	AMOUNT IN FOREIGN CURRENCY REMITTED ABROAD
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		

2. Adjustments for rate of exchange variations during the contract period will be calculated by using the average monthly exchange rates as issued by your commercial bank for the periods indicated hereunder: (Proof from bank required)

AVERAGE MONTHLY EXCHANGE RATES FOR THE PERIOD:	DATE DOCUMENTATION MUST BE SUBMITTED TO THIS OFFICE	DATE FROM WHICH NEW CALCULATED PRICES WILL BECOME EFFECTIVE	DATE UNTIL WHICH NEW CALCULATED PRICE WILL BE EFFECTIVE

MBD4
MBD4

DECLARATION OF INTEREST

- 1 No bid will be accepted from persons in the service of the state¹.
- 2 Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in service of the state, it is required that the bidder or their authorised representative declare their position in relation to the evaluating/adjudicating authority.
- 3 In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**

Full Name of bidder or his or her representative:.....

Identity Number:

Position occupied in the Company (director, trustee, hareholder²):.....

Company Registration Number:

Tax Reference Number:.....

VAT Registration Number:

The names of all directors / trustees / shareholders members, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below.

Are you presently in the service of the state? YES / NO

3.8.1 If yes, furnish particulars.

.....

¹MSCM Regulations: "in the service of the state" means to be –

- a) a member of –
 - i. any municipal council;
 - ii. any provincial legislature; or
 - iii. the national Assembly or the national Council of provinces;
- b) a member of the board of directors of any municipal entity;
- c) an official of any municipality or municipal entity;

- d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999);
- e) a member of the accounting authority of any national or provincial public entity; or
- f) an employee of Parliament or a provincial legislature.

² Shareholder" means a person who owns shares in the company and is actively involved in the management of the company or business and exercises control over the company.

3.9 Have you been in the service of the state for the past twelve months?YES / NO

3.9.1 If yes, furnish particulars.....

.....

3.10 Do you have any relationship (family, friend, other) with persons in the service of the state and who may be involved with the evaluation and or adjudication of this bid? YES / NO

3.10.1 If yes, furnish particulars.....

.....

3.11 Are you, aware of any relationship (family, friend, other) between any other bidder and any persons in the service of the state who may be involved with the evaluation and or adjudication of this bid? YES / NO

3.11.1 If yes, furnish particulars.....

.....

3.12 Are any of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state? YES / NO

3.12.1 If yes, furnish particulars.....

.....

3.13 Are any spouse, child or parent of the company's directors trustees, managers, principle shareholders or stakeholders in service of the state? YES / NO

3.13.1 If yes, furnish particulars.

.....
.....

3.14 Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other related companies or business whether or not they are bidding for this contract. YES / NO

3.14.1 If yes, furnish particulars:

.....
.....

4. Full details of directors / trustees / members / shareholders.

Full Name	Identity Number	State Employee Number

.....
Signature

.....
Date

.....
Capacity

.....
Name of Bidder

MBD 6.1 (2017)

**PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL
PROCUREMENT REGULATIONS 2017**

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017.

GENERAL CONDITIONS

- 1.1 The following preference point systems are applicable to all bids:
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).
- a) The value of this bid is estimated to exceed/not exceed R50 000 000 (all applicable taxes included) and therefore the preference point system shall be applicable; or

1.1. Either the 80/20 or 90/10 preference point system will be applicable to this tender (*delete whichever is not applicable for this tender*).

- 1.3 Points for this bid shall be awarded for:
Price; and
B-BBEE Status Level of Contributor.

2. The maximum points for this bid are allocated as follows:

	POINTS
PRICE	
B-BBEE STATUS LEVEL OF CONTRIBUTOR	
Total points for Price and B-BBEE must not exceed	100

3. Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.
4. The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

DEFINITIONS

“**B-BBEE**” means broad-based black economic empowerment as defined in section 1 of the BroadBased Black Economic Empowerment Act;

“**B-BBEE status level of contributor**” means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;

“**bid**” means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price quotations, advertised competitive bidding processes or proposals;

“**Broad-Based Black Economic Empowerment Act**” means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);

“**EME**” means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;

“**functionality**” means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.

“**prices**” includes all applicable taxes less all unconditional discounts; (h) “**proof of B-BBEE status level of contributor**” means:

1) B-BBEE Status level certificate issued by an authorized body or person; 2) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;

3) Any other requirement prescribed in terms of the B-BBEE Act;

“**QSE**” means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;

“**rand value**” means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

POINTS AWARDED FOR PRICE

3.1 **THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS**

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

80/20 or 90/10

$$P_{min} \left[\frac{P_s - P_{min}}{P_s - P_{min}} \right]^{80} \left[\frac{P_t - P_{min}}{P_t - P_{min}} \right]^{20} \quad \text{or} \quad P_{min} \left[\frac{P_s - P_{min}}{P_s - P_{min}} \right]^{90} \left[\frac{P_t - P_{min}}{P_t - P_{min}} \right]^{10}$$

Where

Ps = Points scored for price of bid under consideration

Pt = Price of bid under consideration

Pmin = Price of lowest acceptable bid

POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTOR

4.1 In terms of Regulation 6 (2) and 7 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18

3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

BID DECLARATION

5.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

B-BBEE STATUS LEVEL OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 4.1

6.1 B-BBEE Status Level of Contributor: = (maximum of 10 or 20 points)
 (Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

SUB-CONTRACTING

7.1 Will any portion of the contract be sub-contracted?
 (Tick applicable box)

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

7.1.1 If yes, indicate:

i) What percentage of the contract will be subcontracted % ii) The name of the sub-contractor..... iii) The B-BBEE status level of the sub-contractor.....

iv) Whether the sub-contractor is an EME or QSE

(Tick applicable box)

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

v) Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations, 2017:

Designated Group: An EME or QSE which is at last 51% owned by:	EME √	QSE √
Black people	<input type="checkbox"/>	<input type="checkbox"/>
Black people who are youth	<input type="checkbox"/>	<input type="checkbox"/>
Black people who are women	<input type="checkbox"/>	<input type="checkbox"/>
Black people with disabilities	<input type="checkbox"/>	<input type="checkbox"/>
Black people living in rural or underdeveloped areas or townships	<input type="checkbox"/>	<input type="checkbox"/>

Cooperative owned by black people		
Black people who are military veterans		
OR		
Any EME		
Any QSE		

DECLARATION WITH REGARD TO COMPANY/FIRM

- 8.1 Name of company/firm:
- 8.2 VAT registration number:
- 8.3 Company registration number:
- 8.4 TYPE OF COMPANY/ FIRM [TICK APPLICABLE BOX]
 - Partnership/Joint Venture / Consortium
 - One person business/sole propriety
 - Close corporation
 - Company
 - (Pty) Limited

8.4 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....

8.6 COMPANY CLASSIFICATION [TICK APPLICABLE BOX]

- Manufacturer
- Supplier
- Professional service provider
- Other service providers, e.g. transporter, etc.

8.7 MUNICIPAL INFORMATION

Municipality where business is situated:
 Registered Account Number:
 Stand Number:

8.8 Total number of years the company/firm has been in business:.....

8.9 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contributor indicated in paragraphs 1.4 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we 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;

In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;

If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
 disqualify the person from the bidding process;
 recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 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;

recommend that the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury 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.

.....
SIGNATURE(S) OF BIDDERS(S)

WITNESSES

DATE:

.....

ADDRESS.....

.....

.....

.....

MBD 6.2

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

This Municipal Bidding Document (MBD) 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, 2011 and 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, 2011 (Regulation 9) makes provision for the promotion of local production and content.
- 1.2. Regulation 9.(1) prescribes that in the case of designated sectors, where in the award of bids local production and content is of critical importance, such bids must be advertised with the specific bidding condition that only locally produced goods, services or works or locally manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for bids 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 the South African Reserve Bank (SARB) at 12:00 on the date of advertisement of the bid as required 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 –

- (a) this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation; and
- (b) the bidder fails to declare that the Local Content Declaration Templates (Annex C, D and E) have been audited and certified as correct.

2. Definitions

- 2.1. **“bid”** includes written price quotations, advertised competitive bids or proposals;
- 2.2. **“bid price”** price offered by the bidder, excluding value added tax (VAT);
- 2.3. **“contract”** means the agreement that results from the acceptance of a bid by an organ of state;
- 2.4. **“designated sector”** means a sector, sub-sector or industry that has been designated by the Department of Trade and Industry in line with national development and industrial policies for local production, where only locally produced services, works or goods or locally manufactured goods meet the stipulated minimum threshold for local production and content;
- 2.5. **“duly sign”** means a Declaration Certificate for Local Content that has been signed by the 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).
- 2.6. **“imported content”** means that portion of the bid price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or its subcontractors) and which costs are inclusive of the costs abroad (this includes labour and intellectual property costs), plus freight and other direct importation costs, such as landing costs, dock duties, import duty, sales duty or other similar tax or duty at the South African port of entry;
- 2.7. **“local content”** means that portion of the bid price which is not included in the imported content, provided that local manufacture does take place;
- 2.8. **“stipulated minimum threshold”** means that portion of local production and content as determined by the Department of Trade and Industry; and
- 2.9. **“sub-contract”** means the primary contractor's assigning, leasing, making out work to, or employing another person to support such primary contractor in the execution of part of a project in terms of the contract.

3. 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>
_____	_____ %
_____	_____ %
_____	_____ %

4. Does any portion of the services, works or goods offered have any imported content?
(Tick applicable box)

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

4.1 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 the 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.

5. Were the Local Content Declaration Templates (Annex C, D and E) audited and certified as correct?
(Tick applicable box)

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

5.1. If yes, provide the following particulars:

- (a) Full name of auditor:
- (b) Practice number:
- (c) Telephone and cell number:
- (d) Email address:

(Documentary proof regarding the declaration will, when required, be submitted to the satisfaction of the Accounting Officer / Accounting Authority)

6. 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 Accounting Officer / Accounting Authority 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 Municipality / Municipal Entity):
.....

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.thedti.gov.za/industrial-development/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
 - (ii) the declaration templates have been audited and certified to be correct.

(c)The local content percentages (%) 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 / Municipality /Municipal Entity 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 / Municipal / Municipal Entity imposing any or all of the remedies as provided for in Regulation 13 of the Preferential Procurement Regulations, 2011 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

SIGNATURE: _____

DATE: _____

WITNESS No. 1 _____

DATE: _____

WITNESS No. 2 _____

DATE: _____

CONTRACT FORM - PURCHASE OF GOODS/WORKS

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

PART 1 (TO BE FILLED IN BY THE BIDDER)

1. I hereby undertake to supply all or any of the goods and/or works described in the attached bidding documents to (name of institution)..... in accordance with the requirements and specifications stipulated in bid number..... at the price/s quoted. My offer/s remain binding upon me and open for acceptance by the purchaser during the validity period indicated and calculated from the closing time of bid.

2. The following documents shall be deemed to form and be read and construed as part of this agreement:
 - (i) Bidding documents, viz
 - Invitation to bid;
 - Tax clearance certificate;
 - Pricing schedule(s);
 - Technical Specification(s);
 - Preference claims for Broad Based Black Economic Empowerment Status Level of Contribution in terms of the Preferential Procurement Regulations 2011;
 - Declaration of interest;
 - Declaration of bidder's past SCM practices;
 - Certificate of Independent Bid Determination;
 - Special Conditions of Contract;
 - (ii) General Conditions of Contract; and
 - (iii) Other (specify)

3. I confirm that I have satisfied myself as to the correctness and validity of my bid; that the price(s) and rate(s) quoted cover all the goods and/or works specified in the bidding documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.

4. I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this agreement as the principal liable for the due fulfillment of this contract.

- 5. I declare that I have no participation in any collusive practices with any bidder or any other person regarding this or any other bid.
- 6. I confirm that I am duly authorised to sign this contract.

NAME (PRINT)

CAPACITY

SIGNATURE

NAME OF FIRM

DATE

WITNESSES	
1
2.
DATE:	

CONTRACT FORM - PURCHASE OF GOODS/WORKS

PART 2 (TO BE FILLED IN BY THE PURCHASER)

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

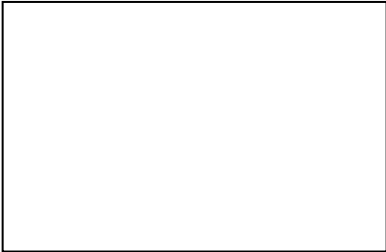
ITEM NO.	PRICE (ALL APPLICABLE TAXES INCLUDED)	BRAND	DELIVERY PERIOD	B-BBEE STATUS LEVEL OF CONTRIBUTION	MINIMUM THRESHOLD FOR LOCAL PRODUCTION AND CONTENT (if applicable)

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

SIGNED ATON.....

NAME (PRINT)

SIGNATURE



OFFICIAL STAMP

WITNESSES	
1.
2.
DATE

CONTRACT FORM - RENDERING OF SERVICES

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

PART 1 (TO BE FILLED IN BY THE SERVICE PROVIDER)

1. I hereby undertake to render services described in the attached bidding documents to (name of the institution)..... in accordance with the requirements and task directives / proposals specifications stipulated in Bid Number..... at the price/s quoted. My offer/s remain binding upon me and open for acceptance by the Purchaser during the validity period indicated and calculated from the closing date of the bid.

2. The following documents shall be deemed to form and be read and construed as part of this agreement:
 - (i) Bidding documents, viz
 - Invitation to bid;
 - Tax clearance certificate;
 - Pricing schedule(s);
 - Filled in task directive/proposal;
 - Preference claims for Broad Based Black Economic Empowerment Status Level of Contribution in terms of the Preferential Procurement Regulations 2011;
 - Declaration of interest;
 - Declaration of Bidder's past SCM practices;
 - Certificate of Independent Bid Determination;
 - Special Conditions of Contract;
 - (ii) General Conditions of Contract; and
 - (iii) Other (specify)

3. I confirm that I have satisfied myself as to the correctness and validity of my bid; that the price(s) and rate(s) quoted cover all the services specified in the bidding documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.

4. I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this agreement as the principal liable for the due fulfilment of this contract.

5. I declare that I have no participation in any collusive practices with any bidder or any other person regarding this or any other bid.
6. I confirm that I am duly authorised to sign this contract.

NAME (PRINT)

CAPACITY

SIGNATURE

NAME OF FIRM

DATE

WITNESSES	
1
2
DATE:	

CONTRACT FORM - RENDERING OF SERVICES

PART 2 (TO BE FILLED IN BY THE PURCHASER)

1. I..... in my capacity as..... accept your bid under reference numberdated.....for the rendering of services indicated hereunder and/or further specified in the annexure(s).
2. An official order indicating service delivery instructions is forthcoming.
3. I undertake to make payment for the services rendered in accordance with the terms and conditions of the contract, within 30 (thirty) days after receipt of an invoice.

DESCRIPTION OF SERVICE	PRICE (ALL APPLICABLE TAXES INCLUDED)	COMPLETION DATE	B-BBEE STATUS LEVEL OF CONTRIBUTION	MINIMUM THRESHOLD FOR LOCAL PRODUCTION AND CONTENT (if applicable)

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

SIGNED AT ON

NAME (PRINT)

SIGNATURE

OFFICIAL STAMP



WITNESSES

1

2

DATE:

DECLARATION OF BIDDER’S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

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

Item	Question	Yes	No
4.1	<p>Is the bidder or any of its directors listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector?</p> <p>(Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer/Authority of the institution that imposed the restriction after the <i>audi alteram partem</i> rule was applied).</p> <p>The Database of Restricted Suppliers now resides on the National Treasury's website(www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.</p>	<p>Yes</p> <input type="checkbox"/>	<p>No</p> <input type="checkbox"/>
4.1.1	If so, furnish particulars:		
4.2	<p>Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)?</p> <p>The Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the home page.</p>	<p>Yes</p> <input type="checkbox"/>	<p>No</p> <input type="checkbox"/>

4.2.1	If so, furnish particulars:		
4.3	Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

4.3.1	If so, furnish particulars:		
Item Question		Yes	No
4.4	Does the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.4.1	If so, furnish particulars:		
4.5	Was any contract between the bidder and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.7.1	If so, furnish particulars:		

CERTIFICATION

I, THE UNDERSIGNED (FULL NAME) CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM TRUE AND CORRECT.

I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT, ACTION MAY BE TAKEN AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

COMPLIANCE WITH OHSA (ACT 85 OF 1993)

Bidders are required to satisfy the Employer and the Engineer as to their ability and available resources to comply with the above by answering the following questions and providing the relevant information required below.

- | | |
|--|-----------------|
| 1. Is the Contractor familiar with the OHSA (ACT 85 of 1993) and its Regulations?
<hr/> | YES / NO |
| 2. Who will prepare the Contractor's Health and Safety Plan?
(Provide a copy of the person/s curriculum vitae/s or company profile).
<hr/> | |
| 3. Does the Contractor have a health and safety policy? (if yes, provide a copy). How is this policy communicated to all employees?
<hr/> | YES / NO |
| 4. Does the Contractor keep records of safety aspects of each construction site? If yes, what records are kept?
<hr/> | YES / NO |
| 5. Does the Contractor conduct monthly safety meetings? If yes, who is the chairperson of the meeting, and who attend these meetings?
<hr/> | YES / NO |
| 6. Does the Contractor have a safety officer in his employment, responsible for the overall safety of his company?
If yes, please explain his duties and provide a copy of his CV.
<hr/> | YES / NO |
| 7. Does the Contractor have trained first aid employees? If yes, indicate, who.
<hr/> | YES / NO |
| 8. Does the Contractor have a safety induction-training programme in place? (If yes, provide a copy)
<hr/> | YES / NO |

Signature of Bidder:

Date:

CERTIFICATE OF INDEPENDENT BID DETERMINATION

1. This Municipal Bidding Document (MBD) must form part of all bids¹ invited.
2. Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association affirms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).² Collusive bidding is a per se prohibition meaning that it cannot be justified under any grounds.
3. Municipal Supply Regulation 38 (1) prescribes that a supply chain management policy must provide measures for the combating of abuse of the supply chain management system, and must enable the accounting officer, among others, to:
 - a. take all reasonable steps to prevent such abuse;
 - b. reject the bid of any bidder if that bidder or any of its directors has abused the supply chain management system of the municipality or municipal entity or has committed any improper conduct in relation to such system; and
 - c. cancel a contract awarded to a person if the person committed any corrupt or fraudulent act during the bidding process or the execution of the contract.
4. This MBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
5. In order to give effect to the above, the attached Certificate of Bid Determination (MBD 9) must be completed and submitted with the bid:

¹ Includes price quotations, advertised competitive bids, limited bids and proposals.

² Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

(Bid Number and Description)

in response to the invitation for the bid made by:

(Name of Municipality / Municipal Entity)

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

I certify, on behalf of: _____ that:

(Name of Bidder)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign, the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
 - (a) has been requested to submit a bid in response to this bid invitation;
 - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder

6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation)
 - (c) methods, factors or formulas used to calculate prices;
 - (d) the intention or decision to submit or not to submit, a bid;
 - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
 - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

³ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

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

.....

Signature

.....

Date

.....

Position

.....

Name of Bidder

PREFERENCING SCHEDULE (DIRECT PREFERENCE)

1 Definitions

The following definitions shall apply to this schedule:

Disabled: in respect of a person, 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.

Equity ownership: The percentage of an enterprise or business owned by individuals or, in respect of a company, the percentage of the company's shares that are owned by individuals, who are actively involved in the management of an enterprise or business and exercise control over the enterprise, commensurate with their degree of ownership at the closing date of the tender.

Note: All claims for HDI / youth equity ownership by an HDI / Youth will be considered according to the following criteria:

- equity within private companies will be based on the percentage of equity ownership;
- preference points will not be awarded to public companies and tertiary institutions;
- equity claims for a trust will only be allowed in respect of those persons who are both trustees and beneficiaries and who are actively involved in the management of the Trust (i.e. the arrangement through which the property of one person is made over or bequeathed to a trustee to administer such property for the benefit of another person);
- ; and.
- a joint venture may, based on the percentage of the contract value managed or executed by their HDI / Youth members, be entitled to equity ownership.

Historically disadvantaged individual (HDI): A South African citizen

- a) who, due to the apartheid policy that had been in place, had no franchise in national elections prior to the introduction of the Constitution of the RSA, 1983 (Act 110 of 1983) or the Constitution of the RSA, 1993 (Act 200 of 1993) (the interim Constitution), or
- b) who is a female; or
- c) 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 an HDI;

joint venture: a grouping of two or more contractors who jointly and severally undertake to perform a construction works contract.

managed: the possession and exercise of legal authority and power to manage the assets, goodwill and daily operations of a business and the active and continuous exercise of appropriate managerial and financial authority and power in determining the policies and directing the operations of the business.

owner: A person who has all the customary incidents of ownership, including the right of disposition, and sharing in all the risks and profits commensurate with the degree of ownership interest as demonstrated by an examination of the substance, rather than the form of ownership arrangements.

Registered contractor: a contractor registered with the Construction Industry Development Board

in a contractor grading designation appropriate to the works.

SMME: A sole trader, partnership or legal entity, including co-operative enterprises and non-governmental organisations, managed by one owner or more which, including its branches or subsidiaries, if any, is predominantly carried out in any sector or sub sector of the economy mentioned in column 1 of the Schedule and which can be classified as a micro - a very small, a small or a medium enterprise by satisfying the criteria 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

Schedule

Column 1	Column 2	Column 3	Column 4	Column 5
SECTOR OR SUB-SECTORS IN ACCORDANCE WITH THE STANDARD INDUSTRIAL CLASSIFICATION	SIZE OR CLASS	TOTAL FULL-TIME EQUIVALENT OF PAID EMPLOYEES LESS THAN	TOTAL ANNUAL TURNOVER LESS THAN	TOTAL GROSS ASSET VALUE (FIXED PROPERTY EXCLUDED) LESS THAN
Construction	Medium Small Very small Micro	200 50 20 5	R26,00 m R 6,00 m R 3,00 m R 0,20 m	R5,00 m R1,00 m R0,50 m R0,10 m

Youth: A South African citizen who is between the age of 18 and 35 at the time that tenders close.

2 Conditions associated with the granting of preferences

The tenderer who claims a preference, undertakes to:

- 1) not subcontract more than 25% of the contract price, unless such contracting is undertaken in terms of a preference claimed.
- 2) maintain a HDI / Youth or youth equity ownership of not less than that upon which the preference is based for the duration of the Contract, or in the case of a joint venture, ensure that the percentage of the contract value managed or executed by HDI's and Youth is not less than that upon which the preference is based;
- 3) accept the sanctions set out in Section 3 below should conditions 1 or 2 be breached;
- 4) complete sections 4 to 7 below as relevant;
- 5) enter into written subcontract agreements in accordance with the provisions of the Construction Industry Development Board's Best Practice Guideline D1: Subcontracting Arrangements; and
- 6) complete the Declaration with regard to Equity Ownership contained in section 5 below.

3 Sanctions relating to breaches of preferencing conditions

The sanctions for breaching the preferencing conditions are:

- 1) termination of the Contract; or
- 2) a financial penalty payable to the Employer equal to 1,25 times the number of tender evaluation points awarded in respect of the preference claimed, multiplied by the Contract Price exclusive of VAT, divided by 100.

4 Tender preference claim in respect of HDI / youth enterprise status or structure of the tendering entity

Number of preference points = $\text{NOP} \times \text{EP} / 100$

NOP = maximum tender evaluation points provided for HDI / Youth equity ownership

EP = the percentage of equity ownership by an HDI / Youth within the business enterprise or, in the case of a joint venture, the percentage of the contract value managed or executed by their HDI / Youth members.

I/we apply on behalf of my/our firm for a preference based on:

Non-joint ventures

HDI equity ownership percentage of.%

Youth equity ownership percentage of.%

Women equity ownership of%

Disabled person equity ownership%

Joint Ventures

the percentage of the contract value managed or executed by their HDI members of%

the percentage of the contract value managed or executed by their Youth members of%

5 Tender preferences claimed

I / we apply on behalf of my / our firm for the following preference:

Category of preference	Percentage of maximum tender evaluation points provided for in the Preferential Procurement Policy Framework Act (Act 5 of 2000) = 20%	Preference claimed for Category of Preference (Y=yes)
Having HDI equity ownership as set out in 4 above		
Having Youth equity ownership as set out in 4 above		
Having a CIDB Contractor grading designation of 5GB/ Higher		
SMME status Micro Very small Small Medium		
Undertaking to subcontract the following to registered contractors: 40% of the contract price 30% of the contract price 10% of the contract price		

6 Declaration with regard to equity ownership

6.1 How long has the Company been in existence?

6.2 Describe principal business activities:

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

6.3 List all shareholders by name, identity number, citizenship, status, ownership, as relevant

Name	Status				ID number	Date RSA Citizenship obtained	Percentage owned
	Woman	Black person	Youth	Disability			

6.4 In the case of a person with a disability:

Name	Describe what the permanent impairment is.	Outline how the permanent impairment impacts on ability to perform an activity in the manner or within the ranges considered normal for a human being?

7 SMME criteria

Provide the following information:

TOTAL FULL-TIME EQUIVALENT OF PAID EMPLOYEES	TOTAL ANNUAL TURNOVER	TOTAL GROSS ASSET VALUE (FIXED PROPERTY EXCLUDED)

The undersigned, who warrants that he / she is duly authorised to do so on behalf of the firm or sole proprietor confirms that he / she understands the conditions under which such preferences are granted and confirms that the tenderer satisfies the conditions pertaining to the granting of tender preferences.

Signature :

Name :

Duly authorised to sign on behalf of :

Telephone :

Fax :

Date :

Preferencing Schedule (Contract Participation Goals)

1 DEFINITIONS

The following definitions shall apply to this schedule:

1.1 Contract Participation Goal (CPG) – amount equal to the sum of:

- a) The wages and allowance for which the contractor contracts to engage targeted labour; and
- b) The value of suppliers, services and work for which the contractor contract targeted enterprises in the performance of the contract.

1.2 Contractor – natural or juristic person or partnership under contract to the employer to provide services or work.

1.3 Employer - natural or juristic person or partnership entering into a contract with the contractor for the provision of services or work.

1.4 Employers' representative – person so designated, in writing, by the employer.

1.5 Prime contract – contractor under contract to an employer as the principal or main contractor.

1.6 Procurement – process which creates, manages and fulfils contract.

1.7 Target area – geographical area defined in the contract.

1.8 Targeted enterprise – sole trader, partnership or legal entity, as defined in the contract.

1.9 Targeted Labour – individuals, employed by the contractor in the performance of the contract, who are defined as the target group in the contract and who permanently reside in the target area or who are recognized as being residents of the target area on the basis of identification and association with and recognition by the residence of the target area.

1.10 Targeted Manufacture – targeted enterprise that operates or maintains a factory or establishment that produces on its premises, materials or suppliers required by the contractor for the performance of the contract.

1.11 Targeted supplier – targeted enterprise that owns, operates or maintains a store, a warehouse or other establishment in which suppliers are bought.

