#### O. R. TAMBO DISTRICT MUNICIPALITY



TENDER NO.:	ORTDM SCMU 30-25/26
DESCRIPTION:	APPOINTMENT OF A PANEL OF SERVICE PROVIDERS FOR IMPLEMENTATION OF CIVIL WORKS IN WATER SERVICES SCHEMES IN O.R. TAMBO DISTRICT MUNICIPALITY FOR 36 MONTHS (8CE OR HIGHER) FOR EMERGENCY.

#### **NOVEMBER 2025**

Issued by:	Prepared by:
The Municipal Manager	Infrastructure & Water Services
O. R. Tambo District Municipality	O. R. Tambo District Municipality
Private Bag x 6043	Private Bag x 6043
MTHATHA	MTHATHA
5100	5100

Tel. No.: (047) 501 6400

Tel. No.: (047) 501 6400

NAME OF BIDDER:

CSD SUPPLIER NUMBER:

SARS TAX COMPLIANCE STATUS PIN:

EMAIL ADDRESS:

TENDER AMOUNT/RATES:

#### O.R. TAMBO DISTRICT MUNICIPALITY TENDER

# NO. ORTDM SCMU 30-25/26

APPOINTMENT OF A PANEL OF SERVICE PROVIDERS FOR IMPLEMENTATION OF CIVIL WORKS IN WATER SERVICES SCHEMES IN O.R. TAMBO DISTRICT MUNICIPALITY FOR 36 MONTHS (8CE OR HIGHER) FOR EMERGENCY.

<u>PL</u>	EASE CHECK	<b>x</b> /√
1.	That you have read all the pages of the tender document.	
2.	That you have completed ALL the forms required to be completed in <b>NON-ERASEABLE INK</b> .	
3.	That your arithmetic calculation in the pricing schedule is correct.	
4.	That you have attached ALL necessary documentation relating to the composition of the tendering entity, i.e.	
	(a) Company registration documents naming the shareholders and directors / members of the company, close corporation etc	
	(b) Joint venture agreement, if tendering entity is a joint venture.	
5.	That the <b>COMPLETE</b> tender document is submitted.	
6.	That the FORM OF OFFER is completed in full and signed.	
7.	That ALL returnable documents are submitted.	
8.	That ALL returnable schedules are completed and signed.	
9.	Ensure that your tender is submitted by <b>12H00PM</b> on the closing date of the te	nder.

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# THE TENDER

#### **SECTION 1: TENDER NOTICE AND INVITATION TO TENDER**

O.R. Tambo District Municipality hereby invites bids for the project listed below:

TENDER NUMBER	NAME AND DESCRIPTION	CIDB GRADE	BRIEFING SESSION
30-25/26	APPOINTMENT OF A PANEL OF SERVICE PROVIDERS FOR IMPLEMENTATION OF CIVIL WORKS IN WATER SERVICES SCHEMES IN O.R. TAMBO DISTRICT MUNICIPALITY FOR 36 MONTHS (8CE OR HIGHER) FOR EMERGENCY.	8CE OR HIGHER	Date: 27 November 2025 Time: 10:00AM Venue: Ground Floor open foyer, O.R Tambo Offices, Myezo Park, Mthatha

A compulsory briefing/clarification meeting with representatives of the Municipality will take place on the aforementioned date(s), time(s) and venue(s).

THE MUNICIPALITY WILL NOT REPEAT ANY MATTERS ALREADY COVERED IN THE COMPULSORY BRIEFING MEETING TO BIDDERS WHO ARRIVE MORE THAN 10 MINUTES LATE TO THE MEETING, NOR WILL IT ALLOW SUCH BIDDERS TO COMPLETE THE ATTENDANCE REGISTER.

Bid documents should be downloaded on the e-Tender website (<u>www.etenders.gov.za</u>) alternatively on the OR Tambo website (<u>www.ortambodm.gov.za</u>).

Bids must be completed in black ink, enclosed in a sealed envelope clearly marked with the "Tender number, tender name and description", and deposited in the Tender Box, Ground Floor, O. R. Tambo District Municipality Building, Nelson Mandela Drive, Myezo Park, Mthatha, Eastern Cape, not later than 12H00pm on 16 NOVEMBER 2025.

It must be expressly understood that the Municipality accepts no responsibility for ensuring that bid submissions sent by courier or post, or delivered in any other way, are deposited in the Tender Box. It is therefore preferable for the bidder to ensure that its bid submission is placed in the Tender Box by its own staff or representative(s).

The Municipality reserves the right not to accept the only or lowest priced tender or any tender at all, or to accept the whole or part of any tender.

In terms of the O. R. Tambo District Municipality SCM Policy Section 72 and 73, the Municipality will apply Fair Distribution of Municipal Resources on Capital Infrastructure Projects, Objective criteria on the evaluation and award of bids:

- Copy of business registration documents, as issued by CIPC.
- Certified copy of identity documents of directors/ shareholders/ partners / members, as the case may be.
- Original Valid Tax Clearance Certificate or a Confirmation of Tax Validity with the pin issued by SARS

NB: CERTIFICATION OF DOCUMENTS MUST NOT BE MORE THAN SIX (6) MONTHS FROM DATE CERTIFIED BY COMMISSIONER OF OATHS.

#### THE BID WILL BE REJECTED IF THE BIDDER FAILS TO:

- Complete fully the bid document or to provide the information requested, or to sign the bid at the appropriate spaces provided or next to errors.
- Fill and properly sign the form of offer.
- Attach proof of registration with CSD.
- Proof of Registration with CIDB
- Attach latest audited annual financial statements of the bidding entity (for projects in excess of R10 million).
- Attach latest unaudited annual financial statements for close corporations and companies if the public interest score is below 350
  in line with the companies act of 2008.
- Proof of latest municipal rates and taxes statement of the bidder indicating that rates and taxes are not in arrears for more than 3 months.
- Proof of latest municipal rates and taxes statement of each company director indicating that rates and taxes are not in arrears for more than 3 months.
- Proof of latest municipal water and sanitation charges statement of the bidder indicating that rates and taxes are not in arrears for more than 3 months.
- Proof of latest municipal water and sanitation charges statement of each company director indicating that rates and taxes are not in arrears for more than 3 months.
- Confirmation of address from a ward councilor where the bidder and company directors operate and reside in a peri-urban
  area where no rates and taxes and service charges are not billed.
- A copy of a valid lease agreement where the bidder does not own the property they are operating from.
- Attach joint Venture Agreement or Consortium Agreement signed and initialed on each page (if applicable).
- NOTE: Joint Ventures and Consortiums will only be considered provided they submit consolidated company registration
  documents and on award will be required to submit a joint venture or consortium bank account and a joint venture or consortium
  SARS Tax PIN.

# EVALUATION OF BIDS IN TERMS OF THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK REGULATIONS,2022:

Bids will be evaluated in three stages, namely:

- Stage 1- Mandatory Requirements
- Stage 2- Minimum conditions of tender
- Stage 3 Price and specific goals

Bidders who fail to comply with the requirements in Stage 1 will not be evaluated further in Stages 2. Only Bidders who score a minimum of 70 points in Stage 2 will not proceed to be evaluated further in Stage 3.

	Item	Weight
Stage	Stage 2- Minimum Conditions of Tender	
•	Company Experience with respect to similar projects	60
•	Qualifications and Experience of key staff assigned to the contract	40
Stage 3 of Evaluation- Price & Specific Goals		100
•	Specific Goal Points	20 OR 10
•	Price	80 OR 90

Tenders may only be submitted on tender documentation issued. No alterations may be made to the tender documentation. No late, faxed, e-mailed, telephonic or other electronically transmitted submissions will be

accepted. Should a bidder commit any corrupt or fraudulent act during the bidding process, its tender shall be disqualified.

The Municipality reserves the right to extend the tender advert period at its own discretion, by notice published in the Daily Dispatch Newspaper; the e-Tender Publication Portal, and by notice sent to all parties who attend the non-compulsory briefing session, if any.

#### **ENQUIRIES:**

TECHNICAL : Mr. L. Mashiya Email: <a href="mashiyal@ortambodm.gov.za">mashiyal@ortambodm.gov.za</a> : Tel : 047 501 6492 : Mr. S. Hopa Email: <a href="mashiyal@ortambodm.org.za">sakhiwoh@ortambodm.org.za</a>, Tel: 047 501 6449

Enquiries can be made from Monday to Friday between 08H00-13H00 and 13H30-16H30 and such enquiries will not be entertained five days before the tender closes.

Tenders will be evaluated in terms of the Supply Chain Management policy of the O. R. Tambo District Municipality. The Municipality reserves the right to accept the whole or part of any tender or not to consider any tender not suitably endorsed. Joint Ventures and Consortium will only be considered provided they submit consolidated company registration documents, bank account, SARS Tax pin, CSD is prepared for every separate tender. An 80/20-point system shall apply where 80 points is allocated for price and 20 points allocated for specific goals as follows

#### OR

An 80/20-point system shall apply where 90 points is allocated for price and 10 points allocated for specific goals as follows:

	Number of	Number of
The specific goals allocated points in terms of this tender	points Allocated	points Allocated
	on	on
	80/20 system	90/10 system
The promotion of enterprises located in a specific region (O.R Tambo District): The		
Tenderer and Directors are based in the ORTDM region and pay their municipal rates	05	04
and taxes		
Promotion of 51% Black-owned enterprises	05	02
Promotion of 100% Women-owned enterprises	05	02
Promotion of 100% Youth-owned enterprises	05	02

Tenderers must submit copies of all supporting documents necessary to prove conformance with Specific Goal criteria listed above in order to be eligible for Specific Goal points.

B. Mase Municipal Manager

#### **SECTION 2: STANDARD CONDITIONS OF TENDER**

# BIDDERS ARE REQUIRED TO FAMILIARIZE THEMSELVES WITH THE TENDERING CONDITIONSAND PROCEDURES DETAILED IN THIS SECTION.

- 1. No tender will be considered unless it is submitted on this O.R. Tambo bid document. Under no circumstances whatsoever may this bid document be retyped or redrafted.
- 2. The whole, original bid document as issued by O.R. Tambo District Municipality must be completed. A tender will be considered invalid and will not be accepted, if any part of this bid document is not submitted.
- 3. The bidder is advised to check the number of pages and to satisfy him/herself that none are missing or duplicated.
- 4. Bids submitted must be complete in all respects.
- 5. Telephonic, telegraphic, telex, facsimile or emailed tender offers will not be accepted, unless stated otherwise in these tender conditions.
- 6. Bid submissions must be properly deposited, on or before the closing date and time of the tender, in the Tender **Box** located at the Ground Floor, O.R.Tambo House, Myezo, Mthatha.
- 7. Each bid shall be lodged in a separate sealed envelope, with the name and address of the bidder, the bid number and closing date indicated on the envelope. The envelope shall not contain documents relating to any bid other than that shown on the envelope. If this provision is not complied with, such bids may be rejected as being invalid.
- 8. O.R. Tambo Municipality accepts no responsibility for ensuring that tenders are placed in the correct tender box, and should a tender be placed in the incorrect tender box, it will be not be accepted.
- 9. No bid sent through the post will be considered if it is received after the closing date and time stipulated in the bid documentation, and proof of posting will not be accepted as proof of delivery.
- 10. Bids received after the closing time and/or date shall not be considered.
- 11. Bidders will be responsible for all costs associated with the preparation and submissions of their bids.
- 12. The bid must be signed by a person duly authorized to do so.
- 13. Any alterations made to the bid document must be initialed by the person or persons authorized to sign the bid document. The use of correcting fluid is prohibited.

14. Bids will be opened in public, as soon as possible after the closing time of the bid. Where practical, bid prices will be read out at the time of opening bids.

#### 15. National Treasury Central Supplier Database

- 15.1 Bidders must be registered on the National Treasury Central Supplier Database ('CSD'), and must provide their CSD supplier number in their bid submission.
- 15.2 The municipality will verify on the CSD, the following information relating to bidders
  - 15.2.1 business registration, including details of directorship and membership;
  - 15.2.2 bank account information;
  - 15.2.3 tax compliance status;
  - 15.2.4 identity documents of directors, members or trustees, as the case may be;
  - 15.2.5 tender defaulters and restrictions status;
  - 15.2.6 whether the bidder has any directors, managers, principal shareholders or stakeholders in the service of the state.
- 15.3 Bidders must ensure that their information on the CSD is up to date and correct.

#### 16. Tax compliance status

- 16.1 Bidders must ensure that their tax matters are in order. No award will be made to any bidder whose tax matters have been declared to be in order by the South African Revenue Services (SARS).
- 16.2 Each party to a joint venture, consortium or partnership must comply with the above requirement.

#### 17. Bid validity period

- 17.1 The validity period for the bid is ninety (90) days from the close of the bid.
- 17.2 All bids submitted shall remain valid, irrevocable and open for acceptance by the Municipality within the validity period, or such extended period as may be applicable.
- 17.3 If the bid validity period expires on a Saturday, Sunday or public holiday, the bid offer shall remain valid and open for acceptance until the closure of business on the following working day.
- 17.4 The bid offer may not be amended during the aforesaid bid validity period.
- 17.5 Where required, the Municipality may request all bidders to agree to the extension of the validity period on the same terms and conditions as the original bid, or such amended terms and conditions as may be allowed by the Municipality.

17.6 A request for a bid validity extension request will be done in writing, before the expiry of the original validity period.

#### 18. Withdrawal or modification of a tender prior to closing time

- 18.1 Tenderers may withdraw their tender before the tender closes.
- 18.2 Insofar as a modification will affect the information that will be made available at the public opening, the Municipality shall have the authority to make such information from the submissions available to the other tenderers.

#### 19. Withdrawal of a tender after the closing time

Tenderers may withdraw their tender submission before the tender is awarded provided that they do so in writing, and ensure that such withdrawal reaches the Municipality and the Municipality confirms receipt in writing before the tender is awarded. The tender as modified will be considered as the tenderer's offer.

#### 20. Prequalification criteria

- 20.1 Prequalification criteria may be applied to the tender to advance designated groups.
- 20.2 Should prequalification criteria be applicable to this tender, the basis of such criteria will be detailed in Section 4 of this document.

#### 21. Tender evaluation

- 21.1 Tenders will be evaluated in accordance with the tender evaluation criteria stipulated in this document.
- 21.2 Tenders will be evaluated for price and preference using the 80/20 preference points system.
- 21.3 Unless otherwise stated in this document, a contract will be concluded with the bidder who complies with the tender evaluation criteria, and scores the highest total price and preferences.

#### 22. Test for tender responsiveness

#### 22.1 Invalid tenders

Tenders shall be invalid if -

- (a) The tender document is completed in non-erasable ink;
- (b) The form of offer is not completed and signed by the bidder;
- (c) In a two-envelope system, a bidder fails to submit both a technical proposal and a separate, sealed financial offer;
- (d) The bidder has been listed on the National Treasury's Register for Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act, No. 12 of 2004, or has been listed on the National Treasury's List of Restricted Suppliers and who is therefore prohibited from doing business with the public sector;
- (e) The bidder is /has been restricted from doing business with the Municipality Clause 38A of the O.R. Tambo Municipality Supply Chain Management Policy.

#### 22.2 Non-responsive tenders

Tenders will be held to be non-responsive and eliminated from further consideration in the following circumstances –

- (a) The tender does not comply with the tendering procedures, where such procedures have been indicated as mandatory.
- (b) The tender does not comply with the prequalification criteria for the tender, if any, or the tender evaluation criteria, including any minimum conditions of tender criteria.
- (c) Where there are material deviations from, or qualifications to the tender, which in the Municipality's opinion would
  - (i) detrimentally affect the scope, quality or performance of the services or supply identified in the scope of services;
  - (ii) significantly change the Municipality's or the bidder's risks and responsibilities under the contract, or
  - (iii) affect the competitive position of the bidder, or other bidders presenting responsive tenders, if it were to be rectified.
- (d) The bid will be declared non-responsive in the event that the bidder's tax matters, as verified on the government Central Supplier Database, are shown not be in order, and the bidder fails to ensure that its tax matters are in order within such timeframe as maybe required by O.R Tambo District Municipality in writing.

#### 23. Clarification of the tender offer after submission

The bidder must provide clarification of its tender offer in response to a request to do so from the Municipality during the bid evaluation or adjudication stages. 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 competitive position of bidders or substance of the tender offer may be sought, offered, or permitted.

#### 24. Inspections, tests and analyses

The bidder shall, at the request of the Municipality, provide access during working hours to its business premises, or any other specified premises, for any inspections, tests and analyses as required in this document.

#### 25. Samples

Where applicable, samples shall be provided strictly in accordance with the instructions stipulated in this bid document.

#### 26. Pricing the tender offer

Bidders must -

26.1 Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes (including Value Added Tax (VAT), and other levies applicable.

- 26.2 Provide rates and prices that are fixed for the duration of the contract and not subject to adjustment except as specified in this tender document.
- 26.3 State the rates and prices in Rand unless instructed otherwise.

#### 27. Imbalance in tendered rates or prices

If the Municipality declares any rate or price to be unacceptably high or low, the tenderer shall be requested to provide evidence to support the tendered rate or price. If the Municipality remains unsatisfied with the rate or price, it may propose to the tenderer an amended rate or price together with counterbalancing change(s) elsewhere in the Pricing Schedule such that the tender sum remains unchanged. Should the tenderer refuse to amend his / her tender as proposed by the Municipality, his / her tender may be regarded as non-responsive.

#### 28. Inducements, gifts, rewards and other abuses of the supply chain management system

- 28.1 No bidder may directly or indirectly commit any fraudulent act during the tender process or abuse the supply chain management system of the Municipality.
- 28.2 Should a bidder be found to have committed fraud or abused the supply chain management system, its bid will be rejected, any existing contract between it and the Municipality will be cancelled, and any other remedies available to the Municipality as provided for in the Supply Chain Management Regulations or other relevant legislation shall be imposed, including blacklisting.

#### 29. Alternative offers

Alternative offers may be considered, provided that a bid free of qualifications and strictly in accordance with the tender document is also submitted. The Municipality shall not be bound to consider alternative bid offers.

# 30. Objections, complaints, queries and disputes / Appeals in terms of Section 62 of the Municipal Systems Act

#### 30.1 Objections, complaints, queries and disputes

Persons aggrieved by decisions or actions taken by the Municipality in the implementation of the supply chain management system, or any matter arising from a contract awarded in terms of the supply chain management system may, within 14 days of the decision or action, lodge a written objection or complaint or query or dispute against the decision or action.

#### 30.2 Section 62 appeals

- (a) In terms of section 62 of the Systems Act, a person whose rights are affected by a decision taken by a political structure, political office bearer, councilor or staff member of a municipality in terms of a power or duty delegated or sub-delegated by a delegating authority, may appeal against that decision by giving written notice of the appeal and reasons to the Accounting Officer within 21 days of the date of notification of the decision.
- (b) An appeal shall contain the following:
  - (i) The reasons and/or grounds for the appeal;

- (ii) The manner in which the appellant's rights have been affected;
- (iii) The remedy sought by the appellant.
- 30.3 Lodging of appeals, objections, complaints, queries and disputes relating to this tender Appeals, objections, complaints, requests for information, queries and disputes must be submitted in writing to the Office of the Municipal Manager, O.R. Tambo House, Myezo, Mthatha.

# SECTION 3: REGISTRATION ON THE NATIONAL TREASURY CENTRAL SUPPLIER DATABASE (CSD)

- 1. In terms of National Treasury MFMA Circular No. 81, Accounting Officers of Municipalities are required to encourage their prospective suppliers to register on the Central Supplier Database ('CSD').
- 2. Bidders may apply for online registration, using the following website link: www.csd.gov.za.
- 3. Bidders must register on CSD. FAILURE TO REGISTER BEFORE THE CLOSE OF THIS TENDER WILL RESULT IN THE DISQUALIFICATION OF THE BIDDER'S TENDER.

### **SECTION 4: PREQUALIFICATION CRITERIA**

Only bidders that meet the requirements indicated as applicable below, may respond to this tender -

No.	Criteria	Applicable / Not applicable	Indicate compliance (Yes / No)
		TO BE SPECIFIED BY	THE BIDDER
		MUNICIPALITY	THE BIDDER
1.	Bidders must have a stipulated minimum BBBEE status level to prequalify for this bid	Not applicable	
1.1	The stipulated BBBEE level required to prequalify for this bid is	Not applicable	
2.	Bidders must be an Exempted Micro Enterprise (EME) or a Qualified Small Enterprise (QSE)	Not applicable	
3.	Bidders must subcontract a minimum of 30 pe	rcent of the value of the con	tract to:
3.1	an EME or QSE	Not applicable	
3.2	an EME or QSE which is at least 51% owned by black people	Not applicable	
3.3	an EME or QSE which is at least 51% owned by black people who are youth	Not applicable	
3.4	an EME or QSE which is at least 51% owned by black people who are women	Not applicable	
3.5	an EME or QSE which is at least 51% owned by black people with disabilities	Not applicable	
3.6	an EME or QSE which is at least 51% owned by black people living in rural or underdeveloped areas or townships	Not applicable	
3.7	A cooperative which is at least 51% owned by black people	Not applicable	
3.8	an EME or QSE which is at least 51% owned by black people who are military veterans	Not applicable	

A TENDER THAT FAILS TO MEET THE APPLICABLE PREQUALIFICATION CRITERIA INDICATED ABOVE WILL BE HELD TO BE NON-RESPONSIVE.

#### **SECTION 5: SUBCONTRACTING AS COMPULSORY BIDDING CRITERIA**

This section applies only to tenders which exceed the value of R30 million.

No.	Criteria	Yes / No / Not applicable (Indicate)	Agree / Do Not Agree
		TO BE SPECIFIED BY TH E MUNICIPALITY	TO BE COMPLETED BY BIDDER
1.	The estimated value of this contract exceeds R30 million	NO	
2.	If the estimated value of the contract exceeds R30 million, is it feasible for this contract to be sub-contracted?	Not applicable	
3.	If sub-contracting is feasible, bidders <u>MUST</u> agree to subcontract the contract to one, or more of the following designated groups -	Not applicable	
3.1	an EME or QSE	Not applicable	
3.2	an EME or QSE which is at least 51 percent owned by black people	Not applicable	
3.3	an EME or QSE which is at least 51 percent owned by black people who are youth	Not applicable	
3.4	an EME or QSE which is at least 51 percent owned by black people who are women	Not applicable	
3.5	an EME or QSE which is at least 51 percent owned by black people with disabilities	Not applicable	
3.6	an EME or QSE which is at least 51 percent owned by black people living in rural or underdeveloped areas or townships	Not applicable	
3.7	a cooperative which is at least 51 percent owned by black people	Not applicable	
3.8	an EME or QSE which is at least 51 percent owned by black people who are military veterans	Not applicable	

FAILURE OF A BIDDER TO AGREE TO SUBCONTRACT AS SPECIFIED ABOVE WILL RESULT IN ITS BID BEING HELD TO BE NON-RESPONSIVE.

#### **SECTION 6: TENDER EVALUATION CRITERIA**

### Bids will be evaluated in three stages, namely:

- Stage 1- Mandatory requirements.
- Stage 2 Minimum Conditions of Tender
- Stage 3 Price and Specific Goals

#### **STAGE 1- MANDATORY REQUIREMENTS**

Only bidders who meet all the requirements of stage 1 will proceed to be evaluated further in stage 2

#### STAGE 2 - MINIMUM CONDITIONS OF TENDER.

Only bidders who score a minimum of 70 points on minimum conditions of tender will be evaluated further on Price and Specific Goals. The maximum score for minimum conditions of tender shall be 100, distributed as follows:

	Minimum Conditions of Tender	Weight
B1.1	Experience on similar projects	60
	Experience on similar projects: Proven experience in the construction and refurbishment of Water Supply pipelines, concrete reservoirs, or Waterborne Sewer pipelines contracts.  Copies of Certificate of Completion MUST be submitted with the bid. No points will be awarded where Certificates of Completion have not been submitted with the Bid. If the value of completed project is not reflected on the certificate, provide contractor's appointment or letter from the client with values.	60
	The Contractor has successfully completed at least <b>Three (03)</b> projects that satisfies the sub-criteria and provided evidence whose Total Sum is <b>at least R200 Million.</b>	60
	The Contractor has successfully completed at least <b>Two (02)</b> projects that satisfies the sub-criteria and provided evidence whose Total Sum is <b>at least R130 Million</b> .	40
	The Contractor has successfully completed at least <b>One (01)</b> project that satisfies the sub-criteria and provided evidence whose Total Sum is <b>at least R60 Million</b> .	20
	Contractor failed to provide evidence of experience.	00
B1.2	Qualifications and Experience of key personnel (NB no key personnel member may be assigned more than one duty on the Contract, i.e. different personnel must be assigned for each of the following key positions) <b>Contracts Manager</b> = Minimum BSC or B-Tech in Civil Engineering/ NQF level 7 Registered as a Professional in terms of Engineering Council of South Africa as <b>Pr Tech or Pr Eng</b> or SACPCMP as a <b>Pr CPM or Pr CM</b> , <b>Site Agent</b> = Minimum ND in Civil Engineering NQF Level 6, Registered as a Professional in terms of the Engineering Council of South Africa as a <b>Pr Techni</b> or Registered as Professional in terms of SACPCMP as a <b>Pr CPM and Pr CM</b> and Foreman = Minimum Grade 12/ N3 Civil Engineering/ Plumbing. Bidders must submit	40

CV's and contactable references.	
Contracts Manager, Site Agent, Foreman	
Favourable previous experience in the Civil Engineering field with a minimum of 5 years; <b>Contracts Manager</b> = 20 points, 3-4 years = 15 points & 1-2 years = 10 points.	20
Favourable previous experience in the Civil Engineering field with a minimum of 5 years; <b>Site Agent</b> = 12 points, 3-4 years = 10 points & 1-2 years = 8 points.	12
Favourable previous experience in the Civil Engineering field with a minimum of 5 years; <b>Foreman</b> = 8 points, 3-4 years = 6 points & 1-2 years = 4 points.	08
Contractor failed to provide evidence of qualification and experience.	00

#### STAGE 3- PRICE AND SPECIFIC GOALS

The procedure for Stage 3 of evaluation will be as follows:

#### Points Awarded for Price (Ps)

A total of 80 points will be awarded to the Tenderer on the following basis:

$$Ps = 80 \left(1 + \frac{Pt - Pmin}{Pmin}\right)$$

OR

$$Ps = 90 \left(1 + \frac{Pt - P \min}{P\min}\right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

#### Points awarded for specific goals

In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in the table below as may be supported by proof/ documentation stated in the conditions of this tender. Specific goals for the tender and points claimed are indicated per the table below:

An 80/20-point system shall apply where 80 points is allocated for price and 20 points allocated for specific goals. OR

An 90/10-point system shall apply where 90 points is allocated for price and 10 points allocated for specific goals as follows:

The specific goals allocated points in terms of this tender	Number of points Allocated on 90/10 system	Number of points Allocated on 80/20 system
51% Black-owned enterprises	04	05
100% Women-owned enterprises	02	05
100% Youth-owned enterprises	02	05
Where the enterprise head office or primary place of business is located within O.R. Tambo District.	02	05

Tenderers must submit copies of all supporting documents necessary to prove conformance with Specific Goal criteria listed above in order to be eligible for Specific Goal points.

# Note that the objective Criteria as per the SCM Policy Paragraph 72 and 73 will be applied:

### 72. Fair Distribution of Municipal Resources on Capital Infrastructure Projects on Awards

- Tenders will be evaluated and adjudicated as per legislation requirements, treasury guidelines and municipal policy. Fair distribution will be achieved as follows:
- A bidder will not be awarded the same commodity of work more than once in within a period of three months.
- If the highest scoring bidder has been previously awarded for the same commodity tender within that three months, then the next highest scoring bidder will be considered for recommendation and award.
- If the highest scoring bidder has been previously recommended for award in the same sitting for a tender of the same commodity, the next highest scoring bidder will be considered for recommendation and award.

#### 73. Objective criteria on the evaluation and award of bids

- The objective criteria on the evaluation and awards of bids by the municipality will be based on the following criteria and reasoning:
- Where the bidders price offer is below the engineer's estimate, that bid will be rejected as it will pose a risk to the municipality of non-completion of the project to be implemented thus leading to underspending on grants and delays in completion of projects within projected time period.
- Further in line with CIDB Practice Note 5, paragraph 3.4 (3), the municipality will judge the reasonableness of financial offers and reject all tender offers with unrealistic financial offers.

# **SECTION 7: RETURNABLE DOCUMENTS AND SCHEDULES**

### **RETURNABLE DOCUMENTS**

Bidders must submit the following documentation with their tenders:

No.	Returnable document	Compulsory (Yes / No)	Non-submission will render Tender non- responsive (Yes / No)
1.	Business registration documents	YES	YES (if proof of its business status and registration cannot be verified on CSD), non-submission will forfeit specific goals points
2.	Municipal account statement not older than 90 days OR proof that bidder leases its business premises (Both business premises and individual directors)	YES	YES
3.	Certified copy of identity documents of directors / shareholders / partners / members, as the case may be	YES	YES (if cannot be verified on CSD),
4.	Signed joint venture or consortium agreement	YES (if applicable)	YES (if applicable)
7.	Company Profile	Yes	NO (However non- submission will affect minimum conditions of tender)

- 21 -

### **RETURNABLE SCHEDULES**

All returnable schedules below must be completed by the bidding entity, save for those schedules which are not applicable to it in which case the bidding entity must indicate which schedules are not applicable.

Bidders must complete the following returnable schedules:

No.	Returnable schedule	Compulsory (Yes / No)	Non-submission will render Tender non- responsive (Yes / No)
1.	Confirmation of registration on the National Treasury Central Supplier Database (Schedule A)	YES	YES
2.	Authority of bid signatory (Schedule B)	YES	YES
3.	Briefing session / site inspection certificate (Schedule C)	YES (if applicable)	YES (if applicable)
4.	Municipal Bidding Documents (Schedule D)		
4.1	MBD 1 – Invitation to bid	YES	NO
4.2	MBD 4 - Declaration form confirming the bidder is not in the service of the state	YES	YES
4.3	MBD 5 - Declaration for procurement above R10 million	YES (if applicable)	YES (if applicable)
4.4	MBD 6.1 - Preference points claim form	YES	YES
4.5	MBD 8 - Declaration of bidders' past supply chain management practices	YES	YES
4.6	MBD 9 - Declaration of independent bid determination	YES	YES
5.	Form of offer (The Contract: Section 3)	YES	YES

# SCHEDULE A – CONFIRMATION OF REGISTRATION OF BIDDER ON CENTRAL SUPPLIER DATABASE (CSD)

BIDDER NAME	REGISTERED (YES/NO)	ON	CSD?	CSD SUPPLIER NUMBER

Bidders are required to register as suppliers on the National Treasury Central Supplier Database (CSD) prior to submission of this bid, and provide their CSD supplier number in the table above.

It is the responsibility of bidders to ensure that this requirement is complied with. In the case of Joint Ventures and Consortia, this requirement will apply to each party to the Joint Venture or Consortium.

#### **SCHEDULE B: AUTHORITY OF BID SIGNATORY**

Indicate the status of the bidder by ticking the appropriate box hereunder with an x.

COMPANY	CLOSE CORPORATION	PARTNERSHIP	SOLE PROPRIETORSHIP

JOINT VENTURE	CONSORTIUM	CO-OPERATIVE

# **NOTE:**

BIDDERS MUST ATTACH A LETTER OF AUTHORITY TO THIS PAGE, AUTHORIZING THE SIGNATORY TO THIS BID TO SIGN ALL DOCUMENTS IN CONNECTION THEREWITH ON BEHALF OF THE BIDDING ENTITY, AS WELL AS SIGN ANY CONTRACT ARISING THEREFROM ON BEHALF OF THE BIDDING ENTITY.

# ATTACH LETTER OF AUTHORITY HERE

# SCHEDULE C: TENDER BRIEFING / SITE INSPECTION CERTIFICATE

Note: This certificate is only to be completed if applicable to the tender.

CERTIFICATE OF ATTENDANCE	
THIS IS TO CERTIFY THAT	. (NAME) ON BEHALF OF
(BIDDING EN	TITY), ATTENDED THE OFFICIAL TENDER
BRIEFING SESSION AND / OR SITE INSPECTION ON	(DATE) AT
	(VENUE).
I FURTHER CERTIFY THAT I AM SATISFIED WITH TH PERFORMED AND THE EXPLANATIONS (IF ANY) REPRESENTATIVES. I AM ALSO FAMILIAR WITH THE MA PERFORMED UNDER THE INTENDED CONTRACT.	GIVEN TO ME BY THE MUNICIPALITY'S
BIDDER / AUTHORISED REPRESENTATIVE (PRINT NAME)	SIGNATURE
DATE	
MUNICIPAL REPRESENTATIVE (PRINT NAME)	SIGNATURE
DATE	

# SCHEDULE D: MUNICIPAL BIDDING DOCUMENTS (MBDs)

**OFFERED** 

MBD 1

# PART A INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF O.R. TAMBO DISTRICT MUNICIPALITY

BID NUMBER:	ORTDM SCMU 30 25/26	0- CLOSING D	ATE:	16 JAN 2026	NUARY	CLC	SING	TIME:	12.00PM	
DESCRIPTION:	APPOINTMENT OF WORKS IN WATE MONTHS (8CE O	ER SERVICES S	CHEME	S IN O.	R. TAM					
months (SSE SK INSTITUTE OF EMPLOYED)										
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT:										
TENDER BOX, G	ROUND FLOOR, C	D.R. TAMBO DIS	TRICT N	IUNICII	PALITY	BUILDING	3			
NELSON MANDE	LA DRIVE									
MYEZO PARK										
MTHATHA										
EASTERN CAPE										
SUPPLIER INFOR										
NAME OF BIDDE	R									
POSTAL ADDRES	SS									
STREET ADDRES	ss									
TELEPHONE NUI	MBER (	CODE				NUMBER				
CELLPHONE NUI	MBER									
FACSIMILE NUM	BER (	CODE				NUMBER				
E-MAIL ADDRES	S									
VAT REGISTRAT	ION NUMBER									
TAX COMPLIANO		TCS PIN:				CSD No:				
BUSINESS REGIS DOCUMENTS		□ Ye			OF	EMENT RATES TAXES	□ Y			
	]	□ S			AND	AVES	S			
	ISTRATION DOCU						(ES) M	O UST BE		
SUBMITTED IN O		Y FOR PREFER	ENCE P	OINTS				Yes	No	
ARE YOU THE REPRESENTATIV AFRICA FOR /SERVICES OFFERED?	/E IN SOUTH	⊟ <sup>Yes</sup> [IF YES ENC PI	□No CLOSE ROOF]			PLIER	SED FOR ODS RED?	□ Yes [IF YES PART	S, ANSWER	
TOTAL NUMBER	OF ITEMS				ТОТА	L BID PRIC	CE	R		

SIGNATURE OF BIDDER			DATE	
CAPACITY UNDER WHICH THIS BID IS SIGNED				
BIDDING PROCEDURE ENQUIRIE TO:	ES MAY BE DIRECTED	TECH	NICAL INFORMAT	TION MAY BE DIRECTED TO:
DEPARTMENT	SCM DEPARTMENT	CONT	ACT PERSON	LUTHANDO MASHIYA
CONTACT PERSON	SAKHIWO HOPA	TELE	PHONE NUMBER	047 501 6492
TELEPHONE NUMBER	047 501 6449	FACS	IMILE NUMBER	N/A
FACSIMILE NUMBER	N/A	E-MA	IL ADDRESS	mashiyal@ortambodm.gov.z
				<u>a</u>
EMAIL ADDRESS	sakhiwoh@ortambodm.o			
	<u>rg.za</u>			

# PART B TERMS AND CONDITIONS FOR BIDDING

1.	BID SUBMISSION:					
1.1.	BIDS MUST BE DELIVERED BY THE STIPULATED TIME 1 WILL NOT BE ACCEPTED FOR CONSIDERATION.	O THE CORRECT ADDRES	SS. LATE BIDS			
1.2.	ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED-(NOT TO BE RE-TYPED).					
	THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUR PREFERENTIAL PROCUREMENT REGULATIONS, 2017, (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CON	THE GENERAL CONDITION				
2.	TAX COMPLIANCE REQUIREMENTS					
2.1	BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX	X OBLIGATIONS.				
2.2	BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE ISSUED BY SARS TO ENABLE THE ORGAN OF STATE STATUS.					
2.3	APPLICATION FOR THE TAX COMPLIANCE STATUS (TCS E-FILING. IN ORDER TO USE THIS PROVISION, TAXPAY E-FILERS THROUGH THE WEBSITE <u>WWW.SARS.GOV.Z</u>	ERS WILL NEED TO REGIS	Y ALSO BE MADE VIA STER WITH SARS AS			
2.4	FOREIGN SUPPLIERS MUST COMPLETE THE PRE-AWA	RD QUESTIONNAIRE IN PA	RT B:3.			
2.5	BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFIC	ATE TOGETHER WITH THE	BID.			
2.6	IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.					
2.7	WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED		CENTRAL SUPPLIER			
3.	QUESTIONNAIRÉ TO BIDDING FOREIGN SUPPLIERS					
3.1.	IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOU	TH AFRICA (RSA)?	☐ YES ☐ NO			
3.2.	DOES THE ENTITY HAVE A BRANCH IN THE RSA?		☐ YES ☐ NO			
3.3.	DOES THE ENTITY HAVE A PERMANENT ESTABLISHME	NT IN THE RSA?	☐ YES ☐ NO			
3.4.	DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN 1	THE RSA?	☐ YES ☐ NO			
3.5.	IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF	TAXATION?	☐ YES ☐ NO			
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 ABOVE.						
	NB: FAILURE TO PROVIDE ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID. NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE.					
SIG	NATURE OF BIDDER:					
CAF	PACITY UNDER WHICH THIS BID IS SIGNED:					
DAT	E:					

MBD 4

#### **DECLARATION OF INTEREST**

- 1. No bid will be accepted from persons in the service of the state<sup>1</sup>.
- 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.

3.1	Full Name of bidder or his or her representative:
3.2	Identity Number:
3.3	Position occupied in the Company (director, trustee, shareholder²):
3.4	Company Registration Number:
3.5	Tax Reference Number:
3.6	VAT Registration Number:
3.7	The names of all directors / trustees / shareholders members, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below.
3.8	Are you presently in the service of the state?
	3.8.1 If yes, furnish particulars

- (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.

<sup>1</sup> MSCM Regulations: "in the service of the state" means to be -

<sup>&</sup>lt;sup>2</sup> 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 and who may be involved with the evaluation and or adjudication of this bid?	
	3.10.1 If yes, furnish particulars	
3.11	Are you, aware of any relationship (family, friend, other) between any other bidd persons in the service of the state who may be involved with the evaluati adjudication of this bid?	on and or
	3.11.1 If yes, furnish particulars	
3.12	2 Are any of the company's directors, trustees, managers, principle share stakeholders in service of the state?	eholders o YES/NO
3.13	3 Are any spouse, child or parent of the company's directors, trustees, manage shareholders or stakeholders in service of the state?	rs, principle <b>YES/NO</b>
3.14	Do you or any of the directors, trustees, managers, principle shareholders, or st of this company have any interest in any other related companies or business not they are bidding for this contract?	whether or <b>YES / NO</b>

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

Capacity

Full name	Identity number	State employee number
Signature		Date

Name of Bidder

### MBD 5

# DECLARATION FOR PROCUREMENT ABOVE R10 MILLION (ALL APPLICABLE TAXESINCLUDED)

For all procurement expected to exceed R10 million (all applicable taxes included), bidders must complete the following questionnaire:

NO.	QUESTION	ANSWER (TICK WHICH RESPONSE IS APPLICABLE)	
		YES	NO
1.	Are you by law required to prepare annual financial statements?		
1.1	If yes, submit audited annual financial statements for the past three years or since the dateof establishment if established during the last 3 years.		

NO.	QUESTION	ANSWER (TICK WHICH RESPONSE IS APPLICABLE)	
		YES	NO
2.	Do you have any outstanding undisputed commitments for municipal services towards any municipality for more than 3 months or any other service provider in respect of which payment is overdue for more than 30 days?		
2.1	If no, this serves to certify that the bidder has no undisputed commitments for municipal services towards any municipality for more than 3 months or other service provider in respect of which payment is overdue for more than 30 days.		
2.2	If yes, provide details:		

NO.	QUESTION	ANSWER (TICK WHICH RESPONSE IS APPLICABLE)	
		YES	NO
3.	Has any contract been awarded to you by an organ of state during the past five years, including particulars of any material noncompliance or dispute concerning the execution of such contract?		
3.1	If yes, provide details:		

NO.	QUESTION	ANSWER (TICK WHICH RESPONSE IS APPLICABLE)	
		YES	NO
4.	Will any portion of the goods of services be sourced from outside the Republic, and if so, what portion, and whether any portion of payment from the municipality is expected to be transferred outside of the Republic?		
4.1	If yes, provide details:		
	1		
	CERTIFIC	ATION	
I, THE I	UNDERSIGNED (NAME)		
CERIF	Y THAT THE INFORMATION FURNISHED ON T	HIS DECLARATION F	ORM IS CORRECT.
I ACCE	EPT THAT THE STATE MAY ACT AGAINST ME	SHOULD THIS THIS	DECLARATION PROVE TO
FALSE	<u>:</u>		
Signature Date			
	Signature		Date

Name of Bidder

Position

**MBD 6.1** 

# PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

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

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

#### 1. GENERAL CONDITIONS

- 1.1 The following preference point systems are applicable to invitations to tender:
  - the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
  - the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

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

- a) The applicable preference point system for this tender is the 80/20 preference point system.
- b) The 80/20 preference point system will be applicable in this tender. The lowest acceptable tender will be used to determine the accurate system once tenders are received.
- 1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:
  - (a) Price; and
  - (b) Specific Goals.