2 CONDITIONS ASSOCIATED WITH THE GRANTING OF PREFERENCES

The Tenderer, undertakes to:

engage one or more Targeted Enterprises / Targeted Labour in accordance with the provisions of the SANS 1914-4:2002 as varied in Section 3 hereunder;

deliver to the Employer, within 5 working days of being requested in writing to do so, a completed Joint Venture Disclosure Form (Annex D of SANS 1914-1) and a Joint Venture Agreement, should a joint venture be proposed at prime contract level with Targeted Partners to satisfy Contract Participation Goal undertakings

deliver to the Employer, within 5 working days of being requested in writing to do so, a Targeted Enterprise Declaration Affidavit in respect of all Targeted Enterprises engaged at prime contract level to satisfy Contract Participation Goal undertakings;

accept the sanctions set out in Section 4 below should such conditions be breached;

complete the Bid Preference Claim Form contained in Section 5 below; and

complete the Supporting Contract Participation Goal Calculation contained in this schedule.

3 VARIATIONS TO THE TARGETED CONSTRUCTION PROCUREMENT SPECIFICATION SANS 1914-

There are no variations

4 ADDITION TO THE TARGETED CONSTRUCTION PROCUREMENT SPECIFICATION SANS 1914-4:2002

GENERIC LABOUR-INTENSIVE SPECIFICATION

The Generic Labour-intensive specification below is the same as SANS 1921-5, Construction and management requirement for works contracts- Part 5: Earthworks activities which are to be performed by hand and should be included in the scope of works without amendment or modification as set out below.

Scope

This specification establishes general requirements for activities which are to be executed by hand involving the following:

- a) trenches having a depth of less than 1.5 metres
- b) storm water drainage
- c) low-volume roads and sidewalks

Precedence

Where this specification is in conflict with any other standard or specification referred to in the Scope of Works to this Contract, the requirements of this specification shall prevail.

Hand excavatable material

Hand excavatable material is material:

- a) granular materials:
 - i) whose consistency when profiled may in terms of table 1 be classified as very loose, loose, medium dense, or dense; or
 - ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 15 blows of a dynamic cone penetrometer is required to penetrate 100mm;
- b) cohesive materials:
 - i) whose consistency when profiled may in terms of table 1 be classified as very soft, soft, firm, stiff and stiff / very stiff; or
 - ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 8 blows of a dynamic cone penetrometer is required to penetrate 100mm;

Note:

- 1) A boulder, a cobble and gravel is material with a particle size greater than 200mm, between 60 and 200mm.
- 2) A dynamic cone penetrometer is an instrument used to measure the in-situ shear resistance of a soil comprising a drop weight of approximately 10 kg which falls through a height of 400mm and drives a cone having a maximum diameter of 20mm (cone angle of 60° with respect to the horizontal) into the material being used.

Table 1: Consistency of materials when profiled

GRANULAR MATERIALS		COHESIVE MATERIALS	
CONSISTENCY	DESCRIPTION	CONSISTENCY	DESCRIPTION
Very loose	Crumbles very easily when scraped with a geological pick.	Very soft	Geological pick head can easily be pushed in as far as the shaft of the handle.
Loose		Soft	Easily dented by thumb; sharp end of a geological pick can be pushed

	Small resistance to penetration by sharp end of a geological pick.		in 30-40 mm; can be moulded by fingers with some pressure.
Medium dense	Considerable resistance to penetration by sharp end of a geological pick.	Firm	Indented by thumb with effort; sharp end of geological pick can be pushed in up to 10 mm; very difficult to mould with fingers; can just be penetrated with an ordinary hand spade.
Dense	Very high resistance to penetration by the sharp end of geological pick; requires many blows for excavation.	Stiff	Can be indented by thumbnail; slight indentation produced by pushing geological pick point into soil; cannot be moulded by fingers.
Very dense	High resistance to repeated blows of a geological pick.	Very stiff	Indented by thumbnail with difficulty; slight indentation produced by blow of a geological pick point.

Trench excavation

All hand excavatable material in trenches having a depth of less than 1,5 metres shall be excavated by hand.

Compaction of backfilling to trenches (areas not subject to traffic)

Backfilling to trenches shall be placed in layers of thickness (before compaction) not exceeding 100mm. Each layer shall be compacted using hand stumpers

- a) to 90% Proctor density;
- b) such that in excess of 5 blows of a dynamic cone penetrometer (DCP) is required to penetrate 100 mm of the backfill, provided that backfill does not comprise more than 10% gravel of size less than 10mm and contains no isolated boulders, or
- c) such that the density of the compacted trench backfill is not less than that of the surrounding undisturbed soil when tested comparatively with a DCP.

Excavation

All hand excavateable material including topsoil classified as hand excavateable shall be excavated by hand. Harder material may be loosened by mechanical means prior to excavation by hand.

The excavation of any material which presents the possibility of danger or injury to workers shall not be excavated by hand.

Clearing and grubbing

Grass and small bushes shall be cleared by hand.

Shaping

All shaping shall be undertaken by hand.

Loading

All loading shall be done by hand, regardless of the method of haulage.

Haul

Excavation material shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150 m.

Offloading

All material, however transported, is to be off-loaded by hand, unless tipper-trucks are utilised for haulage

Spreading

All material shall be spread by hand.

Compaction

Small areas may be compacted by hand provided that the specified compaction is achieved.

Grassing

All grassing shall be undertaken by sprigging, sodding, or seeding by hand.

Stone pitching and rubble concrete masonry

All stone required for stone pitching and rubble concrete masonry, whether grouted or dry, must be collected, loaded, off loaded and placed by hand.

Sand and stone shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150m.

Grout shall be mixed and placed by hand.

Manufactured Elements

Elements manufactured or designed by the Contractor, such as manhole rings and cover slabs, precast concrete planks and pipes, masonry units and edge beams shall not individually, have a mass of more than 320kg. In addition the items shall be large enough so that four workers can conveniently and simultaneously acquire a proper hand hold on them.

5 SANCTIONS

In the event that the Tenderer fails to substantiate that any failure to achieve the Contract Participation Goal relating to the granting of a preference was due to quantitative under runs, the elimination of items, or any other reason beyond the Contractor's control which may be acceptable to the Employer, it shall be liable to pay to the Employer a financial penalty calculated in the following manner:

$$P = 0,15 \times \frac{(D - D_o)}{(100)} \times N_A$$

where D = tendered Contract Participation Goal percentage.
Do = the Contract Participation Goal which the Employer's representative based on the credits passed, certifies as being achieved upon completion of the Contract.

N_A = Net Amount

P = Rand value of penalty payable

SANS 1914-4:2002

Addition 1

ANNEX A **(informative)**

Tendered contract participation goal calculation

Tender
Part T2: Returnable documents
Reference No. BM 51/17/18

95

T2.2
Returnable Schedules

NOTE: This annex may be used by Bidders to calculate their expected contract participation goal for a given contract. Employers may use this annex to assist them in understanding how the Bidder intends fulfilling his contract participation goal obligations in the performance of the contract.

A.1 Bidder parameters

Sum Bided (exclusive of any value added tax or sales tax
 Required by law)

Less all allowances

Net amount

NOTE: The contract participation goal is based on the net amount.

A.2 Achieving the contract participation goal

I/We intend achieving the contract participation goal (CPG) by means of one of the following methods.
 Tick the box which is applicable

Method # 1 by virtue of my/our targeted enterprise status as a prime contractor;
 and if so desired,
 by subcontracting work to targeted enterprises.

OR

Method # 2 by engaging targeted labour (or both).

NOTE: Where Bidders use method #1 to fulfil their contract participation goal obligations, at least 50% of the wages and allowances paid to employees in the performance of the contract should be spent on targeted labour (see 3.2).

A 2.1 Method # 1

A.2.1.1 By virtue of m/our targeted enterprise status as a prime contractor.

Weighting 2
 Value of work or services performed using own resources

and employees

..... 3

A.2.1.2 By subcontracting targeted enterprises.

Category of enterprises	Estimated value of contracts to be awarded to targeted enterprises (excluding value added tax or sales tax) (1)	Multiplier (2)	Weighting (3)	Total (1) x (2) x (3)
Target area 1				
Targeted enterprises			x 1,0	
Targeted area 2				
Targeted enterprises			x 1,0	
Targeted area 3				
Targeted enterprises			x 1,0	
Total towards CPG				

Effective contribution towards CPG

4 + 3 x 2

.....

CPG

100 x 5/1

..... %

A.2.2 Method #2

A.2.2.1 By engaging targeted enterprises.

Target area	Estimated value of contracts to be awarded to targeted enterprises (1)	Weighting (2)	Multiplier (3)	Total (1) x (2) x (3)
Targeted enterprise				
1		x 1,0		
2		x 1,0		
3		x 1,0		
Targeted supplier				
1		X 0,5		
2		X 0,5		
3		X 0,5		
Targeted manufacturer				
1		X 1,0		
2		X 1,0		
3		X 1,0		
Total towards CPG				

A.2.2.2 By engaged targeted labour.

Target area	Estimated value of contracts to be awarded to targeted enterprises (1)	Weighting (2)	Total (1) x (2)
1			
2			
3			
Total towards CPG			

CPG

$100 \times 7/1 + 100 \times 6/1$

..... %

Briefly describe the activities in which targeted labour will be engaged.

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

a) A.3 Total contract participation goal

Total contract participation goal (total for method #1 or method #2)%
Contract participation goal which is likely to be achieved in
the performance of the contract% (<100%)

NOTE: This value should equal or exceed the tendered contract participation goal.

BLOUBERG MUNICIPALITY

C1.1 Form of Offer and Acceptance

Offer

The employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the procurement of:

Construction of a new Senwabarwana Substation, Blouberg Municipality offices: Enquiry Number: BM51/17/18.

The tenderer, identified in the offer signature block, has examined the documents listed in the tender data and addenda thereto as listed in the returnable schedules, and by submitting this offer has accepted the conditions of tender.

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

THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF VALUE ADDED TAX IS:

..... Rand (in words); R (in figures)

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

Signature Date

Name

Capacity

for the tenderer

(Name and address of organization)

Name and signature of witness

Acceptance

By signing this part of this form of offer and acceptance, the employer identified below accepts the tenderer's offer. In consideration thereof, the employer shall pay the contractor the amount due in accordance with the conditions of contract identified in the contract data. Acceptance of the tenderer's offer shall form an agreement between the employer and the tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

The terms of the contract, are contained in:

- Part C1: Agreements and contract data, (which includes this agreement)
- Part C2: Pricing data
- Part C3: Scope of work.
- Part C4: Site information

and drawings and documents or parts thereof, which may be incorporated by reference into Parts 1 to 4 above.

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the tender schedules as well as any changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance, are contained in the schedule of deviations attached to and forming part of this agreement. No amendments to or deviations from said documents are valid unless contained in this schedule.

The tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the employer's agent (whose details are given in the contract data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the contract data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed original copy of this document, including the schedule of deviations (if any). Unless the tenderer (now contractor) within five working days of the date of such receipt notifies the employer in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

Signature Date

Name

Capacity

for the Employer
The Blouberg Municipality
P.O Box 1593
SENWABARWANA
0790

Name and
signature
of witness Date

Schedule of Deviations

1 Subject
Details
.....
.....
.....

2 Subject
Details
.....
.....
.....

3 Subject
Details
.....
.....
.....

4 Subject
Details
.....
.....
.....

5 Subject
Details
.....
.....
.....

By the duly authorised representatives signing this agreement, the employer and the tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the tender data and addenda thereto as listed in the tender schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance.

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

BLOUBERG MUNICIPALITY

C1.2 Contract Data

The General Conditions of Contract for Construction Works (2004) published by the South African Institution of Electrical Engineering, is applicable to this contract. Copies of these conditions of contract may be obtained from the South African Institution of Electrical Engineering (Tel: 011-805 5947).

The General Conditions of Contract for Construction Works make several references to the Contract Data for specific data, which together with these conditions collectively describe the risks, liabilities and obligations of the contracting parties and the procedures for the administration of the Contract. The Contract Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the general conditions of contract.

Each item of data given below is cross-referenced to the clause in the General Conditions of Contract for Construction Works to which it mainly applies.

1. The variations to the General Conditions of Contract are:

- 1.1 Replace the term "Safety" with "Occupational Health and Safety"
- 1.2 Replace the term "Bank" with "Bank or Insurance Company"
- 1.3 Replace sub-clause with:
The Contractor or anyone on his behalf or in his employ would pay, offer or offer as payment to any person in the employ of the Employer, or in the employ of the Engineer, a gratuity or reward or commission.
- 1.4 A Retention Guarantee must be furnished for the defects liability period.

2. The additional clauses to the General Conditions of Contract are:

Extensions of time in respect of clause 42 in respect of abnormal rainfall shall be calculated using the following formula for each calendar month or part thereof:

$$V = (Nw - Nn) + \frac{(Rw - Rn)}{X}$$

Where:

V = Extension of time in calendar days in respect of the calendar month under consideration.

Nw = Actual number of days during the calendar month on which a rainfall of 10 mm or more has been recorded.

Nn = Average number of days in the relevant calendar month, as derived from existing rainfall records, as stated in the Site Information, on which a rainfall of 20mm or more has been recorded for the calendar month.

Rw = Actual average rainfall in mm recorded for the calendar month under consideration.

Rn = Average rainfall in mm for the calendar month as derived from existing rainfall records as stated in the Site Information.

For purposes of the Contract Nn, Rn, X and Y shall have those values assigned to them in the Appendix and/or the Specification.

If V is negative and its absolute value exceeds Nn, then V shall be taken as equal to minus Nn.

The total extension of time shall be the algebraic sum of all monthly totals for the period under consideration, but if the total is negative the time for completion shall not be reduced due to Sub normal rainfall.

Extensions of time for part of a month shall be calculated using pro rata values of Nn and Rn. This formula does not take account flood damage which could cause further or concurrent delays and will be treated separately as far as extension of time is concerned.

The factor (Nw – Nn) shall be considered to represent a fair allowance for variations from the average in the number of days during which rainfall exceeds 10 mm. The factor (Rw-Rn) shall be considered to represent a fair allowance for variations from the average in the number of days during which the rainfall did not exceed 10 mm but wet conditions prevented or disrupted work.

For the purpose of applying the formula, accurate rain gauging shall be taken at a suitable point on the Site and the Contractor shall at his own expense, take all necessary precautions to ensure that rain gauges cannot be interfered with by unauthorized persons.

3. Normal Hours of Work

- 3.1 An employer may not set tasks or hours of work that require a worker to work–
 - (a) more than forty hours in any week
 - (b) on more than five days in any week; and
 - (c) for more than eight hours on any day.
- 3.2 An employer and worker may agree that a worker will work four days per week. The worker may then work up to ten hours per day.
- 3.3 A task-rated worker may not work more than a total of 55 hours in any week to complete the tasks allocated (based on a 40-hour week) to that worker.

4 Meal Breaks

- 4.1 A worker may not work for more than five hours without taking a meal break of at least thirty minutes duration.
- 4.2 An employer and worker may agree on longer meal breaks.
- 4.3 A worker may not work during a meal break. However, an employer may require a worker to perform duties during a meal break if those duties cannot be left unattended and cannot be performed by another worker. An employer must take reasonable steps to ensure that a worker is relieved of his or her duties during the meal break.
- 4.4 A worker is not entitled to payment for the period of a meal break. However, a worker who is paid on the basis of time worked must be paid if the worker is required to work or to be available for work during the meal break.

5 Special Conditions for Security Guards

- 5.1 A security guard may work up to 55 hours per week and up to eleven hours per day.
- 5.2 A security guard who works more than ten hours per day must have a meal break of at least one hour or two breaks of at least 30 minutes each.

6 Daily Rest Period

Every worker is entitled to a daily rest period of at least eight consecutive hours. The daily rest period is measured from the time the worker ends work on one day until the time the worker starts work on the next day.

7 Weekly Rest Period

Every worker must have two days off every week. A worker may only work on their day off to perform work which must be done without delay and cannot be performed by workers during their ordinary hours of work ("emergency work").

8 Work on Sundays and Public Holidays

8.1 A worker may only work on a Sunday or public holiday to perform emergency or security work.

8.2 Work on Sundays is paid at the ordinary rate of pay.

8.3 A task-rated worker who works on a public holiday must be paid –

(a) the worker's daily task rate, if the worker works for less than four hours;

(b) double the worker's daily task rate, if the worker works for more than four hours.

8.4 A time-rated worker who works on a public holiday must be paid –

(a) the worker's daily rate of pay, if the worker works for less than four hours on the public holiday;

(b) double the worker's daily rate of pay, if the worker works for more than four hours on the public holiday.

9 Sick Leave

9.1 Only workers who work four or more days per week have the right to claim sick-pay in terms of this clause.

9.2 A worker who is unable to work on account of illness or injury is entitled to claim one day's paid sick leave for every full month that the worker has worked in terms of a contract.

9.3 A worker may accumulate a maximum of twelve days' sick leave in a year.

9.4 Accumulated sick-leave may not be transferred from one contract to another contract.

9.5 An employer must pay a task-rated worker the worker's daily task rate for a day's sick leave.

9.6 An employer must pay a time-rated worker the worker's daily rate of pay for a day's sick leave.

9.7 An employer must pay a worker sick pay on the worker's usual payday.

9.8 Before paying sick-pay, an employer may require a worker to produce a certificate stating that the worker was unable to work on account of sickness or injury if the worker is –

- (a) absent from work for more than two consecutive days; or
- (b) absent from work on more than two occasions in any eight-week period.

9.9 A medical certificate must be issued and signed by a medical practitioner, a qualified nurse or a clinic staff member authorised to issue medical certificates indicating the duration and reason for incapacity.

9.10 A worker is not entitled to paid sick-leave for a work-related injury or occupational disease for which the worker can claim compensation under the Compensation for Occupational Injuries and Diseases Act.

10 Maternity Leave

10.1 A worker may take up to four consecutive months' unpaid maternity leave.

10.2 A worker is not entitled to any payment or employment-related benefits during maternity leave.

10.3 A worker must give her employer reasonable notice of when she will start maternity leave and when she will return to work.

10.4 A worker is not required to take the full period of maternity leave. However, a worker may not work for four weeks before the expected date of birth of her child or for six weeks after the birth of her child, unless a medical practitioner, midwife or qualified nurse certifies that she is fit to do so.

10.5 A worker may begin maternity leave –

- (a) four weeks before the expected date of birth; or
- (b) on an earlier date –
 - (i) if a medical practitioner, midwife or certified nurse certifies that it is necessary for the health of the worker or that of her unborn child; or
 - (ii) if agreed to between employer and worker; or
- (c) on a later date, if a medical practitioner, midwife or certified nurse has certified that the worker is able to continue to work without endangering her health.

10.6 A worker who has a miscarriage during the third trimester of pregnancy or bears a stillborn child may take maternity leave for up to six weeks after the miscarriage or stillbirth.

10.7 A worker who returns to work after maternity leave, has the right to start a new cycle of twenty-four months employment, unless the SPWP on which she was employed has ended.

11 Family responsibility leave

11.1 Workers, who work for at least four days per week, are entitled to three days paid family responsibility leave each year in the following circumstances –

- (a) when the employee's child is born;
- (b) when the employee's child is sick;
- (c) in the event of a death of –
 - (i) the employee's spouse or life partner;
 - (ii) the employee's parent, adoptive parent, grandparent, child, adopted child, grandchild or sibling.

12 Statement of Conditions

12.1 An employer must give a worker a statement containing the following details at the start of employment –

- (a) the employer's name and address and the name of the SPWP;
- (b) the tasks or job that the worker is to perform; and
- (d) the period for which the worker is hired or, if this is not certain, the expected duration of the contract;
- (e) the worker's rate of pay and how this is to be calculated;
- (f) the training that the worker will receive during the SPWP.

12.2 An employer must ensure that these terms are explained in a suitable language to any employee who is unable to read the statement.

12.3 An employer must supply each worker with a copy of these conditions of employment.

13 Keeping Records

13.1 Every employer must keep a written record of at least the following –

- (a) the worker's name and position;
- (b) in the case of a task-rated worker, the number of tasks completed by the worker;
- (c) in the case of a time-rated worker, the time worked by the worker;
- (d) payments made to each worker.

13.2 The employer must keep this record for a period of at least three years after the completion of the SPWP.

14 Payment

14.1 An employer must pay all wages at least monthly in cash or by cheque or into a bank account.

14.2 A task-rated worker will only be paid for tasks that have been completed.

14.3 An employer must pay a task-rated worker within five weeks of the work being completed and the work having been approved by the manager or the contractor having submitted an invoice to the employer.

14.4 A time-rated worker will be paid at the end of each month.

14.5 Payment must be made in cash, by cheque or by direct deposit into a bank account designated by the worker.

14.6 Payment in cash or by cheque must take place –

- (a) at the workplace or at a place agreed to by the worker;
- (b) during the worker's working hours or within fifteen minutes of the start or finish of work;
- (c) in a sealed envelope which becomes the property of the worker.

14.7 An employer must give a worker the following information in writing –

- (a) the period for which payment is made;
- (b) the numbers of tasks completed or hours worked;
- (c) the worker's earnings;
- (d) any money deducted from the payment;
- (e) the actual amount paid to the worker.

14.8 If the worker is paid in cash or by cheque, this information must be recorded on the envelope and the worker must acknowledge receipt of payment by signing for it

14.9 If a worker's employment is terminated, the employer must pay all monies owing to that worker within one month of the termination of employment.

15 Deductions

15.1 An employer may not deduct money from a worker's payment unless the deduction is required in terms of a law.

15.2 An employer must deduct and pay to the SA Revenue Services any income tax that the worker is required to pay.

15.3 An employer who deducts money from a worker's pay for payment to another person must pay the money to that person within the time period and other requirements specified in the agreement law, court order or arbitration award concerned.

15.4 An employer may not require or allow a worker to –

- (a) repay any payment except an overpayment previously made by the employer by mistake;
- (b) state that the worker received a greater amount of money than the employer actually paid to the worker; or
- (g) pay the employer or any other person for having been employed.

16 Health and Safety

16.1 Employers must take all reasonable steps to ensure that the working environment is healthy and safe.

16.2 A worker must –

- (a) work in a way that does not endanger his/her health and safety or that of any other person;
- (b) obey any health and safety instruction;
- (c) obey all health and safety rules of the SPWP;
- (d) use any personal protective equipment or clothing issued by the employer;
- (e) report any accident, near-miss incident or dangerous behaviour by another person to their employer or manager.

17 Compensation for Injuries and Diseases

17.1 It is the responsibility of the employers (other than a contractor) to arrange for all persons employed on a SPWP to be covered in terms of the Compensation for Occupational Injuries and Diseases Act, 130 of 1993.

17.2 A worker must report any work-related injury or occupational disease to their employer or manager.

17.3 The employer must report the accident or disease to the Compensation Commissioner.

17.4 An employer must pay a worker who is unable to work because of an injury caused by an accident at work 75% of their earnings for up to three months. The employer will be refunded this amount by the Compensation Commissioner. This does NOT apply to injuries caused by accidents outside the workplace such as road accidents or accidents at home.

18 Termination

18.1 The employer may terminate the employment of a worker for good cause after following a fair procedure.

18.2 A worker will not receive severance pay on termination.

18.3 A worker is not required to give notice to terminate employment. However, a worker who wishes to resign should advise the employer in advance to allow the employer to find a replacement.

18.4 A worker who is absent for more than three consecutive days without informing the employer of an intention to return to work will have terminated the contract. However, the worker may be re-engaged if a position becomes available for the balance of the 24-month period.

18.5 A worker who does not attend required training events, without good reason, will have terminated the contract. However, the worker may be re-engaged if a position becomes available for the balance of the 24-month period.

19 Certificate of Service

19.1 On termination of employment, a worker is entitled to a certificate stating –

- (a) the worker's full name;
- (b) the name and address of the employer;
- (c) the SPWP on which the worker worked;
- (d) the work performed by the worker;
- (e) any training received by the worker as part of the SPWP;
- (f) the period for which the worker worked on the SPWP;
- (h) any other information agreed on by the employer and worker.

Part 1: Contract Data completed by the Employer

Clause

1. **The name of the Employer is Blouberg Municipality**

P.O Box 1593
SENWABARWANA
0790

2. **The name of the Engineer is Volt Consulting Engineers**

2.1 The address of the Engineer is:

Telephone: 015 296 0725
Facsimile: 015 291 0745

Address (physical): 15 Pierre Street
Suite No:13 Ficus Park
Bendor Park
Polokwane
0699

Address (postal): P.O. Box 11365
Bendor Park
Polokwane
0713

3 The special non-working days are public holidays, Saturdays, Sundays and the days on which the contractor grants the majority of his permanent workforce leave around the 16th December and the first Monday of the subsequent year.

4. The Engineer is required to obtain the specific approval of the Employer before executing any of the following functions or duties:
 1. Nominating the Engineer's Representative in terms of cl 2.4.
 2. Delegation of Engineer's authority in terms of cl 2.7.
 3. Providing consent for subcontracting part of the contract in terms of cl 6.2.
 4. The issuing of further drawings or instructions in terms of cl 13.1
 5. The issuing of instructions for dealing with fossils and the like in terms of cl 15.
 6. Authorizing the Contractor to repair and make good excepted risks in terms of cl 32.2.2.
 7. The issuing of a variation order in terms of cl 36.2.
 8. Issuing of instructions to carry out work on a day work basis in terms of cl 37.1.4.
 9. Granting permission to work during non-working times in terms of cl 38.1.
 10. Suspend the progress of the works in terms of cl 39.1.
 11. The issuing of an instruction to accelerate progress in terms of cl 40.3.
 12. The reduction of a penalty for delay in terms of cl 43.2.
 13. The determination of additional or reduced costs arising from changes in legislation in terms of cl 46.4.
 14. The giving of a ruling on a contractor's claim in terms of cl 48.5.
 15. The agreeing of an extension to the 28 period in terms of cl 48.5.1.
 16. The inclusion of credits in the next payment certificate in terms of cl 48.5.2.
 17. The agreeing of the adjustment of the sums for general items in terms of cl 50.1.

5. The time to deliver the Form of Guarantee within 14 days of the Commencement Date. The Form of Guarantee is to contain the wording of the document included in C1.3. The liability for the guarantee shall be for 10%.

6. The Works are to be commenced within 14 days of the Commencement Date.

7. The Works programme is to be delivered within 14 days of the Commencement Date.

8. The limit of liability insurance is R 2000 000 per claim.

9. No additional insurance is required.

10. The percentage allowance to cover overhead charges is 15%.

11. The works shall be completed within months exclusive of year end break.

12. The penalty for failing to complete the Works is R 1000 per day
13. The value of the payment certificates is to be adjusted in accordance with the Contract Price Adjustment Schedule, where:
 - The value of "x" is 0,15
 - The values of the coefficients are:
 - a = 0.25 Labour
 - b = 0.11 Contractor's equipment
 - c = 0.60 Material
 - d = 0.04 Fuel
 - The urban area nearest the Site is Polokwane Town
 - The base month is the month prior to the closing of the tender

14. The percentage advance on materials not yet built into the Permanent Works is 80%

15. The percentage retention on amounts due to the Contractor is 10. %.

16. The limit on retention is 10% of the Contract Price

- 17. A Retention Money Guarantee is permitted.
- 18. The Defects Liability Period is 12 months.
- 19. Dispute resolution is to be my means of adjudication
- 20. Disputes are to be referred for final settlement to arbitration.

Part 2: Data provided by the Contractor

Clause

- 1. The name of the Contractor is:
- The address of the contractor is:
- Telephone:
- Facsimile:
- Address (physical):
-
-
- Address (postal):
-
-

- 2. The variation in cost of special materials is:

Special material	Unit on which variation will be determined		Price for base month ex factory, excluding transport, labour or any other costs.
	Containers	Delivered in bulk	

*State unit in appropriate column

BLOUBERG MUNICIPALITY

C1.3 Form of Guarantee

Contract No

WHEREAS **The BLOUBERG MUNICIPALITY** (hereinafter referred to as the Employer") entered into, a Contract with:

.....

(hereinafter called "the Contactor") on the day of

2015

for the : **CONSTRUCTION OF A NEW SENWABARWANA SUBSTATION.**

AND WHEREAS it is provided by such Contract that the Contractor shall provide the Employer with security by way of a guarantee for the due and faithful fulfilment of such Contract by the Contractor;

AND WHEREAS has / have at the request of the Contractor, agreed to give such guarantee;

NOW THEREFORE WE do hereby guarantee and bind ourselves jointly and severally as Guarantor and Co-principal Debtors to the Employer under renunciation of the benefits of division and excursion for the due and faithful performance by the Contractor of all the terms and conditions of the said Contract, subject to the following conditions:

1. The Employer shall, without reference and / or notice to us, have complete liberty of action to act in any manner authorized and/or contemplated by the terms of the said Contract, and/or to agree to any modifications, variations, alterations, directions or extensions of the completion date of the works under the said Contract, and that its rights under this guarantee shall in no way be prejudiced nor our liability hereunder be affected by reason of any steps which the Employer may take under such Contract, or of any modification, variation, alterations of the completion date which the Employer may make, give, concede or agree to under the said Contract.
2. This guarantee shall be limited to the payment of a sum of money.
3. The Employer shall be entitled, without reference to us, to release any guarantee held by it, and to give time to or compound or make any other arrangement with the Contractor.
4. This guarantee shall remain in full force and effect until the issue of the Certificate of Completion in terms of the Contract, unless we are advised in writing by the Employer before the issue of the said Certificate of his intention to institute claims, and the particulars thereof, in which event this guarantee shall remain in full force and effect until all such claims have been paid or liquidated.

5. Our total liability hereunder shall not exceed the Guaranteed Sum of
.....Rand (in words); R
.... (in figures)

6. The Guarantor reserves the right to withdraw from this guarantee by depositing the Guaranteed Sum with the beneficiary, whereupon our liability hereunder shall cease.

7. We hereby choose our address for the serving of all notices for all purposes arising here from as

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

IN WITNESS WHEREOF this guarantee has been executed by us at

on this day of 2015.

Signature

Duly authorized to sign on behalf of
...

Address
.....
.....

As witnesses:

1

2

OCCUPATIONAL HEALTH AND SAFETY AGREEMENT

This agreement is mandatory for all contractors appointed by the Blouberg Municipality or any other institution that do work for or on behalf of the Municipality.

This agreement is between:

THE CONTRACTOR:

Herein represented by

In his capacity asBeing duly authorized hereto hereinafter referred to as "contractor".

Compensation Commissioner Number:

(Attach a copy of the Registration Certificate to this agreement)

Company : Name:

Registration Number:

CEO : Name:

ID Number:

Physical Address:

.....

**And the BLOUBERG MUNICIPALITY
(Hereinafter referred to as "the Municipality")**

1. DEFINITIONS

- 1.1 **CONTRACTOR** Means the "Contractor" as defined in the "Principal Contract"
- Annexed hereto in his capacity as mandatory.
- 1.2 **MANDATORY** Includes an agent, contractor or subcontractor for work to be done or service rendered, but without derogating from his status in his own right as an employer of people or user of equipment, machinery, tools or materials.
- 1.3 **THE PRINCIPAL CONTRACT** Means the contract annexed hereto as annexure "A".
- 1.4 **DISTRICT MUNICIPALITY** Means the Capricorn District Municipality
- 1.5 **RISK CONTROL OFFICER** A person appointed in writing by Municipality.
- 1.6 Any definitions contained in any Statute hereinafter mentioned shall have the meaning allocated to it by the specific statute.

2. OBJECTIVE

- 2.1 Whereas Municipality and the Contractor have entered into a contract for service (work) as fully indicated in the "Principle Contract" and whereas the "Contractor" agreed to indemnify The Municipality against the risks stated hereunder whether foreseeable or not, and, whereas it is agreed between the parties that it is of cardinal importance to safeguard both The Municipality and the Contractor's obligation in terms of relevant legislation as well as to extend the obligation as a company and/or legal person and/or person as an entity concerned with health, safety and the environment.
- 2.2 These rules are applicable to all contractors performing work for The Municipality within the jurisdictional area of the Municipality and on any premises, which are owned, rented or developed by the Municipality.
- 2.3 The Municipality acts through those officials or persons who are generally or specifically charge with the responsibility, in terms of legislation, as well as any other official or person who is generally or specifically charged with the control and supervision of the project.

IT IS HEREBY AGREED AS FOLLOWS:

3. INDEMNITIES

- 3.1 The "Contractor" hereby indemnifies the "Municipality" against any loss in respect of all claims, proceeding, damages, costs and expenses arising out of any claim or proceeding pertaining to the non-compliance by the "Contractor" of any statutory requirements and/or requirements regarding the following Acts in particular pertaining to the provisions of:
- 3.1.1 The Occupational Health and Safety Act 85 of 1993 (as amended), including the Construction Regulations, 2003 as promulgated on 18 July 2003, in terms of Section 43 of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993), in Government Gazette No. 25207 and Regulation Gazette No. 7721. See Annexure B.
 - 3.1.2 The Health Act 63 of 1977.
 - 3.1.3 Road Traffic Act 29 of 1989 (as amended).
 - 3.1.4 Environment Conservation Act 73 of 1989.
 - 3.1.5 The National Water Act 36 of 1998.
 - 3.1.6 The Criminal Procedure Act 51 of 1977.
 - 3.1.7 The Explosives Act 26 of 1956.
 - 3.1.8 The Arms and Ammunition Act 75 of 1969.
 - 3.1.9 Compensation for Occupational Injuries and Diseases Act 130 of 1993.
 - 3.1.10 The Labour Relations Act 66 of 1995.
 - 3.1.11 The Unemployment Insurance Act 30 of 1966 (as amended).
 - 3.1.12 The Basic Conditions of Employment Act 75 of 1997 (as amended).
 - 3.1.13 Standards Act 29 of 1993.
 - 3.1.14 any statutory provisions in any act and/or any law or bylaw of any local government and/or any published official standard incorporated into any statute or bylaw relating to the completion of the work set out in the "Principal Contract".
 - 3.1.15 Any other health and safety standard prescribed by the "Municipality".
- 3.2 The "Contractor" shall ensure that he familiarizes himself with the requirements of the above legislation and that he, his employees and any subcontractor will comply with all the statutory provisions contained in them.
- 3.3 The "Contractor" shall indemnify the "Municipality" in respect of any physical loss or damage to any plant, equipment or other property belonging to the "Contractor" or for which he is responsible and he hereby indemnifies the "Municipality" against any loss in respect of all claims, proceedings, damages, costs and expenses consequent upon the loss of or damage to any plant, equipment or other property belonging to, or which is the responsibility of, any subcontractor, agent or employee of the subcontractor.

- 3.4 The "Contractor" shall and hereby indemnifies the "Municipality" against any liability, loss, claim or proceedings whatsoever, whether arising in common law or by statute, consequent on personal injuries to or the loss of health or death of any person whatsoever arising out of or in the course of or caused by the execution of the "Principal Contract".
- 3.5 The "Contractor" shall and hereby indemnifies the "Municipality" against any liability, loss, claim or proceedings consequent on loss of or damage to any movable or immovable property arising out of or in the course of or caused by the execution of the "Principal Contract" and due to any act or omission of the "Contractor", his agents, servants or subcontractors.

4. PERFORMANCE SAFE WORKING PRACTICE

- 4.1 The "Municipality" requires a high standard of safe work performance from all employees and expects that the standard be maintained by the "Contractor" within the "Municipality's" jurisdictional area or on its premises.
- 4.2 Irrespective of human considerations, the maintaining of these health and safety rules shall be the execution of the prescribed legal requirements. These rules are not to hinder the "Contractor" in rendering services or indemnify the "Contractor" from any legal responsibility to ensure healthy and safe work circumstances.
- 4.3 The "Municipality" shall assist the "Contractor" in any practical considerations to accommodate the healthy and safe execution of work and therefore require co-operation in the execution of these safety rules.

5. LOCK OUT PROCEDURE

- 5.1 When power or air driven machines or equipment, electrical apparatus or pipe lines are examined, repaired, adjusted, cleaned, lubricated or serviced in any other way than normal servicing, then all isolating switches, -levers, valves or appliances must be put in the "off" or "closed" position and locked.
- 5.2 Should more than one team work on a machine, then each person in control of a team, must put a separate lock on the switch, lever, valve or appliance.

6 CRANES, VEHICLES AND HOISTING

- 6.1 For each crane or hoisting equipment used, the "Contractor" must submit a valid and recent test certificate or other form of the last examination of the machine or equipment, to the "Municipality".
- 6.2.1 Only trained personnel with written permission and where determined by Law, with a valid driver's license, may be allowed to operate any electrical diesel or petrol driver overhead crane, hydraulic or electrical hoisting equipment, self-

driven forklift, tractor or any other crane or vehicle. No employee of the "Contractor" may perform any overhead work or work on an overhead crane or hoisting equipment or work near cranes or crane rail, before:

- i) An agreement was concluded with the "Municipality".
- ii) Approval has been obtained from the "Municipality" to perform the work.
- iii) All applicable danger – and warning symbolic signs are put into position, or exemption, if applied for, is in operation.

6.3 The "Contractor" shall be wholly responsible for any loss or damage to cranes, hoisting equipment, plant, machines or equipment brought onto the work site by the "Contractor"

7. MACHINE VALANCES, PROTECTION AN FENDING

7.1 No machine valances, protection or fencing may be removed from machines, manholes, etc without the written permission of Municipality" if applicable exemption procedures were not appropriated.

8. SCAFFOLD, LADDERS, TOOLS AND EQUIPMENT

8.1 No equipment or appliance belonging to "Municipality" may be used without written permission from "Municipality".

8.2 Unless prior arranged, "Contractors" must bring sufficient tools and equipment to the site to finish the contract, including offices and storerooms. The mentioned equipment remains the responsibility of the "Contractor" with respect to loss, damage and theft.

In exceptional cases, where tools and equipment belonging to "Municipality" are used to finish the contract, the said equipment and tools are used on own risk and the "Contractor" indemnifies "Municipality" from any claims that may arise. The said indemnity must be in writing, as well as information regarding the loan period, identification and condition of tools and equipment. The "Contractor" is responsible for the returning of said tools and equipment in the same condition or better. The "Contractor" is responsible to "Municipality" for any damage or excessive wear of such tools or equipment and material.

9. EXCAVATIONS

- 9.1 Before any excavations commence, written permission must be obtained from "Municipality" to confirm the location of existing electrical cables, water pipes, etc.
- 9.2 All excavations and obstructions in floor, tar and dirt surfaces must be fenced effectively and safeguarded between sundown and sunup with a sufficient amount of red/yellow warning lights and symbolic signs.
- 9.3 The surrounding area must be kept clean, safe and tidy during excavation. Excess material may not obstruct unnecessarily.
- 9.4 If any property is in danger during excavation, it must be supported and the proposed support work must be submitted to the Department of Labour (OHS) and the "Municipality" for approval.
- 9.5 Written permission must be obtained from the "Municipality" to grant admittance to restricted areas as well as areas where dangerous or poisonous gases are present.

10. FIRST AID

10.1 The "Contractor" must provide and maintain a first aid box equipped according to legal requirement where more than (5) five persons are employed. The first aid box must be in the care of a person with a competency certificate from one of the following organizations:

- (i) SA Red Cross Association;
- (ii) St John's Ambulance;
- (iii) SA First Aid League; or
- (iv) A person or organization approved by the Chief inspector for this purpose.

10.2 A visible notice must be put up on any work premises with the name of the person responsible for first aid. In an emergency the "Local Council or Municipality's" Ambulance / Fire Department or emergency services may be contacted.

11. FLAMMABLE LIQUIDS

11.1 The "Contractor" shall be held responsible for the necessary precautionary fire prevention measures. No smoking signs must be put up where applicable. The "Contractor's" employees must be informed of the "Municipality's" fire prevention measures and evacuation procedures.

12. COMPENSATION BY CONTRACTOR

12.1 The "Contractor" shall be held responsible for all loss of and damage to property, the death or injury of persons, the resultant loss or damage suffered as well as all law suits, claims, costs, charges, fines and expenses due to negligence, violation of statutory liability or neglect of the "Contractor" or the "Contractor's" employees.

13. TRANSGRESSION OF RULES AND MISBEHAVIOUR

13.1 The "Contractor" is warned that any act(s) leading to damage or loss of employees of the "Contractor" or the "Municipality" shall not be tolerated. The "Municipality" may (without any reason) demand that any employee of the "Contractor" be withdrawn from the principal "Contract" or site.

14. INCIDENT REPORTING

- 14.1 All incidents referred to in Section 24 of the Occupational Health and Safety Act and or other incidents shall be reported, by the "Contractor", to the Department of Labour, as well as to the "Municipality" and should such an incident take place outside normal working hours, on a Saturday, Sunday or Public holiday provided with a written report relating to any incident.
- 14.2 The Municipality will obtain an interest in the issue of any formal inquiry conducted in terms of the Occupational Health and Safety Act in any incident involving the "Contractor" and/or his employees and/or his subcontractors.
- 14.3 The "Contractor" undertakes to report to Municipality anything deemed to be unhealthy and/or unsafe and that he undertakes to verse his employees and/or subcontractors in this regard.

15. LIAISON AND SUPERVISION

- 15.1 The "Contractor" hereby undertakes to liaise on a regular basis with the designated Risk Control Officer and the Municipality representative regarding any hazards or incidents that may be identified or encountered during the performance of the "Principal Contract".

16. SERVICE INTERRUPTION

Should any work done by the "Contractor" cause a possible interruption, written permission must be obtained from the "Municipality", before such work commences. The "Contractor" may not switch on or off any compressed air, steam, oxygen, vacuum supply or electrical supply without written permission from the "District Municipality".

17. CONFIDENTIALITY

- 17.1 The "Contractor" and his employees shall regard all data, documentation and information of the contract and related documentation as confidential.
- 17.2 Lost documentation/plans or related documentation shall immediately be reported in writing to the "District Municipality".
- 17.3 The "Contractor" shall not put up any advertisements or billboard at the site without permission.
- 17.4 The "Contractor" shall not take photographs of the contract site or part thereof or any work process or part thereof, without written permission from the "Municipality", or have photographs taken, published or let it be published.

18. CONTRACT SITE AND PRESERVATION

18.1 Employees of the "Contractor" shall not be allowed entrance to the site unless a valid identity document, issued by the "District Municipality", is displayed. The mentioned documents shall only be valid for a limited period, where after it must be renewed.

19. COMPLETION OF WORK

19.1 The "Contractor" or his employees shall not leave the contract site before the Municipality is satisfied that the contract is completed according to the requirements and standards set out in the contract and that the working site is left in a satisfactory and safe condition.

20. LIQUOR, DRUGS, DANGEROUS WEAPONS AND FIREARMS

20.1 The "Contractor" shall ensure that no liquor, drugs, dangerous weapons or firearms be brought onto the premises.

21. SEARCHES

21.1 The "Contractor" and any person engaged in the contract work may at any time be searched by Municipality appointed security personnel and all packages, suitcases, etc. must be presented to the access control point for examination prior to them being brought onto the property or leaving the property.

22. GENERAL CONDITIONS

22.1 Notwithstanding anything to the contrary in this agreement, it is hereby specifically determined that the "Contractor-"

22.1.1 shall have acquainted himself and be conversant with the contents of all statutory provisions applicable to the health and safety of workers and other persons on the site including the execution of the work, and in particular the conditions contained in the Occupational Health and Safety Act, 1993 (Act 85/1993), and the regulations promulgated in terms thereof, and shall comply therewith meticulously and in all aspects and/or take care that it is complied with;

22.1.2 shall be obliged to immediately execute all instructions given to him by an authorized representative of the Municipality in order to ensure and uphold the implementation and enforcement of the provisions referred to in subparagraph 1, to the satisfaction of the said representative;

22.1.3 shall indemnify the Municipality against any or all liability which may be incurred by the Municipality as a result of the omission of the "Contractor", his employees, sub-contractors and/or representatives to comply with the

provisions referred to in sub-paragraph 1, or to ensure that it shall be complied with;

22.1.4 shall undertake to pay upon demand any and/or all legal costs and other expenses which the Municipality may have incurred as a consequence of any criminal charges or other proceedings pending against, or involving the Municipality as a result of the contravention or non-compliance by the "Contractor", his employees, sub-contractors and/or representative of any of the statutory provisions referred to in sub-paragraph 1.

22.1.5 Should the "Contractor" neglect to immediately execute any health and safety written orders issued to him, or to his employee in charge of the works, in terms of the stipulations of sub-paragraph 2, the Municipality shall be entitled to suspend the execution of the works and take the necessary steps to execute or have such order executed. Under these circumstances the contractor shall be obliged to pay the "Municipality", upon demand, all costs and expenses incurred by the "Municipality", in order to execute or have the said orders executed.

22.1.6 Should the abovementioned steps not establish a healthy and safe work environment the Municipality will be entitled to terminate the contract without incurring any further costs or claims from the contractor?

23. "CONTRACTOR" IDENTIFICATION BOARD

23.1 The "Contractor" shall provide on any work premises a temporary identification board containing at all worksites the following information:

Company name on behalf of which division/department the work is being done

The contact number and name of the person representing the "Contractor"

The contact number and name of the person representing the Municipality

24. ACKNOWLEDGEMENT

24.1 The "Contractor" hereby acknowledges that he has read and received a copy of the "Principal Contract" and agrees to be bound by and undertakes to observe all the terms and conditions of the "Principal Contract". This appointment is made in terms of Section 37(2) of the Occupational Health and Safety Act, 85 of 1993.

THE CONTRACTOR

SIGNED AT ON THIS DAY OF

WITNESSES:

.....
THE CONTRACTOR

1.

2.

THE MUNICIPALITY

SIGNED AT ON THIS DAY OF

WITNESSES:

.....
THE MUNICIPALITY

1.

2.

b) INDEMNITY CERTIFICATE

Contractor: _____

Employer: Blouberg Municipality

Contract:

I/we _____ Hereafter the "Contractor"

"Contractor" hereby indemnifies the Blouberg Municipality (Municipality) against any claim of whatever sort which may arise directly or indirectly from the execution by me/us of the above-mentioned contract and which may be instituted against the "Municipality", as well as of any loss or damage which the Municipality suffers or expenditure the Municipality incurs to prevent responsibility for such claim, loss or damage, whatever the cause of such claim may be or whatever loss or damage the Municipality suffers.

THUS done and signed at on this day of
..... 2019.

WITNESSES:

1.
.....
CONTRACTOR

2.
.....
MUNICIPALITY



c) ACKNOWLEDGEMENT CERTIFICATE

I, in my capacity as.....

Duly authorized hereto.....representing

..... Contractors,

acknowledge receipt of a copy of the Blouberg Municipality's safety manual for contractors and the under mentioned person as my supervisor regarding all works and services which must be executed by the Contractor. The appointment is done in terms of the Occupational Health and Safety Act, 1993 (Act 85/1993).

SIGNED AT ON 20...

I, accept the abovementioned appointment, and declare that I am familiar with the contents of the Blouberg Municipality's Safety Manual for contractors.

CASUALTIES REGISTRATION NUMBER

SIGNED AT ON 20....

SIGNATURE:

WITNESSES: 1.....
2.

A copy of this certificate shall be submitted to the Municipality before any work commences.



BLOUBERG MUNICIPALITY

C2.1 Pricing Instructions

- 1 Measurement and payment shall be in accordance with the relevant provisions of clause 8 of each of the SABS 1200 Standardised Specifications for Civil Engineering Construction referred to in the Scope of Work. The Preliminary and General items shall be measured in accordance with the provisions of SABS 1200-A, General.
2. The units of measurement described in the Bills of Quantities are metric units. Abbreviations used in these Bills of Quantities are as follows:

%	=	percent
h	=	hour
ha	=	hectare
kg	=	kilogram
kl	=	kilolitre
km	=	kilometre
km-pass	=	kilometre-pass
kPa	=	kilopascal
kW	=	kilowatt
l	=	litre
m	=	metre
mm	=	millimetre
m ²	=	square metre
m ² -pass	=	square metre-pass
m ³	=	cubic metre
m ³ -km	=	cubic metre-kilometre
MN	=	mega newton
MN.m	=	mega newton-metre
MPa	=	mega pascal
No.	=	number
Prov sum	=	Provisional sum
PC sum	=	Prime Cost sum
R/only	=	Rate only
sum	=	lump sum
t	=	ton (1000 kg)
W/day	=	Work day

3. Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance is made for waste.
4. The prices and rates in these Bills of Quantities are fully inclusive prices for the work described under the items. Such prices and rates cover all costs and expenses that may be required in and for the execution of the work described in accordance with the provisions of the Scope of Work, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the Contract Data, as well as overhead charges and

profit. These prices will be used as a basis for assessment of payment for additional work that may have to be carried out.

5. It will be assumed that prices included in these Bills of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders. (Refer to www.stanza.org.za or www.iso.org for information on standards)
6. Where the Scope of Work requires detailed drawings and designs or other information to be provided, all costs associated therewith are deemed to have been provided for and included in the unit rates and sum amount tendered such items
7. An item against which no price is entered will be considered to be covered by the other prices or rates in the Bills of Quantities. A single lump sum will apply should a number of items be grouped together for pricing purposes.
8. The quantities set out in these Bills of Quantities are approximate and do not necessarily represent the actual amount of work to be done. The quantities of work accepted and certified for payment will be used for determining payments due and not the quantities given in the Bills of Quantities.
9. Reasonable compensation will be received where no pay item appears in respect of work required in the Bills of Quantities in terms of the Contract and which is not covered in any other pay item.
10. The short descriptions of the items of payment given in these Bills of Quantities are only for the purposes of identifying the items. More details regarding the extent of the work entailed under each item appear in the Scope of Work.
11. Descriptions in the Bills of Quantities are abbreviated and comply generally with those in the SABS 1200 Standardised Specifications.
12. Those parts of the contract to be constructed using labour-intensive methods have been marked in the Bills of Quantities with the letters LI in a separate column filled in against every item so designated. The works, or parts of the works so designated are to be constructed using labour-intensive methods only. The use of plant to provide such works, other than plant specifically provided for in the scope of work, is a variation to the contract. The items marked with the letters LI are not necessarily an exhaustive list of all the activities which must be done by hand, and this clause does not over-ride any of the requirements in the generic labour intensive specification in the Scope of Works.
3. Payment for items which are designated to be constructed labour-intensively (either in this schedule or in the Scope of Works) will not be made unless they are constructed using labour-intensive methods. Any unauthorised use of plant to carry out work which was to be done labour-intensively will not be condoned and any works so constructed will not be certified for payment.

BLOUBERG MUNICIPALITY

C2.2 Bills of Quantities

Item No		Quantity	Amount
	<p>SECTION NO 1</p> <p>PRELIMINARIES</p> <p>Bill No 1</p> <p>PRELIMINARIES</p> <p><u>BUILDING AGREEMENT AND PRELIMINARIES</u></p> <p>The JBCC Principal Building Agreement (March 2014 Edition 6.1) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The JBCC Principal Building Agreement contract data form an integral part of this agreement</p> <p>The ASAQS Preliminaries (March 2014 edition) published by the Association of South African Quantity Surveyors for use with the JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities</p> <p>The contractor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause</p> <p>The clauses in the abovementioned documents 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 to the contrary contained in the abovementioned documents</p> <p>Where any item is not relevant to this agreement such item is marked N/A (signifying "not applicable")</p> <p><u>PREAMBLES FOR TRADES</u></p> <p>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</p> <p>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 Model Preambles</p>		
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The **contractor's** prices for all items throughout these **bills of quantities** shall take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles

PRICING OF PRELIMINARIES

Should the **contractor** select Option A in terms of clause 26.9.4 of the **contract data** 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)

SECTION A: PRINCIPAL BUILDING AGREEMENT

Interpretation (A1-A7)

1 Clause 1.0 - Definitions and interpretation

Pricing of bills of quantities

The **contractor** is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes, imposts, establishment charges, overheads, profit and all other obligations arising out of the **agreement**

Items left unpriced will be deemed to be covered in prices against other items throughout these **bills of quantities** and no claim for any extras arising out of the **contractor's** omission to price any item will be entertained

Prices for all plant, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary

Legal status of contractor

If the **contractor** constitutes a joint venture consortium or other unincorporated grouping of two or more persons then:

1. These persons are deemed to be jointly and severally liable to the **employer** for the performance of this agreement

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	<p>2. These persons shall notify the employer of their leader who has authority to bind the contractor and each of these persons</p>		
	<p>3. The contractor shall not alter its composition or legal status without the prior written consent of the employer</p>		
2		Fixed (F)	Item
3		Value related (V)	Item
4		Time related (T)	Item
5	<p>Clause 2.0 - Law, regulations and notices</p>		
	<p>Health and safety</p>		
	<p>Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works (refer to the annexures for a copy of the relevant specification) and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification [2.1]</p>		
	<p>The contractor shall:</p>		
	<p>1. Comply with the health and safety specification for the works</p>		
	<p>2. Prepare and agree with the health and safety consultant the health and safety plan for the works</p>		
	<p>3. Co-operate with the health and safety consultant in all respects</p>		
	<p>4. Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification</p>		
	<p>5. Conform to the conditions contained in the employer's safety specification</p>		
6		Fixed (F)	Item
7		Value related (V)	Item
8		Time related (T)	Item
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9	Clause 3.0 - Offer and acceptance		
10		Fixed (F)	Item
11		Value related (V)	Item
12		Time related (T)	Item
13	Clause 4.0 - Assignment and cession		
14		Fixed (F)	Item
15		Value related (V)	Item
16		Time related (T)	Item
17	Clause 5.0 - Contract documents		
	Value Added Tax		
	Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT)		
	Contract drawings		
	Refer to the Scope of Works for a list of the contract drawings [5.1]		
	Priced document as specification		
	The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any [5.3]		
	Electronic issue of drawings		
	All drawings for this project will be issued electronically and the contractor shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically [5.5]		
18		Fixed (F)	Item
19		Value related (V)	Item
20		Time related (T)	Item
21	Clause 6.0 - Employer's agents		
	Delegated authority		
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The authority of the **principal agent** to perform duties for specific aspects of the **works** is delegated to the **agents** as follows [6.2]:

1. Architect

The architect is responsible for the architectural design, functional design and quality inspection. Without derogating from the generality thereof the architect will perform the following specific functions and duties:

- 1.1 Give opinion on aspects of the **works** which are not in accordance with the **agreement**
- 1.2 Supply the specified number of drawings
- 1.3 Issue instructions if **bills of quantities** is to be used as a specification
- 1.4 Be responsible for primary co-ordination of design elements
- 1.5 Receive through the **contractor** and accept design documentation undertaken by **subcontractors**
- 1.6 Issue instructions to the **contractor** regarding:
 - 1.6.1 Alteration to design, quality or quantity of the **works** provided that such instructions shall not substantially change the scope of the **works**
 - 1.6.2 Removal of any **materials and goods** from the **site** and the substitution of any **materials and goods** therefor
 - 1.6.3 Removal or re-execution of any work
 - 1.6.4 Opening up of work for inspection
 - 1.6.5 Testing of work and **materials and goods**
 - 1.6.6 Protection of the **works**
 - 1.6.7 Making good physical loss and repairing damage to the **works**
 - 1.6.8 Lists for **practical completion** and **final completion**
 - 1.6.9 Compliance with Acts of Parliament, regulations and bylaws
- 1.7 Witness the handing over to the **contractor** of pegs, beacons and datum levels
- 1.8 Define levels and provide the **contractor** with the necessary information to set out the **works**

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- 1.9 Acceptance of design by **subcontractors**
- 1.10 Inspect the **works** from time to time and give the **contractor** interpretation and guidance on the standard and state of completion required for **practical completion**
- 1.11 Inspect the **works** for **practical completion**
- 1.12 Issue the **list for practical completion** and re-inspect upon request of the **contractor**
- 1.13 Issue the **certificate of practical completion**
- 1.14 Inspect the **works** at the end of the **defects** liability period
- 1.15 Issue the **list for final completion** and re-inspect upon request of the **contractor**
- 1.16 Issue the **certificate of final completion**

2. Quantity surveyor

The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions. Without derogating from the generality thereof, the quantity surveyor will perform the following specific functions and duties:

- 2.1 Consult with the **contractor** in correction of rates or errors and discrepancies
- 2.2 Complete the **contract data**
- 2.3 Supply the specified number of unpriced **bills of quantities**
- 2.4 Identify in the **contract data** any changes to the standard **JBCC** documentation and determine any loss and expense to the **contractor** caused by non-disclosure thereof
- 2.5 Deal with amounts paid by the **contractor** to authorities having jurisdiction over the **works**
- 2.6 Measure and value the making good of physical loss or damage
- 2.7 Issue instructions to the **contractor** regarding:
 - 2.7.1 Rectification of discrepancies and errors in description or omissions in **contract documents**

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- 2.7.2 Furnishing proof of payment to **subcontractors**
- 2.7.3 **Budgetary allowances** and work executed by the **contractor**
- 2.7.4 Contingency and other monetary provisions included in the **contract sum**
- 2.8 Prepare nominated and/or selected subcontract tender documents
- 2.9 Receive proof from the **contractor** that the **contractor's** payment obligations have been met in respect of **subcontractors**
- 2.10 Act on **employer's** instructions to pay **subcontractors** directly
- 2.11 Adjustment of the **contract value** in respect of a revision to the date of **practical completion**
- 2.12 Calculate **penalties** for non-completion upon receipt of the relevant information from the **principal agent**
- 2.13 Valuation of payment claims for **payment certificates**
- 2.14 Calculate default and compensatory **interest** (if any) due to the **parties**
- 2.15 With each valuation for payment issue:
 - 2.15.1 A statement to the **contractor** and each **subcontractor** showing the amount certified for the relevant **subcontractor**
 - 2.15.2 A statement to the **employer** and **contractor** showing the total amount certified
 - 2.15.3 A **recovery statement**
- 2.16 Determine the value of adjustments to the **contract value**
- 2.17 Receive from the **contractor** details of expense and loss claims and assess such claims
- 2.18 Prepare the **final account** and submit to the **contractor**

3. Civil and structural engineer

The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality inspection. Without derogating from the generality thereof, the civil and structural engineer will perform the following specific functions and duties in respect of the civil and structural engineering aspects of the **works**:

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- 3.1 Give opinion on aspects of the **works** which are not in accordance with the **agreement**
- 3.2 Supply the specified number of drawings
- 3.3 Issue instructions if **bills of quantities** is to be used as a specification
- 3.4 Receive and accept design documentation undertaken by **subcontractors**
- 3.5 Issue instructions to the **contractor** regarding:
 - 3.5.1 Alteration to design, quality or quantity of the **works** provided that such instructions shall not substantially change the scope of the **works**
 - 3.5.2 Removal of any **materials and goods** from the **site** and the substitution of any **materials and goods** therefor
 - 3.5.3 Removal or re-execution of any work
 - 3.5.4 Opening up of work for inspection
 - 3.5.5 Testing of work and **materials and goods**
 - 3.5.6 Protection of the **works**
 - 3.5.7 Making good physical loss and repairing damage to the **works**
 - 3.5.8 Compliance with Acts of Parliament, regulations and bylaws
- 3.6 Define levels and provide the **contractor** with the necessary information to set out the **works**
- 3.7 Acceptance of design by **subcontractors**
- 3.8 Inspect the **works** from time to time and give the **contractor** interpretation and guidance on the standard and state of completion required for **practical completion**
- 3.9 Inspect the **works** for **practical completion**
- 3.10 Issue the **list for practical completion** and re-inspect upon request of the **contractor**
- 3.11 Inspect the **works** at the end of the **defects** liability period
- 3.12 Issue the **list for final completion** and re-inspect upon request of the **contractor**

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4. Mechanical engineer

The mechanical engineer is responsible for all the aspects of mechanical engineering design and quality inspection. Without derogating from the generality thereof the mechanical engineer will perform the following specific functions and duties in respect of the mechanical engineering aspects of the **works**:

- 4.1 Give opinion on aspects of the **works** which are not in accordance with the **agreement**
- 4.2 Supply the specified number of drawings
- 4.3 Issue instructions if **bills of quantities** is to be used as a specification
- 4.4 Receive and accept design documentation undertaken by **subcontractors**
- 4.5 Issue instructions to the **contractor** regarding:
 - 4.5.1 Alteration to design, quality or quantity of the **works** provided that such instructions shall not substantially change the scope of the **works**
 - 4.5.2 Removal of any **materials and goods** from the **site** and the substitution of any **materials and goods** therefor
 - 4.5.3 Removal or re-execution of any work
 - 4.5.4 Opening up of work for inspection
 - 4.5.5 Testing of work and **materials and goods**
 - 4.5.6 Protection of the **works**
 - 4.5.7 Making good physical loss and repairing damage to the **works**
 - 4.5.8 Compliance with Acts of Parliament, regulations and bylaws
- 4.6 Provide the **contractor** with the necessary information to set out the **works**
- 4.7 Acceptance of design by **subcontractors**
- 4.8 Inspect the **works** from time to time and give the **contractor** interpretation and guidance on the standard and state of completion required for **practical completion**
- 4.9 Inspect the **works** for **practical completion**

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- 4.10 Issue the **list for practical completion** and re-inspect upon request of the **contractor**
- 4.11 Inspect the **works** at the end of the **defects** liability period
- 4.12 Issue the **list for final completion** and re-inspect upon request of the **contractor**

5. Electrical engineer

The electrical engineer is responsible for all aspects of electrical engineering design and quality inspection. Without derogating from the generality thereof the electrical engineer will perform the following specific functions and duties in respect of the electrical engineering aspects of the **works**:

- 5.1 Give opinion of aspects of the **works** which are not in accordance with the **agreement**
- 5.2 Supply the specified number of drawings
- 5.3 Issue instructions if **bills of quantities** is to be used as a specification
- 5.4 Receive and accept design documentation undertaken by **subcontractors**
- 5.5 Issue instructions to the **contractor** regarding:
 - 5.5.1 Alteration to design, quality or quantity of the **works** provided that such instructions shall not substantially change the scope of the **works**
 - 5.5.2 Removal of any **materials and goods** from the **site** and the substitution of any **materials and goods** therefor
 - 5.5.3 Removal or re-execution of any work
 - 5.5.4 Opening up of work for inspection
 - 5.5.5 Testing of work and **materials and goods**
 - 5.5.6 Protection of the **works**
 - 5.5.7 Making good physical loss and repairing damage to the **works**
 - 5.5.8 Compliance with Acts of Parliament, regulations and bylaws
- 5.6 Provide the **contractor** with the necessary information to set out the **works**

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- 5.7 Acceptance of design by **subcontractors**
- 5.8 Inspect the **works** from time to time and give the **contractor** interpretation and guidance on the standard and state of completion required for **practical completion**
- 5.9 Inspect the **works** for **practical completion**
- 5.10 Issue the **list for practical completion** and re-inspect upon request of the **contractor**
- 5.11 Inspect the **works** at the end of the **defects** liability period
- 5.12 Issue the **list for final completion** and re-inspect upon request of the **contractor**

6. Health and safety consultant

The health and safety consultant is responsible for all aspects of health and safety. Without derogating from the generality thereof, the health and safety consultant will perform the following specific functions and duties in respect of the health and safety aspects of the **works**:

- 8.1 Act as the client's (**employer's**) agent in terms of Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993
- 8.2 Prepare and update the health and safety specification for the **works**
- 8.3 Agree with the **contractor** the health and safety plan for the **works**
- 8.4 Carry out regular audits to ensure adherence to the safety plan and compliance with the Act and Regulations

22		Fixed (F)	Item
23		Value related (V)	Item
24		Time related (T)	Item
25	Clause 7.0 - Design responsibility		
26		Fixed (F)	Item
27		Value related (V)	Item
28		Time related (T)	Item

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Insurance and security (A8-A11)

29 Clause 8.0 - **Works** risk

30 Fixed (F) Item

31 Value related (V) Item

32 Time related (T) Item

33 Clause 9.0 - Indemnities

34 Fixed (F) Item

35 Value related (V) Item

36 Time related (T) Item

37 Clause 10.0 - Insurances

38 Fixed (F) Item

39 Value related (V) Item

40 Time related (T) Item

41 Clause 11.0 - **Security**

Extension of waiver of lien

The contractor shall ensure that a waiver of lien is included in all subcontracts and that the **works** executed on the **site** are kept free of all liens and other encumbrances at all times [11.10]

42 Fixed (F) Item

43 Value related (V) Item

44 Time related (T) Item

Execution (A12 - A17)

45 Clause 12.0 - Duties of the **parties**

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Preservation of natural features and known services

The contractor is responsible for the preservation of the following:

Work executed by other contractors [12.1.3]
Known services [12.1.3]

The existing electrical supply, sewer and water reticulation must be preserved and special care must be taken as to not disturbing these. Any damages to the existing services and the subsequent repair thereof will be for the account of the **contractor** [12.1.3]

46 **Access to services**

The contractor to note the following:

47 There is currently electricity on **site** and the **contractor** must either arrange for a metered system and re-imburse the **employer** for the electricity used or, alternatively, provide his own electricity for the **works** [12.1.4]. The same applies in connection with the water connection

There is currently a sewer connection on **site** and the **contractor** may arrange with the **employer** for usage of the connection. Alternatively, chemical toilets must be provided by the **contractor** at a rate of one toilet per 20 workers [12.1.4]

Site restrictions

The **contractor** must ensure that the existing structures be screened off by suitable means as this will be occupied and the workforce will not be allowed to access these areas

The **contractor** must allow under this item for any cost associated with restricted access as well as for work to be carried out in restricted areas as no allowance has been made elsewhere in these **bills of quantities** and no further claims in this regard will be entertained [12.1.5]

Enclosure of the works

The **contractor** shall erect, maintain and remove at completion hoardings with gantries, fans, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the **works** and elements thereof, all for the protection of the public and others [12.2.15]

Office accommodation

The **contractor** shall erect, maintain and remove at completion air-conditioned office accommodation with suitable tables and chairs for meetings to be held on the **site**. Such offices shall be kept clean and fit for use at all times [12.2.18]

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Notice board

The **contractor** shall erect in a position approved by the **principal agent**, maintain and remove at completion a notice board as recommended by the South African Institute of Architects listing the names and logos of the **employer**, the **contractor** and the professional consultants. No **subcontractor** or supplier notice boards may be erected [12.2.18]

Geotechnical investigation report

No geotechnical investigation was done

48		Fixed (F)	Item
49		Value related (V)	Item
50		Time related (T)	Item
51	Clause 13.0 - Setting out		

Encroachments

The **contractor** shall notify the **principal agent** if any encroachment of adjoining foundations, buildings, structures, pavements, boundaries, services, etc exist in order that the necessary arrangements may be made for the rectification of any such encroachments [13.2.1]

52		Fixed (F)	Item
53		Value related (V)	Item
54		Time related (T)	Item
55	Clause 14.0 - Nominated subcontractors		
56		Fixed (F)	Item
57		Value related (V)	Item
58		Time related (T)	Item
59	Clause 15.0 - Selected subcontractors		
60		Fixed (F)	Item
61		Value related (V)	Item
62		Time related (T)	Item

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63	<p>Clause 16.0 - Direct contractors</p> <p>Attendance on direct contractors</p> <p>In respect of direct contractors the contractor shall:</p> <ol style="list-style-type: none"> 1. Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials 2. Allow the use of personnel welfare facilities, where provided 3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation 4. Permit the direct contractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right while it remains erected on the site [16.1] 		
64		Fixed (F)	Item
65		Value related (V)	Item
66		Time related (T)	Item
67	<p>Clause 17.0 - Contract instructions</p> <p>Site instructions</p> <p>Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor</p>		
68		Fixed (F)	Item
69		Value related (V)	Item
70		Time related (T)	Item
	<u>Completion (A18 - A24)</u>		
71	Clause 18.0 - Interim completion		
72		Fixed (F)	Item
73		Value related (V)	Item
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74		Time related (T)	Item
75	Clause 19.0 - Practical completion		
	Pre-completion compliance		
	The contractor to note that practical completion will <u>not</u> be done without handing over to the principal agent the necessary electrical, plumbing and other certificates of compliance, any warranties, guarantees, test results, shop drawings, manuals, etc [19.3.1]		
76		Fixed (F)	Item
77		Value related (V)	Item
78		Time related (T)	Item
79	Clause 20.0 - Sectional completion		
80		Fixed (F)	Item
81		Value related (V)	Item
82		Time related (T)	Item
83	Clause 21.0 - Defects liability period and final completion		
84		Fixed (F)	Item
85		Value related (V)	Item
86		Time related (T)	Item
87	Clause 22.0 - Latent defects liability period		
88		Fixed (F)	Item
89		Value related (V)	Item
90		Time related (T)	Item
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91	Clause 23.0 - Revision of date for practical completion		
	Substitution of materials and goods		
	The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8, 23.1 & 2]		
92		Fixed (F)	Item
93		Value related (V)	Item
94		Time related (T)	Item
95	Clause 24.0 - Penalty for late or non-completion		
96		Fixed (F)	Item
97		Value related (V)	Item
98		Time related (T)	Item
	<u>Payment (A25 - A27)</u>		
99	Clause 25.0 - Payment		
	Materials and goods stored off site		
	The inclusion of materials and goods stored off site in the amount authorised for payment shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor , of an approved security [25.3.2]		
	Fluctuations in costs		
	All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor [25.3.4]		
	Prices submitted		
	Where prices are submitted by the contractor or subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the agreement and notwithstanding the fact that such prices may be used in an interim payment certificate , there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion , it shall be in writing		
100		Fixed (F)	Item
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101		Value related (V)	Item
102		Time related (T)	Item
103	Clause 26.0 - Adjustment of the contract value and final account		
	Cost of claims		
	All costs incurred by the contractor in the preparation of claims shall be borne by the contractor		
	The contractor shall review, assess and adjudicate any claims received by him from any subcontractor and thereafter submit same to the principal agent with a recommendation to assist the principal agent in adjudicating the claim [26.6]		
104		Fixed (F)	Item
105		Value related (V)	Item
106		Time related (T)	Item
107	Clause 27.0 - Recovery of expense and/or loss		
108		Fixed (F)	Item
109		Value related (V)	Item
110		Time related (T)	Item
	<u>Suspension and termination (A28 - A29)</u>		
111	Clause 28.0 - Suspension by the contractor		
112		Fixed (F)	Item
113		Value related (V)	Item
114		Time related (T)	Item
115	Clause 29.0 - Termination		
116		Fixed (F)	Item
117		Value related (V)	Item
118		Time related (T)	Item

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	<u>Dispute resolution (A30)</u>		
119	Clause 30.0 - Dispute resolution		
120	Agreement		
	The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties		
121		Fixed (F)	Item
122		Value related (V)	Item
123		Time related (T)	Item
124	Contract data		
	Before submission of his tender the contractor is to complete the tenderer's selection in the contract data		
125		Fixed (F)	Item
126		Value related (V)	Item
127		Time related (T)	Item
	<u>SECTION B: PRELIMINARIES</u>		
	<u>Interpretation (B1)</u>		
128	Clause 1.1 - Definitions		
129		Fixed (F)	Item
130		Value related (V)	Item
131		Time related (T)	Item
132	Clause 1.2 - Interpretation		
133		Fixed (F)	Item
134		Value related (V)	Item
135		Time related (T)	Item
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Documents (B2)

136	Clause 2.1 - Checking of documents		
137		Fixed (F)	Item
138		Value related (V)	Item
139		Time related (T)	Item
140	Clause 2.2 - Provisional bills of quantities		
141		Fixed (F)	Item
142		Value related (V)	Item
143		Time related (T)	Item
144	Clause 2.3 - Availability of construction information		

Budgetary allowances and provisional sums

The **budgetary allowances** and/or **provisional sums** allocated and included in this **agreement** will be separately procured, based on multiple procurement of **subcontractors** during the **construction period**

145		Fixed (F)	Item
146		Value related (V)	Item
147		Time related (T)	Item

Previous work and adjoining properties (B3)

148	Clause 3.1 - Previous work - dimensional accuracy		
149		Fixed (F)	Item
150		Value related (V)	Item
151		Time related (T)	Item
152	Clause 3.2 - Previous work - defects		
153		Fixed (F)	Item
154		Value related (V)	Item

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155		Time related (T)	Item
156	Clause 3.3 - Inspection of adjoining properties		
157		Fixed (F)	Item
158		Value related (V)	Item
159		Time related (T)	Item
<u>Samples, shop drawings and manufacturer's instructions (B4)</u>			
160	Clause 4.1 - Samples of materials		
161		Fixed (F)	Item
162		Value related (V)	Item
163		Time related (T)	Item
164	Clause 4.2 - Workmanship samples		
165		Fixed (F)	Item
166		Value related (V)	Item
167		Time related (T)	Item
168	Clause 4.3 - Shop drawings		
169		Fixed (F)	Item
170		Value related (V)	Item
171		Time related (T)	Item
172	Clause 4.4 - Compliance with manufacturer's instructions		
173		Fixed (F)	Item
174		Value related (V)	Item
175		Time related (T)	Item

Deposits and fees (B5)

176	Clause 5.1 - Deposits and fees		
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177		Fixed (F)	Item
178		Value related (V)	Item
179		Time related (T)	Item
<u>Temporary services (B6)</u>			
180	Clause 6.1 - Water		
181		Fixed (F)	Item
182		Value related (V)	Item
183		Time related (T)	Item
184	Clause 6.2 - Electricity		
185		Fixed (F)	Item
186		Value related (V)	Item
187		Time related (T)	Item
188	Clause 6.3 - Ablution and welfare facilities		
189		Fixed (F)	Item
190		Value related (V)	Item
191		Time related (T)	Item
192	Clause 6.4 - Communication facilities		
193		Fixed (F)	Item
194		Value related (V)	Item
195		Time related (T)	Item

Prime cost amounts (B7)

196 Clause 7.1 - Responsibility for **prime cost amounts**

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- **Pricing of prime cost amounts**

The **contractor** to note that his/her prices for items specified with prime cost amounts must include for all supply and delivery, waste, fixing and installation, profit and attendance, etc as no claim in this regard will afterwards be entertained

197 Fixed (F) Item

198 Value related (V) Item

199 Time related (T) Item

Attendance on subcontractors (B8)

200 Clause 8.1 - General attendance

201 Fixed (F) Item

202 Value related (V) Item

203 Time related (T) Item

204 Clause 8.2 - Special attendance

205 Fixed (F) Item

206 Value related (V) Item

207 Time related (T) Item

General (B9)

208 Clause 9.1 - Protection of the **works**

209 Fixed (F) Item

210 Value related (V) Item

211 Time related (T) Item

212 Clause 9.2 - Protection/isolation of existing/sectionally occupied **works**

213 Fixed (F) Item

214 Value related (V) Item

215 Time related (T) Item

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216	Clause 9.3 - Security of the works		
217		Fixed (F)	Item
218		Value related (V)	Item
219		Time related (T)	Item
220	Clause 9.4 - Notice before covering work		
221		Fixed (F)	Item
222		Value related (V)	Item
223		Time related (T)	Item
224	Clause 9.5 - Disturbance		
225		Fixed (F)	Item
226		Value related (V)	Item
227		Time related (T)	Item
228	Clause 9.6 - Environmental disturbance		

Controlling all forms of pollution

The **contractor** shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution during the **construction period** due *inter alia* to noise, artificial light, wind-blown sand, dust, deposits of mud, etc

The **contractor** is to ensure that all roads which border the **site** and is used by the **contractor** during the execution of the **works** are kept clean and free of any dirt or debris caused by the execution of the **works**

Environmental management plan

The **employer** has prepared an environmental management plan (EMP) and details are available from the **principal agent**

229		Fixed (F)	Item
230		Value related (V)	Item
231		Time related (T)	Item
232	Clause 9.7 - Works cleaning and clearing		

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233		Fixed (F)	Item
234		Value related (V)	Item
235		Time related (T)	Item
236	Clause 9.8 - Vermin		
237		Fixed (F)	Item
238		Value related (V)	Item
239		Time related (T)	Item
240	Clause 9.9 - Overhand work		
241		Fixed (F)	Item
242		Value related (V)	Item
243		Time related (T)	Item
	<u>Schedule (B10)</u>		
244	Information for completion of schedule		
	Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that no specific requirements are expected or that the clause is not relevant to this specific contract		
	10.1 - Provisional bills of quantities [2.2]		
	The quantities are provisional Yes		
	10.2 - Availability of construction information [2.3]		
	Construction documentation is complete: Yes		
	10.3 - Previous work - dimensional accuracy [3.1]		
	10.4 - Previous work - defects [3.2]		
	10.5 - Inspection of adjoining properties [3.3]		
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10.6 - Water [6.1]

- Option A (by **contractor**) Yes
- Option B (by **employer** - free of charge) No
- Option C (by **employer** - metered) No

10.7 - Electricity [6.2]

- Option A (by **contractor**) Yes
- Option B (by **employer** - free of charge) No
- Option C (by **employer** - metered) No

10.8 - Ablution and welfare facilities [6.3]

- Option A (by **contractor**) Yes
- Option B (by **employer**) No

10.9 - Communication facilities [6.4]

10.10 - Protection of the **works** [9.1]

10.11 - Protection/isolation of existing/sectionally occupied **works** [9.2]

Protection/isolation is required Yes

10.12 - Disturbance [9.5]

All work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as they exceed the permissible limitations set by government legislation or the local authority. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the **construction period** or **contract value** whatsoever

10.13 - Environmental disturbance [9.6]

245		Fixed (F)	Item
246		Value related (V)	Item
247		Time related (T)	Item

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SECTION C: SPECIFIC PRELIMINARIES

248 Warranties for materials and workmanship

Where warranties for materials and/or workmanship are called for, the **contractor** shall obtain a written warranty, addressed to the **employer**, from the entity supplying the materials and/or doing the work and shall deliver same to the **principal agent** on the **final completion** of the contract

The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of **final completion** and that any **defects** that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written **notice** to do so

The warranty will not be enforced if the work is damaged by **defects** in the execution of the **works**, in which case the responsibility for replacement shall rest entirely with the **contractor**

249 Fixed (F) Item

250 Value related (V) Item

251 Time related (T) Item

252 Overtime

Should overtime be required to be worked for any reason whatsoever, the costs of such overtime is to be borne by the **contractor** unless the **principal agent** has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the **employer**

253 Fixed (F) Item

254 Value related (V) Item

255 Time related (T) Item

256 Overloading

The **contractor** shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the **works** or temporary works eg scaffolding, etc. The **contractor** shall submit details of his proposed loading, storage, plant erection, etc to the **principal agent** for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the **principal agent's** requirements in connection with the provision of temporary support work, etc. Any damage caused to the **works** by overloading shall be made good by the **contractor** at his sole expense

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257		Fixed (F)	Item
258		Value related (V)	Item
259		Time related (T)	Item
260	Special scaffolding		
<p>The contractor to note that certain work will be carried out at heights of approximately 5m above bearing level. This will be the case in, <i>inter alia</i>, brickwork, roof structure and roof finishes, ceilings, electrical installation, etc. The contractor must price opposite this item for special scaffolding to all applicable trades and/or selected or nominated subcontractors as no further claims in in this regard will be entertained</p>			
261		Fixed (F)	Item
262		Value related (V)	Item
263		Time related (T)	Item

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	<p>SECTION NO 2</p> <p>BUILDING WORK</p> <p>Bill No 1</p> <p>EARTHWORKS</p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>“Hard rock” shall mean granite, quartzitic sandstone or other rock of similar hardness, the removal of which requires drilling, wedging and splitting or the use of explosives</p> <p>“Soft rock” shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact oukclip and material of similar hardness</p> <p>“Earth” shall mean all ground other than that classified as “hard rock” or “soft rock” and shall include made-up ground and any loose stones or pieces of concrete not exceeding 0,03m3 in volume</p> <p><u>Subterranean water</u></p> <p>No subterranean water is expected</p> <p><u>Filling and layer work materials</u></p> <p>References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No 2 Bill No 1 Earthworks New Sub-Station at Senwabarwana</p>			
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Density tests

It will be required from the contractor to execute density tests for monitoring filling at the following minimum frequencies per each filling layer placed:

- **Filling under surface beds, aprons, channels, etc:**
1 Test per 125m² plan area per each 150mm thick layer
- **Filling behind retaining walls:**
1 Tests per each 150mm thick layer per each 15m length of retaining wall

Results of density tests executed are to be submitted to and approval obtained from the principal agent prior commencement of any subsequent fill layers and/or other work

Carting away of excessive and/or unsuitable excavated material

Descriptions for "carting away excessive or unsuitable excavated material from site" shall, unless specifically otherwise described, be deemed to include the loading and hauling of excessive or unsuitable excavated material to a suitable dumping site, which has to be located by the contractor, off the construction site

Soil poisoning

All soil poisoning and insecticide to be applied under a *five year* guarantee by an approved firm of specialists

Casting of concrete floors to start within 24 hours after the application of soil poisoning

Before applying soil poisoning and insecticide the contractor must submit the name and registration number (P number) of the pest control operator to the principal agent

EXCAVATION, FILLING, ETC OTHER THAN BULK

Excavation in earth not exceeding 2m deep

1	Trenches	m3	72
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Excavation in earth exceeding 2m and not exceeding 4m deep

2	Reduced areas under floor for channels and sub-surface slabs	m3	155
	<u>Extra over trench and hole excavations in earth for excavation in</u>		
3	Soft rock	m3	23
4	Hard rock	m3	11
	<u>Extra over all excavations for carting away</u>		
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	200
	<u>Risk of collapse of excavations</u>		
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	193
7	Sides of trench and hole excavations exceeding 1,5m deep	m2	113
	<u>Keeping excavations free of water</u>		
8	Keeping excavations free of all water other than subterranean water		Item
	<u>Earth filling with selected material obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>		
9	Backfilling to trenches, holes, etc	m3	27
	<u>Filling of natural gravel material (G7) supplied by the contractor, compacted to 95% Mod AASHTO density</u>		
10	Under floors, steps, pavings, etc	m3	62
	<u>Approved soilcrete (1:8 mixture) supplied by the contractor, compacted to 95% Mod AASHTO density</u>		
11	Under sub-surface surface beds, floors, etc	m3	58