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

The maximum points for this tender are allocated as follows:

	POINTS	POINTS
PRICE	80	90
SPECIFIC GOALS	20	10
Total points for Price and SPECIFIC GOALS	100	100

- 1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.
- 1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

#### 2. DEFINITIONS

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

#### 3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

#### 3.1. POINTS AWARDED FOR PRICE

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

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

80/20 or 90/10  $Ps = 80 \left(1 - \frac{Pt - P}{Pmin} \right) \text{ or } Ps = 90 \left(1 - \frac{Pt - P}{Pmin} \right)$ 

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

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

#### 3.2.1. POINTS AWARDED FOR PRICE

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

 $Ps = 80 \ (1 + \frac{Pt - P}{P \ max})$  or  $Ps = 90 \ (1 + \frac{Pt - P}{P \ max})$ 

Where

4.5.

Pmax = Price of highest acceptable tender

#### 4. POINTS AWARDED FOR SPECIFIC GOALS

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

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

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

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

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

The specific goals allocated points in terms of this tender	Number of points Allocated on 90/10 system	Number of points Allocated on 80/20 system
51% Black-owned enterprises	04	05
100% Women-owned enterprises	02	05
100% Youth-owned enterprises	02	05
Where the enterprise head office or primary place of business is located within O.R. Tambo District.	02	05

#### **DECLARATION WITH REGARD TO COMPANY/FIRM**

TYPE OF COMPANY/ FIRM

4.3.	Name of company/firm
4.4.	Company registration number:

	Partnership/Joint Venture / Consortium
	One-person business/sole propriety
	Close corporation
	Public Company
	Personal Liability Company
	(Pty) Limited
	Non-Profit Company
	State Owned Company
ITICK	APPLICABLE BOX1

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

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

#### DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

- 1 This Municipal Bidding Document must form part of all bids invited.
- 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).
- 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	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?	Yes	No
	(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).		
	The Database of Restricted Suppliers now resides on the National Treasury's website( <a href="www.treasury.gov.za">www.treasury.gov.za</a> ) and can be accessed by clicking on its link at the bottom of the home page.		
4.1.1	If so, furnish particulars:		
4.2	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)?	Yes	No
	The Register for Tender Defaulters can be accessed on the National Treasury's website ( <a href="www.treasury.gov.za">www.treasury.gov.za</a> ) by clicking on its link at the bottom of the home page.		

4.2.1	If so, furnish particulars:			
4.3	4.3 Was the bidder or any of its directors convicted by a court of law (includinga court of law outside the Republic of South Africa) for fraud or corruption during the past five years?			
4.3.1	If so, furnish particulars:			
	Overtime .	Vac		
4.4	Question  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	No No	
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	No	
4.7.1	If so, furnish particulars:			
	CERTIFICATION			
	NDERSIGNED (FULL NAME)C			
	T THAT, IN ADDITION TO CANCELLATION OF A CONTRACT, ACTION MA			
	ME SHOULD THIS DECLARATION PROVE TO BE FALSE.			
	Signature Date			
	Position Name of Bi			

#### CERTIFICATE OF INDEPENDENT BID DETERMINATION

- 1 This Municipal Bidding Document (MBD) must form part of all bids<sup>1</sup> invited.
- 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 of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).<sup>2</sup> Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
- 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.
- 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 bidrigging.
- In order to give effect to the above, the attached Certificate of Bid Determination (MBD 9) must be completed and submitted with the bid:
- <sup>1</sup> Includes price quotations, advertised competitive bids, limited bids and proposals.
- <sup>2</sup> 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:

ORTDM SCMU 30-25/26: APPOINTMENT OF A PANEL OF SERVICE PROVIDERS FOR IMPLEMENTATION OF CIVIL WORKS IN WATER SERVICES SCHEMES IN O.R. TAMBO DISTRICT MUNICIPALITY FOR 36 MONTHS (8CE OR HIGHER) FOR EMERGENCY.

#### O.R. Tambo District Municipality

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 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 quotation independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium<sup>3</sup> 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 this invitation; or
  - (f) submitting a bid 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 bid.

<sup>&</sup>lt;sup>3</sup> 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

# SCHEDULE F - SCHEDULE OF PREVIOUS EXPERIENCE

Full name of signatory: .....

Provide the following information on relevant previous experience (indicate specifically projects of similar or larger size and/or which is similar with regard to type of work).

	Value (R)	Value (R) Year(s)	Reference			
Description	VAT excluded	work executed	Name	Organization	Tel no	
ne of Tenderer			Date:			
ature:						

This form must be completed by the authorized persons of the bidder's current or previous clients. The form must be fully completed, signed and stamped. Forms which are neither complete, nor signed nor stamped will not be considered for evaluation.

## 1. REFERENCE FOR THE BIDDER

Name of Institution (Client)	
Contract/ Tender Number	
Contract Description	
Name of Service Provider	
(Bidder)	
Value of Project	
Commencement Date	
Contractual Completion Date	
Bidder's Completion Date	

# 1.1 Please score the performance of the above-mentioned company by marking the relevant box

Performance Rating					Comments
Work performed in co	mpliance with contract term	Excellen	t	5	
		Good		4	
		Fair		3	_
		Poor		2	
Fimelines of work are	met	Excellen	t	5	
		Good		4	
		Fair		3	
		Poor		2	
Quality of service		Excellen	t	5	
		Good		4	1
		Fair 3		3	
		Poor 2		2	-
Communication and accessibility		Excellen	t	5	
		Good		4	
		Fair		3	1
		Poor		2	-
Would you recommend using this service provider in future		Yes	No		If no, please provide reasons:
VERALL PERFORM	IANCE				
Excellent	Good	Fair			Poor
		I			
	d Person		_		n

Date

Signature \_\_\_\_\_

Official Stamp

ORTDM	M SCMU 30-25/26 APPOINTMENT OF A PANEL OF SERVICE PROVIDERS FOR IMPLEMENTATION OF CIVIL WORKS IN WATER SERVICES SCHEMES IN O.R. TAMBO DISTRICT MUNICIP, FOR 36 MONTHS (8CE OR HIGHER) FOR EMERGENCY.	ALITY

# SCHEDULE G - SCHEDULE OF CURRENT PROJECTS

Provide the following information on current projects. This information is material to the award of the Contract.

	Value (R)	Value (R) Date	Reference		
Description	VAT excluded	Appointed	Name	Organisation	Tel no
					_
e of Tenderer:			Date:		•••••
4					
ature:					

TH	IE CON	TRACT	

# C1 AGREEMENTS AND CONTRACT DATA

- C1.1 Form of Offer and Acceptance
- C1.2 Contract Data
- C1.3 Special Conditions
- C1.4 Occupational Health and Safety Agreement
- C1.5 Supply Chain Management Policy

# FORM C1.1 FORM OF OFFER AND ACCEPTANCE

## **OFFER**

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract in respect of the following works: PROJECT NO.: ORTDM SCMU 29-25/26: APPOINTMENT OF A PANEL OF SERVICE PROVIDERS FOR IMPLEMENTATION OF CIVIL WORKS IN WATER SERVICES SCHEMES IN O.R. TAMBO DISTRICT MUNICIPALITY FOR 36 MONTHS (6CE-7CE) FOR EMERGENCY.

The Tenderer, identified in the Offer signature block below, has examined the documents listed in the Tender Data and addenda thereto as listed in the Tender Schedules, and by submitting this Offer has accepted the Conditions of Tender.

By the representative of the Tenderer, deemed to be duly authorised, 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 wo	ords); R	(in figures).
returning one copy of this Data, whereupon the Ten	ed by the Employer by signing the Ads document to the Tenderer before derer becomes the party named as	e the end of the period of validit	y stated in the Tender
in the Contract Data.			
Signature(s)		-	
Name(s)			
Capacity _		-	
For the tenderer			
	(Name and addre	ss of organisation)	
Name & Signature Of Witness			
	Name	Date	

#### **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 1 Agreements and Contract Data (which includes this Agreement)

Part 2 Pricing Data

Part 3 Scope of Work

Part 4 Site information

Part 5 Additional Relevant Documentation

Part 6 Contract Drawings

and drawings and documents or parts thereof, which may be incorporated by reference into Parts 1 to 6 above.

Deviations from and amendments to the documents listed in the Tender Data, including the proposed key personnel and any addenda thereto 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, which must be duly signed by the authorised representative(s) of both parties.

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 at or just after the date this Agreement comes into effect. 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 days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this Agreement, this Agreement shall constitute a binding contract between the parties.

Signature(s)		
Name(s)		
Capacity		
For the tenderer	(Name and address of orga	nisation)
Name & Signature Of Witness		
	Name	Date

# **SCHEDULE OF DEVIATIONS**

#### Notes:

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

1	Subject	
	Details	
2	Subject	
	Details	
3		
	Details	
4	Subject	
	Details	
5	Subject	
	Details	
6	Subject	
	Details	

By the duly authorised representatives signing this Schedule of Deviations, 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 change 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.

FOR THE TENDERER:	
Signatures (s)	
Name(s)	_
Capacity	
	(Name and address of Organisation)
Name & Signature Of Witness	Date
FOR THE EMPLOYER	
Signatures (s)	
Name(s)	
Capacity	
	(Name and address of Organisation)
Name & Signature Of Witness	Date

# FORM C1.2 CONTRACT DATA

# PART C1.2 DATA PROVIDED BY THE EMPLOYER

#### Notes to Tenderer:

- 1. The Tenderer is not required to complete this data in full.
- 2. Please read both the General Conditions of Contract for Construction Works, Third Edition, 2015. (GCC 2015) and the relevant parts of its Guidance Notes to understand the implications of this Data which the tenderer is required to complete.
- 3. Copies of these conditions of contract may be obtained from the South African Institution of Civil Engineering www.saice.org.za
- 4. The number of the clause which requires the data is shown in the left-hand column for each statement; however, other clauses may also use the same data
- 5. 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.
- 6. 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.
- 7. The General Conditions of Contract shall be read in conjunction with the variations, amendments and additions set out in the Contract Data below. Each item of data given below is cross referenced to the clause in the General Conditions of Contract to which it mainly applies
- 8. The following contract specific data are applicable to this Contract:

Clause	Statement	Data
	The conditions of contract are	The General Conditions of Contract for Construction Works, Third Edition, 2015. (GCC 2015)
1		General
1.1.1.13	Defects Liability Period is	12 months after the Completion Date
1.1.1.14	Due Completion Date is	5 months from the access date (as described in clause 5.4.1)
1.1.1.15	The <i>Employer</i> is	O. R. Tambo District Municipality
1.1.1.16	The Employer's Agent	To which this <i>Contract</i> relates shall be the delegated individual specified in writing by the Employer within seven days of the commencement date.
1.1.1.17	The Employer's Agent Representative	To which this <i>Contract</i> relates shall be the delegated individual specified in writing by the Employer's Agent within seven (7) days of the commencement date.
1.1.1.26	The <i>Pricing Strategy</i> is	A re-measurement contract
1.1.1.29	The Site is	All Areas within the boundaries of
1.1.1.30	The Site Information is	Specified in Part C4: Site Information of this document
1.1.1.33	The Works are	Specified in Part C3: Employer's Works Information of this document

1.2.1	The Employer's delivery address is	O. R. Tambo District Municipality
	Physical Address	O. R. Tambo House Nelson Mandela Drive Mthatha 5100
	Postal Address	Private Bag X 6043 Mthatha 5100
	Email Address	Shall be specified by the <i>Employer</i> within Seven days of the commencement date.
1.2.1	The <i>Employer's</i> Agent's delivery address	JTN Consulting 25 Indwe Street Southernwood Mthatha, 510 E-mail: admin@jtnconsulting.co.za Telephone: (033) 342 3278
1.3.2	The law of the contract is the law of	the Republic of South Africa that applies to agreements executed and wholly performed within the Republic of South Africa
1.3.3	The language of this Contract is	English
3		Employer's Agent
3.2.3	The Employer's Agent shall first consult and obtain specific approval	from the <i>delegated</i> Employer's Agent: <i>JTN</i> Consulting, prior to executing any of its functions or duties, with respect to following clauses:  1. All the Employer Agent's actions as contemplated in Clause 3.3.1  2. All the Employer Agent's actions as contemplated in Clause 3.3.4  3. All the Employer Agent's actions as contemplated in Clause 5.11.1  4. All the Employer Agent's actions as contemplated in Clause 5.12.4  5. All the Employer Agent's actions as contemplated in Clause 6.4.1  6. All the Employer Agent's actions as contemplated in Clause 10.1.5  7. All the Employer Agent's actions as contemplated in Clause 10.2.3
3.2.4	The <i>Employer's Agent</i> for Health and Safety	To which this Contract relates shall be the delegated individual specified in writing by the Employer's Agent within seven days of the commencement date.
3.2.4	The <i>Employer's Agent</i> for Social Facilitation	To which this Contract relates shall be the delegated individual specified in writing by the Employer's Agent within seven days of the commencement date.
5		Time and Related Matters

5.1.1	The special non-working days set out in the <i>Contract</i> are	<ol> <li>the following:</li> <li>South African Public Holidays, and</li> <li>Annual builders' holiday traditionally starts on or around 15 December and ends in the second week of January.</li> </ol>
5.3.1	The Engineer's Agent shall issue an instruction to the Contractor to commence with the Work	On approval of the following documentation:  1. Health and Safety Plan  2. OHS Agreement  3. Department of Labour (DoL) notification of construction work  4. Initial Programme  5. Letter of Good Standing  6. Performance Guarantee  7. Insurance for the Works  8. Contractor's Key Personnel Which will be within 07 days after the approval of the Documentation required from the Contractor
5.3.2	The Contractor is to Submit the documentation stipulated in clause 5.3.1	Within 07 days of the Commencement Date
5.4.1	Access to and possession to the Site	is granted on the date of the site handover meeting which should occur no later than Seven (07) days after Employer's Agent's instruction to commence carrying out the Works referred to in Clause 5.3.1.
5.8.1	The non-working days set out in the Contract are  The special non-working days set out in the Contract are	weekends  the following:  1. all South African gazetted public holidays, and  2. Annual builders' holiday traditionally starts on / or around 15 December and ends in the second week of January. The year-end builders' holiday does not exceed 15 Working days in duration
5.12.1	Extension of time for practical completion due to abnormal climatic conditions shall be calculated according to the requirements of the following equation.	V = (Nw - Nn) + (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 rainfall of 10mm or more has been recorded.  Nn = Average number of days in the relevant calendar month, as derived from existing rainfall records, as stated below, on which rainfall of 10 mm or more has been recorded for the calendar month;  Rw = Actual rainfall in mm recorded for the calendar month under consideration; and  Rn = Average rainfall in mm for the calendar month as derived from existing rainfall records as stated in the Site Information.

		work is expected	of days per month on which not to be possible as a result of are as per the table below.
		MONTH	EXPECTED NUMBER OF WORKING DAYS LOST AS A RESULT OF ABNORMAL RAINFALL
		January	7
		February	5
		March	4
		April	3
		May	2
		June	2
		July	2
		August	2
		September	4
		October	5
		November	5
		December	6
5.13.1	The penalty for delay or late completion is	Date to complete portion thereof th Works to the external Clause 5.14.2 to Completion for the shall be liable to stated below as (which shall elaps Date for the Works and the accompletion of the portion. The penal 0.02% of the County Completion of the County Completion of the County Completion of the County Completion of the County Coun	fails by the Due Completion the Works, or any specific at is identified in the Scope of ent which entitles him in terms of receive a Certificate of Practical e Works, then the Contractor the Employer for the sum(s) a) penalty/ies for every day e between the Due Completion as or the specific portion of the ctual Date of Practical e Works or of the specific alty for delay shall be R5 000 or intract Value (excluding VAT) wer is the higher value."
6		Payment and rel	ated matters
6.2.1	The performance guarantee for liability of the Contractor for claims made against the Contractor arising out of the Contractor's failure to deliver the requested Works per the standards, practices, methods and procedures conforming to applicable laws and exercising that degree of skill, care, diligence, prudence and foresight that would reasonably and ordinarily be expected from a skilled and experienced person engaged in a similar type of undertaking under similar circumstance is	10% of the Cont	ract Price
6.2.2	The security of ten percent retention of the value of the Works		d from the Contractor's first ertificates in equal increments as icy.

6.8.2	Contract Price Adjustment Factor	is not applicable for this contract	
6.10.1.5	The advance payment percentage limit for plant and materials delivered to <i>Site</i> but not yet built into the <i>Permanent Works</i> is		
6.10.1.5	The advance payment percentage limit for plant and materials not yet supplied to Site	is not applicable for this contract	
6.10.3	The percentage retention is	10% of the value of the Works	
6.10.3	The limit of retention money is	10% of the value of the Works	
8		Risks and related matters	
8.6.1.1.2	The value of plant and materials supplied by the Employer to be included in the insurance sum is	NIL	
8.6.1.3	The minimum limit of indemnity for insurance in respect of loss of or property damage (except for the <i>Works</i> , Plant and Materials and Equipment) and liability for bodily injury to or death of a person (not an employee of the <i>Contractor</i> ) caused by activity in connection with this <i>Contract</i> for any one event is:	R5,000,000	
8.6.1 .5	<ul> <li>a) The minimum limit of indemnity for insurance in respect of loss or damage to the Works, Plant and Materials</li> </ul>	The replacement cost thereof.	
	b) The minimum limit of indemnity for insurance in respect of the death of or bodily injury to employees of the <i>Contractor</i> arising out of and in the course of their employment in connection with this <i>Contract</i> for any one event is	As prescribed by the Compensation for Occupational Injuries and Diseases Act No. 130 of 1993 and the <i>Contractor's</i> common-law liability for people falling outside the scope of the Act with a limit of indemnity of not less than R1 000 000 (One Million South African Rand).	
10		Claims and disputes	
10.5.3	The Adjudication Board shall consist of	one (1) member	
10.7.1	The determination of disputes shall be by arbitration		
10.7.2	The arbitration procedure is	the latest edition of Rules for the Conduct of Arbitrations published by the Association of Arbitrators (Southern Africa) or its successor body.	
	The place where arbitration is to be heldis	Mthatha	
	The person who shall choose anarbitrator	the Chairman of the Association of Arbitrators( <u>www.arbitrators.co.za</u> ) or its successor body.	