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Compaction of surfaces

12	Compaction of natural or excavated ground surface under surface beds, etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	155
13	Compaction of natural or excavated ground surface under aprons, ramps, etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	53

WEED KILLERS, INSECTICIDES, ETC

Soil insecticide in accordance with SANS 5859

14	Under floors, etc including forming and poisoning shallow furrows against foundation walls, filling in furrows and ramming	m2	155
15	To bottoms and sides of trenches, reduced levels for channels, holes, etc	m2	449

TESTS

Prescribed tests to determine degree of compaction or other properties of ground or filling

16	"Modified AASHTO Density" test	No	9
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Concrete test cubes

Descriptions and tendered rates for concrete strength test cubes, as required under clause 7, "Tests" of SANS 1200 G, shall be deemed to cater for all the costs of providing cube moulds necessary for the purpose, making, storing and sending thereof to an approved accredited laboratory for testing, paying all charges in connection therewith and for submitting test result reports to Principal Agent

All concrete strength test cubes, each size 150 x 150 x 150mm, shall be prepared in a set of three

It will be required from the Contractor to prepare concrete strength test cube sets for each building at the following minimum frequencies:

- One set of three cubes for every 15m³, or part thereof, of concrete cast per day, or:
- One set of three cubes for each batch of concrete cast per event

All concrete strength test cubes shall be labelled and the identity thereof (ie. date, concrete strength type, position where batch was cast relative to the building and building identity) shall be properly recoded for future reference

Formwork

Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use

The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself

Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described

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Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described

Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the Principal Agent for design reasons. Formwork necessitated by irregularities 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 which is made for in "Earthworks"

Reinforcement

Standard welded steel fabric reinforcement shall be as included in Table 1 of SANS 1024 and shall have 300mm wide laps

The mass of binding wire is not included in the mass of the reinforcement and the cost thereof shall be included in the rates for the reinforcement

Supervision

A competent and experienced foreman shall supervise personally the whole of the concrete construction and pay special attention to:

- The quality, testing and mixing of materials;
- The placing and compaction of concrete;
- The construction and removal of formwork; and
- The sizes and position of the reinforcement

The contractor shall obtain the permission of the principal agent before commencing concreting of foundations, surface beds and reinforced structure

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No inspection, approval, authorisation to proceed, comment or instructions following from such an inspection, or failure of the principal agent to comment on any particular aspect of the work shall be deemed to relieve the contractor in any way from his obligation to ensure through his own supervision that the work is constructed in every way in accordance with the drawings, specifications and conditions of contract, nor relieve him from his obligations to make good any fault or defect, nor shall it be deemed that there is any obligation on the principal agent to inspect all or any part of the works or that such inspection is necessarily complete in every respect

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

20MPa/19mm Concrete

1	Step platforms or ramps	m3	2
2	Aprons	m3	5
3	Extra over concrete aprons for thickening size 50mm deep, 150mm top and tapering to 100mm at bottom including all excavation to 50mm, backfilling, etc.	m	62

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

20MPa/19mm Concrete

4	Strip footings	m3	17
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REINFORCED SUPERSTRUCTURE CONCRETE

25MPa/19mm Concrete

5	Slabs including beams and inverted beams	m3	39
6	Surface beds cast in panels on waterproofing	m3	19
7	Channel surface beds cast in panels on waterproofing	m3	6
8	Sub-surface surface beds to support channel walls	m3	9

TEST CUBES

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<u>Sundries</u>				
9	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith (<u>Provisional</u>)	Sets	6	
<u>CONCRETE SUNDRIES</u>				
<u>Finishing top surfaces of concrete with a wood float</u>				
10	Step platforms or ramps	m2	6	
11	Aprons to falls	m2	47	
12	Sub-surface surface beds	m2	55	
<u>Finishing top surfaces of concrete with a steel float</u>				
13	Surface beds, slabs, etc	m2	309	
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>				
<u>Rough formwork to sides</u>				
14	Edges, risers, ends and reveals to step platforms and ramps exceeding 300mm high or wide	m2	5	
15	Edges, risers, ends and reveals of aprons not exceeding 300mm high or wide	m	62	
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>				
<u>Smooth formwork to sides</u>				
16	Inverted beams above concrete	m2	26	
17	Edges, risers, ends and reveals of surface beds not exceeding 300mm high or wide	m	39	
18	Edges, risers, ends and reveals of channel surface beds not exceeding 300mm high or wide	m	39	
19	Edges, risers, ends and reveals of sub-surface surface beds not exceeding 300mm high or wide	m	43	
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20	Edges, risers, ends and reveals of slabs not exceeding 300mm high or wide	m	77	
	<u>Smooth formwork to soffits</u>			
21	Slabs exceeding 250mm and not exceeding 500mm thick exceeding 3.5m and not exceeding 5m above bearing level	m2	154	
	<u>MOVEMENTS JOINTS</u>			
	<u>Two layers of 375 micron dampproof course in slip joints between horizontal concrete and brick surfaces including cement mortar bed</u>			
22	Not exceeding 300mm wide	m	77	
	<u>Expansion joints with 10mm thick "Sondor Industries Jointex" crosslinked closed cell polyethylene with hinged temporary blocking piece between vertical concrete and glued to brick or concrete surfaces to form</u>			
23	Not exceeding 300mm high to edges of surface beds	m	124	
	<u>Saw cut shrinkage joints</u>			
24	6 x 20mm Saw-cut joints in top of concrete (<u>Provisional</u>)	m	25	
	<u>Vertical construction joints through concrete with 10mm thick "abe dura sheet 40" crosslinked closed cell polyethylene joint filler</u>			
25	Surface beds not exceeding 300mm thick (<u>Provisional</u>)	m	36	
26	Slabs not exceeding 300mm thick (<u>Provisional</u>)	m	57	
	<u>REINFORCEMENT</u>			
	<u>Mild steel reinforcement to structural concrete work</u>			
27	8mm Bars	t	0.44	
	<u>High tensile steel reinforcement to structural concrete work</u>			
28	10mm Diameter bars	t	0.22	
29	12mm Diameter bars	t	3.09	
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	Concrete, Formwork and Reinforcement			
	New Sub-Station at Senwabarwana			

30	16mm Diameter bars	t	0.66
	<u>Fabric reinforcement</u>		
31	Type 500 fabric reinforcement in concrete sub-surface surface beds etc	m2	50
32	Type 617 fabric reinforcement in concrete surface beds etc	m2	124
33	Type 617 fabric reinforcement in concrete channel surface beds etc	m2	31

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 Bill No 2
 Concrete, Formwork and Reinforcement
New Sub-Station at Senwabarwana

Section No 2

Bill No 2

Concrete, Formwork and Reinforcement

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Concrete, Formwork and Reinforcement

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1	One brick walls	m2	118	
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	<p>Section No 2</p> <p>Bill No 3</p> <p>Masonry</p> <p>New Sub-Station at Senwabarwana</p>			

2	One brick walls in duct channels	m2	97
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar in loadbearing walls etc</u>			
3	Half brick linings tied to concrete, including type wall ties	m2	33
4	One brick walls	m2	250
5	220mm Brick-on-edge copings on top of one brick walls	m	68
<u>BRICKWORK SUNDRIES</u>			
<u>Brickwork reinforcement</u>			
6	150mm Wide reinforcement built in horizontally in foundations (<u>Provisional</u>)	m	1 216
7	150mm Wide reinforcement built in horizontally	m	1 643
<u>Prestressed fabricated concrete lintels including necessary temporary supports</u>			
8	75 x 110mm Lintels in lengths not exceeding 3m	m22	

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 Masonry
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Bill No 3

Masonry

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Bill No 3

Masonry

New Sub-Station at Senwabarwana

One layer 500 micron orange polyethylene waterproof sheeting (SANS 952-1985 type A) sealed at laps with PVC self-adhesive tape

3	Under channel duct surface beds	m2	31
4	Vertically between skins of channel duct walls	m2	97
<u>Two coats "a.b.e dura.slurry" bitumen emulsion waterproof coating</u>			
5	On concrete or granolithic duct floors in foundations (Provisional)	m2	23
6	On plastered duct brick walls in foundations (Provisional)	m2	44

WATERPROOFING TO ROOFS ETC

"SikaTop Seal-107 ZA" cementitious waterproofing system comprising two part polymer modified flexible (PMF) waterproofing slurry applied with a brush in two coats

7	On flat roofs	m2	154
8	On tops and sides of inverted beams and walls	m2	29
9	On turn-ups and turn-downs not exceeding 300mm girth	m	77
10	Sealing edges to brickwork or concrete including trowelled mastic bead	m	77
11	Additional membrane 250mm girth at internal and external angles, circular on plan including forming darts as necessary	No	8
12	Dressing and sealing around 110mm PVC-U pipe, including additional membrane, gussets, collars, etc	No	4

One layer 4mm "Derbifum SP4" torch-fusion waterproof membrane sealed to primed surfaces to falls and crossfalls including protection separation sheet laid with 75mm side and 100mm end laps

13	On flat roofs	m2	154
14	On tops and sides of inverted beams and walls	m2	29

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Section No 2

Bill No 4

Waterproofing

New Sub-Station at Senwabarwana

15	On turn-ups and turn-downs not exceeding 300mm girth	m	77
16	Sealing edges to brickwork or concrete including trowelled mastic bead	m	77
17	Additional membrane 250mm girth at internal and external angles, circular on plan including forming darts as necessary	No	8
18	Dressing and sealing around 110mm PVC-U pipe, including additional membrane, gussets, collars, etc	No	4
<p><u>SHEET METAL FLASHINGS, LININGS, COPINGS, ETC</u></p> <p><u>0,6mm Galvanised sheet steel with "Chromadek" silicone polyester finish on one side, with 200mm laps</u></p>			
19	Parapet capping flashing 650mm girth including sealing bottom edges on both sides of walls with mastic in and including grooves in brickwork	m	77
20	Extra over for riveted and sealed angle	No	6
<p><u>WATERSTOPS, SEALING STRIPS, JOINT SEALANTS, ETC</u></p> <p><u>"abe dura kol G HM" two-part grey polysulphide sealing compound including primer, etc</u></p>			
21	10 x 10mm In expansion joints in floors, etc including raking out expansion joint filler as necessary	m	124
22	10 x 20mm In expansion joints in floors, etc including raking out expansion joint filler as necessary	m	93
23	6 x 20mm In saw-cut joints in floors	m25	

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Waterproofing

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Waterproofing

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	BUILDING WORK			
	Bill No 5			
	CARPENTRY AND JOINERY			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)"			
	<u>DOORS, ETC</u>			
	<u>Approved solid chipcore doors to SANS 545, Class MD with concealed hardwood edges and with commercial veneer covering on both sides, hung to steel frames (Exposure Class 3)</u>			
1	40mm Door 813 x 2032mm high	No	4	
2	40mm Purpose made door 786 x 2333mm high	No	3	
3	Extra over door for 400 x 600mm opening for louvre unit (louvre unit elsewhere)	No	3	
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	Section No 2 Bill No 5 Carpentry and Joinery New Sub-Station at Senwabarwana			

Keys

Unless otherwise described locks shall have two keys each

Manufactured by "Dorma"

3	DMWC-SS-008 SS Bathroom/WC deadlock (small case)	No	2
4	D036S SS Euro-profile cylinder sash lock	No	2
5	65mm DDC056501KD NP Five pin euro-profile double cylinder	No	2

HANDLES

Manufactured by "Dorma"

6	SH875 SS Lever handle on rectangular euro-profile backplate with cylinder hole	Pairs	2
7	150 x 19mm DPH301C SS D-shaped back-to-back pull handles on backplates (backplates elsewhere)	Pairs	3
8	170 x 110 x 1.2mm thick DKPSS162 SS backplate prepared for screw fixing	No	3

LETTERS, NAME PLATES, ETC (PROVISIONAL)

2mm Thick stainless steel signage fixed to doors, walls, etc

9	152 x 152mm Pictogram engraved with a male sign	No	1
10	152 x 152mm Pictogram engraved with a female sign	No	1
11	152 x 152mm Pictogram engraved with a fire extinguisher sign	No	6
12	152 x 152mm Pictogram engraved with a left or right hand escape route running man sign	No	3
13	152 x 152mm Pictogram engraved with a red or green down arrow sign	No	6

SUNDRIES

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Bill No 6

Ironmongery

New Sub-Station at Senwabarwana

Manufactured by "Dorma"

14	DHC-SS-013B SS Hat and coat hook	No	2
15	DDS-NP-018 NP door stop plugged	No	7

BATHROOM FITTINGS

"Servest Hygiene Ocean Range"

16	102 x 103 x 208mm High "TR2" (code DIS-TIDYR-001) two roll toilet roll dispenser, plugged	No	2
17	114 x 111 x 267mm High (code DIS-SOAPS-019) soap dispenser, plugged	No	3
18	"Eco" (code DIS-TOWEL-008) folded paper towel dispenser, plugged	No	3
19	"One Piece" (code DIS-BINNS-002) waste receptacle bin, plugged	No	3

"Bathroom Butler"

20	673 x 90 x 48mm Stainless steel towel rail (code 4672POLS), plugged	No	3
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C-M First Aid

21	Epoxy powder coated first aid metal box, 410 x 305 x 130mm including standard school kit equipment, plugged	No	1
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Bill No 6

Ironmongery

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Ironmongery

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Ironmongery

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Item No		Quantity	Rate	Amount
	<p>SECTION NO 2</p> <p>BUILDING WORK</p> <p>Bill No 7</p> <p>METALWORK</p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Primer</u></p> <p>All surfaces of steelwork cleaned and prepared by wire brushing in accordance with SANS 10064 and all surfaces shall be painted with approved factory etch primer to a minimum dry film thickness of 30 micrometres before leaving the workshop of the manufacturer</p> <p>All scratches, chips or blemishes to be made good on site after erection</p> <p>All rates tendered must make provision for this as no claim will afterwards be entertained.</p> <p><u>Descriptions</u></p> <p>No allowance has been made in the mass of steel for rolling margins, rivets, additional materials in welding, decorative or protective treatment nor constructional aids</p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork and concrete</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No 2 Bill No 7 Metalwork New Sub-Station at Senwabarwana</p>			
			R	

Welded joints and intersections

Prices of continuous rails shall include for welded joints in the length and prices of intersections shall include all cutting, mitring, scribing, shaping, etc

Bends, knees, ramps and the like to continuous rails shall be forged and rounded to approved radii

Prices for balustrades, burglar guards and the like shall include for framed and welded joints at intersections

Screws and bolts

Screws and bolts shall be of corresponding metal and colour and heads of screws shall be countersunk. Self-tapping screws shall, unless described otherwise, be used for screwing items to adjoining metalwork. Stainless steel screws shall be used for fixing aluminium

Items fixed to adjoining metalwork with rivets, self-tapping screws, machine screws, etc shall include all necessary drillings

Where bolting is specified, projecting shank ends of bolts shall be cut off flush and left smooth

Sealing of all abutments

All windows, louvres, etc abutting brick or concrete walls, etc to be sealed watertight with an approved silicon sealant along all joints and prices to allow therefore

STEEL MINOR WORK

Corner protectors

1	70 x 70 x 6mm Angle section corner protectors in varying lengths with 40 x 5mm flat section split and fanged lugs each 200mm girth welded on at 500mm centres, including embedding in concrete	kg	191
2	50 x 8mm Flat section bearer bars welded to corner protectors	kg	71

STEEL FLOORS

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Bill No 7
Metalwork

New Sub-Station at Senwabarwana

Floor duct covers

3	Set of two 70 x 70 x 6mm Angle section intermediate bearers welded to flat bar bearers	kg	389
4	"Mentis Rectagrid" type RS40 bitumen dipped grille floors with 50 x 4.5mm bearer bars in 750mm wide unbanded panels (51.70kg/m2) in suitable lengths, spot welded to framing	m2	8

PRESSED STEEL DOOR FRAMES

1,2mm Double rebated frames suitable for one brick walls

5	Frame for door 813 x 2032mm high	No	4
	<u>1,2mm Double rebated frames suitable for one brick walls with three 100mm butt hinges per door leaf</u>		

6	Frame for door 786 x 2333mm high	No	3
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STEEL WINDOWS, DOORS, ETC

Purpose made louvre panels with horizontal louvres with vermin proof mesh backing screwed into and including standard section steel window frames

7	Panel 813 x 813mm high	No	6
8	Panel 1500 x 1458mm high	No	2
9	Panel 1108 x 2366mm high overall consisting of 3mm thick mild steel plate, welded to and including 45 x 45 x 3mm thick angle section framework around edges, the plate cut out twice for and including two 900mm diameter louvres and the angle section framework bolted to walls with twelve M8 x 100mm expansion bolts	No	4

STEEL TRANSFORMER ROOM DOORS AND FRAMES

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"Interlock Systems" heavy duty epoxy powder coated transformer room doors and frames including necessary locksets, emergency panic bolts, sundry ironmongery, etc installed complete

10 Type TDI double door and frame 1600 x 2378mm high overall with 900 x 745mm high louvred ventilation panel with mesh backing and poly screen in each leaf and with frame suitable for and build into one brick wall

No

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Metalwork

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	<p>SECTION NO 2</p> <p>BUILDING WORK</p> <p>Bill No 8</p> <p>PLASTERING</p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preparatory work</u></p> <p>Surfaces shall be clean and free from oil and thoroughly wetted directly before any plastering or other in situ finishes are commenced. Concrete surfaces shall be slushed with a mixture of one part cement and one part coarse sand or otherwise treated to form a proper key. Preparatory coats shall be thoroughly scored and roughened to form a proper key</p> <p><u>Finish</u></p> <p>All coats of paving and plastering shall be executed in one operation without any blemishes</p> <p><u>Skirtings</u></p> <p>Skirtings shall not exceed 25mm thick and shall have a fair edge with arris or rounded external angle at top edge or V-joint to finish flush with plaster and coved or square junction with floor finish</p> <p><u>Plaster</u></p> <p>All plaster, other than skim plaster, shall not be less than 10mm and not more than 20mm thick</p>			
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	<p>Section No 2</p> <p>Bill No 8</p> <p>Plastering</p> <p>New Sub-Station at Senwabarwana</p>			

General

Rates for plastering described as being on walls shall include concrete columns, beams and lintels flush with the face of the wall

Granolithic

Method

The method to be used shall be either the monolithic method or the bonded method

Preparation

For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic

Mix

Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic

Panels

Granolithic shall be laid in panels not exceeding 14m² for monolithic finishes, not exceeding 9,5m² for bonded finishes and not exceeding 6m² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width

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Plastering

New Sub-Station at Senwabarwana

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Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints

Laying

Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels

Bonded granolithic shall be applied to the slab after applying a 1:1 sand- and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels

After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated

Curing, seasoning and protection

Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying

Colour

Coloured granolithic shall be tinted with an approved colouring pigment mixed into the granolithic in the proportion of as specified, of uniform appearance and consistent colour throughout

SCREEDS

Screeds steel trowelled, on concrete

1	30mm Thick on floors and landings	m2	124
2	Average 100mm thick on floors with upper surface to falls and currents	m2	154

GRANOLITHIC

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Untinted granolithic steel floated, on concrete

3	30mm Thick on duct floors (<u>Provisional</u>)	m2	23
4	30mm Thick on treads and risers of step platforms including reedings	m2	11
5	30mm Thick on narrow widths not exceeding 300mm wide in thresholds	m2	1

EPOXY FLOOR FINISHES

All floor coverings are to be executed in strict accordance with the manufacturer's instructions by a firm of specialists

Mechanically prepare screeds to ensure optimum adhesion, repair surfaces where needed by using, prime surfaces with "abe.coat WD377" primer and apply 6mm thick "abe.screed Medium Sea Grey (G24) four component self-levelling, solvent free epoxy screed

6	On cement or granolithic screeds	m2	124
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INTERNAL PLASTER

Cement plaster steel trowelled, on brickwork

7	On walls	m2	319
8	On walls in duct channels (<u>Provisional</u>)	m2	44
9	On narrow widths not exceeding 300mm wide	m2	6

EXTERNAL PLASTER

Cement plaster wood floated, on brickwork

10	On walls	m2	213
11	On walls in foundations (<u>Provisional</u>)	m2	40
12	On narrow widths not exceeding 300mm wide	m2	6
13	Extra over plaster for forming 10mm half-round horizontal grooves	m	261

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New Sub-Station at Senwabarwana

**CORNER PROTECTORS, DIVIDING STRIPS,
ETC**

"Kirk Marketing" dividing strips between floor finishes

14 3 x 25mm "M-Trim BFB250" flat bar brass dividing strip
embedded in screed

m

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1	On walls in isolated panels, splashbacks, etc not exceeding 1m ²	m2	1	
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	Section No 2 Bill No 9 Tiling New Sub-Station at Senwabarwana			

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	<p>SECTION NO 2</p> <p>BUILDING WORK</p> <p>Bill No 10</p> <p>PLUMBING AND DRAINAGE</p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Wire gratings</u></p> <p>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings</p> <p><u>Stormwater channels</u></p> <p>Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site</p> <p><u>French drains</u></p> <p>Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, "?" geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site</p> <p><u>Septic tanks</u></p> <p>Descriptions of proprietary type septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions and disposal of surplus material on site</p>			
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	<p>Section No 2</p> <p>Bill No 10</p> <p>Plumbing and drainage</p> <p>New Sub-Station at Senwabarwana</p>			

Stainless steel basins, sinks, wash troughs, urinals, etc

Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)

Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)

Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

Sealing of edges

Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone

PVC-U pipes and fittings

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

PVC-U pressure pipes and fittings

Pipes of 50mm diameter and smaller shall be plain ended with solvent welded PVC-U loose sockets and fittings

Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be PVC-U and all other fittings shall be cast iron, all with similar push-in type joints

High density polyethylene (HDPE) pipes and fittings

Pipes shall be type IV and of the class specified with compression fittings

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Plumbing and drainage

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Polypropylene pipes

Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings

Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions

Copper pipes

Pipes shall be hard drawn and half-hard pipes of the class described. 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 "P" type. Capillary solder fittings shall comply with ISO 2016

Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition

Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing" and 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

Fixing of pipes

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

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Paper wrapping to pipes

Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings

Disinfection of water pipework

Water pipework is to be disinfected at completion

Petrolatum anti-corrosion tape

Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with 25% overlaps

Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions

Prices for wrapping of pipes shall include for all work as described to couplings in the length

Laying, backfilling, bedding, etc of pipes

Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled

Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001

General

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site

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Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

As-built drawings

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

RAINWATER DISPOSAL

PVC rainwater pipes

1	110mm Pipes, 300mm long, cast through 220mm thick concrete walls	No	4
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SLEEVES FOR ELECTRICAL AND TELEPHONE CABLES ETC

Class 6 PVC-U pipes

2	110mm Pipes, 300mm long, through one brick walls	No	9
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SANITARY FITTINGS

Manufactured by "Vaal Sanitaryware"

3	405 x 510mm "Hibiscus" lavatory basin on brackets bolted to wall	No	3
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4	"Hibiscus code 772654" close-coupled WC suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern	No	2
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WASTE UNIONS ETC

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Supplied by "Itatile"

5	32mm Basin unslotted anti-vandal waste union (code TVAC1033/CH)	No	3
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TRAPS ETC

Manufactured by "Cobra Watertech"

6	32mm Chromum plated bottle trap with 32mm inlet and 50mm outlet for PVC pipe (code 345/50)	No	3
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TAPS, VALVES, ETC

Manufactured by "Cobra Watertech"

7	15mm Isolating ball valve with plastic coated stainless steel lever (code 1090-15) with 350mm long flexible service connection tube and cap nut	No	5
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8	22mm Brass fullway gate valve (1003/125-22)	No	1
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9	15mm Brass hose bibtap (code 108-15)	No	2
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10	15mm Copper wallplate elbow (code D33-XS)	No	2
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11	15mm "Stella" bib tap (code 3309ST-15)	No	3
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SANITARY PLUMBING

PVC-U soil and vent pipes

12	50mm Pipes	m	14
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13	110mm Pipes	m	3
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Extra over PVC-U soil and vent pipes for fittings

14	110mm Pan connector	No	2
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15	50mm Bend	No	7
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16	110mm Bend	No	2
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17	50mm Junction	No	3
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18	50mm Access bend	No	3
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19	110mm Access junction	No	2
20	110mm Two-way vent valve	No	2

Testing

21	Testing waste pipe system		Item
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WATER SUPPLIES

Class 0 copper pipes with capillary couplings

22	15mm Pipes	m	5
23	22mm Pipes	m	26

Extra over Class 0 copper pipes for capillary fittings

24	15mm Fittings	No	20
25	22mm Fittings	No	23

Testing

26	Testing water pipe system		Item
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FIRE APPLIANCES ETC

"Chubb"

27	9Kg dry chemical powder fire extinguisher	No	4
28	9Kg carbon dioxide fire extinguisher	No	2

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	<p>SECTION NO 2</p> <p>BUILDING WORK</p> <p>Bill No 11</p> <p>GLAZING</p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)"</p> <p><u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u></p> <p><u>6mm Silvered float glass copper backed mirrors with polished edges, holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u></p>			
1	Mirror 450 x 600mm high with four screws	No	3	
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	Section No 2 Bill No 11 Glazing New Sub-Station at Senwabarwana			R

Item No		Quantity	Rate	Amount
	<p>SECTION NO 2</p> <p>BUILDING WORK</p> <p>Bill No 12</p> <p>PAINTWORK</p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Paint Specifications</u></p> <p>All painting shall be done in accordance with "Plascon" specifications unless otherwise described</p> <p><u>Colours</u></p> <p>Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards</p> <p><u>PAINTWORK, ETC TO NEW WORK</u></p> <p><u>ON INTERNAL FLOATED PLASTER SURFACES</u></p> <p><u>One coat alkali resistant primer and two coats superior quality PVA emulsion paint for interior and exterior use</u></p>			
1	Walls	m2	479	
2	Walls in foundations (<u>Provisional</u>)	m2	40	
3	Walls ("Deep" colour group)	m2	65	
	<p><u>ON SMOOTH CONCRETE SURFACES</u></p>			
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	<p>Section No 2</p> <p>Bill No 12</p> <p>Paintwork</p> <p>New Sub-Station at Senwabarwana</p>			

One coat bonding liquid, one coat alkali resistant primer and two coats PVA emulsion paint for interior use, including stopping blow holes

4	Ceilings and beams	m2	154
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ON METAL SURFACES

One coat alkyd based zinc phosphate primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on steel

5	Door frames	m2	13
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6	Louvred panels	m2	38
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ON EPOXY FLOORS

Etching primer and two coats reflective road marking paint on epoxy floors

7	Line 100mm wide (<u>Provisional</u>)	m	48
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Bill No 12

Paintwork

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Paintwork

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Paintwork

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SECTION SUMMARY - BUILDING WORK

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- 2 Concrete, Formwork and Reinforcement
- 3 Masonry
- 4 Waterproofing
- 5 Carpentry and Joinery
- 6 Ironmongery
- 7 Metalwork
- 8 Plastering
- 9 Tiling
- 10 Plumbing and drainage
- 11 Glazing
- 12 Paintwork

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	EXTERNAL WORKS			
	Bill No 1			
	GENERAL SITE WORKS			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to this Section</u>			
	The contractor is referred to the previous section(s) for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this section, unless specifically otherwise described			
	<u>SITE CLEARANCE, ETC</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	630	
	<u>Cutting down and removing, grubbing up roots, filling in holes and compacting to 90% Mod AASHTO density</u>			
2	Tree exceeding 200mm and not exceeding 500mm girth	No	3	
3	Tree exceeding 500mm and not exceeding 1000mm girth	No	2	
	<u>LANDSCAPING</u>			
	<u>Well sifted gravel supplied by the contractor, including spreading and levelling, slightly compacted</u>			
4	Covering of 8-16mm gravel stones (no Plantex material)	m2	231	
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	Section No 3 Bill No 1 General Site Works New Sub-Station at Senwabarwana			

Item No		Quantity	Rate	Amount
	<p>SECTION NO 3</p> <p>EXTERNAL WORKS</p> <p>Bill No 2</p> <p>ROADWORK, PARKING AREAS AND PAVING</p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to this Section</u></p> <p>The contractor is referred to the previous section(s) for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this section, unless specifically otherwise described</p> <p><u>Testing of material and filling</u></p> <p>Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series</p> <p><u>Precast concrete block road surfacing</u></p> <p>Paving shall be laid in accordance with SABS 1200 MJ, SANS 1058 and the Concrete Masonry Association's specifications</p> <p>Paving shall be laid on 20mm thick (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere)</p> <p>Clean sand shall be swept into joints between roadstones at completion</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No 3 Bill No 2 Roads, paving, etc New Sub-Station at Senwabarwana</p>			
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Site clearance

Site clearance for parking lots is measured elsewhere

PARKING LOTS

Open face excavation in earth over sloping site

1	Open face excavation to form platforms under parking areas etc and depositing excavated material over site, including haulage not exceeding 50m from perimeter of excavations	m3	70
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Extra over bulk excavation in earth for excavation in

2	Soft rock	m3	14
3	Hard rock	m3	7

Extra over all excavations for carting away

4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	70
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Keeping excavations free of water

5	Keeping excavations free of water other than subterranean water		Item
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Compaction of surfaces

6	Compaction of ground surfaces under pavings etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	199
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Filling supplied by the contractor under parking areas, roadways, etc

7	Subbase course of (G6) natural gravel material, compacted to 95% Mod AASHTO density	m3	30
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8	Base course of (C3) natural gravel material, compacted to 97% Mod AASHTO density	m3	30
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Additional tests required by the principal agent

9	In-situ dry density test in accordance with method A10(b) of TMH1	No	6
10	Maximum dry density and optimum moisture content test in accordance with method A7 of TMH1	No	3
<u>Soil insecticide</u>			
11	Treat sand bed under concrete pavings with an approved insecticide solution at the rate of not less than 2 litre per 1m ²	m2	199
<u>80mm Thick 25MPa precast concrete interlocking block paving of grey paving blocks in accordance with SANS 1058, laid to falls on and including 20mm thick sand layer with joints filled in with sand, compacted with a vibration compactor including filling in edges against kerbs, buildings, etc with approved cemented compound</u>			
12	Paving to parking areas etc to falls, including necessary straight edge blocks	m2	199
<u>25MPa/19mm In-situ concrete edge and restrainer beams</u>			
13	Edge beam 150mm wide x 150mm high overall in lengths not exceeding 3m, bedded 150mm deep into road bed and finished smooth on top with steel float with all external angles rounded, including all necessary excavations, formwork, backfilling, etc.	m	5
<u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing</u>			
14	150 x 300mm High kerbs (SANS 927 fig 3) with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc	m	52
<u>Etching primer and two coats reflective road marking paint on concrete</u>			
15	Line 100mm wide	m	23

ROADWORK AT ENTRANCE

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<u>Site clearance</u>			
16	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	270
<u>Open face excavation in earth over sloping site</u>			
17	Open face excavation to form platforms under parking areas etc and depositing excavated material over site, including haulage not exceeding 50m from perimeter of excavations	m3	81
<u>Extra over bulk excavation in earth for excavation in</u>			
18	Soft rock	m3	14
19	Hard rock	m3	8
<u>Extra over all excavations for carting away</u>			
20	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	81
<u>Keeping excavations free of water</u>			
21	Keeping excavations free of water other than subterranean water		Item
<u>Compaction of surfaces</u>			
22	Compaction of ground surfaces under pavings etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	270
<u>Filling supplied by the contractor under parking areas, roadways, etc</u>			
23	Subbase course of (G7) natural gravel material, compacted to 93% Mod AASHTO density	m3	41
24	Base course of (G6) natural gravel material, compacted to 95% Mod AASHTO density	m3	41
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Additional tests required by the principal agent

25	In-situ dry density test in accordance with method A10(b) of TMH1	No	8
26	Maximum dry density and optimum moisture content test in accordance with method A7 of TMH1	No	5

ACCESS ROAD TO SITE

Site clearance

27	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	8 000
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Cutting down and removing, grubbing up roots, filling in holes and compacting to 90% Mod AASHTO density

28	Tree exceeding 200mm and not exceeding 500mm girth	No	25
29	Tree exceeding 500mm and not exceeding 1000mm girth	No	20
30	Tree exceeding 1000mm and not exceeding 1500mm girth	No	6
31	Tree exceeding 1500mm and not exceeding 2000mm girth	No	4
32	Tree exceeding 2000mm and not exceeding 2500mm girth	No	2
33	Tree exceeding 2500mm and not exceeding 3000mm girth	No	1

Digging up topsoil

34	Digging up topsoil to an average depth of 150mm and preserving for later use or cart away from site, as per instruction from the engineer	m3	1 200
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Cut to fill

35	Cut to sidefill, compacted to 90% Modified AASHTO density	m3	100
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Extra over bulk excavation in earth for excavation in

36	Soft rock	m3	195
37	Hard rock	m3	104
<u>Extra over all excavations for carting away</u>			
38	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	500
<u>Compaction of surfaces</u>			
39	Compaction of ground surfaces of roadbed etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m2	8 000
<u>Filling supplied by the contractor roadways, etc</u>			
40	Subbase course of (G7) natural gravel material, compacted to 93% Mod AASHTO density	m3	800
41	Base course of (G5) natural gravel material, compacted to 93% Mod AASHTO density	m3	800
<u>Additional tests required by the principal agent</u>			
42	In-situ dry density test in accordance with method A10(b) of TMH1	No	25
43	Maximum dry density and optimum moisture content test in accordance with method A7 of TMH1	No	20
<u>25MPa/19mm In-situ concrete edge and restrainer beams</u>			
44	Edge beam 150mm wide x 150mm high overall in lengths not exceeding 3m, bedded 150mm deep into road bed and finished smooth on top with steel float with all external angles rounded, including all necessary excavations, formwork, backfilling, etc.	m	20

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Road signs

45 600mm Diameter "Stop" sign (Code R1), complete with and including 76mm diameter x 2mm tubular section post planted in and including 500 x 500 x 750mm deep 15MPa/19mm mass concrete, including all necessary excavations, formwork, backfilling, etc., post painted with one coat approved etch primer and two coats approved aluminium bitumen paint

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Shop drawings to be submitted to the principal agent prior to fixing for approval

A ten year anti-corrosion guarantee to be provided

The contractor must provide a Certificate of Compliance for material and installation issued by either the manufacturer and/or the civil engineer

Clearing the fence line

The ground surface along the fence line shall be cleared for a width of not less than 1m wide on each side of the fence and shall include for the digging up and removal of rubbish, debris, vegetation, shrubs, bush, trees not exceeding 200mm diameter girth, etc., including levelling of the ground to ensure that the maximum and minimum clearance (as specified hereinafter) between the bottom strand and the ground is not exceeded. Prices for fencing to include for all the above-mentioned

All excessive surface irregularities shall be graded so that the fence will follow the general contour of the ground

The cleared ground shall be kept clean and maintained throughout the construction period

Concrete bases for posts

Concrete bases for posts shall be placed in neatly formed excavations and shall be well rammed below and around the posts. The top of concrete bases shall be at a level of 20mm above ground level

All posts shall be embedded not less than 600mm deep in 15MPa/19mm mass concrete bases with dimensions of not less than 500 x 500 x 600mm high

Gates

Base for sliding gear to consist of 405mm wide x 208mm high 15MPa/19mm mass concrete base with 50 x 3mm thick flat section plate cast in top of base, with 25 x 25 x 3mm thick angle section roller guide rail welded on, guide rail to be provided with suitable end stop at one end

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Drawings

Tenderers are referred to the architect's detail drawing sheets attached/annexed to these bills of quantities

STEEL SECURITY FENCING

Fencing and gates (all as per architect's drawing no. 201 attached to these bills of quantities)

1	Security fence 2400mm high extreme including all posts, bases, excavations, formwork, site clearance, paintwork, etc set-up and installed complete	m	105
2	Sliding gate 5000 x 2100mm high overall including guides, rollers, sliding track, concrete base, end stops, paintwork, etc set-up and installed complete (electric motor elsewhere measured)	No	

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Fencing

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Polypropylene pipes

Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with fast-fuse heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated

Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions

Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron "Supraclamp" running joints

Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured

Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers

Branch tees shall include flanged and bolted joints to branch pipes in addition and for brass compression male iron to copper straight couplers

Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reducers shall be of sufficient overall length to accommodate same

All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions

All pipe diameters are nominal external

uPVC pipes and fittings

Soil, waste and vent pipes and fittings shall be solvent weld jointed

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uPVC class 34 drainage pipes

Filling to trenches for pipes shall consist of a 300mm bedding cradle of selected granular material compacted to 90% Mod AASHTO density, selected blanket fill 200mm in depth compacted in 100mm layers to 90% Mod AASHTO density and selected fill from the excavations compacted in 150mm layers to 93% Mod AASHTO density

uPVC pressure pipes and fittings

Pipes for water supply shall be of the class stated

Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings

Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints

Reducing fittings

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

Exposed concrete surfaces

Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster

Excavations

No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling

"Soft rock" and "hard rock" shall be as defined in "Earthworks"

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Holes for pipes

Holes for pipes, cutting and fitting around pipes, the making good thereof, etc. in brick and/or concrete sidewalls of catch pits, manholes, valve chambers, etc. shall be deemed to be included in descriptions of pipework

Tendered rates must make provision for this as no additional claims in this regard will afterwards be entertained

Testing

Descriptions for the testing of plumbing and drainage installations shall be deemed to cater for all testing apparatus, labour, etc. and shall be done strictly as directed by and in accordance to the principal agent's instructions, including for re-testing after taking out and making good all defective work to his entire satisfaction

SOIL DRAINAGE

Heavy duty (Class 34) PVC-U sewer and drain pipes with sockets and rubber rings to SANS 791 including all excavations, bedding, backfilling, etc

1	50mm Pipes including excavations not exceeding 1m deep	m	2
2	110mm Pipes vertically or ramped to cleaning eyes, etc (no excavation)	m	3
3	110mm Pipes including excavations not exceeding 1m deep	m	28
4	110mm Pipes including excavations exceeding 1m and not exceeding 2m deep	m	10
<u>Extra over heavy duty (Class 34) PVC-U sewer and drain pipes for fittings</u>			
5	50mm Bend	No	1
6	50mm Access junction	No	1
7	110mm Bend	No	7
8	110mm Junction	No	2

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9	110mm Access junction	No	5
10	110 x 50mm Access reducing junction	No	1
<u>uPVC gulleys</u>			
11	110mm Dished gully not exceeding 500mm deep including standard precast concrete surround and uPVC grating	No	1
<u>Sundries</u>			
12	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock	m3	2
13	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock	m3	2
14	Concrete encasing to 110mm horizontal pipes	m	24
15	Concrete encasing to 110mm vertical pipes	m	3
16	Concrete encasing to 110mm vertical bend	No	2
17	300 x 300 x 50mm Precast concrete inspection eye marker slab set in ground	No	5
18	uPVC bent cleaning eye with removable cover jointed to 110mm PVC-U pipe	No	3
19	265 x 265mm x 9kg Type 14A cast iron cover and frame over rodding eye (rodding eye elsewhere), including concrete encasing	No	3
<u>Testing</u>			
20	Testing soil drainage system		Item
<u>The following in septic tank system</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
21	Tank pits	m3	4
<u>Excavation in earth exceeding 2m and not exceeding 4m deep</u>			
22	Tank pits	m3	40

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Extra over trench and hole excavations in earth for excavation

23	Soft rock	m3	6
24	Hard rock	m3	8
<u>Extra over all excavations for carting away</u>			
25	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	44
<u>Risk of collapse of excavations</u>			
26	Sides of pit excavation not exceeding 1,5m deep	m2	10
27	Sides of pit excavation exceeding 1,5m deep	m2	51
<u>Keeping excavations free of water</u>			
28	Keeping excavations free of water		Item
<u>15MPa/19mm unreinforced concrete cast against excavated surfaces</u>			
29	Blinding layer	m3	1
<u>35MPa/19mm reinforced concrete cast against excavated surfaces</u>			
30	Surface beds	m3	4
<u>35MPa/19mm reinforced superstructure concrete</u>			
31	Slabs	m3	3
<u>Test cubes</u>			
32	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith	Sets	2
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
33	Surface beds, slabs, etc	m2	29

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Smooth formwork (degree of accuracy I) to sides

34 Edges, risers, ends and reveals not exceeding 300mm high or wide m 29

Rough formwork (degree of accuracy II) to soffits

35 Slabs propped up not exceeding 1.5m and remove through manhole openings m2 2

36 Slabs propped up exceeding 1.5m and not exceeding 3.5m high and remove through manhole openings m2 10

37 Leave or form 600 x 600mm opening in 200mm thick slab No 4

Mild steel reinforcement to structural concrete work

38 8mm Diameter bars t 0.03

High tensile steel rod reinforcement to structural concrete

39 16mm Diameter bars t 0.05

40 12mm Diameter bars t 0.18

Mesh reinforcement

41 Type 617 fabric reinforcement in concrete surface beds etc m2 13

Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar

42 One brick tank walls m2 55

Brickwork reinforcement

43 150mm Wide reinforcement built in horizontally in foundations m 302

One coat "SikaGard-720" three part epoxy modified cementitious, tixotropic, fine textured mortar applied in strict accordance to the manufacturer's instructions

44 On brick walls m2 55

45 On concrete floors m2 11

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Three coats "SikaGard-63N" two part chemical resistant epoxy modified, tixotropic protective coatings applied in strict accordance to the manufacturer's instructions

46	On brick walls	m2	55
47	On concrete floors	m2	11
<u>Heavy duty (Class 34) PVC-U sewer and drain pipes</u>			
48	110mm Diameter pipes	m	1
49	160mm Diameter pipes	m	2
50	200mm Diameter pipes	m	3
<u>Extra over heavy duty (Class 34) PVC-U sewer and drain pipes for fittings</u>			
51	110mm Junction	No	1
52	160mm Junction	No	2
<u>Covers, etc</u>			
53	600 x 600mm x 124kg SABS 558 Type 8B cast iron double seal manhole cover and frame	No	4
<u>The following in french drain size 10 x 4 x 3.2m deep</u>			
<u>Excavation in earth not exceeding 2 and not exceeding 4m deep</u>			
54	French drain pits	m3	128
<u>Extra over trench and hole excavations in earth for excavation</u>			
55	Soft rock	m3	13
56	Hard rock	m3	6
<u>Extra over all excavations for carting away</u>			
57	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	6

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Risk of collapse of excavations

58	Sides of pit excavation exceeding 1,5m deep	m2	410
	<u>Keeping excavations free of water</u>		
59	Keeping excavations free of water		Item
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>		
60	Backfilling to top of excavations	m3	62
	<u>Stone pitching supplied by the contractor of approximately 20-75mm diameter river stones tightly packed</u>		
61	In pits	m3	60
	<u>"Bidem B3" filter fabric with 200mm laps</u>		
62	Around stone filling in sub-soil french drains	m2	110
	<u>Pitch fibre perforated drain pipes (SANS 921) Class 1 including all excavations, backfilling, bedding, compaction, etc in accordance with SANS 1200</u>		
63	100mm Pipes laid in and including trenches not exceeding 1m deep	m	30
	<u>Extra over pitch fibre pipes for fittings</u>		
64	100mm Stop end	No	3
65	100-110mm Pitch fibre to uPVC adaptor coupling	No	3

WATER SUPPLIES

PN 6.3 (Class 6) HDPE pressure pipes including all excavations, bedding, backfilling, etc

66	25mm Pipes laid in and including trenches not exceeding 1m deep	m	2
67	40mm Pipes laid in and including trenches not exceeding 1m deep	m	6

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68	50mm Pipes laid in and including trenches not exceeding 1m deep	m	22
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Extra over PN 6.3 (Class 6) HDPE pipes for "Plasson" compression fittings

69	25mm Fittings	No	3
70	40mm Elbow	No	2
71	50mm Elbow	No	4
72	40 x 25mm Reducer	No	1
73	50 x 25mm Reducer	No	2
74	25mm Male adaptor	No	3
75	50mm Tee	No	1

Galvanised medium normalized mild steel piping

76	25mm Standpipe, 900mm long, fixed to wall	No	1
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Extra over galvanised piping for galvanised mild steel fittings

77	25mm Fittings	No	4
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Taps, valves, etc

78	25mm "Cobra Watertech" 1002/125-25 fullway gate valve	No	1
79	20mm "Cobra Watertech" 208-20 brass bibtap with hose union	No	1

Sundries

80	225 x 225mm Type 11B cast iron stopcock box to SANS 558 with hinged cover including brick chamber below not exceeding 750mm deep internally and set into and including 375 x 375 x 100mm thick 15MPa/19mm unreinforced concrete surround smooth trowelled with a steel trowel including all excavation, backfilling, etc	No	1
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81	Extra over excavations in earth for water supply trenches, etc for excavating in soft rock	m3	1
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82	Extra over excavations in earth for water supply trenches, etc for excavating in hard rock	m3	1
83	Testing water pipe system		Item
<u>WATER HOLDING TANKS</u>			
<u>The following in 6.5m high (above ground level)galvanised steel support tower and 10 kL galvanised steel segmental tank as Abeco Tanks, Structure Tanks or equal and approved</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
84	Holes	m3	2
<u>Risk of collapse of excavations</u>			
85	Sides of trench and hole excavation exceeding 1,5m deep	m2	10
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site (slightly compacted)</u>			
86	Over site to make up levels	m3	2
<u>Extra over trench and hole excavations in earth for excavation in</u>			
87	Soft rock	m3	1
88	Hard rock	m3	1
<u>15MPa/19mm unreinforced concrete cast against excavated surfaces</u>			
89	Blinding	m3	0.1
<u>25MPa/19mm reinforced concrete cast against excavated surfaces</u>			
90	Bases	m3	2
<u>25MPa/19mm reinforced superstructure concrete</u>			
91	Stub columns	m3	0.1

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	<u>Steel support work for electrical control panel</u>			
103	Steel supports and conduit piping for electrical control box including all necessary excavation, concrete base, piping, supports, etc complete as per drawing 1828/T/23	No	1	
	<u>"JoJo" approved SANS PVC water tanks</u>			
104	10 000 Litre watertank fitted onto and secured to tank platforms	No	1	
	<u>Galvanised medium normalised mild steel piping fixed to tank stand including purpose made clamps, all as per detail on drawing 1828/T/23</u>			
105	40mm Threaded spool pipes, 300mm long	No	1	
106	40mm Threaded spool pipes, 600mm long	No	1	
107	40mm Threaded spool pipes, 6000mm long	No	1	
108	50mm Threaded spool pipes, 150mm long	No	1	
109	50mm Threaded spool pipes, 300mm long	No	2	
110	50mm Threaded spool pipes, 600mm long	No	1	
111	50mm Threaded spool pipes, 3000mm long	No	2	
112	50mm Threaded spool pipes, 6000mm long	No	1	
	<u>Extra over galvanised piping for galvanised mild steel fittings</u>			
113	40mm Elbow	No	4	
114	50mm Elbow	No	5	
115	50mm Union	No	1	
116	50mm Nipple	No	1	
117	50mm Socket	No	1	
	<u>PN 6.3 (Class 6) HDPE pressure pipes fixed to water tanks</u>			
118	40mm Pipes	m	4	
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119 50mm Pipes m 5

Extra over PN 6.3 (Class 6) HDPE pipes for "Plasson" compression fittings

120 40mm Elbow No 3

121 50mm Elbow No 1

122 40mm Male adaptor No 1

123 50mm Male adaptor No 4

124 40 x 25mm Male reducing elbow No 1

125 50 x 25mm Male reducing elbow No 2

Taps, valves, etc

126 50mm "Natco" stainless steel lever operated one-piece threaded ball valve No 1

One coat factory applied red oxide primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel gloss paint, on steel

127 Members of steel tank stands ("Deep" colour group) m2 43

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	<p>SECTION NO 4</p> <p>ELECTRICAL INSTALLATION</p> <p>Bill No 1</p> <p>EXTERNAL ELECTRICAL INSTALLATION</p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to this section</u></p> <p>The contractor is referred to the previous section(s) for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this section, unless specifically otherwise described</p> <p><u>Specification and drawings</u></p> <p>Tenderers are referred to the electrical drawings and/or specifications annexed to these bills of quantities for full descriptions of the project specification, materials to be used, etc</p> <p><u>AREA LIGHTING</u></p> <p><u>"Beka Schreder Bekapole" lighting posts complete with fixed stainless steel baseplate for surface mounting, access door, cable entry opening, miniature circuit breaker, etc mounted in position 600 - 1000mm deep below ground level to and including 550 x 550 x 400mm high 25MPa mass concrete base including all excavations, formwork, hookbolts, nuts, etc</u></p>			
1	Type K 18 76 70 post, 8m long with arm and fitted with and including 2 x 144W LED luminaries	No	4	
	<p><u>LOW TENSION DISTRIBUTION</u></p> <p>Carried to Collection</p> <p>Section No 4 Bill No 1 External Electrical Installation New Sub-Station at Senwabarwana</p>			R

600/1000 V PVC/PVC/SWA/PVC stranded copper conductor laid in trenches (trenches and backfilling elsewhere)

2	6mm ² x 3-core	m	300
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Termination for 600/1000 V PVC/PVC/SWA/PVC copper cables including glands, shrouds, lugs, connections, etc

3	6mm ² x 3-core	No	8
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Bare copper earth conductor installed with cable (cable elsewhere)

4	4mm ²	m	300
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Unplasticised polyvinyl chloride (uPVC) sleeve piping including short lengths and jointing, laid in trench (trenches and backfilling elsewhere)

SLEEVES

5	32mm Diameter pipe	m	6
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EXCAVATIONS, ETC.

Excavate in earth and set excavated material aside for re-use as filling for

6	Cable or sleeve trenches not exceeding 1m deep	m ³	90
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7	Extra over trench excavations in earth for excavations in soft rock	m ³	9
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8	Extra over trench excavations in earth for excavations in hard rock	m ³	5
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9	Selected and approved material from the excavations, in backfilling in trenches, compacted to 90% Modified AASHTO density	m ³	72
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10	Selected and approved sifted sand material supplied by the contractor as bedding under and filling around cables, compacted to specified density	m ³	18
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SUNDRIES

11	PVC cable warning tape placed 150mm above cables in excavations	m	300
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Section No 4

Bill No 1

External Electrical Installation

New Sub-Station at Senwabarwana

12 Concrete cable route markers

No

4

13 Provision of as-built drawings as required by the electrical engineer

Item

14 Test and commission the complete low tension installation and supply a Certificate of Compliance for the complete electrical installation

Item

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Bill No 1

External Electrical Installation

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External Electrical Installation

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Bill No 1

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	<p>SECTION NO 4</p> <p>ELECTRICAL INSTALLATION</p> <p>Bill No 2</p> <p>INTERNAL ELECTRICAL INSTALLATION</p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to this section</u></p> <p>The contractor is referred to the previous section(s) for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this section, unless specifically otherwise described</p> <p><u>Specification and drawings</u></p> <p>Tenderers are referred to the electrical drawings and/or specifications annexed to these bills of quantities for full descriptions of the project specification, materials to be used, etc</p> <p><u>TELEPHONE, DATA AND TV INSTALLATION</u></p> <p><u>Note:</u></p> <p>Outlets for telephone, data and television are inserted on power skirtings and are measured elsewhere</p> <p><u>DISTRIBUTION BOARDS</u></p> <p><u>Distribution boards complete with trays, doors, frames, sub-frames, 20mm softboard backing, etc</u></p>			
1	300 x 300 x 120mm Deep telephone distribution box	No	1	
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	<u>Galvanised steel draw boxes, wall boxes, etc fixed onto conduit including locknuts, bushes, cover plates, etc</u>			
2	100 x 100 x 50mm Flush mounted draw box with cover plate with 10mm hole and grommet for cabling to pass through	No	2	
	<u>CONDUIT, ETC</u>			
	<u>Rigid PVC conduit placed in position for casting in concrete, surface bed or screed, for building or chased into brickwork and for surface mounting in ceiling space including bending, jointing short lengths, couplings, bends, tees, saddles, etc</u>			
3	25mm Diameter	m	8	
	<u>PVC type draw boxes, wall boxes, etc fixed onto conduit including locknuts, bushes, covers, etc</u>			
4	Round conduit box for 25mm diameter conduit	No	2	
	<u>Galvanised steel draw wires drawn into conduit</u>			
5	1,6mm Diameter	m	8	
	<u>SLEEVES</u>			
	<u>uPVC sleeve piping including short lengths and jointing, laid in trenches under floors, chased in walls, built into walls, etc including excavation, backfilling and draw wires</u>			
6	50mm Diameter pipe	m	7	
7	50mm Bend	No	1	
	<u>LOW TENSION DISTRIBUTION</u>			
	<u>DISTRIBUTION BOARDS</u>			
	<u>DB (GFP) DB-1</u>			
8	Flush mounted distribution board (5kA fault level) with doors, 60A tripple pole and neutral bars, three earth bars, one by-pass switch for photo-electric cell, space for the following equipment and space for 20% additional spare capacity, colour coded and installed inside main distribution cupboard, all as per drawings and specification annexed	No	1	
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9	60A Triple pole MCCB	No	1
10	0 - 100A Combined maximum demand and indicating type ammeter	No	1
11	Voltmeter selector switch and set of HRC fuses	No	1
12	0 - 400V Voltmeter	No	1
13	20A Single pole isolator	No	2
14	5A Single pole MCB	No	2
15	15A Single pole MCB	No	6
16	20A Single pole MCB	No	6
17	30A Single pole MCB	No	2
18	40A Single pole MCB	No	3
19	60A Double pole earth leakage unit (30mA) without overload protection	No	1
20	5A Class 2 double pole surge arrestor	No	1

SLEEVES, ETC

uPVC sleeve piping including short lengths and jointing, laid in trenches under floors, chased in walls, built into walls, etc including excavation, backfilling and draw wires

21	50mm Diameter pipe	m	7
22	50mm Bend	No	1

LIGHTING AND POWER

CONDUIT, ETC

Rigid PVC conduit placed in position for casting in concrete, surface bed or screed, for building or chased into brickwork and for surface mounting in ceiling space including bending, jointing short lengths, couplings, bends, tees, saddles, etc