# PART C1.2.3 DATA PROVIDED BY THE CONTRACTOR

#### Notes to Tenderer:

- 9. The Tenderer is required to complete this data in full.
- Please read both the General Conditions of Contract for Construction Works, Third Edition, 2015.(GCC 2015) and the relevant parts of its Guidance Notes to understand the implications of this Data which the tenderer is required to complete.
- 11. The number of the clause which requires the data is shown in the left-hand column for each statement; however, other clauses may also use the same data

CLAUSE	STATEMENT	DATA
	The conditions of contract are	The General Conditions of Contract for Construction Works, Third Edition, 2015. (GCC 2015)
1		General
1.1.1.9	The Contractor is	
1.2.1	The Contractor's delivery address is	
	Physical Address	
	Postal Address	
	Email Address	
4.4.2	The Contractor must Sub-Contract any parts of the Contract.	To which this Contract relates that a portion of the <i>Value of the Works</i> must be Sub-Contracted to a Local SMME or the Designated Groups as agreed during the Procurement of the Sub-Contractors is <b>10%</b> .
4		Contractor's General Obligations
4.10.2	Contractor shall provide monthly reports outlining compliance with	Site progress and Employer's CPG and EPWP objectives at intervals specified in Part C3: Employer's Works Information of this document.
4.11.1	Contractor's Competent Employees are:	
	Title	Construction Manager
	Name	
	Qualifications	
	Tel No	
	Email	

	Title	Site Agent	
	Name		
	Qualifications		
	Tel No		
	Email		
	Title	Construction Site Foreman	
	Name		
	Qualifications		
	Tel No		
	Email		
	Title	Safety Officer	
	Name		
	Qualifications		
	Tel No		
	Email		
	SACPMP Registration Number		
4.12.2	Contractor's Superintendence:	The Contractor's <b>Site Agent, Site Foreman</b> an <b>Officer MUST</b> be on site at all times when work performed. No work may be performed without these being on site.	is being
	g, and the proposed Personnel mu	er Personnel rather than the one's listed above, must set have the same or very similar Qualifications and	
Security	1		
6.2.1	The security to be provided by the	e Contractor shall be one of the following:	
	Type of security		Select (Tick)
	1. Cash Deposit of 10% of the Con	tract Sum plus retention of 10% of the value of Works	(*****)
		f 10% of the Contract Sum plus retention of 10% of	
	the value of Works		
	Note A		
	The <b>Performance Guarantee</b> sh Stock Exchange or owned by suc	hall be of an Insurance Company listed on the Johannes oh a company, a Registered South African Bank or a re- al or national development agency	

## PART C1.4 SPECIAL CONDITIONS OF CONTRACT

#### Notes to Tenderer:

- 1. Particular Conditions of the Contract defines conditions that are specific to a Project.
- 2. The Particular Conditions of the Contract are used for addition/ omission and change of General Conditions of the Contract.
- 3. The number of the clause which requires the data is shown in the left-hand column for each statement; however, other clauses may also use the same data

Clause	Statement	Data
		Amendment of GCC 2015 Clauses
	Employer's SCM Policy	
	Insertion of additional clause	The parties agree that this contract shall be subject to the Employer's Supply Chain Management Policy (SCM Policy') that was applicable on the date the bid was advertised.
		Abuse of the supply chain management system is not permitted and may result in cancellation of the contract, restriction of the supplier, and/or the exercise by the Employer of any other rights and remedies available to it as described in the SCM Policy
	Ambiguity and discrepancy	
	Insertion of additional wording:	All parts of the Contract should be read together and that their original purpose is to be mutually explanatory. However, if there is a discrepancy between the information provided, the order of priority of contract documents is as stated below:  1. the Contract Agreement 2. the Letter of Acceptance (this is the formal acceptance of the contractor's tender and usually presents the point in time when Contractual Parties enter the Contract), 3. the Contract Data, 4. the Particular Conditions of the Contract 5. the General Conditions of the Contract, 6. the Specification, 7. the Drawings, and 8. the Schedules and any other document forming part of the Contract In the event of a discrepancy or ambiguity, the document of higher priority takes precedence.
	Assignment	
	Delete wording and replace with the following:	The Employer will, at all times, be entitled to cede its rights and/or delegate its obligations under this Contract and/or assign this Contract to any financier and/or nominee of any financier of the Employer for purposes of the programme. Any cession and/or delegation and/or assignment by the Employer to any such financier or nominee of any financier is expressly permitted. The Contractor shall, if requested thereto by the Employer and/or any such financier, sign a separate authority giving effect to the aforementioned in such form as the Employer and/or any financier of the Employer may reasonably require

The Employer will, at all times, be entitled to cede its rights and/or delegate its obligations under this Contract and/or assign this Contract to any financier and/or nominee of any financier of the Employer for purposes of the programme. Any cession and/or delegation and/or assignment by the Employer to any such financier or nominee of any financier is expressly permitted. The Contractor shall, if requested thereto by the Employer and/or any such financier, sign a separate authority giving effect to the aforementioned in such form as the Employer and/or any financier of the Employer may reasonably require
The Contractor shall not be entitled to cede any of its rights and/or delegate any of its obligations under this <i>Contract</i> to any person without the prior written consent of the <i>Employer</i> .
The Employer allows access to, possession and use of each part of the Site to the Contractor which is necessary for the work included in this contract. The Employer shall grant access and use of the Site no later than seven days after Employer's Agent's instruction to commence with the Works.  If the Employer does not give the Contractor access to, possession and use of the Site within seven days of the Employer's Agent instruction to commence with the Works, access to, possession and use of the Site shall be as the date when Employer's Agent instructed the Contractor to commence with the Works.
ne
No extension of time will be granted in respect of any delays attributed to normal climatic conditions. Normal climatic conditions shall be deemed to include normal rainfall and associated wet conditions and materials, strong winds and extremes of temperature. However, in the event that delays to critical activities exceed the number of working dates listed below for each month, then abnormal climatic conditions shall be deemed to exist, and an extension of time may be claimed in accordance with the provisions of clause 5.12  The number of days quoted below shall be regarded as fair estimate of the delays to be anticipated and allowed for under normal climatic conditions where inclement weather prevents or disrupts critical work

MONTH	EXPECTED NUMBER OF WORKING DAYS LOST AS ARESULT OF ABNORMAL RAINFALL
JANUARY	7
FEBRUARY	5
MARCH	4
APRIL	3
MAY	2
JUNE	2
JULY	2
AUGUST	2
SEPTEMBER	4
OCTOBER	5
NOVEMBER	5
DECEMBER	6
TOTAL	47

Claims for delays for abnormal climatic conditions shall be accompanied by substantiating facts and evidence, which shall be submitted timeously as each day or half-day is experienced.

It shall be noted that where the critical path is not affected, no extension of time for abnormal climatic conditions or for any other reason will be considered

Termination by the Employer

#### Insertion of additional wording

- 9.2.1.3.9 Has substantially broken a health or safety regulation.
- 9.2.1.3.10 Failure to obtain access to Site due to non-compliant documentation as stated in clause 5.3.1
- 9.2.1.3.11 Has failed to provide or update the required insurances within the prescribed time
  - 9.2.1.4 Where the Works are no longer required
  - 9.2.1.5 Where the funding for the *Works* is no longer available
  - 9.2.1.6 An event occurs that stops the Contractor from completing the works by the date shown on the Accepted Programme and is forecast to delay Completion by more than 13 weeks
  - 9.2.1.7 The Service Provider becomes insolvent or Liquidated
  - 9.2.1.8 If as a result of Force Majeure, the Service provider is unable to perform part or the whole service for a period of thirty 30 days.

### Right of Retention

The *Contractor* hereby waives and abandons any and all lien and/or any other right of retention that the *Contractor* now has or in future may have, in terms of the Contract, the common law or otherwise, in respect of the works, the Site or any property belonging to the *Employer* and shall under no circumstances be entitled to withhold delivery of the same to the *Employer*. The Contractor warrants that all Subcontractors shall, mutatis mutandis, waive and abandon any such Subcontractor's lien or any other right of retention, in favour of the *Employer*.

	Joint Ventures
	Suppose the <i>Contractor</i> constitutes a joint venture, consortium, or other unincorporated groupings of two or more persons or organizations. In that case, these persons or organisations are deemed to be jointly and severally liable to the <i>Employer</i> for the performance of this <i>Contract</i> .
	Unless already notified to the <i>Employer</i> , the persons or organisations notify the <i>Employer's</i> Agent within two weeks of the date of acceptance of the Contract of the key person who has the Authority to bind the <i>Contractor</i> on their behalf.
	The <i>Contractor</i> does not alter the composition of the joint venture, consortium, or other unincorporated groupings of two or more persons without the consent of the <i>Employer</i> having been given to the <i>Contractor</i> in writing.
	Nothing in this Contract shall be deemed to create any joint venture, partnership or principal- agent relationship between the Parties and neither Party shall hold itself out in its advertising or otherwise in any manner which would indicate or imply such relationship with the other Party according to this Contract
	The dissolution of the <i>Joint Venture</i> shall be deemed as a separation and that constitutes the Contract to be Terminated
	Illegal or Corrupt Practices
	Any offer, payment, consideration, or benefit of any kind made by the <i>Contractor</i> , which constitutes or could be construed either directly or indirectly as an illegal or corrupt practice, an inducement or reward for the award or in the execution of this <i>Contract</i> constitutes grounds for terminating the <i>Contractor's</i> obligation to Provide the Works or taking any other action as appropriate against the <i>Contractor</i> (including civil or criminal action).
	The Employer may terminate the Contractor's obligation to provide the Works if the Contractor (or
	any member of the <i>Contractor</i> where the <i>Contractor</i> constitutes a joint venture, consortium or other unincorporated groupings of two or more persons or organisations), or a director of any such entity, is found guilty by a competent court, administrative or regulatory body of participating in illegal or corrupt practices.
SCC4.3	Such practices include, but are not limited to, the making of offers, payments, considerations, or benefits of any kind or otherwise, whether in connection with any procurement process or contract with the Employer or other people or organisations and including in circumstances where the <i>Contractor</i> or any such member is removed from the approved vendor database of the <i>Employer</i> as a consequence of such practice.
	Confidentiality
	The <i>Contractor</i> does not disclose or make any information arising from or in connection with this <i>Contract</i> available to Others. This undertaking does not, however, apply to information which at the time of disclosure or thereafter, without default on the part of the <i>Contractor</i> , enters the public domain or to information which was already in possession of the <i>Contractor</i> at the time of disclosure (evidenced by written records in existence at that time). Should the <i>Contractor</i> disclose information to Others in terms of clause 25.1, the <i>Contractor</i> ensures that the provisions of this clause are complied with by the recipient.
	Any information communicated by the <i>Employer</i> to the <i>Contractor</i> in connection with the Contract and any secret and/or confidential information of the <i>Employer</i> otherwise acquired by the <i>Contractor</i> shall be regarded by the <i>Contractor</i> as strictly confidential and shall not, without the prior written consent of the <i>Employer</i> in each instance, be published or disclosed to any other party or be used for any purpose whatsoever other than to execute the Works.
	If the Contractor is uncertain about whether any such information is confidential, it is to be regarded as such until notified otherwise in writing by the Employer's Agent.
	Suppose the Contractor is, at any time, required by law to disclose any such information which is required to be kept confidential. In that case, the <i>Contractor</i> , to the extent permitted by law before disclosure, notifies the <i>Employer</i> so that an appropriate protective order and/or any other action can be taken if possible, before any disclosure. If such protective order is not, or cannot, be obtained, then the <i>Contractor</i> may only disclose that portion of the information which it is required to be disclosed by law and uses reasonable efforts to obtain assurances that confidential treatment shall be afforded to the information so disclosed.

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	The taking of images (whether photographs, video footage or otherwise) of the works or any portion thereof, in the course of Providing the Works and after Completion, requires the prior written consent of the <i>Employer's Agent</i> . All rights in and to all such images vests exclusively in the <i>Employer</i> .
	The Contractor ensures that all his subcontractors abide by the undertakings in this clause.
	Existing Services and Housekeeping
	The Site may be in continuous operation and, accordingly, the <i>Contractor</i> shall assume that existing services and access ways shall be in continuous use and fully operational at all times.
	The Contractor shall be held responsible for repair or making good of existing installations that may be required due to any act or omission of whatever nature by the <i>Contractor</i> and for any costs to the <i>Employer</i> which may arise, due to the <i>Contractor</i> preventing in any manner whatever the normal operation and use of such services and access ways.
	During the execution of the Works, the <i>Contractor</i> shall keep the Site reasonably free from all unnecessary obstructions and shall store or dispose of any <i>Contractor</i> 's Equipment and surplus materials and without delay clear away and remove from the Site any wreckage, rubbish or temporary works no longer required.  The <i>Contractor</i> must use and/or attend to all areas of the Site which are used by it or under its
	control from time to time in a safe, professional and responsible manner.
	The Contractor shall be responsible for all areas of the <i>Site</i> which are used by it or under its control from the time the area in question is made available to the <i>Contractor</i> until the time the <i>Employer</i> requires the <i>Site</i> to be returned to it or otherwise when the <i>Contractor</i> demobilises from the area of the <i>Site</i> in question and returns to the <i>Employer</i> all of the <i>Employer</i> 's property.
	The Contractor must ensure that all such areas of the Site are kept at all times in a safe, clean and hygienic condition and in good working order and repair and the Contractor shall promptly repair, at its cost, any damage to the Site which is attributable to the Contractor or its employees of sub-contractors, failing which the Employer shall be entitled to repair the Site and recover the cost of such repairs from the Contractor.
	Any damages suffered by the <i>Employer</i> as aforesaid shall be paid by the <i>Contractor</i> within ten business days or shall be set off against any amounts owing to the <i>Contractor</i> by the <i>Employer</i> .
	The Contractor shall not unnecessarily interfere with the operations of the Employer or Others at the Site. The Employer has the right to refuse access to the Site to any of the Contractor's employees, representatives and/or subcontractors whom it suspects of being a health and safety or other risk.
	The Contractor shall not have any lien or right of retention in respect of the <i>Site</i> , the <i>works</i> and/or any other property belonging to the <i>Employer</i> .
	Indemnity against Contractor's Design
	The Contractor indemnifies and keeps indemnified the Employer against any losses and costs, including legal costs between attorney and client, and all other expenses whatsoever that the Employer may incur as a result of any action, proceeding or claim made against the Employer arising from the use of a design constituting an infringement of patent rights, design registration, registered trademarks or other exclusive rights in respect thereof. This indemnity does not apply to any infringement which is solely due to the Contractor having followed in its entirety instructions stipulated by the Employer.
	The <i>Employer</i> shall give the <i>Contractor</i> prompt notice of any such action, proceeding, claim or threat instituted or made against it or both of them. Promptly after the giving of such notice the Parties are to consult together about the subject of the notice and the <i>Employer</i> may at its option decide to a) permit the Contractor at the <i>Contractor</i> 's own expense to conduct any litigation that may ensue and all negotiations for a settlement of such litigation or claim with the proviso that the <i>Contractor</i> keeps the <i>Employer</i> informed of all steps that are taken and of the outcome; or b) conduct any litigation that may ensue and all negotiations for a settlement, in which event the <i>Employer</i> shall act in consultation with the <i>Contractor</i> and shall keep the <i>Contractor</i> informed of all aspects that are taken and of the outcome.

The *Contractor* hereby cedes and agrees to cede all intellectual property, excluding intellectual property in respect of which the *Contractor* can demonstrate proprietorship prior to the date of signature hereof, but including intellectual property specifically developed by the *Contractor* on behalf of the *Employer* under instruction and payment by the *Employer* and including all current and future technical information relating to the works; technical concepts; know-how; specifications; data; formulae; computer programs; design; patent and / or applications in respect thereof; copyrighted works; memoranda; scripts; reports; manuals; diagrams; drawings; including engineering drawings; prototypes; drafts in performing the works, whether completed or not and whether accepted, amended or rejected, and the like relating to the works, whether patented or not, and includes all intellectual property relating to the works developed by or on behalf of the *Employer*, to the *Employer*, its successors, assigns or legal representatives locally and / or internationally, together with the right to apply for Letters Patent in respect thereof.

It is further agreed that the *Employer* may apply in its name and its own cost for Letters Patent in respect of such inventions and registration of such designs locally and/or internationally.

The *Contractor* hereby agrees that when requested, he shall without any charges to the *Employer*, but at the latter's expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents relating to the works and/or the patent applications in any and all countries and for vesting titled thereto in the *Employer*, its successors, assign or legal representatives and the *Contractor* confirms and agrees that he shall assist the *Employer* to ensure that total and complete cession and transfer of all right, title and interest in the intellectual property takes place.

### Time

The Contractor acknowledges that time is of the essence to the performance of its obligations in terms of this Contract.

## **Discovery/Reproduction of Documentation**

The Contractor hereby authorises the Employer to reproduce all documentation made available by the Contractor to the Employer in connection with this Contract. In so far as the Contractor has any copyright protection in the items that are so reproduced by the Employer, the Contractor hereby grants a right and license to the Employer to reproduce the same for the purposes specified in this Contract. The Contractor keeps the Employer informed of any threats or claims made against it in respect of infringement of patent or other exclusive rights by virtue of the provision of the works.

# **Damages**

The *Employer* shall be entitled, in its sole discretion, to claim and recover from the *Contractor* damages *in lieu of* any penalty agreed upon in terms of this *Contract*.

#### Accrual

Unless otherwise provided *herein*, rights which accrue to a Party in terms of this *Contract* shall survive its termination.

#### **Commitments and Undertakings**

Neither Party shall be bound by any express, tacit or implied term, representation, warranty, promise nor the like not recorded *herein*. This *Contract* supersedes and replaces all prior commitments, undertakings or representations, whether oral or written, between the Parties in respect of the subject matter hereof.

### Validity and Enforceability of Contract

If any provision of this *Contract* is found to be invalid, unlawful or unenforceable, that provision shall be severable from the remaining provisions of this *Contract*, which shall continue to be valid and enforceable.

#### **Strategic Socio-Economic Objectives**

in terms of which the *Contractor* gives unconditional warranties and undertakings committing itself to the promotion of the strategic socio-economic objectives stipulated herein, including, but not limited to, warranties and undertakings to the effect that –

the Specific Goal Points information disclosed to the *Employer* in the bid response to the Tender Invitation

pursuant to which it was appointed, as supplemented subsequently in writing, is accurate and complete and that it shall maintain at least those levels of Specific Goal Points for the duration of the contract;
it shall only subcontract aspects of the Works to Subcontractors with which it has concluded Subcontracts and actively take steps towards achieving the <i>Employer's CPG</i> requirements for the empowerment of Subcontractor/s
it shall ensure that the execution of the <i>Works</i> and the expenditure of the project costs results in the achievement of the general socio-economic and empowerment objectives
it shall keep detailed records of –
its equity ownership and control and, where applicable, that of its duly appointed Subcontractors and/or suppliers.
a) its total spends on targeted enterprises used to fulfil its obligations in terms of the contract.
b) any transformation programmes and/or initiatives relating to skills development and transfer, employment equity and enterprise development of the Subcontractors and Target Individuals; and any public benefits and/or job opportunities created according to the fulfilment of its obligations in terms of the contract and provide monthly reports outlining compliance with such objectives to the Employer,
Contractor Obligations
in terms of which the <i>Contractor</i> unconditionally warrants and undertakes that, in its performance of its obligations under the <i>Contract</i> , it shall, at all times, -
owe a duty of care to the ORTDM and comply with the reasonable directions issued to it by the Employer, Employer's Agent and/or Employer's Agent Representative;
not do anything that constitutes, or is reasonably likely to constitute, a corrupt act or that is otherwise intended or is likely to harm the reputation of the ORTDM, the Contract; and
Undertake the <i>Works</i> in accordance with the standards, practices, methods and procedures conforming to applicable law, and exercising that degree of skill, care, diligence, prudence and foresight that would reasonably and ordinarily be expected from a skilled and experienced person engaged in a similar type of undertaking under similar circumstances.

# **FORM OF GUARANTEE**

# PERFORMANCE GUARANTEE

For use with the General Conditions of Contract for Construction Works, Third Edition (2015).

GUARANTOR DETAILS AND DEFINITIONS
"Guarantor" means:
Physical Address
"Employer" means
"Contractor" means:
"Employer's Agent" means:
"Works" means:
"Site" means:
"Contract" means: The Agreement made in terms of the Form of Offer and Acceptance and such amendments or additions to the Contract as may be agreed in writing between the parties.
"Contract Sum" means: The accepted amount inclusive of tax of R
Amount in words:
"Guaranteed Sum" means: The maximum aggregate amount of R
Amount in words:
Type of Performance Guarantee(Insert Variable or Fixed)
"Expiry Date" means

# **CONTRACT DETAILS**

Employer's Agent issues: Interim Payment Certificates, Final Payment Certificate, and the Certificate Completion of the Works as defined in the Contract.

# 1. VARIABLE PERFORMANCE GUARANTEE

- 1.1 Where a Variable Performance Guarantee has been selected, the Guarantor's liability shall be limited during the following periods to diminishing amounts of the Guaranteed Sum as follows:
- 1.1.1 From and including the date of signing the Performance Guarantee up to and including the date of the interim payment certificate certifying, for the first time, more than 50% of the Contract Sum:

R	
(Amount in words	)

1.1.2 From the day following the date of the said interim payment certificate up to and including the Expiry Date, or the date of issue by the Employer's Agent of the Certificate of Completion of the Works, whichever occurs first:

R	
(Amount in words	j

1.2 The Employer's Agent and/or the Employer shall advise the Guarantor in writing of the date on which the interim payment certificate certifying, for the first time, more than 50% of the Contract Sum, has been issued and the date on which the Certificate of Completion of the Works has been issued.

#### 2. FIXED PERFORMANCE GUARANTEE

- 2.1 Where a Fixed Performance Guarantee has been selected, the Guarantor's liability shall be limited to the amount of the Guaranteed Sum.
- 2.2 The Guarantor's period of liability shall be from and including the date on which the Performance Guarantee is signed, up to and including the Expiry Date, or the date of issue by the Employer's Agent of the Certificate of Completion of the Works, or the date of payment in full of the Guaranteed Sum, whichever occurs first.
- 2.3 The Employer's Agent and/or the Employer shall advise the Guarantor in writing of the date on which the Certificate of Completion of the Works has been issued.

## 3. CONDITIONS APPLICABLE TO VARIABLE AND FIXED PERFORMANCE GUARANTEES.

- 3.1 The Guarantor hereby acknowledges that:
- 3.1.1 Any reference in this Performance Guarantee to the Contract is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship.
- 3.1.2 Its obligation under this Performance Guarantee is restricted to the payment of money.
- 3.2 Subject to the Guarantor's maximum liability referred to in 1.1 or 2.1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 3.2.1 to 3.2.3:

- 3.2.1 A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Employer's Agent in an Interim or Final Payment Certificate has not been made in terms of the Contract and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 3.2.2;
- 3.2.2 A first written demand issued by the Employer to the Guarantor at the Guarantor's physical address with a copy to the Contractor stating that a period of seven (7) days has elapsed since the first written demand in terms of 3.2.1 and the sum certified has still not been paid;
- 3.2.3 A copy of the aforesaid payment certificate which entitles the Employer to receive payment in terms of the Contract of the sum certified in 3.2.
- 3.3 Subject to the Guarantor's maximum liability referred to in 1.1 or 2.1, the Guarantor undertakes to pay to the Employer the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand from the Employer to the Guarantor at the Guarantor's physical address calling up this Performance Guarantee, such demand stating that:
- 3.3.1 the Contract has been terminated due to the Contractor's default and that this Performance Guarantee is called up in terms of 3.3; or
- 3.3.2 a provisional or final sequestration or liquidation court order has been granted against the Contractor and that the Performance Guarantee is called up in terms of 3.3; and
- 3.3.3 the aforesaid written demand is accompanied by a copy of the notice of termination and/or the provisional/final sequestration and/or the provisional liquidation court order.
- 3.4 It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 3.2 and 3.3 shall not exceed the Guarantor's maximum liability in terms of 1.1 or 2.1.
- 3.5 Where the Guarantor has made payment in terms of 3.3, the Employer shall upon the date of issue of the Final Payment Certificate submit an expense account to the Guarantor showing how all monies received in terms of this Performance Guarantee have been expended and shall refund to the Guarantor any resulting surplus. All monies refunded to the Guarantor in terms of this Performance Guarantee shall bear interest at the prime overdraft rate of the Employer's bank compounded monthly and calculated from the date payment was made by the Guarantor to the Employer until the date of refund.
- 3.6 Payment by the Guarantor in terms of 3.2 or 3.3 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.
- 3.7 Payment by the Guarantor in terms of 3.3 will only be made against the return of the original Performance Guarantee by the Employer.
- 3.8 The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer may consider fit and the Guarantor shall not have the right to claim

- his release from this Performance Guarantee on account of any conduct alleged to be prejudicial to the Guarantor.
- 3.9 The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith.
- 3.10 This Performance Guarantee is neither negotiable nor transferable and shall expire in terms of 1.1.2 or 2.2, where after no claims will be considered by the Guarantor. The original of this Guarantee shall be returned to the Guarantor after it has expired.
- 3.11 This Performance Guarantee, with the required demand notices in terms of 3.2 or 3.3, shall be regarded as a liquid document for the purposes of obtaining a court order.
- 3.12 Where this Performance Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrates' Courts Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court.

Signed at
Date
Guarantor's signatory (1)
Capacity
Guarantor's signatory (2)
Capacity
Witness signatory (1)
Witness signatory (2)

#### Payment for the labor-intensive component of the Works

Payment for works identified in the Scope of Work as being labor-intensive shall only be made in accordance with the provisions of the Contract if the works are constructed strictly in accordance with the provisions of the Scope of Work. Any non-payment for such works shall not relieve the Contractor in any way from his obligations either in contract or in delict.

#### Applicable labour laws

The Ministerial Determination, Special Public Works Programmes, issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of Labour in Government Notice N° R63 of 25 January 2002, as reproduced below, shall apply to works described in the scope of work as being labour intensive and which are undertaken by unskilled or semi-skilled workers.

#### 1 Introduction

- 1.1 This document contains the standard terms and conditions for workers employed in elementary occupations on a Special Public Works Programme (SPWP). These terms and conditions do NOT apply to persons employed in the supervision and management of a SPWP.
- 1.2 In this document -
- (a) "Department" means any department of the State, implementing agent or contractor;
- (b) "**Employer**" means any department, implementing agency or contractor that hires workers to work in elementary occupations on a SPWP;
- (c) "Worker" means any person working in an elementary occupation on a SPWP;
- (d) "Elementary occupation" means any occupation involving unskilled or semi-skilled work;
- (e) "Management" means any person employed by a department or implementing agency to administer or execute an SPWP:
- (f) "Task" means a fixed quantity of work;
- (g) "task-based work" means work in which a worker is paid a fixed rate for performing a task;
- (h) "task-rated worker" means a worker paid on the basis of the number of tasks completed;
- (i) "time-rated worker" means a worker paid on the basis of the length of time worked.
- (j) "Task rate or daily rate" = As per Government Gazette

#### 2 Terms of Work

- 2.1 Workers on a SPWP are employed on a temporary basis.
- 2.2 A worker may NOT be employed for longer than 24 months in any five-year cycle on a SPWP.
- 2.3 Employment on a SPWP does not qualify as employment as a contributor for the purposes of the Unemployment Insurance Act 30 of 1966.

#### 3 Normal Hours of Work

- 3.1 An employer may not set tasks or hours of work that require a worker to work–
- 3.2
- (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.
- 3.3 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.

3.4 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 still birth.
- 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
  - (c) the period for which the worker is hired or, if this is not certain, the expected duration of the contract:
  - (d) The worker's rate of pay and how this is to be calculated:
  - (e) 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.
- 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
  - (c) 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.
- 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 reengaged 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;
  - (g) Any other information agreed on by the employer and worker

### FORM C1.4 HEALTH AND SAFETY AGREEMENT

#### HEALTH AND SAFETY SPECIFICATION

#### THE OCCUPATIONAL HEALTH AND SAFETY ACT 1993 CONSTRUCTION REGULATIONS 2003

#### **SECTION 1**

#### INTRODUCTION

This document was construed in order to comply with the provisions of the OCCUPATIONAL HEALTH AND SAFETY ACT NO 85 OF 1993, CONSTRUCTION REGULATIONS 2014 and COVID-19 Occupational Health and Safety Measures in Workplace 2020.

Definitions of words are those described in the Act and the Construction Regulations of 2003.

This document formulates the specification of the O. R. Tambo District Municipality in terms of the above act and forms part of the constitution of the organisation.

This document forms part of the employment contract of all employees and is as such accepted in writing by each employee. It also forms part of the agreement between the O. R. Tambo District Municipality and all service providers.

No clause in this document shall be amended in any contract document construed by agents, designers or anyone else except so ordered or sanctioned by the O. R. Tambo District Municipality in writing.

#### **SCHEDULE**

#### 1.1 Definitions

1. In these Policy any word or expression to which a meaning has been assigned in the Act shall have the meaning so assigned and, unless the context otherwise indicates—

"Agent" means any person who acts as a representative for a client in the managing the overall construction work.

"angle of repose" means the steepest angle of a surface at which a mass of loose or fragmented material will remain stationary in a pile on a surface, rather than sliding or crumbling away:

"Batch plant" means machinery, appliances or other similar devices that are assembled in such a manner so as to be able to mix materials in bulk for the purposes of using the mixed product for construction work;

"Client" means O. R. Tambo District Municipality;

"competent person" in relation to construction work, means any person having the knowledge, training and experience specific to the work or task being performed: Provided that where appropriate qualifications and training are registered in terms of the provisions of the South African Qualifications Authority Act, 1995 (Act No. 58 of 1995), these qualifications and training shall be deemed to be the required qualifications and training;

"Construction work" means any work in connection with-

- (a) The erection, maintenance, alteration, renovation, repair, demolition or dismantling of or addition to a building or any similar structure;
- (b) The installation, erection, dismantling or maintenance of a fixed plant where such work includes the risk of a person falling;
- (c) the construction, maintenance, demolition or dismantling of any bridge, dam, canal, road, railway, runway, sewer or water reticulation system or any similar civil engineering structure; or
- (d) the moving of earth, clearing of land, the making of an excavation, piling, or any similar type of work;

"construction vehicle" means a vehicle used for means of conveyance for transporting persons or material or both such persons and material, as the case may be, both on and off the construction site for the purposes of performing construction work;

"Contractor" mean an employer, as defined in section 1 of the Act, who performs construction work and includes principal contractors;

"Design" in relation to any structure includes drawings, calculations, design details and specifications;

"Designer" means any person who-

- (a) prepares a design;
- (b) checks and approves a design;
- (c) arranges for any person at work under his control (including an employee of his, where he is the employer) to prepare a design, as well as;
- (d) Architects and engineers contributing to, or having overall responsibility for the design;
- (e) Build services engineers designing details for fixed plant;
- (f) Surveyors specifying articles or drawing up specifications;
- (g) Contractors carrying out design work as part of a design and build project;
- (h) Temporary works engineer designing formwork and false work; and
- (i) Interior designers, shop-fitters and landscape architects.

"ergonomics" means the application of scientific information concerning humans to the design of objects, systems and the environment for human use in order to optimise human well-being and overall system performance;

"Excavation work" means the making of any man-made cavity, trench, pit or depression formed by cutting, digging or scooping;

"explosive powered tool" means a tool that is activated by an explosive charge and that is used for driving bolts, nails and similar objects for the purpose of providing fixing;

"fall prevention equipment" means equipment used to prevent persons from falling from an elevated position, including personal equipment, body harness, body belts, lanyards, lifelines or physical equipment, guardrails, screens, barricades, anchorages or similar equipment;

"fall arrest equipment" means equipment used to arrest the person in a fall from an elevated position, including personal equipment, body harness, lanyards, deceleration devices, lifelines or similar equipment, but excludes body belts;

"fall protection plan" means a documented plan, of all risks relating to working from an elevated position, considering the nature of work undertaken, and setting out the procedures and methods to be applied in order to eliminate the risk;

"Hazard identification" means the identification and documenting of existing or expected hazards to the health and safety of persons, which are normally associated with the type of construction work being executed or to be executed;

"Health and safety file" means a file, or other record in permanent form, containing the information required as contemplated in these regulations;

"Health and safety plan" means a documented plan which addresses hazards identified and includes safe work procedures to mitigate, reduce or control the hazards identified;

"Health and safety specification" means a documented specification of all health and safety requirements pertaining to the associated works on a construction site, so as to ensure the health and safety of persons;

- "material hoist" means a hoist used to lower or raise material and equipment, and includes cantilevered platform hoists, mobile hoists, friction drive hoists, scaffold hoists, rack and pinion hoists and combination hoists;
- "Medical certificate of fitness" means a certificate valid for one year issued by an occupational health practitioner, issued in terms of these regulations, whom shall be registered with the Health Professions Council of South Africa;
- "Method statement" means a written document detailing the key activities to be performed in order to reduce as reasonably as practicable the hazards identified in any risk assessment.
- "Mobile plant" means machinery, appliances or other similar devices that is able to move independently, for the purpose of performing construction work on the construction site.
- "National Building Regulations" means the National Building Regulations made under section 17(1) of the National Building Regulations and Building Standards Act, 1977 (Act No.103 of 1977), and published under Government Notice No. R.1081 of 10 June 1988, as amended;
- "Person day" means one individual carrying out construction work on a construction site for one normal working shift;
- "principal contractor" means an employer, as defined in section 1 of the Act who performs construction work and is appointed by the client to be in overall control and management of a part of or the whole of a construction site;
- "professional engineer or professional certificated engineer" means any person holding registration as either a Professional Engineer or Professional Certificated Engineer under the Engineering Profession Act, 2000 (Act No. 46 of 2000).
- "Professional technologist" means any person holding registration as a Professional Technologist under the Engineering Profession Act, 2000 (Act No. 46 of 2000);
- "Provincial director" means the provincial director as defined in regulation 1 of the General Administrative Regulations under the Act;
- "risk assessment" means a programme to determine any risk associated with any hazard at a construction site, in order to identify the steps needed to be taken to remove, reduce or control such hazard.
- "Roof apex height" means the dimensional height in metres measured from the lowest ground level abutting any part of a building to the highest point of the roof;
- "SABS 085" means the South African Bureau of Standards' Code of Practice entitled "The Design, Erection, Use and Inspection of Access Scaffolding".
- "SABS 0400" means the South African Bureau of Standards, Code of Practice for the application of the National Building Regulations;
- "SABS EN 1808" means the South African Bureau of Standards' Standard Specification entitled: "Safety requirements on suspended access equipment Design calculations, stability criteria, construction-tests";
- "SABS 1903" means the South African Bureau of Standards' Standard Front-end Specification entitled: "Safety requirements on suspended access equipment Design calculations, stability criteria, construction-tests";
- "Scaffold" means any temporary elevated platform and supporting structure used for providing access to and supporting workmen or materials or both;
- "shoring" means a structure such as a hydraulic, mechanical or timber/steel shoring system that supports the sides of an excavation and which is intended to prevent the cave-in or the collapse of the sides of an excavation, and "shoring system" has a corresponding meaning;

"Structure"	means-
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- (a) any building, steel or reinforced concrete structure (not being a building), railway line or siding, bridge, waterworks, reservoir, pipe or pipeline, cable, sewer, sewage works, fixed vessels, road, drainage works, earthworks, dam, wall, mast, tower, tower crane, batching plants, pylon, surface and underground tanks, earth retaining structure or any structure designed to preserve or alter any natural feature, and any other similar structure;
- (b) any formwork, false work, scaffold or other structure designed or used to provide support or means of access during construction work; or
- (c) any fixed plant in respect of work which includes the installation, commissioning, decommissioning or dismantling and where any such work involves a risk of a person falling two metres or more;
- "Suspended platform" means a working platform suspended from supports by means of one or more separate ropes from each support;
- "The Act" means the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993).
- "Tunnelling" means the construction of any tunnel beneath the natural surface of the earth for a purpose other than the searching for or winning of a mineral

### HEALTH AND SAFETY SPECIFICATION THE OCCUPATIONAL HEALTH AND SAFETY ACT 1993

#### **SECTION 2: DESIGNERS**

- 1. All wording shall have the meaning as defined by the H&S Regulations 2003.
- 2. This specification is in terms of the H&S act 1993 and the regulations of 2003.
- 3. All work performed and procedures followed by designers shall be done according to the H&S regulations of 2003.
- 4. The client is aware of the fact that the appointment of a designer does not implicate that the designer becomes the agent of the client for the particular project. The appointment of an agent is done separately in writing and should be accepted by the designer as such.
- 5. The client is ultimately responsible for all safety issues regarding the project for which a designer is appointed and cannot contract out of his obligations in terms of the law.
- 6. The client shall not employ a designer should he have reasonable doubts that the designer is not able to execute work in a safe manner.
- 7. All designers shall have adequate insurance cover to indemnify the client for their acts and omissions in terms of profession al conduct the H&S act in particular to indemnify the client against penalties imposed for acts or omissions. The client is aware of the fact that additional insurance over and above PI insurance is necessary to have himself indemnified by the designers for acts and omissions in terms of the H&S regulations. The professional indemnity insurance has a "negligent acts and omissions" wording only and therefore additional insurance is necessary to cover the client against penalties imposed in terms of the regulations.
- 8. Designers shall not accept work from the client if they are not capable of executing such work professionally and if such work cannot be executed in a safe manner, according to the provisions of the H&S regulations.
- 9. Designers shall execute all designs in terms of the relevant SABS and other acceptable codes and procedures and shall place great emphasis on safety issues including the maintenance procedures after inaugurations of such systems or projects.
- 10. Ergonomic parameters shall have high priority in all designs.

### HEALTH AND SAFETY SPECIFICATION THE OCCUPATIONAL HEALTH AND SAFETY ACT 1993 CONSTRUCTION REGULATIONS 2003

#### **SECTION 3: PRINCIPAL CONTRACTORS (PC)**

- 1. All work by the P C shall be done in compliance with the provisions of the H&S regulations.
- 2. The Employer recognises the right of each employee to work safely in a healthy environment under decent human conditions. Each employee has the right to return home safely and healthy to his home and family after each day's work.
- 3. Work shall not be done at the expense of human safety or health.
- 4. Work shall be executed under humane conditions, especially with reference to hours and H&S issues in mind.
- 5. The P C shall appoint a fulltime H&S Manager should he have more than 50 employees on site.
- 6. The PC shall conduct monthly safety meetings on site. All foremen, gang leaders and other employees shall participate and all incidents with relation to unsafe practices shall be discussed. Minutes of such meetings shall be kept in the H&S file.
  - 7. Foremen and gang leaders shall, under the supervision of the H&S manager, conduct meetings with all staff and people under their direct supervision on a frequent basis. Minutes of such meetings shall be kept in the H&S file.
- 8.New personnel (temporary or full time employees) shall attend safety induction courses under the supervision of the H&S manager.
  - 9. The P C shall install and maintain a box in which proposals for improvement of H&S procedures could be placed. All such proposals shall be considered, recorded and placed in the H&S file.
- 10. An adequate first aid facility shall be placed maintained on site and shall be adequately indicated by means of signs. All personnel shall be made aware of its existence and only trained first aid assistants shall be authorized to treat injuries.
  - 11. The P C shall see that work is only executed by people trained for the particular task.
- 12. All safety equipment shall be SABS approved and under no circumstance shall any safety equipment be noncertified homemade equipment. Specifications and order details shall be kept in the H&S file.
- 13. Workers and personnel shall be attending safety courses on a regular basis and all information regarding such training shall be kept in the H&S file.
- 14. All employees shall be trained in safe working procedures and shall be trained on safety consciousness in particular. Employees in position of leadership shall be trained through accredited training processes in H&S matters.
- 15. The contractor shall prepare and maintain a safety plan for the particular project and shall train his personnel to work according to such plan.
- 16. Personnel and workers will be made aware of any natural hazards existing on site. They will also be made aware of items defined by the designer in his risk assessment.
  - 17. No horseplay between employees will be tolerated on site. Neither will aggressive or threatening behaviour by anybody be allowed.

- 18. Workers shall wear appropriate protective clothing for the applicable task which shall include special safety equipment like protective eyewear, gloves, boots, ear protection, etc. Workers shall be issued with these items and copy of such issuing shall be kept in the H&S file.
- 19. Workers shall not be allowed to wear loose clothes and footwear.
- 20. Workers shall have the opportunity and right to prescribed rest, eating and toilet breaks.
- 21. Workers on nightshift shall be protected against inclement weather and shall have access to adequate food and drinks.
- 22. In cases where work is executed in remote or in security restricted areas, the P C will make provision for food to be supplied to his employees.
- 23. Potable water shall be made available free of charge to all workers on site.
- 24. Adequate toilet and washing facilities shall be made available to workers.
- 25. In the event of chemicals being present or used on site, the P C will allow for adequate shower facilities on site. All chemicals shall be stored according to specification and shall be clearly identified and marked in prescribed containers.
- 26. Workers under instruction to execute inherently unsafe procedures shall report such incidences to the H&S manager, designer of client immediately.
- 27. Unauthorised or unlawful instructions from foremen, gang leaders or colleagues shall be reported by the H&S manager immediately.
  - 28. The P C shall stop his contractors if they work unsafely.
  - 29. All specialist work shall be executed by registered artisans only.
- Workers shall not be required to lift equipment or material heavier than 25kg or carry a load of more than 50 kg for more than 10 metres.
- 31. Workers shall not be exposed to conditions of heat where the temperature is above 40° Celsius and the humidity more than 75%. Likewise, will personnel not be exposed to temperatures lower than –5° Celsius? Should the designer and the P C decide that the work is urgent, workers will be issued with proper protective clothing.
- 32. All workers shall have access to a shaded eating and resting place on site.
- Workers executing tasks in rivers, trenches and other natural or artificial water ways shall be made aware of the hazard off flash floods and special precautions shall be made by the P C to implement an effective flood warning system.
- Workers executing tasks in manholes for sewer or stormwater systems, shall be made aware of the existence of hazardous gasses in closed areas and shall be issued with gas masks in any event, even after tests conducted by the H&S manager has proven that no gasses are existent. Only specialists shall work in gas-filled chambers.
- 35. Personnel executing work during rainy weather or under other wet conditions shall be equipped with proper gumboots and proper rain suits.
- 36. No personnel will be allowed to work in water unless gumboots are worn. Should the water be deeper than 300mm watertight suits shall be worn.
  - 37. All ladders shall be fixed against scaffolding or other permanent structures.
- Welding on site shall only be done by trained personnel behind adequate eye protecting shields and all welders shall wear proper protective gear.
- 39. Personnel operating grinders, saws or any other hand tools of similar description shall be equipped with the necessary eyewear and ear protection.