23	20mm Diameter	m	283
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24	25mm Diameter	m	28
<u>PVC type draw boxes, wall boxes, etc fixed onto conduit including locknuts, bushes, covers, etc</u>			
25	Round conduit box for 20mm diameter conduit	No	44
26	Round conduit box for 25mm diameter conduit	No	6
<u>Galvanised steel draw boxes, wall boxes, etc fixed onto conduit including locknuts, bushes, cover plates, etc</u>			
27	100 x 50 x 50mm Deep box	No	7
28	100 x 100 x 50mm Deep box	No	6
<u>CONDUCTORS, ETC</u>			
<u>PVC insulated stranded copper conductors drawn into conduit, trunking or power skirting</u>			
29	2.5mm ²	m	849
30	4mm ²	m	84
<u>Bare copper conductors drawn into conduit, trunking or power skirting</u>			
31	2.5mm ²	m	283
32	4mm ²	m	28
<u>DRAW WIRES</u>			
<u>Galvanised steel draw wires drawn into conduit</u>			
33	1,6mm Diameter	m	311
<u>LIGHT SWITCHES, ETC</u>			
<u>Light switches, etc complete with cover plate fixed in galvanised draw boxes (draw boxes elsewhere)</u>			
34	16A Flush mounted one lever one-way switch unit	No	5
35	16A Flush mounted one lever two-way switch unit	No	2
36	16A Photo cell mounted on external wall	No	2

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SOCKET OUTLETS, ETC

Socket outlets, isolator outlets, etc complete with cover plates fixed to galvanised draw boxes (draw boxes elsewhere)

37	16A Flush mounted three pin double switched socket outlet	No	6
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LUMINAIRES

All luminaires shall bear the SANS 60598-2-1 or 5 safety mark. Luminaires shall have the degree of protection that complies with SANS 60598-1 and all IP rated lamp compartments shall have the IP rating certified by a SANS Test Report

Luminaires or equipment complete with lamps, control gear, connections, etc mounted in position

38	Round wall mounted external watertight bulkhead luminaire fitted with 2 x 18W lamps	No	10
39	Decorative ceiling mounted internal watertight bulkhead luminaire fitted with 1 x 18W lamp	No	4
40	Ceiling mounted fluorescent luminaire, 1200mm long fitted with 2 x 36W T8 lamps and vapour proof electronic ballast	No	14
41	430 x 250mm long emergency signage luminaire fitted with 1 x PL9 lamp	No	4
42	Motion sensor luminaire including all accessories	No	2

TESTS, ETC

Testing and commissioning

43	Testing and commissioning the electrical installation and issuing of Certificate of Compliance		Item
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	<p>SECTION NO 4</p> <p>ELECTRICAL INSTALLATION</p> <p>Bill No 3</p> <p>LIGHTNING PROTECTION</p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to this section</u></p> <p>The contractor is referred to the previous section(s) for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this section, unless specifically otherwise described</p> <p><u>Specification and drawings</u></p> <p>Tenderers are referred to the electrical drawings and/or specifications annexed to these bills of quantities for full descriptions of the project specification, materials to be used, etc</p> <p><u>Design and installation</u></p> <p>The lightning protection system to be designed and installed by a firm of specialists in accordance with SANS Code of Practice 10313 (2012) in conjunction with SANS 62305-1-2-3-4 (2010) as well as SANS 10199 (2016), SANS 1063 (2015) and SANS 62561 1-7 (2013)</p> <p><u>Prices</u></p> <p>Prices to include for as-built drawings showing all air terminations, down- and earth termination positions, etc all in compliance with SANS and IEC Standards</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No 4 Bill No 3 Earthing New Sub-Station at Senwabarwana</p>			
			R	

Prices to further include for soil resistivity tests and the issue of a final resistance test certificate (Certificate of Compliance) upon completion of the work

The Tenderer to ensure that prices include for the above-mentioned as no further claims in this regard will be entertained

LIGHTNING PROTECTION

"H.H.K." Earthing and lightning protection systems

- 1 Lightning protection to sub-station building installed complete by a firm of specialists

Item

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Earthing

New Sub-Station at Senwabarwana

Section No 4

Bill No 3

Earthing

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Earthing

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Item No		Quantity	Rate	Amount
	<p>SECTION NO 4</p> <p>ELECTRICAL INSTALLATION</p> <p>Bill No 4</p> <p>CCTV INSTALLATION</p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>The contractor is referred to the previous section(s) for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this section, unless specifically otherwise described</p> <p><u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to this section</u></p> <p><u>Specification and drawings</u></p> <p>Tenderers are referred to the electrical drawings and/or specifications annexed to these bills of quantities for full descriptions of the project specification, materials to be used, etc</p> <p><u>CCTV INSTALLATION</u></p> <p><u>CCTV installation systems</u></p> <p>Please refer to Section 6, Provisional Sums, for the allocation of CCTV installations</p> <p><u>ELECTRICAL INSTALLATION FOR CCTV SYSTEM</u></p>			
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	<p>Section No 4</p> <p>Bill No 4</p> <p>CCTV installation</p> <p>New Sub-Station at Senwabarwana</p>			

Rigid PVC conduit placed in position for casting in concrete, surface bed or screed, for building or chased into brickwork and for surface mounting in ceiling space including bending, jointing short lengths, couplings, bends, tees, saddles, draw wires, etc

1 25mm Diameter m 86

PVC type draw boxes, wall boxes, etc fixed onto conduit including locknuts, bushes, covers, etc

2 Round conduit box for 25mm diameter conduit No14

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CCTV installation
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CCTV installation

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CCTV installation

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SECTION SUMMARY - ELECTRICAL INSTALLATION

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- 2 Internal Electrical Installation
- 3 Earthing
- 4 CCTV installation

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Item No		Quantity	Rate	Amount
	<p>SECTION NO 5</p> <p>MECHANICAL INSTALLATION</p> <p>Bill No 1</p> <p>HVAC INSTALLATION</p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to this section</u></p> <p>The contractor is referred to the previous section(s) for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this section, unless specifically otherwise described</p> <p><u>Specification and drawings</u></p> <p>Tenderers are referred to the mechanical drawings and/or specifications annexed to these bills of quantities for full descriptions of the project specification, materials to be used, etc</p> <p><u>Air diffusion</u></p> <p>Descriptions of air terminals, grilles, louvres and the like shall be deemed to include necks, frames, supports and flexible connections</p> <p><u>Fans</u></p> <p>Descriptions of fan assemblies shall be deemed to include supports from the structure, flexible or other connections to ductwork, vibration isolation mountings and airtight inspection doors</p>			
	Carried to Collection		R	
	<p>Section No 5</p> <p>Bill No 1</p> <p>HVAC Installation</p> <p>New Sub-Station at Senwabarwana</p>			

Sound attenuators

Descriptions of sound attenuators shall be deemed to include flanged or flexible connections to ducts and supports from the structure

Fan coil units, fan air terminals and fan heaters

Descriptions of fan coil units, fan air terminals and fan heaters shall be deemed to include connection points for water, air and electrical supply, for air grilles, dust trays, condensate trays and vibration isolation mountings. Flexible ducts, flexible hose and connecting cables for connecting these units to each other or to water pipes and electrical supply are separately measured

Major equipment

Descriptions of major equipment such as chillers, air handling units and the like shall be deemed to include connections to water, air and electrical supply and/or discharge points, supports, bearers, vibration insulation mountings, filters, insulation, inspection ladders and gangways, access doors and panels and painting etc as specified

Piping

Pipe diameters are nominal internal unless otherwise stated

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 diameter 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 diameters are given and no claim for extra bushes, reducers, etc will be entertained

Fixing of pipes

Unless 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

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Insulation

Descriptions of insulation shall be deemed to include priming the pipes with zinc chromate primer before the insulation is applied, painting the insulation when completed and applying vapour barrier where specified

AIR CONDITIONING INSTALLATION

"Samsung" air-conditioning split units complete with interconnecting piping, valves, wiring, gas, R410 refrigerant, mounting brackets, etc installed complete (electrical installation elsewhere measured)

1	3.5kW(12000 BTU/hr) Inverter type heat pump mid wall split air conditioner fitted to wall including refrigerant piping, insulation, digital thermometer with alarm, connection to electrical supply and condensate drainage complete	No	3
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VENTILATION INSTALLATION

Fans

2	250mm Diameter extract fan 120 litres/second	No	4
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HAND DRYERS

Supply, install and connect hand dryers as per specification

3	Hand dryer and accessories	No	2
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DIFFUSERS, GRILLES, ETC

Anodised aluminium door grilles

4	400 x 600mm Door grille	No	3
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ELECTRICAL INSTALLATION FOR HVAC SYSTEMS

Rigid PVC conduit placed in position for casting in concrete, surface bed or screed, for building or chased into brickwork and for surface mounting in ceiling space including bending, jointing short lengths, couplings, bends, tees, saddles, etc

5	25mm Diameter	m	96
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New Sub-Station at Senwabarwana

PVC type draw boxes, wall boxes, etc fixed onto conduit including locknuts, bushes, covers, etc

6 Round conduit box for 25mm diameter conduit No 16

Galvanised steel draw boxes, wall boxes, etc fixed onto conduit including locknuts, bushes, cover plates, etc

7 100 x 100 x 50mm Deep box No 9

PVC insulated stranded copper conductors drawn into conduit, trunking or power skirting

8 4mm² m 288

Bare copper conductors drawn into conduit, trunking or power skirting

9 2.5mm² m 64

10 4mm² m 32

Galvanised steel draw wires drawn into conduit

11 1,6mm Diameter m 96

Isolator switches complete including outlet box, cover plate fixed to outlet box, connections to conduit and wiring, etc

12 30A, 230V Three phase single pole isolator for handdryers No 2

13 30A, 230V Three phase single pole isolator for 120l/s extractor fans No 4

14 40A, 230V Three phase single pole isolator for HVAC installation No 3

TESTS, ETC

Testing and commissioning

15 Testing and commissioning the HVAC installation Item

Manuals, drawings, etc

16 Provision of as-built drawings, manuals, operative training, etc Item

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New Sub-Station at Senwabarwana

Certificates of Compliance

17 Allow for the issue of all Certificates of Compliance as directed by the principal agent

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	<p>SECTION NO 6</p> <p>Bill No 1</p> <p>PROVISIONAL SUMS</p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>General</u></p> <p>Provisional sums are for material and equipment supplied and installed complete by firms of specialists</p> <p><u>Profit</u></p> <p>Where stated, the contractor may allow for profit if required</p> <p><u>General attendance on nominated/selected subcontractors</u></p> <p>The item "attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors the contractor's duties as described in clause 12.2 of the JBCC N/S Subcontract Agreement</p> <p><u>Builder's work</u></p> <p>Builder's work in connection with specialist services is given elsewhere in these bills of quantities</p>			
	Carried to Collection		R	
	<p>Section No 6</p> <p>Bill No 1</p> <p>Provisional Sums</p> <p>New Sub-Station at Senwabarwana</p>			

Selected and nominated sub-contracts

The appointed contractor will, as soon as possible after appointment, provide the principal agent with a list of at least three nominated/selected sub-contractors for each part of the work scheduled below. The principal agent may add or remove sub-contractors from the list whereafter tender documents will be issued or quotations obtained

In certain instances, the employer have preferred specialist sub-contractors and the principal contractor must include these sub-contractors in his list of tenderers. Tender documents will be prepared by the principal agent

The canopy installation will be executed by a specialist sub-contractor used on all projects by the employer. The principal contractor will appoint the canopy contractor as a nominated or selected sub-contractor. No allowance is made for profit or attendance as this sub-contractor may be seen as a direct contractor and any profit or attendance must be priced for under the Preliminaries

**PROVISIONAL SUMS FOR
NOMINATED/SELECTED
SUBCONTRACT WORKS**

Signage

- 1 Provide the amount of R20,000.00 (Twenty thousand Rand) for signage
- 2 Allow for profit on above if required
- 3 Allow for attendance

Item	20 000.00
Item	
Item	

Alarm system

- 4 Provide the amount of R100,000.00 (One hundred thousand Rand) for the complete alarm installation
- 5 Allow for profit on above if required
- 6 Allow for attendance

Item	100 000.00
Item	
Item	

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New Sub-Station at Senwabarwana

CCTV installation

7 Provide the amount of R100,000.00 (One hundred thousand Rand) for the complete CCTV installation (electrical installation elsewhere)

Item 100 000.00

8 Allow for profit on above if required

Item

9 Allow for attendance

Item

Electric fencing

10 Provide the amount of R50,000.00 (Fifty thousand Rand) for the complete electrical fencing installation including connection to electrical supply

Item 50 000.00

11 Allow for profit on above if required

Item

12 Allow for attendance

Item

Borehole and pump installation

13 Provide the amount of R200,000.00 (Two hundred thousand Rand) for the drilling and equipment of borehole including necessary pumps, cages, electrical installation, connection to water supply piping, etc

Item 200 000.00

14 Allow for profit on above if required

Item

15 Allow for attendance

Item

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FINAL SUMMARY

Section No

- 1 PRELIMINARIES
- 2 BUILDING WORK
- 3 EXTERNAL WORK
- 4 ELECTRICAL INSTALLATION
- 5 MECHANICAL INSTALLATION
- 6 PROVISIONAL SUMS

SUB-TOTAL

Budgetary allowances

Allow the amount of R300,000 (Three hundred thousand Rand) for contingencies to be used as directed by the principal agent and deducted in whole or in part if not required

NET TENDER AMOUNT

Value Added Tax (15%)

TOTAL CARRIED TO FORM OF OFFER
AND ACCEPTANCE

New Sub-Station at Senwabarwana

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Amount

Item

R

300 000.00

R

R

BLOUBERG MUNICIPALITY

C3 Scope of Work

1 DESCRIPTION OF THE WORKS

1.1 EMPLOYER'S OBJECTIVES

- The project to be completed within reasonable budget and program.
- The tasks must be done in line with Municipality standards, SANS or IEC.
- The employer's objectives are to deliver public infrastructure using labour intensive methods.

1.2 OVERVIEW OF THE WORKS

1. BUILDING WORKS

- Construction of a new Senwabarwana sub- station building.
- Perimeter fence.
- Gravel access road to the site
- Electrical and Mechanical installation
- Drilling and equipping of borehole
- External works

1.3 EXTENT OF THE WORKS

As stated in item 1.2 above.

1.4 LOCATION OF THE WORKS

- +- 5KM East of Blouberg municipal offices.

1 TEMPORARY WORKS

Contractor's offices, storage sheds, latrines, barricading of Works shall be located in an approved position and subject to the approval of all authorities concerned. Safety & Security of the contractor's temporary works shall be to his own discretion. The safety of the Employer and Engineer's staff will also be the responsibility of the Main Contractor. All reasonable steps should be taken to ensure the safety of all persons on site.

2 DRAWINGS

Layout drawings are included in the Bid document. The drawings are issued for bid purposes only. Construction drawings will be issued to the successful Bidder at the site hand over meeting.

3 Procurement

3.1 Preferential procurement procedures

The works shall be executed in accordance with the conditions attached to preferences granted in accordance with the preferencing schedule.

3.2 Scope of mandatory subcontract work

The following portions of the works shall be subcontracted to CIDB registered contractors in accordance with the subcontracting procedures described hereunder.

Competitive bidders shall be invited in respect of each of the above portions of the works in accordance with the relevant provisions of the latest edition of the CIDB Standard for Uniformity in Construction Procurement. The Contract Data in the associated procurement documents shall be based on the use of BIFSA Non-Nominated Subcontract for use with the JBCC Series 2000 Principal Building Agreement / CIDB Standard subcontract (labour only) / JBCC Series 2000 Nominated / Selected Subcontract Agreement / SAFCEC General conditions of subcontract (2003 edition) (select appropriate option) / NEC Engineering and Construction Subcontract / NEC Engineering and Construction Short Subcontract with minimal project specific variations and amendments that do not change their intended usage.

The Employer together with the Contractor shall evaluate the tenders received in accordance with the provisions of the Standard Conditions of Tender contained in Annex F of Standard for Uniformity in Construction Procurement. The evaluation panel shall comprise equal representatives from the Employer and from the Contractor.

The Contractor shall without delay enter into contract with the successful tendering subcontractor based on their accepted tender submission. The Contractor shall remain

responsible for providing the subcontracted portion of the works as if the work had not been subcontracted.

4 CONSTRUCTION

4.1 APPLICABLE NATIONAL AND INTERNATIONAL STANDARDS

Refer to the Technical Specifications in Annexure 1

4.1 PARTICULAR / GENERIC SPECIFICATIONS

Refer to the Technical Specifications in Annexure 1

4.2 Particular Generic Specifications

4.2.1 Transportation of labourers

The labour employed on this contract shall be local labour, hence there should be no need for transportation of labourers to site.

4.2.2 Training

The Contractor shall undertake the training of the labourers. The training shall be a day long and shall cover the key features of the electrical installation. In addition, the course shall cover the health and safety issues to be observed by all labourers for the duration of the project. At the end of the project the Contractor shall issue certificates to all deserving labourers.

The SMME's will also be trained under this project. Their training will be 1 month and will be straight after appointment by the Main Contractor. This training should be taken into consideration when the Main Contractor compiles the construction programme.

Provision should be made for further training by a SETA certified training facilitator. This training will be 2 days for every 22 days work done by the labourers. Payment for the training time of the labourers and training will be made from a provisional sum. The Contractor should provide the names of trainers, proposed courses and names of the labourers to attend the training to the Engineer for approval.

4.2.3 EPWP labour intensive specification

4.2.3.1 Special Project Specification

As much as is economically feasible all work shall be implemented by employing Labour Intensive Construction methods. Over and above the normal Building and Allied works to be implemented by employing skilled and unskilled labour the works specified in the "Guidelines for the Implementation of Labour-Intensive Infrastructure Projects under the

Expanded Public Works Programme (EPWP)" shall be undertaken using Labour Intensive Construction methods.

Employer's objectives

The employer's objectives are to deliver public infrastructure using labour intensive methods.

Labour-intensive works

Labour-intensive works comprise the activities described in SANS 1921-5, Earthworks activities which are to be performed by hand, and its associated specification data . Such works shall be constructed using local workers who are temporarily employed in terms of this Scope of Work.

4.2.3.2 Labour intensive competencies of supervisory and management staff

Contractors having a CIDB contractor grading designation of **5GB** and higher shall only engage supervisory and management staff in labour intensive works who have either completed, or for the period 1 April 2004 to 30 June 2006, are registered for training towards, the skills programme outlined in Table 1.

The managing principal of the contractor, namely, a sole proprietor, the senior partner, the managing director or managing member of a close corporation, as relevant, having a contractor grading designation of 6EP shall have personally completed, or for the period 1 April 2004 to 30 June 2006 be registered on a skills programme for the NQF level 2. All other site supervisory staff in the employ of such contractors must have completed, or for the period 1 April 2004 to 30 June 2006 be registered on a skills programme for, the NQF level 2 unit standards or NQF level 4 unit standards.

Table 1: Skills programme for supervisory and management staff

Personnel	NQF level	Unit standard titles	Skills programme description
Team leader / supervisor	2	Apply Labour Intensive Construction Systems and Techniques to Work Activities	This unit standard must be completed, and any one of these 3 unit standards
		Use Labour Intensive Construction Methods to Construct and Maintain Roads and Storm water Drainage	
		Use Labour Intensive Construction Methods to Construct and Maintain Water and Sanitation Services	
		Use Labour Intensive Construction Methods to Construct, Repair and Maintain Structures	
Foreman/ supervisor	4	Implement labour Intensive Construction Systems and Techniques	This unit standard must be completed, and any one of these 3 unit standards
		Use Labour Intensive Construction Methods to Construct and Maintain Roads and Storm water Drainage	
		Use Labour Intensive Construction Methods to Construct and Maintain Water and Sanitation Services	
		Use Labour Intensive Construction Methods to Construct, Repair and Maintain Structures	
Site Agent / Manager (i.e the	5	Manage Labour Intensive Construction Processes	Skills Programme against this single unit standard

contractor's most senior representative that is resident on the site)			
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4.2.4 Employment of Unskilled and Semi-Skilled workers in Labour-Intensive Works

4.2.4.1 Requirements for the sourcing and engagement of labour.

4.2.4.1.1 Unskilled and semi-skilled labour required for the execution of all labour intensive works shall be engaged strictly in accordance with prevailing legislation and SANS 1914-5, Participation of Targeted Labour.

4.2.4.1.2 The rate of pay set for the SPWP is R per task or per day.

4.2.4.1.3 Tasks established by the contractor must be such that:

the average worker completes 5 tasks per week in 40 hours or less; and
the weakest worker completes 5 tasks per week in 55 hours or less.

4.2.4.1.4 The contractor must revise the time taken to complete a task whenever it is established that the time taken to complete a weekly task is not within the requirements of 4.2.1.3.

4.2.4.1.5 The Contractor shall, through all available community structures, inform the local community of the labour intensive works and the employment opportunities presented thereby. Preference must be given to people with previous practical experience in construction and / or who come from households:

- a) where the head of the household has less than a primary school education;
- b) that have less than one full time person earning an income; where subsistence agriculture is the source of income.
- d) those who are not in receipt of any social security pension income

4.2.4.1.6 The Contractor shall endeavour to ensure that the expenditure on the employment of temporary workers is in the following proportions:

- a) 60 % women;
- b) 20% youth who are between the ages of 18 and 25; and
- c) 2% on persons with disabilities.

4.2.5 Specific provisions pertaining to SANS 1914-5

4.2.5.1 Definitions

Targeted labour: Unemployed persons who are employed as local labour on the project.

4.2.5.2 Contract participation goals

4.2.5.2.1 There is no specified contract participation goal for the contract. The contract participation goal shall be measured in the performance of the contract to enable the employment provided to targeted labour to be quantified.

4.2.5.2.2 The wages and allowances used to calculate the contract participation goal shall, with respect to both time-rated and task rated workers, comprise all wages paid and any training allowance paid in respect of agreed training programmes.

4.2.5.3 Terms and conditions for the engagement of targeted labour

Further to the provisions of clause 3.3.2 of SANS 1914-5, written contracts shall be entered into with targeted labour.

4.2.5.4 Variations to SANS 1914-5

4.2.5.4.1 The definition for net amount shall be amended as follows:

Financial value of the contract upon completion, exclusive of any value added tax or sales tax which the law requires the employer to pay the contractor.

4.2.5.4.2 The schedule referred to in 5.2 shall in addition reflect the status of targeted labour as women, youth and persons with disabilities and the number of days of formal training provided to targeted labour.

4.2.5.5 Training of targeted labour

4.2.5.5.1 The contractor shall provide all the necessary on-the-job training to targeted labour to enable such labour to master the basic work techniques required to undertake the work in accordance with the requirements of the contract in a manner that does not compromise worker health and safety.

4.2.5.5.2 The cost of the formal training of targeted labour, will be funded by the provincial office of the Department of Labour. This training should take place as close to the project site as practically possible. The contractor, must access this training by informing the relevant provincial office of the Department of Labour in writing, within 14 days of being awarded the contract, of the likely number of persons that will undergo training and when such training is required. The employer must be furnished with a copy of this request.

4.2.5.5.3 A copy of this training request made by the contractor to the DOL provincial office must also be faxed to the EPWP Training Director in the Department of Public Works– Cinderella Makunike, Fax Number 012 328 6820 or email cinderella.makunike@dpw.gov.za Tel: 083 677 4026.

4.2.5.5.4 The contractor shall be responsible for scheduling the training of workers and shall take all reasonable steps to ensure that each beneficiary is provided with a minimum of six (6) days of formal training if he/she is employed for 3 months or less and a minimum of ten (10) days if he she is employed for 4 months or more.

4.2.5.5.5 The contractor shall do nothing to dissuade targeted labour from participating in training programmes.

4.2.5.5.4 An allowance equal to 100% of the task rate or daily rate shall be paid by the contractor to workers who attend formal training, in terms of 4.2.2.2.5.4 above.

4.2.5.5.5 Proof of compliance with the requirements of 4.2.2.2.5.2 to 4.2.2.2.5.6 must be provided by the Contractor to the Employer prior to submission of the final payment certificate.

4.4 CERTIFICATION BY RECOGNIZED BODIES

Refer to the Supplementary Specifications in Annexure 1

4.5 PLANT AND MATERIALS PROVIDED BY THE EMPLOYER

None

4.6 SERVICES AND FACILITIES PROVIDED BY THE EMPLOYER

There are no services that will be provided by the client.

5 MANAGEMENT

5.1 APPLICABLE SANS 1921 STANDARDS

The following parts of SANS 1921 Construction works standards and associated specification data are applicable to the works:

- 2) SANS 1921-1

The abovementioned South African National Standards make several references to the Specification Data for data, provisions and variations that make these standards applicable to this contract. The Specification Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and these standards.

Each item of Specification Data given below is cross-referenced to the clause in the standard to which it mainly applies.

The associated Specification Data is as follows:

SANS 1921-1, Construction and management requirements for works contracts – Part 1: General engineering and construction works	
Clause	Specification data
Essential data	
4.1.7	There are no requirements for drawings, information and calculations for which the contractor is responsible
4.2.1	The responsibility strategy assigned to the contractor for the works is A.
4.2.2	The structural engineer is N/A
4.3.1	The planning, programme and method statements are to comply with the following: 1)..... 2)..... 3)..... State requirements for format of programme, level of detail, critical path activities and their dependencies, frequency of updating, etc., if not provided in the contract data. Provide particulars of phased completion, programme constraints, milestone dates for completion, etc., as necessary. State requirements for sequencing, as required.

	State any requirements for software for programmes.
4.3.3	The notice period for inspection is Days
4.7.3	The over break allowances for blasting are provided for in the scope of work. <i>(Compiler to include the above if appropriate or specify the over break allowances if not provided elsewhere)</i>
4.9.3	The trees and shrubs which are not to be disturbed are identified in the scope of work.
4.12.2	The samples of materials, workmanship and finishes that the contractor is to provide and deliver to the employer are: NONE
4.12.2	The fabrication drawings that the contractor is to provide and deliver to the employer are: N/A
4.14.3	The office accommodation, equipment, accommodation for site meetings and other facilities for use by the employer and his agents are: 1) Site office which shall be used for site meetings and for the contractor's use. Such an office shall comprise a minimum of 20m ² in area and 3 m high, be ventilated, have good lamination, must be reasonably sound proof, and have a hard floor construction. It shall be furnished with a desk on which drawings can be rolled open and on which there is sufficient writing space and sufficient temporary chairs or benches to accommodate all persons present at site meetings.
4.14.5	The Contractor is required to provide latrine and ablution facilities.
4.14.6	The requirements for the provision and erection of separate sign boards for consultants and subcontractors are: 1) The boards must comply with the official standard type signboard of the Employer and be at least 2750 x 1800 mm high. 2) The boards must be constructed with a firm flat exposed face using suitable material of firm construction, painted and lettered according to the standard drawings available from the Employer on request and mounted on sturdy pipe-standards at a height of 1800 mm above natural ground level.
4.17.1	The requirements for the termination, diversion or maintenance of existing services are: NONE
4.17.3	Services which are known to exist on the site are: NONE
4.17.4	The requirements for detection apparatus are: NONE
4.18	The following standards and specifications shall be in addition to the provisions of 4.18: NONE

Variations
1..... 2.....
Additional clauses
1 Site meetings and procedures The Employer's Representative and the Contractor shall hold meetings relating to the progress of the works at regular intervals and at other such times as may be necessary. The Contractor shall attend

all site meetings and shall ensure that all persons under his jurisdiction are notified timeously of all site meetings should the Employer's Representative require their attendance at such meetings.