- 40. All personnel working under potentially dusty conditions shall wear nose and mouth filters.
- 41. Workers operating rock drilling equipment shall wear ear, nose and eye protection.
- 42. All scaffolding will comply with the H&S regulations.
- 43. Blasting will be done by specialists under the regulations of the Explosives Act.
- 44. Workers shall wear protective clothing when exposed to chemicals like cement, lime, detergents, tar, fumes, etc. Should work be executed in the presence of such material, adequate protective clothing and equipment shall be issued after permission is granted by the H&S manager.
  - 45. Workers will not be allowed to make open fires on any part of the site unless it is made in designated areas approved by the H&S manager.
  - 46. Fuel storage will only be allowed on certified areas on site.
  - 47. Workers and other personnel will be trained for fire procedures and will practise such fire drill on a regular basis.
  - 48. Assembly areas for emergency evacuations will be indicated by adequate signage.
- 49. The P C will have an attendance register for the purposes of identifying people before, during and after potential hazardous situations.
- 50. All transport supplied by the P C shall be on road worthy vehicles only and all transport shall be conducted in terms of the transport act.
  - 51. Drivers of vehicles shall be responsible for the roadworthiness of vehicles and will report any dysfunctional vehicles to the P C.
- 52. All drivers will be responsible to handle vehicles in such a way to comply with the transport act.
- 53. Passengers of vehicles shall report any unsafe conduct to the P C immediately. Such report shall be forwarded to the H&S manager and shall be investigated. Copy of such procedure shall be entered into the H&S file.
- Only trained personnel shall be permitted and required to operate construction machinery. All such machinery shall be maintained in safe working condition.
- 55. All vehicles operating on site shall have audible warning signals if driven backwards.
  - 56. No vehicle shall be kept on site if it is leaking oil or other substances.
- 57. No vehicle or equipment shall be operated on site if it produces noise above 90 decibel measured within a distance of 10,0 m from the unit.
- 58. Equipment producing serious dusty conditions shall only be operated under the supervision of the P C and the H&S manager with the necessary protection to workers.
  - 59. All excavations on site shall be adequately protected and not only indicated.
  - 60. Exploratory excavation to reveal services shall be done in a specific way.

All areas to be explored shall first be inspected by the landowner or local authority.

Position of services identified shall then be verified by opening by hand, not by machine.

Particular care shall be taken not to damage these services.

Electrical services are inherently dangerous and shall be opened by skilled people only.

These excavations shall not be left open without supervision. If necessary the excavation shall be backfilled temporarily with approved material until the specified modifications to the services can be made.

61. Access to excavations shall only be by means of ladders or stairs with handrails.

- 62. All refuse, unsafe material, potential hazardous material and rubbish shall be placed in designated areas to be removed on a regular basis.
- 63. Rainwater shall be contained in trenches or pipes in such a way that it will not cause contamination of material in these refuse areas
- All electrical sources or cables or overhead power lines should be regarded as live at all times and all workers on site shall be made aware of its existence during H&S meetings and as many times as necessary.
- 65. Adequate signage shall be used on site to indicate
  - Nonsmoking areas on site
  - Safety exits / Emergency exits from buildings under construction
  - Stairs (temporary and permanent works)
  - Toilets
  - Firefighting equipment
  - Workmen busy with equipment overhead
  - Fire assembly points
  - Fire escapes
  - Areas where members of the public are not allowed.
  - First aid room
- 66. All visitors to the site shall be granted permission to the site only upon application through a predetermined procedure and records of these visitors shall be kept in the H&S file. Visitors shall attend safety induction training before entering the site. Areas out of bounds to all visitors shall be indicated clearly by means of adequate signs.
- Work performed in public servitudes like the construction of streets or roads shall be done according to the specifications of the local or national authority and adequate signage shall be implemented.
- 68. People complaining about their health or people displaying symptoms of illness or disease, shall be allowed to go to the first aid facility or to visit a doctor or a clinic. Permission shall not be withheld unreasonably. In remote areas the P C is required to have reasonable ways of transporting people to a doctor or clinic whether the person is ill or injured on site.
- Personnel must be informed about the location of the nearest doctor or clinic for casualty purposes, and the P C shall provide such transport for injured workers and injured members of the public (within the limits of the site) free of charge.
- 70 A principal contractor who intends to carry out any construction work shall—
  - (a) before carrying out that work, notify the provincial director in writing of the construction work if it includes—
    - (i) The demolition of a structure exceeding a height of 3 metres; or
    - (ii) The use of explosives to perform construction work; or
    - (iii) The dismantling of fixed plant at a height greater than 3m.
  - (b) before carrying out that work, notify the provincial director in writing when the construction work—
    - (i) Exceeds 30 days or will involve more than 300 person days of construction work; and
    - (ii) Includes excavation work deeper than 1m; or
    - (iii) Includes working at a height greater than 3 metres above ground or a landing.
    - (2) The notification to the provincial director must be done on the form similar to Annexure A to this Policy.
      - (3) A principal contractor shall ensure that a copy of the completed form is kept on site for inspection by an inspector, client, client's agent or employee.

### HEALTH AND SAFETY SPECIFICATION THE OCCUPATIONAL HEALTH AND SAFETY ACT 1993 CONSTRUCTION REGULATIONS 2003

#### **SECTION 4: CLIENT**

- (1) A client shall be responsible for the following in order to ensure compliance with the provisions of the Act:
  - (a) to prepare a documented health and safety specification for the construction work, and provide any principal contractor who is making a bid or appointed to perform construction work for the client with the same:
  - (b) To promptly provide the principal contractor and his or her agent with any information which might affect the health and safety of any person at work carrying out construction work;
    - (c) To appoint each principal contractor in writing for the project or part thereof on a construction site;
  - (d) To take reasonable steps to ensure that each principal contractor's health and safety plan is implemented and maintained on the construction site: Provided that the steps taken, shall include periodic audits at intervals mutually agreed upon between the client and principal contractor, but at least once every month;
  - to stop any contractor from executing construction work which is not in accordance with the principal contractor's health and safety plan for the site or which poses to be a threat to the health and safety of persons;
    - (f) to ensure that where changes are brought about, sufficient health and safety information and appropriate resources are made available to the principal contractor to execute the work safely;
  - (g) to ensure that every principal contractor is registered and in good standing with the compensation fund or with a licensed compensation insurer prior to work commencing on site; and
  - (h) To ensure that potential principal contractors submitting tenders, have made provision for the cost of health and safety measures during the construction process.
- (2) A client shall discuss and negotiate with the principal contractor the contents of the health and safety plan and thereafter finally approve the health and safety plan for implementation.
- (3) A client shall ensure that a copy of the principal contractor's health and safety plan is available on request to an employee, inspector or contractor.
- (4) O. R. Tambo District Municipality shall not appoint a principal contractor to perform construction work, unless O. R. Tambo District Municipality is reasonably satisfied that the principal contractor that he or she intends to appoint has the necessary competencies and resources to carry out the work safely.
- (5) A client may appoint an agent in writing to act as his or her representative and where such an appointment is made, the responsibilities as are imposed by these regulations upon a client, shall as far as reasonably practicable apply to the person so appointed.
- (6) No client shall appoint any person as his agent, unless the client is reasonably satisfied that the person he or she intends to appoint has the necessary competencies and resources to perform the duties imposed on a client by these regulations.

#### ANNEXURE A

#### OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 Regulation 3 of the Construction Regulations, 2003

#### NOTIFICATION OF CONSTRUCTION WORK

1.(a)	Name and postal address of principal contractor:
(b)	Name and tel. no of principal contractor's contact person:
	Principal contractor's compensation registration number:
3.(a)	Name and postal address of client:
(b)	Name and tel. no. of client's contact person or agent:
4.(a)	Name and postal address of designer(s) for the project:
(b)	Name and tel. no. of designer(s) contact person:
5.	Name and telephone number of principal contractor's construction supervisor on site appointed in terms of regulation 6. (1).
	6. Name/s of principal contractor's sub-ordinate supervisors on site appointed in terms of regulation 6. (2)
	7. Exact physical address of the construction site or site office
	8. Nature of the construction work
	9. Expected commencement date:
	10. Expected completion date:
	11. Estimated maximum number of persons on the construction site

	12. Planned number of contracto	ors on the construction site accountable to	o principa
		13. Name(s) of contract	ctors alre
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# GUIDELINES FOR CONTRACT ADMINISTRATION



### O. R. TAMBO DISTRICT MUNICIPALITY

### GUIDELINES FOR CONTRACT ADMINISTRATION IN TERMS OF THE CONSTRUCTION REGULATIONS 2003 HEALTH & SAFETY ACT 1993

#### **SECTION 1 AND 2**

#### 1. PURPOSE OF THIS DOCUMENT

This document describes the procedures to be followed in the execution of Engineering Projects for O. R. Tambo District Municipality.

The role of all parties to the development project is described.

The document is in terms of the Construction Regulation 2003 of the Health and Safety Act 1993.

#### 2. BACKGROUND

The Minister of Labour has on 18 July 2003 under section 43 of the Occupational Health and Safety Act 1993 (Act No. 85 of 1993) published new regulations in the Government Gazette 7721, Vol. 456. They have immediate effect and are applicable to the Construction Environment.

These regulations inter alia identify the different role players and their responsibilities, particularly the role of the client, the contractor and that of the designer.

The Construction Regulations endeavor to ensure that:

- i) Hazards or potential hazards to a healthy working environment are identified.
- ii) These hazards or potential hazards are removed or minimised.
- iii) Employers and Workers are made aware of the value of safe working procedures and train themselves to work safely in potential hazardous environments or under potentially unsafe conditions.

# GUIDELINES FOR CONTRACT ADMINISTRATION IN TERMS OF THE CONSTRUCTION REGULATIONS 2003 HEALTH & SAFETY ACT 1993 SECTION 3

#### 3. THE CLIENT

In terms of the law the client is ultimately responsible for all acts and omissions as far as health and safety is concerned on site. It should be noted that the client will be held legally responsible for every trespass of the regulations, not the designer or the contractor. The law makes provision for fines to be levied and unless the client has been indemnified by the designer or the contractor, such fines will have to be paid by the client.

Clients cannot contract out of their statutory obligations except where the law allows for it. Therefore any liability imposed upon them for statutory non-compliance, cannot be passed on to designers (consultants) or contractors.

In particular the client's responsibilities are defined as follows:

.1	To prepare a health and safety (H&S) specification for the work. This should cover the spectrum of activities handled by the client as part of his normal duties.	Clause 4(1)(a)
.2	To provide a risk assessment to the principal contractor.	Clause 4(1)(b)
.3	To appoint the principal contractor in writing.	Clause 4(1)(c)
.4	To ensure that the H&S plan is implemented.	Clause 4(1)(d)
.5	To stop any contractor executing work in an unsafe manner.	Clause 4(1)(e)
.6	To provide additional H&S information to the contractor should changes be made to the work?	Clause 4(1)(f)
.7	To ensure that the principal contractor is registered and in good standing with the workmen's compensation fund.	Clause 4(1)(h)
.8	To make sure tenderers have made provision in their offers for H&S measures.	Clause 4(1)(h)
.9	To discuss and approve the H&S plan with the principal contractor.	Clause 4(2)
.10	To keep a copy of the H&S plan of the principal contractor.	Clause 4(3)
.11	To <u>not</u> employ a contractor unless the client is reasonably satisfied that the principal contractor who is earmarked for an appointment has the necessary skills, competencies and resources to carry out the work safely.	Clause 4(4)
.12	The client can appoint an agent to handle his duties. The client can obviously also delegate some of his duties but this does not make the person responsible for such particular responsibilities as agent.	Clause 4(5)
	The client should make sure whether such responsibilities are not already part of the designer in terms of the regulations clause 9(2).	
.13	The client shall only appoint someone as his agent if he is reasonably satisfied that such person can handle such responsibilities.	Clause 4(6)

### GUIDELINES FOR CONTRACT ADMINISTRATION IN TERMS OF THE CONSTRUCTION REGULATIONS 2003 HEALTH & SAFETY ACT 1993

#### **SECTION 4**

#### 4. THE DESIGNER

The regulations do not use names like engineer, architect, etc. Instead the term designer has been introduced. The responsibilities of the designer are given in a sub-paragraph under the obligations of the Principal Contractor.

4.1	The regulations has a comprehensive definition of the designer and this includes:	Definitions "designer"
a) b) c) d) e) f) g) h) i)	A person preparing a design.  A person checking a design.  A firm preparing a design.  An architect or engineer contributing to or having responsibility for a design.  A building services engineer designing details of fixed plant (scaffolding or cranes).  A surveyor specifying articles or drawing up specification (Quantity Surveyor).  A contractor in design & build contract.  A contractor designing temporary work.  A interior designer, shop fitter and landscape architect.  The regulation also talks of "an engineer designing a structure". "Structure" is a wide concept and is given in paragraph 3.2.5.1(a) underneath.	Definitions "structure"
4.2	The designer does not automatically through an appointment become the agent of the client in terms of the regulations unless he is appointed in writing to that effect and he accepts such appointment in writing.	Clause 4(5)
4.3	The SAACE model agreement between the client and Engineer has a different meaning of the word "agent".  According to the model agreement of SAACE the Engineer acts as the "agent" of the client in a conventional contractual context. "Agent" in terms of the Health & Safety regulations has a totally different meaning.	
4.4	It can be derived from the regulations that the client can appoint a designer to perform certain tasks of the client on his behalf. This still does not mean that these designers become his agent in terms of clause 4(5).	Clause 4(5)

4.5 The regulations are fairly quiet regarding the functions and responsibilities of the designer except when designing of a structure. It is again assumed that the client will identify certain functions to be done by the designer on his behalf. **Definitions** 4.5.1 "Structure" in terms of the regulations means: (a) any building steel or reinforced concrete structure railway line railway siding bridge waterworks reservoir pipe or pipeline cable sewer sewage works fixed vessels road drainage works earthworks dam wall mast tower tower crane batching plants pylon surface and underground tanks earth retaining structure or any structure designed to preserve or alter any natural feature and any other similar structure. Any formwork, false work, scaffold or other structure designed or used to (b) provide support or access during construction (structural engineering sector). Fixed plant to prevent people from falling 2 meters or more. (c) 4.5.2 The designer is in fact regarded as a person delivering designs only and Clause 9(2) unless his role is defined by the client, his role is quite limited. The designer should inform the client and the principal contractor about 4.5.3 Clause 9(2)(b) anticipated dangers relating to the construction work. This is in fact a Risk Assessment. 4.5.4 The designer (in the structural engineering context) shall further furnish to Clause 9(2) the contractor in writing: i) A geo-technical report. ii) The loading of the structure. The method and sequence of the construction process. iii) He should exclude inherently dangerous methods of construction in his iv) design.

The maintenance of the structure shall be through safe procedures.

And stop the contractor from executing work dangerously.

He should carry out inspections.

v)

vi)

vii)

viii) ix)	A final inspection is necessary to ensure safety of the structure.  Great emphasis should be given to the ergonomic design of the structure.	
x)	The engineer should also give input in the design of temporary work e.g. scaffolding.	Clause 10(c)
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# GUIDELINES FOR CONTRACT ADMINISTRATION IN TERMS OF THE CONSTRUCTION REGULATIONS 2003 HEALTH & SAFETY ACT 1993

#### SECTION 5

#### 5. THE PRINCIPAL CONTRACTOR (P C) AND CONTRACTOR

The responsibilities of these parties are comprehensively stipulated in the regulations.

5.1	In general it can be seen that the responsibilities of the PC (Principal Contractor) towards his contractors is Mutatis Mutandis to the responsibilities of the Client towards the PC.	
5.2	The PC is responsible for the collecting of these contractors' safety plans and to hold them to it.	Clause 5(1) and (2)
i) ii) iii) iv) v) vi)	He should also stop his contractors should they work unsafely.  He should appoint safety officers should the size of the work warrant it.  He should cause a risk assessment to be executed by a competent person.  Visitors to his site should undergo induction pertaining to H&S issues.  He shall see to his employees induction and H&S training.  The employees of the PC and his contractors shall wear visible proof of their induction training.	Clause 5(3)(d) Clause 6(6) Clause 7(1) Clause 7(8) Clause 7(7) Clause 7(9)(a)
5.3	<ul> <li>The regulations also covers the detail of:</li> <li>Fall protection</li> <li>Structures (under this heading the responsibilities of the designer of a structure is found)</li> <li>Formwork and support work</li> <li>Excavation work</li> <li>Demolition work</li> <li>Tunnelling</li> <li>Scaffolding</li> <li>Suspended platforms</li> <li>Boatswain's chairs</li> <li>Material hoists</li> <li>Batch plants</li> <li>Explosive powered tools</li> <li>Cranes</li> <li>Construction vehicles and mobile plant</li> <li>Electrical installation and machinery on construction sites</li> <li>Use and storage of flammable liquids on construction sites</li> <li>Water environment</li> <li>Housekeeping on construction sites</li> <li>Stacking and storage on construction sites</li> <li>Fire precautions on construction sites</li> <li>Construction welfare facilities</li> </ul>	Clause 8 Clause 9  Clause 10 Clause 11 Clause 12 Clause 13 Clause 14 Clause 15 Clause 16 Clause 17 Clause 18 Clause 19 Clause 20 Clause 21  Clause 22  Clause 22  Clause 25 Clause 26 Clause 27

# GUIDELINES FOR CONTRACT ADMINISTRATION IN TERMS OF THE CONSTRUCTION REGULATIONS 2003 HEALTH & SAFETY ACT 1993

#### SECTION 6

6	. APPOINTMENT OF THE DESIGNER	Clause 4(5)
6.1	The client appoints the consultant or designer as agent only for the particular project and also for the duration of the project.	
6.2	It is further important to distinguish between "agent" in terms of the SAACE model agreement between client and engineer and "agent" in terms of the H&S regulations.	
6.3	The responsibilities and duties of a designer in the H&S context are those that are dictated by law and/or those respectively given to him by the client, except when he is a structural engineer and designs a "structure" in which case clause 9(2) applies automatically.	
6.4	The client should only add to the responsibilities of the designer those which is not automatically in his hand in terms of clause 9(1) of the regulations.	
6.5	The following duties are not regarded as normal work of the designer of a "structure" and will therefore require an additional appointment.	
.1 .2 .3	To ensure the H&S plan of the PC is implemented on site.  To ensure that changes to the design are also incorporated in the H&S plan.  To ensure that the principal contractor is registered and in good standing with the workmens' compensation fund.	Clause 4(1)(d) Clause 4(1)(e) Clause 4(1)(f)
.4	To see that the contractor registers the site as a construction site at the Department of Labour.	Clause 4(1)(g)
.5	To discuss with the contractor the H&S plan and then recommend to the client the approval thereof.	Clause 4(2)
.6 .7	To keep a copy of the H&S plan of the contractor in his possession and see that a copy is forwarded to the client.  Control the following on site:	Clause 4(4)
	a) To see that the principal contractor keeps the H&S file up to date and that it is given to the client upon completion of the contract.	Clause 5(7)
	<ul> <li>b) To see that the principal contractor keeps a data base of all contractors involved with the project.</li> <li>c) To see that the principal contractor appoints one or more construction</li> </ul>	Clause 5(9)
	supervisors. d) To see that this person is dedicated to the particular project only. e) To receive from the contractor his risk assessment and keep a copy of that for his and the clients records.	Clause 6(4) Clause 7(1)

# GUIDELINES FOR CONTRACT ADMINISTRATION IN TERMS OF THE CONSTRUCTION REGULATIONS 2003 HEALTH & SAFETY ACT 1993

#### SECTION 7

#### 7. THE ROLE OF THE CLIENT

7.1	The client shall still prepare the H&S specification in terms of clause 4(1)(a) for its global activities. The H&S specification for the particular project is assigned to the designer.	Clause 4(1)(a)
7.2	The client shall approve of the H&S plan of the contractor, but on the recommendation of the consultant/ designer.	Clause 4(2)
7.3	The client employs the Principal Contractor.	Clause 4(1)(c)
7.4	The client can appoint an agent in which case all the responsibilities of the agent in the regulations are transferred to the agent.	Clause 4(5)
7.5	The client should only appoint an agent should he have made reasonably sure that the agent can handle the responsibility.	Clause 4(6)
7.6	The client shall not appoint a contractor if he is not reasonably sure that the contractor can execute such work in a safe manner.	Clause 4(4)

### GUIDELINES FOR CONTRACT ADMINISTRATION IN TERMS OF THE CONSTRUCTION REGULATIONS 2003 HEALTH & SAFETY ACT 1993

#### SECTION 8

8. THE ROLE OF THE PRINCIPAL CONTRACTOR

The principal contractor should execute the following duties:

		I
.1	Provide a health and safety plan.	5(1)
.2	See that his contractors comply with the regulations.	5(2)
.3	He should discuss the particular H&S plan.	5(5)
.4	He should have his H&S plan available.	5(6)
.5	He should have an H&S file available on site and hand it over to the client	
	upon completion.	5(7)
.6	He should not employ contractors who are not capable.	5(10)
.7	He should have full time supervision on site.	6(1) to 6(8)
.8	He should produce a risk assessment of the work.	7(1)
.9	He should train his employees.	7(4)
.10	He should introduce induction training on site.	7(7)/ 7(8)
.11	All physical aspects of the regulations as in terms of the regulations.	

### GUIDELINES FOR CONTRACT ADMINISTRATION IN TERMS OF THE CONSTRUCTION REGULATIONS 2003 HEALTH & SAFETY ACT 1993

#### SECTION 9

#### 9. THE PROCEDURE

- 9.1 The Client decides to execute work and appoints a designer to administer the work.
- 9.2 The scope of works and the exact duties of the designer are identified and given to him in writing.

The designer should affect insurance by which the client is indemnified (by the designer) for acts and omissions of the designer. This type of insurance does not form part of the normal PI insurance provided by the designer.

The designer prepares a contract document and ensures that this document states clearly the following:

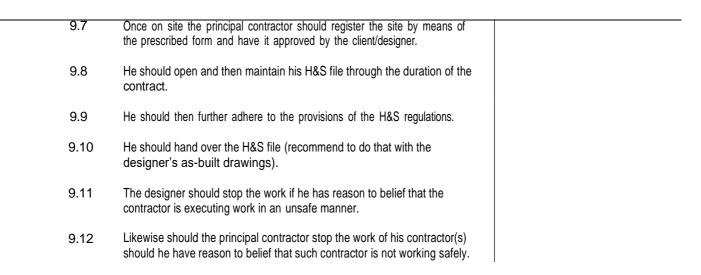
- .1 A risk assessment of the project and the H&S specification of the client.
- .2 All relevant information to enable the pricing of the contract.

9(2)(a)

.3 Items in the bill to enable the tenderer to price for the risk including insurance indemnifying the client. The document should state whether a full time safety officer is required on site.

9(2)(b)

- .4 (i) Geotechnical information
  - (ii) Loading of the structure in other words all relevant technical data taking the definition of "structure" into account.
  - (iii) The method and sequence of the process. This should identify the priorities of the client.
- 9(2)(c)(i) to (iii)
- .5 Inherently dangerous procedures should be avoided in the design.
- 9(2)(d)
- .6 The maintenance of the structure should be considered also so that this aspect would be safe and ergonomic too.
- 9(2)(e)
- 9.3 The tenderers then respond by each giving a H&S plan based on the risk assessment of the designer.
- 9.4 The client then chooses the contractor according to his procurement policy (taking into account his ability to do the work safely) and appoints him in writing via the designer.
- 9.5 The chosen principal contractor then affects a detailed risk assessment and a risk management plan, based on the H&S specification.



### GUIDELINES FOR CONTRACT ADMINISTRATION IN TERMS OF THE CONSTRUCTION REGULATIONS 2003 HEALTH & SAFETY ACT 1993

#### SECTION 10

#### 10. CONTRACT DOCUMENTATION

The contract documentation needs to emphasize the following points in order to comply with the Health and Safety Act 1993 and the Construction Regulations 2003.

#### A. In the Specification section

#### 1. Health and Safety Specification

The Client shall issue the Designer with his Health and Safety specification and it shall be included as such in the document.

Should the Designer be of the opinion that variations and additions be made to the specification, due to the nature of the particular project, he shall forward the proposed variation or addition to the NDM who will authorize this in writing.

#### 2. Risk Assessment

This can form part of the contract specifications.

It is necessary to identify to the contractor:

- i) The situation on site as it is with all the potential hazards and dangers involved.
- ii) The nature of the work and the situations that the average contractor would encounter during the execution of the work. The nature of the work and the expected risks should be described in particular as well as the method and the sequence of the work.
- iii) The basic safety precautions that he should take.
- iv) The Safety and Health specification of the client.
- v) To allow sufficient items in the bill of quantities for the tenderer to price for the specified H&S precautions.

#### 3. Insurance

The contractor shall affect insurance indemnifying the client against penalties levied upon the client due to the acts or omissions of the contractor in failing to comply with the provisions of the H&S regulations 2003.

The contractor shall prove to the Engineer that such insurance has been affected and maintained during the construction.

#### B. The Tender Rules

The tender rules shall contain a clause requiring the contractor to submit a H&S plan based on the risk assessment given in the contract document. It should also state that the client is bound by law <u>not</u> to appoint a contractor

should he be reasonably sure that the contractor would not be able to execute the work safely should he be appointed.

The following example is recommended.

#### Compliance with the Regulations of the H&S Act 2003

Tenderers are required to study the published risk assessment and provide Annexure Y his Health and Safety Plan. Generic document will be disregarded. Such H&S plan should give details regarding the tenderers intention of dealing with the risks.

Failure to submit such H&S plan will result in disqualification of the tender.

Tenderers are informed that the client is bound by law not to accept a tender should he be reasonable sure that the tenderer will not be able to execute the work safely.

### GUIDELINES FOR CONTRACT ADMINISTRATION IN TERMS OF THE CONSTRUCTION REGULATIONS 2003 HEALTH & SAFETY ACT 1993

#### SECTION 11

#### 11. CONCLUSION

The Construction Regulations 2003 was long overdue in the South African Civil Engineering Construction Industry. Role players will now be forced to implement them and an awareness of safe working environments will be cultivated.

Clients might initially detect a contemptuous attitude particularly from contractors and even designers or consultants. This should not deter clients since acts and omissions from these parties will bring clients in confrontation with the law.

Contract cost will certainly escalate due to the additional specifications but this should be weighed against the value of human lives improved and saved.

The construction industry, particularly the Civil Engineering Sector, will have to accept and embrace these regulations and then seriously look at its productivity to kerb the cost of the implementation process.

#### 1.0 SCOPE

This part of the specification has the objective to assist principal contractors entering into contracts with The Employer that they comply with the Occupational Health and Safety (OH&S) Act, No 85 of 1993. Compliance with this document does not absolve the principal contractor from complying with minimum legal requirements, and the principal contractor remains responsible for the health and safety of his employees and those of his Mandataries. Principal and other contractors should therefore insist that this part of the specification from part of any contract that he may have with other contractors and/or suppliers.

This section covers the development of a health and safety specification that addresses all aspects of occupational health and safety as affected by this contract. It provides the requirements that the principal contractors and other contractors shall comply with in order to reduce the risks associated with this contract that may lead to incidents causing injury and/or ill health.

#### 2.0 GENERAL OCCUPATIONAL HEALTH AND SAFETY PROVISIONS

#### 2.1 Hazard Identification and Risk Assessment (Construction Regulation 7)

#### 2.1.1 Risk Assessments

Paragraph 4 contains a generic list of risk assessment headings that have been identified by The Employer as possibly applicable to this contract. It is, by no means, exhaustive and is offered as assistance to contractors intending to bid.

#### 2.1.2 Development of Risk Assessment

Every principal contractor performing construction work shall, before the commencement of any construction work or work associated with the aforesaid construction work and during such work, cause a risk assessment to be performed by a competent person, appointed in writing, and the risk assessment shall form part of the OH&S plan and be implemented and maintained as contemplated in Construction Regulation 5(1).

The risk assessment shall include at least:

- the identification of the risks and hazards to which persons may be exposed
- the analysis and evaluation of the risks and hazards identifies
- a documented plan of safe work procedures to mitigate, reduce or control the risks and hazards that have been identified.
- a monitoring plan and
- a review plan

Based on the risk assessment, the principal contractor shall develop set site-specific OH&S rules that shall be applied to regulate the OH&S aspects of the construction. The risk assessment, together with the site-specific OH&S rules shall be submitted to The Employer before construction on site commences.

Despite the risk assessment listed in paragraph 4, the principal contractor shall conduct a baseline risk assessment, and the aforesaid listed risk assessment shall be incorporated into the baseline risk assessment. The baseline assessment shall further include the standard working procedures and the applicable method statements based on the risk assessments.

All variations to the scope of work shall similarly be subjected to a risk assessment process.

#### 2.1.3 Review of Risk Assessment

The principal contractor shall review the hazard identification, risk assessments and standard working procedures at each production planning and progress report meetings as the contract work develops and progresses and each time changes are made to the designs, plans and construction methods and processes. The principal contractor shall provide The Employer, other contractors and all other concerned parties with copies of any changes, alterations or amendments as contemplated in paragraph 2.1.3.

#### 2.2 Legal Requirements

A principal contractor shall, as minimum, comply with:

The Occupational Health and Safety Act and Regulations (Act 85 of 1993), an up to date copy of which shall be available on site at all times.

The Compensation or Occupational Injuries and Diseases Act (Act 130 of 1993), an up to date copy of which shall be available on site at all times.

Where work is being carried out on a "mine", the contractor shall comply with the Mines Health and Safety Act and Regulations (Act 29 of 1960) and any other OH&S requirements that the mine may specify. An up-to-date copy of the Mine's Health and Safety Act and Regulations shall be available on site at all times.

#### 2.3 Structure and Responsibilities

It is a requirement that the principal contractor, when he appoints contractors (Sub-contractors) in terms of Construction Regulations 5(3), 5(5), 5(10), and 5(12) includes in his agreement with such contractors the following:

- OH& S Act (85 of 1993), Section 37(2) agreement: "Agreement with Mandatory"
- OH&S Act (85 of 1993), Section 16(2) appointee/s as detailed in his / her/ their respective appointment forms.

#### 2.2.3 Further (Specific) Supervision Responsibilities for OH & S

The contractor shall appoint designated competent employees and/or other competent persons as required by the Act and Regulations. Below is a generic list of identified appointments and may be used to select the appropriate

appointments for this contract. The contractor shall note it is a generic list only and is intended for use as a guideline.

Ref. Section/ Regulation in OHS Act

Welding Supervisor

Batch Plant Supervisor (Construction Regulation 6(1)

Construction Vehicles/ Mobile Plant/ Machinery Supervisor (Construction Regulation 21)

**Demolition Supervisor** (Construction Regulation 12)

Drivers/Operators of Construction Vehicles/ Plant (Construction Regulation 21) (Construction Regulation 22) Electrical Installation and Appliances Inspector (Construction Regulation 27)

Emergency/Security/Fire Control

Excavation Supervisor (Construction Regulation 11)

Explosive powered Tool Supervisor (Construction Regulation 19) Fall Protection Supervisor (Construction Regulation 8)

First Aider (Construction Regulation 3) Fire Equipment Inspector (Construction Regulation 27)

Formwork & Support work Supervisor (Construction Regulation 10) Hazardous Chemical Substances Supervisor (HCS Regulations)

Incident Investigator (General Admin Regulation 29) Ladder Inspector (General Safety Regulation 13A) Lifting Equipment Inspector (Construction Regulation 20)

Material Hoist Inspector (Construction Regulation 17) OH&S Committee (OH&S Section 19)

OH&S Officer (Construction Regulation 6(6)

**OH&S** Representatives (OHS Act Section 17)

Person Responsible for Machinery (General Machinery Regulation 2) Scaffolding Supervisor (Construction Regulation 14) Stacking & Storage Supervisor (Construction Regulation 26) Structures Supervisor (Construction Regulation 9)

Suspended Platform Supervisor (Construction Regulation 15) Tunneling under Pressure Supervisor (Construction Regulation 13)

Vessel under Pressure Supervisor (Vessel under Pressure Regulations) Working on/next to Water Supervisor (Construction Regulation 24)

In addition, The Employer requires that a Traffic Safety Officer be appointed (see COLTO Section 1500). The above appointments shall be in writing and the responsibilities clearly stated together with the period for which the appointment is made. This information shall be communicated and agreed with the appointees. Notice of appointments shall be submitted to The Employer. All changes shall also be communicated to the Employer.

(General Safety Regulation 9)

The principal contractor or shall, furthermore, provide The Employer with an organogram of all contractors that he/she has appointed or intends to appoint and keep this list updated and prominently displayed on site.

Where necessary, or when instructed by an inspector of the Department of Labour, the principal contractor shall appoint a component safety officer.

# 2.3.3 Designation of OH&S Representatives (Section 17 of the OH&S Act)

Where the principal contractor employs more than 20 persons (including the employees of other contractors (subcontractors) he has to appoint one OH&S representatives for every 5 employees or part thereof. General Administrative Regulation 6 requires that the appointment or election and subsequent designation of the OH&S representatives be conducted in consultation with employee representatives or employees. (Section 17 of the Act and General Administrative Regulation 6 & 7). OH&S representatives shall be designated in writing and the designation shall include the area of responsibility of the person and term of the designation.

## 2.3.4 Duties and Functions of the OH&S representatives (Section 18 of the OH&S Act)

The principal contractor shall ensure that the designated OH&S representatives conduct continuous monitoring and regular inspections of their respective areas of responsibility using a checklist and report thereon to the principal contractor. OH&S representatives shall be included in accident or incident investigations. OH&S representatives shall attend all OH&S committee meetings.

# 2.3.5 Appointment: of OH&S Committee (Section 19 and 20 of the OH&S Act)

The principal contractor shall establish an OH&S committee, which shall meet as specified in the Regulations.

## **2.4** Administrative Controls and the Occupational Health & Safety File

# **2.4.1** The OH&S File (Construction Regulation 5(7)

As required by the Construction Regulation 5(7), the principal contractor and other contractors shall each keep an OH&S file on site. The following list is not exhaustive and shall only be used as a guide:

- Notification of construction work (Construction Regulation 3)
- Latest copy of OH&S Act (General Administrative Regulation 4)
- Proof of registration and good standing with COID Insurer (Construction Regulation 4(g))
- OH&S plan agreed with the client including the underpinning risk assessment/s and method statements (Construction Regulation 5(1)
- Copies of OH&S committee and other relevant minutes
- Designs/Drawings (Construction Regulation 5(8)
- A list of contractors (sub-contractors) including copies of the agreements between the parties and the type of work being done by each contractor (Construction Regulation 9)
- Appointment/designation forms as per paragraphs 2.1.1 and 2.1.2
- Registered as follows:
  - Accident/incident register (Annexure 1 of the General Administrative Regulations)
  - OH&S representatives' inspection register
  - Asbestos demolition and stripping register
  - Batch plant inspections
  - Construction vehicles and mobile plant inspections by controller
  - Daily inspection of vehicles, plant and other equipment by the operator/driver/user
  - Demolition inspection register
  - Designer's inspection of structures record
  - Electrical installations, equipment and appliances including portable electrical tools)
  - Excavations inspector
  - Explosive powered tool inspection, maintenance, issue and returns register (incl. Cartridges and nails
  - Fall protection inspection register
  - First aid box contents
  - Fine equipment inspection and maintenance
  - Formwork and support work inspections
  - Hazardous chemical substances record
  - Ladder inspections
  - Lifting equipment register
  - Materials hoist inspection register
  - Machinery safety inspection register (incl. Machine guards, lock-outs etc.)
  - Scaffolding inspections
  - Stacking and storage inspection
  - Inspection of structures
  - Inspection of suspended platforms
  - Inspection of tunnelling operations
  - Inspection of vessels under pressure

- Welding equipment inspections
- Inspection of work conducted near water
- All other applicable records including traffic safety officer reports.

The Employer will conduct an audit on the OH&S file of the principal constructor from time-to time.

# 2.5 Notification of Construction Work (Construction Regulation 3)

The principal constructor shall, where the contract meets the requirements laid down in Construction work and use the form (Annexure A in the Construction Regulations) for the purpose. A copy shall be kept on the OH&S file and a copy shall be forwarded to The Employer for record keeping purposes.

# 2.6 Training and Competence

The contents of all training required by the Act and Regulations shall be included in the principal contractor's OH&S plan. The principal contractor shall be responsible for ensuring that all relevant training is undertaken.

Only accredited service providers shall be used for OH&S training. The principal contractor shall ensure that his and other contractor's personnel appointed are competent and that all training required to do the work safely and without risk to health, has been completed before work commences. The principal contractor shall ensure that follow-up and refresher training is conducted as the contract progresses and the work situation changes. Records of all training must be kept on the OH&D file for auditing purposes.

# 2.7 Consultations, Communication and Liaison

OH&S liaison between the client, the principal contractor, the other contractors, the designer and other concerned parties will be through the OH&S committee as contemplated in paragraph 2.3.5.In addition to the above, communication may be directly to the client or his appointed agent, verbally or in writing, as and when the need arises.

Consultation with the workforce on OH&S matters will be through their supervisions, OH&S representatives and the OH&S committee. The principal contractor shall be responsible for the dissemination of all relevant OH&S information to the other contractors e.g. design changes agreed with the client and the designer, instructions by the client and/or/his/her agent, exchange of information between contractors, the reporting of hazardous/dangerous conditions/situations etc. The principal contractor's most senior manager on site shall be required to attend all OH&S meetings.

## 2.8 Checking Reporting and Corrective Actions

### 2.8.1 Monthly Audit by Client (Construction Regulation 4(1) (d)

The Employer will conduct monthly audits to comply with Construction Regulation 4(1)(d) to ensure that the principal contractor has implemented and is maintaining the agreed and approved OH&S plan.

### 2.8.2 Other Audits and Inspections by The Employer

The Employer reserves the right to conduct other hoc audits and inspections as deemed necessary. This will include site safety walks.

## 2.8.3 Contractor's Audits and Inspections

The principal contractor is to conduct his own monthly internal audits to verify compliances with his own OH&S management system as well as this specification.

# 2.8.4 Inspections by OH&S Representatives and other Appointees

OH&S representatives shall conduct weekly inspections of their areas of responsibility and report thereon to their foreman or supervisor whilst other appointees shall conduct inspections and report thereon as specified in their appointments e.g. vehicle and machinery drivers, operators and users must conduct daily inspections before start-up.

# 2.8.5 Recording and Review of Inspection Results

All the results of the above mentioned inspections shall be in writing at OH&S committee meetings, endorsed by the chairman of the meeting and placed on the OH&S File.

# 2.9 Accidents and Incident Investigation (General Administrative Regulation 9)

The principal contractor shall be responsible for the investigation of all accidents/incidents where employees and nonemployees were injured to the extent that he/she/they had to be referred for medical treatment by a doctor, hospital or clinic. The results of the investigations shall be entered into an accident/incident register listed in paragraph2.4.1

The principal contractor shall be responsible for the investigation of all minor and non-injury incidents as described in Section24 (1) (b) & (c) of the Act and keeping a record of the results of such investigations including the steps taken to prevent similar accidents in future.

# 2.10 Reporting

The principal contractor shall provide the Employer with copies of all statutory reports required in terms of the Act within 7 days of the incident occurring.

## 3.0 OPERATIONAL CONTROL

## 3.1 Operational Procedures

Each construction activity shall be assessed by the principal contractor so as to identify operational procedures that will mitigate against the occurrence of an incident during the execution of each activity. This specification requires the principal contractor:

- to be conversant with Regulations 8 to 29 (inclusive)
- to comply with their provisions
- to include them in his OH&S plan where relevant

## 3.2 Emergency Procedure

Simultaneous with the identification of operational procedures (per paragraph 3.1 above), the principal contractor shall similarly identify and formulate emergency procedures in the event an incident does occur. The emergency procedures thus identified shall also be included in the principal contractor's OH&S plan.

## 3.3 Personal & Other Protective Equipment (Section 8/15/23 of the OH&S Act)

The contractor shall identify the hazards in the workplace and deal with them. He must either remove them or, where impracticable, take steps to protect workers and make it possible for them to work safely and without risk to health under the hazardous conditions.

Personal protective equipment (PPE) should, however, be the last resort and there should always first be an attempt to apply engineering and other solutions to mitigating hazardous situations before the issuing of PPE is considered.

Where it is not possible to create an absolutely safe and healthy workplace the contractor shall inform employees regarding this and issue, free of charge, suitable equipment to protect them from any hazards being present and that allows them to work safely and without risk to health in the hazardous environment.

It is a further requirement that the contractor maintain the said equipment, that he instructs and trains the employees in the use of the equipment and ensures that the prescribed equipment is used by the employee/s.

Employees do not have the right to refuse to use/wear the equipment prescribed by the employer and, if it is impossible for an employee to use or wear prescribed protective equipment through health or any other reason, the employee cannot be allowed to continue working under the hazardous condition/s for which the equipment was prescribed butan alternative solution has to be found that may include relocating or discharging the employee.

The principal contractor shall include in his OH&S plan the PPE he intends issuing to his employees for use during construction and the sanctions he intends to apply in cases of non-conformance by his employees. Conformance to the wearing of PPE shall be discussed at the weekly inspection meetings.

# 3.4 Other Regulations

Wherever in the Construction Regulations or this specification there is reference to other regulations (e.g. Construction Regulation 22: Electrical and Machinery on Construction Sites) the principal contractor shall be conversant with and shall comply with these regulations.