The Contractor shall keep on site a set of minutes of all site meetings, daily records of resources (people and equipment employed), a site instruction book, a complete set of contract working drawings and a copy of the procurement document and make these available at all reasonable times to all persons concerned with the contract.

2 Water and electricity

The Employer does not warrant that any water supply or electricity supply that may exist is adequate for the proper execution of the works. The responsibility strategies in terms of the tabulation below that will apply to the contract is:

- a) water : A
- b) electricity : A

Service	Option		
	A Contractor responsibility	B Employer responsibility	C
Water	The Contractor is to provide, and remove and make good upon completion, all the necessary temporary plumbing connections and purchase water from the local authority for the works at his own cost.	The Contractor shall make, and upon completion remove, all the necessary connections to the Employer's water supply at designated points and make use of water free of charge for construction purposes only.	The Contractor shall make, and upon completion remove, all the necessary connections and water meters to the Employer's water supply at designated points and be responsible for costs associated with all water consumed.
Electricity	The Contractor is to provide, and remove and make good upon completion, all the necessary temporary electrical connections and installations and purchase electricity from the local authority / Eskom for the works at his own cost.	The Contractor shall make, and upon completion remove, all the necessary electrical connections to the Employer's electrical supply at designated points and make use of electricity free of charge for construction purposes only.	The Contractor shall make, and upon completion remove, all the necessary connections and meters to the Employer's electrical supply and be responsible for costs associated with all electricity consumed.

5.2 Particular / generic specifications

Refer to the Technical specification document in Annexure 1

5.3 Recording of weather

If abnormal rainfall or wet conditions occur during the course of the contract, the employer may grant an extension of time in accordance with clause 45 of the general

conditions of contract, calculated in accordance with the formula given below for each calendar month or part thereof:

$$V = (Nw - Nn) + (Rw - Rn)/X$$

If V is negative and its absolute value exceeds Nn, then V shall be taken as equal to minus Nn.

The symbols shall have the following meanings:

V = Extension of time in calendar days for the calendar month under consideration. When the value of V for any month exceeds the number of days in the particular month, V will be the number of days in the month.

Nw = Actual number of days in the calendar month on which a rainfall of Y mm or more were recorded.

Nn = Average number of days, derived from existing rainfall records, on which a rainfall of Y mm or more were recorded for the calendar month.

Rw = Actual rainfall in mm recorded on the site in an approved rain gauge for the calendar month under consideration.

Rn = Average rainfall in mm for the calendar month, derived from existing rainfall records.

The total extension of time is the algebraic sum of all the monthly totals for the period under consideration, but if the total is negative, the time for completion will not be reduced on account of subnormal rainfall. Extensions of time for part of a month will be calculated by using pro rata values for Nn and Rn.

The factor (Nw - Nn) is considered a fair allowance for variations from the average number of days during which the rainfall exceeds Y mm.

The factor (Rw - Rn)/X is considered a fair allowance for variations from the average number of days during which the rainfall did not exceed Y mm but wet conditions prevented or disrupted work.

The rainfall records at rainfall station for the period 1900 to 2002 are reproduced in the accompanying table, and the monthly averages (Rn and Nn) for this period shall be for the purposes of this contract be taken as normal. The values of X and Y are 20 and 10 respectively.

RAINFALL TABLE: Senwabarwana		
MONTH	Rn (mm)	Nn (days)
January		
February		
March		
April		
May		
June		
July		

August		
September		
October		
November		
December		

The Contractor shall erect an effective rainfall gauge on the site and record the daily rainfall figures in a book. Such book shall be handed to the employer's representative for his signature no later than 12 days after rain that is considered to justify an extension of time occurs.

5.4 Unauthorised persons

The Contractor shall keep unauthorized persons from the works at all times Under no circumstances may any person except guards be allowed to sleep on the building site.

5.5 Management meetings

The responsible and account person from the contractor side to always attend this meeting and safety reports and discussions to be first item on the agenda. All participates to the meeting to always read and bring copies of the minutes to the meeting. Other details to be furnished later.

5.6 Forms for contract administration

Refer to Returnable Documents for contract related forms that should be completed.

5.7 Electronic payments

Blouberg Municipality shall pay the contractor by means of a cheque.
Or The contractor shall register with Blouberg Municipality for Electronic funds transfer (EFT) payment.

5.8 Daily records

The contractor shall make records of the following on a daily basis:

- Rainfall figures as described in 5.3
- Diary of activities

5.9 Payment certificates

Measurements will be done continuously between the Client's Representatives and the Contractor on dates and time agreed on. Dates must be arranged by these parties.

The progress of the following items will be recorded hereunder:
The contractor will provide a concept with quantities to the Client. If any material on site is claimed, proof of ownership must be provided either by means of the necessary receipts or a letter from the supplier stating that ownership has been transferred to the contractor upon delivery.

After the payment certificate has been approved by the Client, the contractor must issue a VAT invoice. The certificate will then be ready for handing in.

Payment certificates must be completed monthly and submitted before each site meeting, to ensure that percentage progress can be ready for the site meeting each month.

5.10 Permits

All persons entering and leaving the construction site shall report to the construction office.

5.11 Proof of compliance with the law

The Contractor shall at all stages comply with the following:

Have an updated Health and Safety Plan.

Adhere to safe working procedures and the use of personal protective equipment.

Report to the engineer and as per the OHS Act any injuries on duty, during the shift when the injury occurs.

Have and up to date tax clearance certificate.

Proof of good standing with the compensation commissioner.

Report to the Department of labour when listed work is done as per the Occupational Health and Safety Act.

Have an employment contract with each employee or labourers.

Meet remuneration obligations regarding all employees and labourers.

ANNEXURES

Annexure 1: Design Layouts.....283

BLOUBERG MUNICIPALITY

C4 Site Information

1.9 SITE CONDITIONS

Senwabarwana is situated in the Limpopo Province within the Blouberg Municipality. A summary of the conditions likely to be encountered on site is given below.

Temperatures	:	Very hot in summer, temperatures may reach 31 °C. In winter, temperatures may drop down to 10 °C
Rainfall	:	Average
Vegetation	:	High
Topography	:	Flat
Soil type	:	Loam
Summer outside conditions:	:	31 °C
Winter outside conditions	:	0 °C
Room Conditions	:	27 °C, 50% relative humidity
Tolerance	:	± 1.5%

SITE LOCATION

The project is located in Senwabarwana under Blouberg Municipality.

ACCESS TO SITE AND RESTRICTIONS

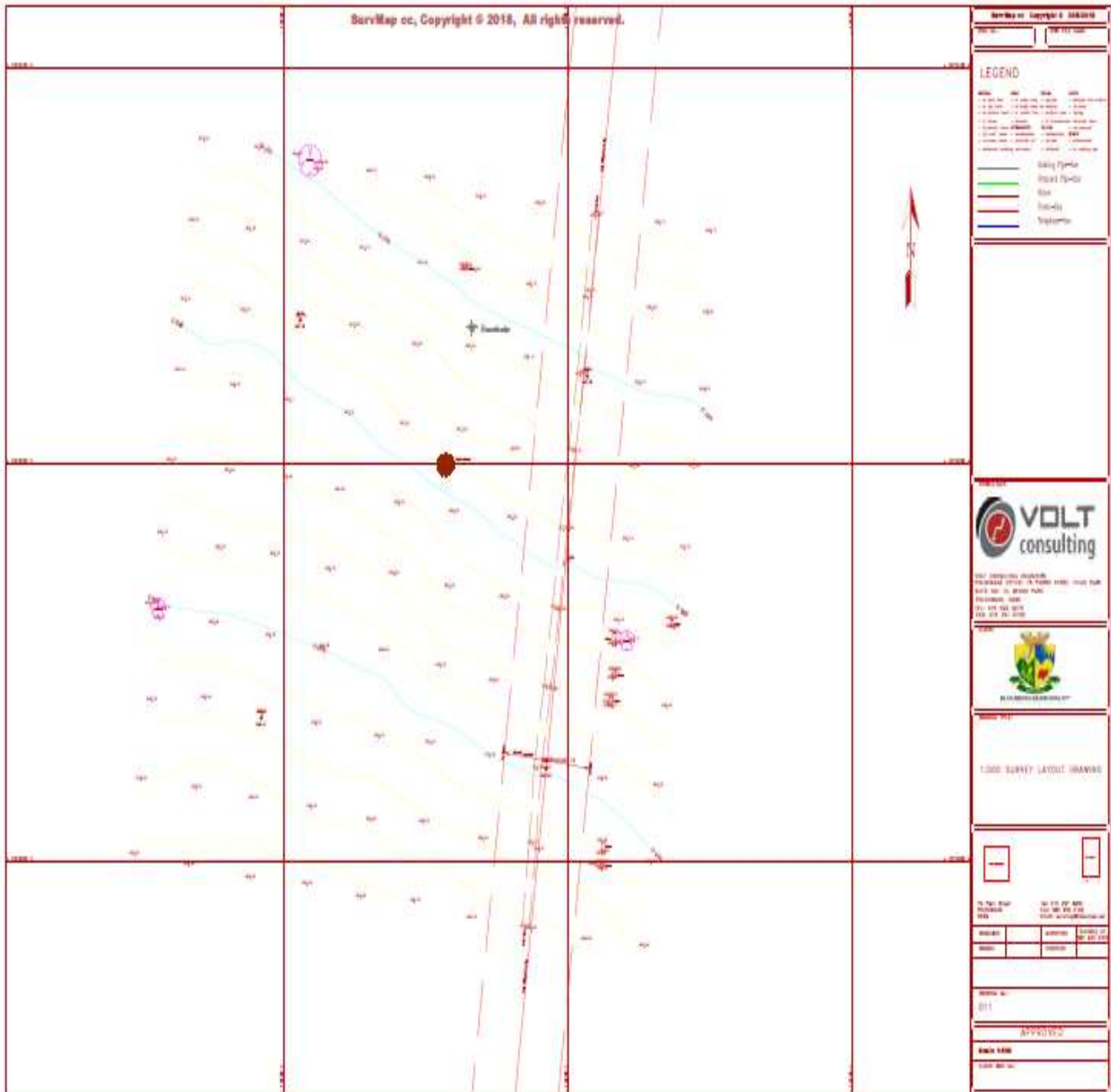
EXISTING SERVICES, SERVITUDES AND WAYLEAVES

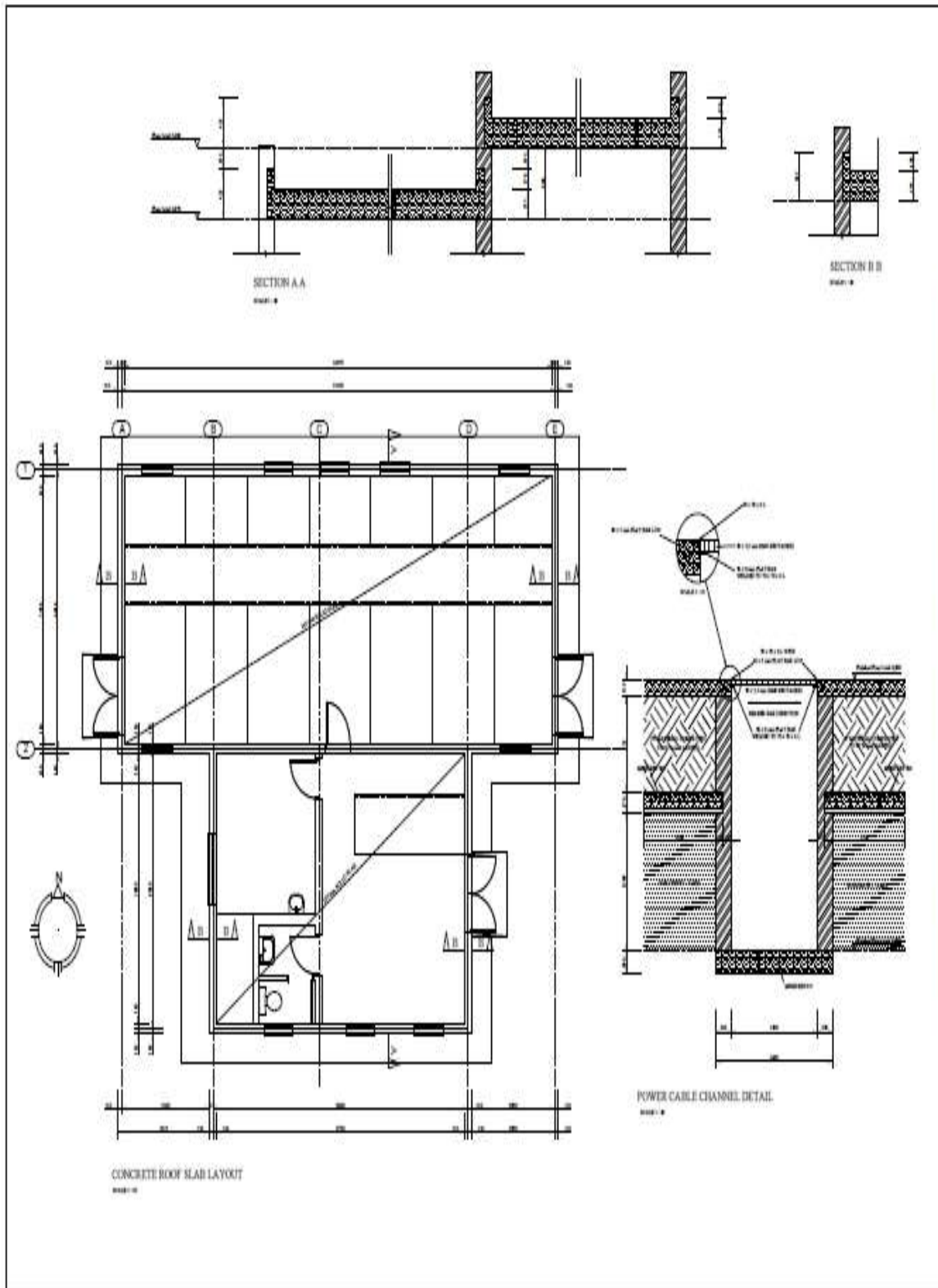
Existing underground service is not available but should contractor encounter anything he/she must bring it to the attention of the Project team

Should the Contractor damage an existing service he shall immediately contact the Engineer who will investigate the matter and determine liability for the damage.

All cables and pipes shall be considered "live" unless confirmed otherwise by the relevant authority.

Annexure 1: Design Layouts





DESIGN REQUIREMENTS

The ground level is at 100.00 m. All dimensions are in meters unless otherwise specified.

GENERAL NOTES

1. All dimensions are in meters unless otherwise specified.
2. All dimensions are in meters unless otherwise specified.
3. All dimensions are in meters unless otherwise specified.

REVISIONS

NO.	DATE	DESCRIPTION	BY	CHECKED

APPROVED BY: _____

DATE: _____

PROJECT: _____

SCALE: _____

STATIONING: _____

APPROVAL:

VOLT CONSULTING

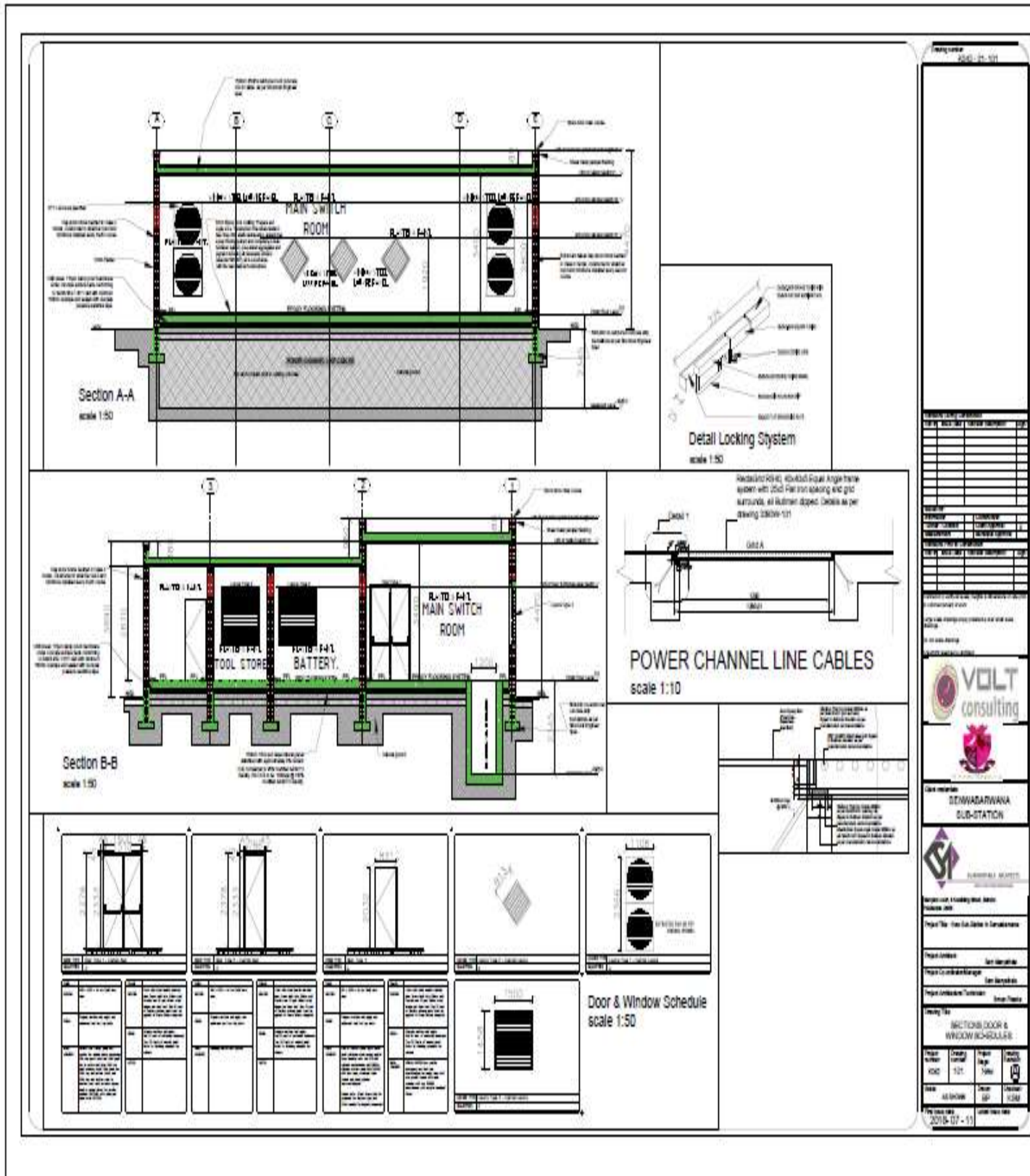
ADI

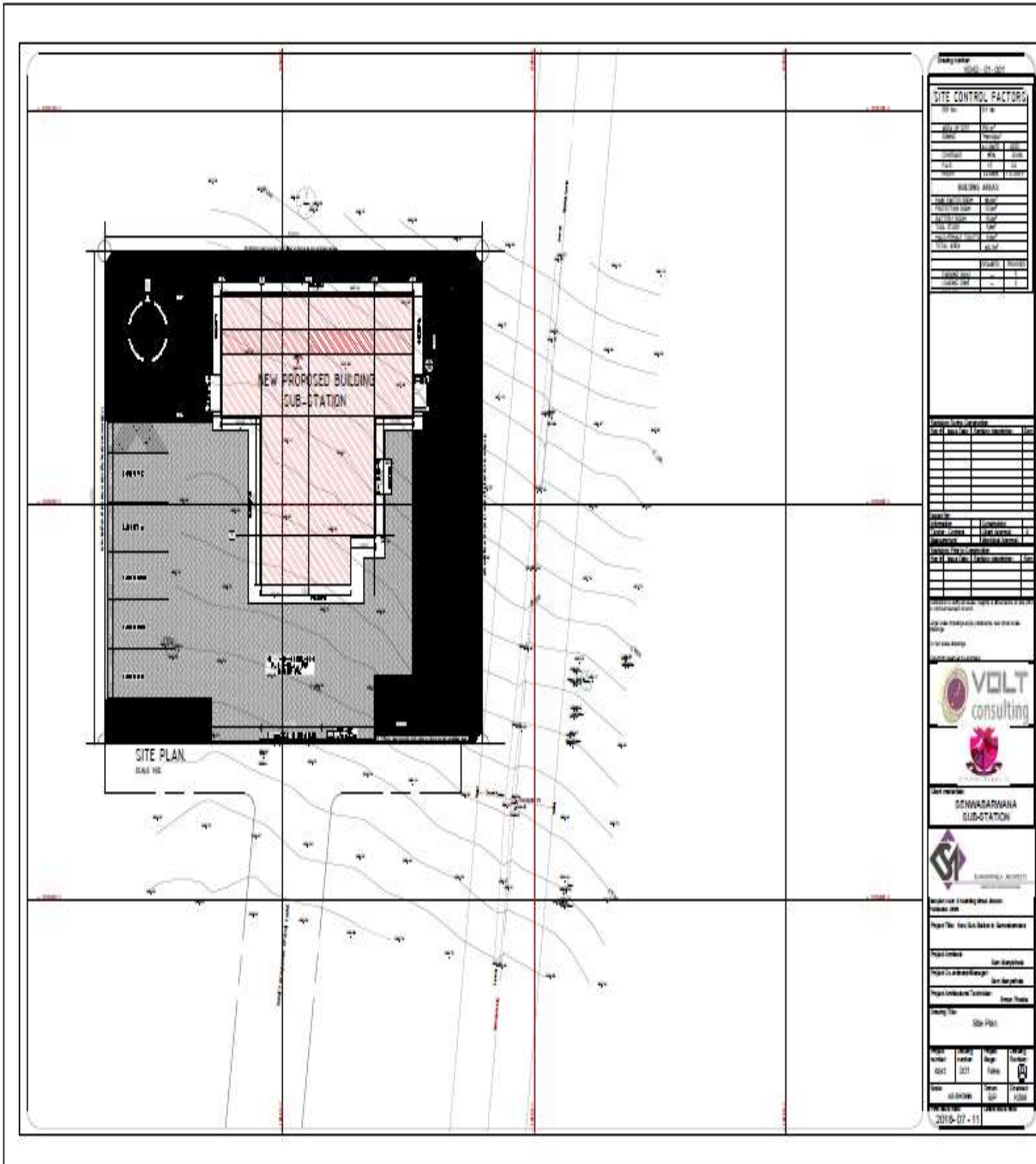
PROPOSED NEW SUB STATION AT SENWABARWANA

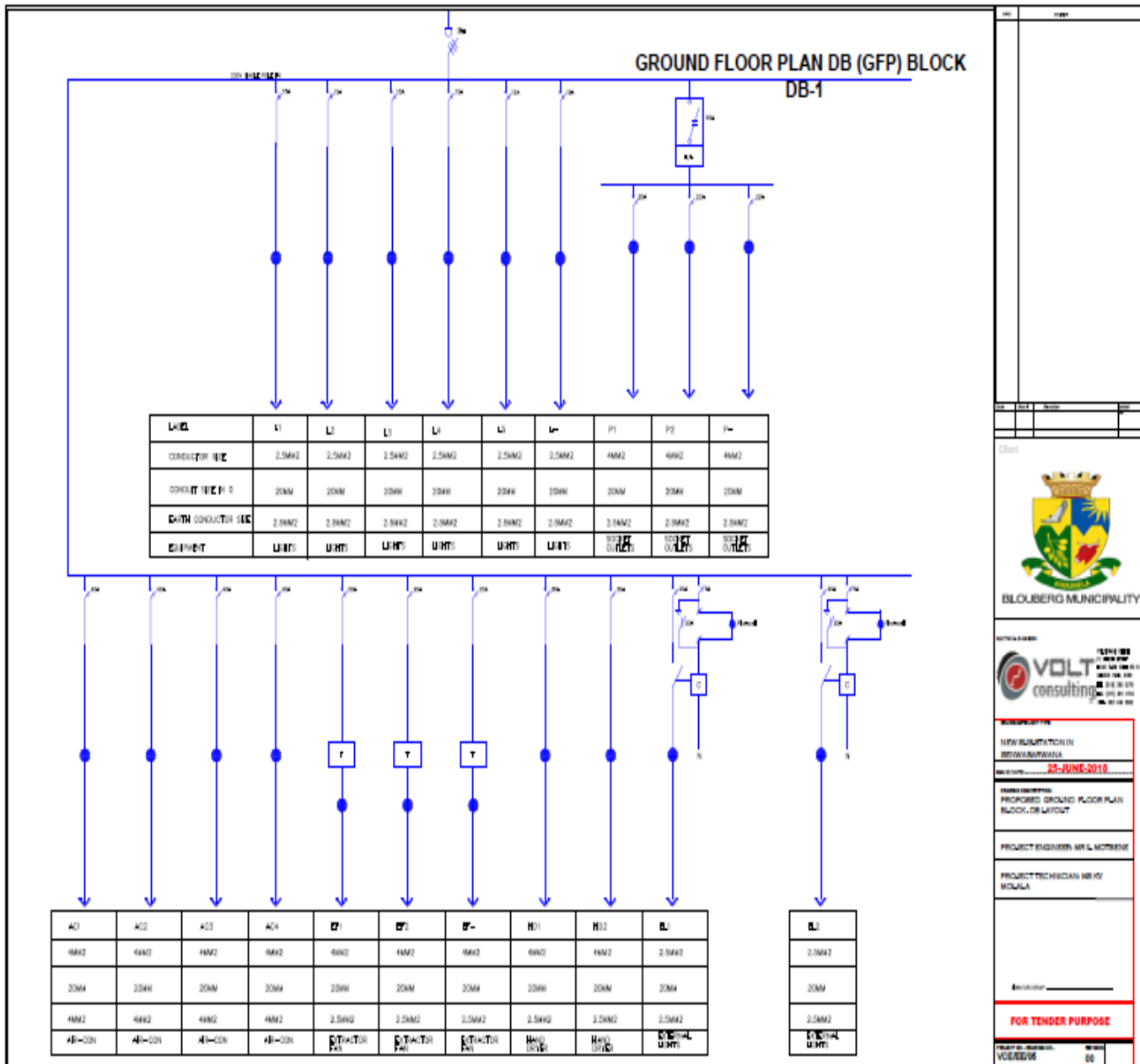
STRUCTURAL DRAWINGS CONCRETE ROOF SLAB LAYOUT AND DETAILS POWER CABLE CHANNEL

Scale:	1:50	1:100	1:200	1:500	1:1000
Sheet:	10/10	11/10	12/10	13/10	14/10
Project:	10/10	11/10	12/10	13/10	14/10
Revision:	10/10	11/10	12/10	13/10	14/10

1828/S/100







NEW SUBSTATION IN BEYANAMWALA
PROPOSED GROUND FLOOR PLAN BLOCK, DB LAYOUT
25-JUNE-2018

PROJECT ENGINEER: M. G. MOHAMED
 PROJECT TECHNICIAN: MEHDI MOHAMED

FOR TENDER PURPOSE