# 3.5 Public Health and Safety (Section 9 of the OH&S Act)

The principal contractor shall be responsible for ensuring that non-employees affected by the construction work are aware of the dangers likely to arise from said construction work as well as the precautionary measures to be observed to avoid or minimize those dangers. This includes:

- Non-employees entering the site for whatever reason
- The surrounding community
- Passers by to the site

## 4.0 PROJECT/S SPECIC REQUIREMENTS

#### 4.1 List of Risk Assessments

- Clearing and Grubbing of the areas/site
- Site establishment including:
  - Offices
  - Secure/safe storage for materials and equipment
  - Ablutions
  - Sheltered eating area
  - Maintenance workshop
  - Vehicle access to the site
- Dealing with existing structures
- Location of existing services
- Installation and maintenance of temporary construction electrical supply, lightning and equipment
- Adjacent land uses/surrounding property exposures
- Boundary and access control/public liability exposures (NB: the employer is also responsible for the OH&S of the non-employees affected by his/her work activities)
- Health risks arising from neighbouring as well as own activities and from the environment e.g. threats by dogs, bees, snakes and lightning etc.
- Exposure to noise
- Exposure to vibration
- Protection against dehydration and heat exhaustion
- Protection from wet and cold conditions

- Dealing with HIV/AIDS and other diseases
- Use of portable electrical equipment including
  - Angle grinder
  - Electrical drilling machine
  - Still saw
- Excavation including
  - Ground/soil conditions
  - Trenching
  - Shoring
  - Drainage of trench
- Welding including
  - Arc welding
  - Gas welding
  - Flame cutting
  - Flame cutting
  - Use of LP gas torches and appliances
- Loading and offloading of truck
- Aggregate/sand and other materials delivery
- Manual and mechanical handling
- Lifting and powering operators
- Driving and operation of construction vehicles and mobile plant including.
  - Trenching machine
- Use and storage of flammable liquids and other hazardous substances
- Layering and bedding
- Installation of pipes in pipelines
- Backfilling trenches
- Protection against flooding
- Gabion work
- Use of explosive
- Protection form overhead power lines
- As discovered by the principal contractor's hazard identification exercise
- As discovered from any inspection and audits conducted by the client of by the principal contractor or any other contractor on site
- As discovered from any accident/incident investigation

Please refer to O. R. TAMBO District Municipality's Procurement Policy.

# SPECIAL CONDITIONS OF CONTRACT

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nformation in respect of plant
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#### SPECIAL CONDITIONS OF CONTRACT

The Contract shall be governed by the "General Conditions of Contract for Works of Civil Engineering Construction, First Edition (2004)". The only variations from these General Conditions of Contract shall be as given in the Special Conditions of Contract below.

The Government Procurement "General Conditions of Contract" shall apply except in so far as they are in conflict with the above conditions and the Special Conditions.

The following additions to and variations from the General Conditions of Contract for Works of Civil Engineering Construction (First edition- 2004) apply to the Contract. Certain pro-formas that are contained in the General Conditions of Contract 1990 are also replaced by the corresponding pro-formas that are bound into this document.

### 1(1) Definitions

### 1.1.4 Commencement Date

Replace the entire contents of Clause 1(1)(c) with the following:

"Commencement Date" means the date of receipt by the Contractor of an official Districtal order.

#### 1.1.13 **Due Completion Date**

Add the following to the end of this definition:

This clause shall apply *mutatis mutandis* to any portion or phase of the Works that may be described in the Project Specification or in the Appendix to the BID, or agreed subsequently between the Contractor and the Employer, and committed to writing.

- 1.1.14 "Employer" means O.R. Tambo District Municipality, Department of Infrastructure & Water Services and shall include the Employer's duly authorised representative.
- 1.1.15 "Engineer" means any <u>DIRECTOR</u>, associate or professional engineer appointed generally or specifically by O.R. Tambo District, to fulfil the functions of the Engineer in terms of the Conditions of Contract.

#### 4.2 Contractor's Liability for his own Design Errors

Add the following to the end of Clause 4.2

The successful Bidder will be required to provide the following to the Engineer for retention by the Employer or his assignee in respect of all works designed by the Contractor.

- (a) A Certificate of Stability of the Works signed by a registered Professional Engineer confirming that all such works have been designed in accordance with the appropriate codes of practice.
- (b) Proof of registration and of adequate and current professional indemnity insurance cover held by the designer(s).
- (c) Design calculations should the Engineer request a copy thereof.
- (d) Engineering drawings and workshop details (both signed by the relevant professional engineer), in order to allow the Engineer to compare the design with the specified requirements and to record any comments he may have with respect thereto.

(e) "As-Built" drawings in DXF electronic format after completion of the Works.

#### 6. Subcontracting

Replace the entire contents of Clause 6 with the following:

#### 6.1 The Contractor shall not sub-let the whole of Contract

- Where it is so required in terms of the Project Specifications, the Contractor shall sub-let portions of the Works to local sub-contractors with a view to maximising labour intensive construction, all in accordance with the various provisions of the Contract; provided always that unless stated to the contrary elsewhere in the Contract, the Contractor shall be entitled to sub-let further portions of the Works, additional to those which he is required to sub-let in terms of this sub-clause.
- 6.3 Except where otherwise provided in the Contract, the Contractor shall not sub-let any part of the Contract without the prior written consent of the Engineer, which consent shall not be unreasonably withheld.
- The Contractor shall obtain the Engineer's prior written consent in respect of any particular subcontractor to whom he intends sub-letting any portion of the Works and such consent shall not be unreasonably withheld; provided always that any such consent when given, shall not be deemed to constitute any form of approval by the Engineer, of the competence or suitability of any particular subcontractor in respect of whom such consent is given.
- Any consent given by the Engineer in terms of Sub-clauses 6.3 or 6.4 shall not relieve the Contractor of any liability or obligations under the Contract, and he shall be fully liable for the acts, defaults and neglects of any subcontractor (whether locally contracted or otherwise) as well as for the acts, defaults and neglects of such subcontractor's agents or employees, as fully as if they were the acts, defaults or neglects of the Contractor, his agent or employees.
- The Engineer's consent in respect of any particular subcontractor may be withdrawn at any time should reasonable grounds be given therefor in writing to the Contractor by the Engineer, in which event the Contractor shall forthwith terminate the engagement of that subcontractor on the Works.

The withdrawal (in terms of Sub-Clause 6.6 above) by the Engineer of his consent in respect of any particular sub-contractor that is engaged in the execution of any portion of the Works, including any portions of the Works which are required in terms of Sub-Clause 6.2 above to be sub-let by the Contractor to local subcontractors, shall not relieve the Contractor of any of his obligations under the Contract, nor of any of his obligations to sub-let the particular portions of the Works concerned.

Unless otherwise stipulated in the Contract:

- (a) the provision of labour, whether locally employed or not; or
- (b) the purchase of materials which are in accordance with the Contract; or
- (c) the purchase or hire of Constructional Plant;

shall not be regarded as sub-letting, as contemplated in this clause, for which the Contractor is required to obtain the Engineer's consent in terms of Sub-Clauses (6.3 and 6.4".

#### 14. Notices and Fees

#### 14.1.2 Add the following paragraph to Sub-Clause 14:

Proof of insurance shall be submitted to the Employer prior to Commencement of the Works (Clause 12), and copies of the policies and proof of due payment of all premiums shall be presented to the Employer within twenty eight (28) days of the Date of Commencement.

#### **Workmen's Compensation**

Amend to read as follows:

The Contractor shall provide proof that he has paid all contributions that are required in terms of the provisions of the Compensation for Occupational Injuries and Diseases Act (Act No. 130 of 1993), within 30 days of the Commencement Date.

# **Rate of Progress**

Add the following:

No such instruction by the Engineer to expedite progress shall be the subject of additional compensation to the Contractor unless the instruction explicitly states that the Contractor is entitled to additional compensation, and cites the amount of such compensation or the basis upon which is to be determined.

#### **Time for Completion**

Amend this clause to read as follows:

The various portions or phases of the Works, as well as the whole of the Works, shall be completed by the Due Completion Dates (as defined in Clause 1.1.13 of these Conditions.

If before the issue of a Certificate of Practical Completion for the whole of the Works, or for any specific portion thereof that is identified in the Project Specifications and in the Appendix to BID, any further part of the Works has been:

- (i) certified as complete in terms of a Certificate of Practical Completion; or
- (ii) occupied or used by the Employer, his agents, employees or other contractors (not being employed by the Contractor);

then the appropriate penalty for delay referred to in Sub-Clause 46(1)(a) above shall be reduced by the amount which is determined by the Engineer to be appropriate under the circumstances.

If the Contractor shall, without the prior written permission of the Engineer, in respect of any portions of the Works which are prescribed in the Project Specifications to be executed using labour intensive construction methods, or for which the maximum size and capacity of mechanical plant and equipment is restricted in terms of the Contract:

- (a) fail to execute such portions of the Works, or any parts thereof, utilising labour intensive construction methods strictly in accordance with the provisions of the Contract; or
- (b) utilise in the execution of such portions of the Works, or any parts thereof, mechanical plant or equipment which is in conflict with the terms of the Contract; or

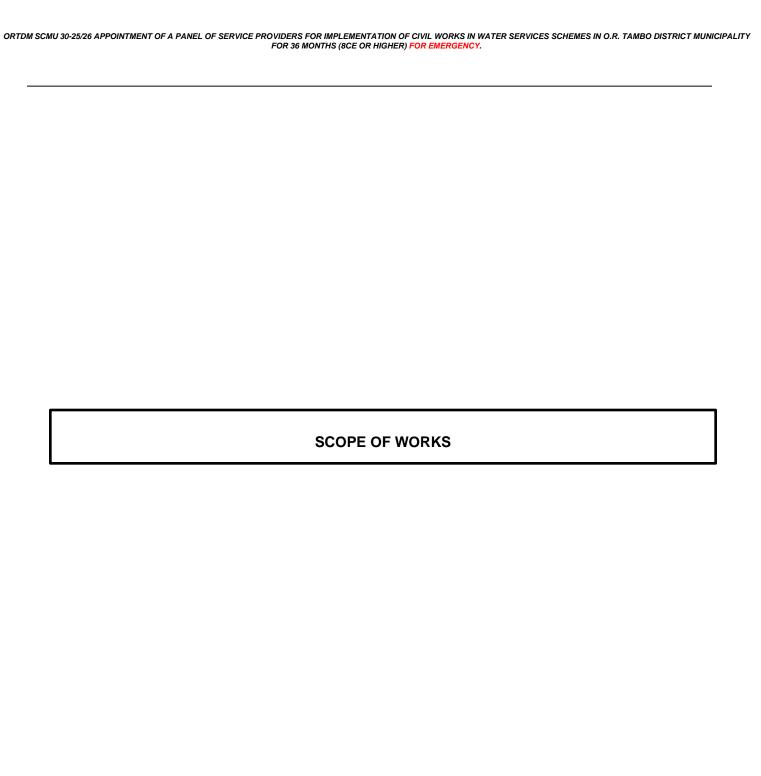
(c) utilise in the execution of such portions of the Work, workers drawn from sources other than those allowed in terms of the Contract;

then the Contractor shall be liable to the Employer for the percentage that is stated in the Appendix of the value of the Works so executed in conflict with the provisions of the relevant Project Specification, as a penalty for non-compliance.

The imposition of penalties in terms of Sub-Clauses 14.1.2 shall not relieve the Contractor from his obligation to complete the Works, nor from any of his obligations and liabilities under the Contract.

All penalties for which the Contractor becomes liable in terms of Sub-Clauses 14.1.2 shall be accumulative. The Employer may, without prejudice to any other method of recovery, deduct the amounts of all such penalties from any monies in his possession that are or may become due to the Contractor.

The imposition of any penalties in terms of Sub-Clauses 14.1.2 shall not limit the right of the Engineer or the Employer to act.



#### **SECTION 1: THE SCOPE OF WORK**

All definitions, interpretations and general provisions for the General Conditions of Contract for Construction Work, Third Edition (2015) are applicable.

#### **C 3.1 INTRODUCTION**

O.R. Tambo District Municipality is a Water Service Authority and a Water Service Provider as mandated by the legislation. One of its responsibility is to ensure safe and reliable drinking water supply to all its communities. Henceforth O.R. Tambo District Municipality invites A Panel of Professional Service Providers for the Implementation of Civil Works in it water services schemes that will include construction, refurbishment, rehabilitation, repairs and maintenance for a period of 36 months FOR EMERGENCE ONLY.

O.R. Tambo District Municipality is responsible for the supply of drinking water to the following local municipalities:

- King Sabatha Dalindyebo LM
- Mhlontlo LM
- Nyandeni LM
- Port St John LM
- Ingquza Hill LM

#### C 3.2. Scope of work

#### 1. Employer's objectives

The primary objective of O.R. Tambo District Municipality is to be able to provide access to water services for its consumers within its Jurisdiction by construction, refurbishment, rehabilitation, repairs and maintenance of its water services infrastructure to ensure full operations of water and wastewater schemes so that it supplies potable drinking water consistently to its communities using it internal staff. The contractor shall use the reasonable resources. These resources include local labour, sub-contractors, and plant hire. The specification of the material should be specified by the engineer.

It is a specific goal of this project that the labour component where possible be maximized where it is economically feasible, and that the use of this labour goes hand in hand with on the job training of the labour force. The project is thus process and product orientated, and it is expected that the contractor will pursue these goals in the execution of the project.

#### C3.1.2 Overview of the Works

Service Providers are expected to Implement Civil works related activities which are inclusive of Construction Works, Refurbishments, Upgrading, Rehabilitation, Repairs and Maintenance work for 36 months within O.R. Tambo District Municipality various sites s as per official Instructions issued as and when necessary. These services will be provided in line with the Municipal Procurement Policy and Guidelines on a rotational basis and in a manner that will serve the interest of the municipality i.e no supplier will be entitled to a specific area for the entire contract.

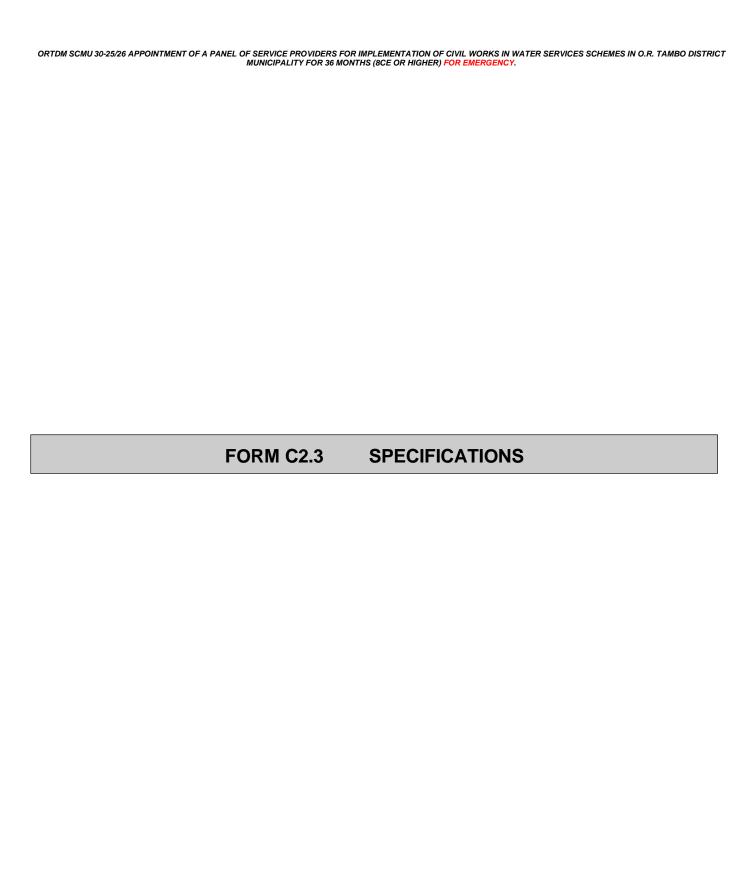
Actual required quantities will be indicated by means of official Instructions from O.R. Tambo DM and Only upon receipt of our official instructions, works can commence. The scope includes the following but not limited:

- Small diameter water supply pipelines
- 2. Roads to water works
- 3. Sewer works
- 4. Filter drains: replacement of filter media
- 5. Handrailing
- Septic tanks
- 7. Circular concrete and Steel reservoirs
- 8. Gabions and pitching
- 9. Segmented block paving & kerbing
- 10. Security fencing
- 11. Pump house installation for boreholes
- 12. Pvc storage tank on floor, 3 metre high tank stand and 6 metre high tank stand
- 13. Valves
- 14. For scope not yet identified, contractors will be required to quote and clearly show mark-up percentage on items to be provided.

#### C4: Site Information

The contract is applicable to the following areas:

- King Sabata Dalindyebo Municipality
- Nyandeni Municipality
- Mhlontlo Municipality
- Port St John's Municipality
- Ngquza Hill Municipality



#### **SECTION 4**

## **SPECIFICATIONS**

#### **INDEX TO SPECIFICATIONS**

Item

**PS 18** 

PS 19

PS 20

PS 21

PS 22

Description **SECTION 4.1** STANDARD SPECIFICATIONS

**SECTION 4.2 PROJECT SPECIFICATIONS** Portion 1: **General Items** PS<sub>1</sub> General description of the Works PS 2 Description of Site and access PS<sub>3</sub> Nature of ground and subsoil conditions PS 4 **Details of the Contract** PS<sub>5</sub> Construction programme PS<sub>6</sub> Site facilities available PS 7 Site facilities required PS8 Statutory regulations PS9 Community liaison and community relations PS 10 Workmanship and quality control **PS 11** Features requiring special attention PS 12 Drawings, operation and maintenance manuals PS 13 Samples **PS 14** Notices, signs, barricades and advertisements PS 15 Open trenches **PS 16** Spoil material **PS 17** Information in respect of Plant

Information in respect of Employees

Abnormal rainfall

Subcontracting

Training

Labour and personnel

# Section 4.2: Portion 2: Variations to Standardised Specifications and Additional Clauses

PSA General

PSAB Engineers office

PSC Site clearance

PSD Earthworks (small works)

PSDB Earthworks (Pipe Trenches)

PSDK Gabions and pitching

PSGA Concrete (small works)

PSHA Structural steelwork (sundry item)

PSL Medium pressure pipelines

PSLB Bedding (pipes)

**SECTION 4.3: LOCALITY PLANS** 

**SECTION 4.4: SPECIFICATION DRAWINGS** 

SECTION 4.5: COMMISSIONING AND COMPLETION CERTIFICATE

#### **Notes Application**

- 1. The various documents listed in Section 1 shall be treated as mutually explanatory. However, should any requirement of the Project Specifications (Section 4.2) conflict with any requirement of the Standardised Specifications (Section 4.1) or with any requirement of the Particular Specifications (Section 4.3), then the requirement of the Project Specification shall prevail.
- 2. The Project Specifications consists of two portions, viz.
  - Portion 1, contains a description of the Contract, the Works to be constructed under the Contract, and other information of a general nature pertaining to the Contract.
  - Portion 2, contains references, amendments and additions to the Standard Specifications that are applicable to the Contract.
- 3. Clauses in the Project Specifications are prefixed with the letters PS. Portion 1 of the Project Specifications contains clauses numbered sequentially, but prefixed with the letters PS. Portion 2 of the Project Specifications contains clauses numbered sequentially (with reference to the actual Standard Specification clauses being referred to, amended or added to) also prefixed with the letters PS and letter applicable to the relevant Project Specification.
- 4. Particular Specifications are, in application, additional sections of the Standard Specifications. Particular specifications are numbered alphabetically in accordance with the standard system used in the Engineers' office. Individual clauses are numbered sequentially.

**END OF SECTION** 

# **SECTION 4.1**

# **STANDARD SPECIFICATIONS**

## STANDARD SPECIFICATIONS

# 4.1.1 SANS 1200 Standardised Specifications for Civil Engineering Construction

The applicable SANS 1200 Standardised Specification for this Contract shall be the following:

A - General

AB - Engineers office

D - Earthworks

C - Site clearance

DA - Earthworks (Small Works)

DB - Earthworks (Pipe Trenches)

DE - Earthworks (Small Earth Dams)

DK - Earthworks: Gabions and pitching

DM - Earthworks: Roads, Subgrade

G - Concrete (Structural)

GA - Concrete (small works)

GB - Concrete (ordinary buildings)

H - Structural Steelwork

HA - Structural steelwork (sundry items)

HB - Cladding and sheeting

HC - Corrosion Protection of Structural Steelwork

L - Medium pressure pipelines

LB - Bedding (pipes)

LD - Sewers

LE - Stormwater Drainage

M - Roads

MJ - Segmented Paving

MK - Kerbing and channelling

## **PROJECT SPECIFICATION INDEX**

PS PORTION 1: THE WORKS

PSA PROJECT SPECIFICATION

PSAE ENGINEERS OFFICE

PSC SITE CLEARANCE

PSDA EARTHWORKS (SMALL WORKS)

PSDB EARTHWORKS (PIPE TRENCHES)

PSDK GABIONS AND PITCHING

PSGA CONCRETE (SMALL WORKS)

PSHA STRUCTURAL STEEL (SMALL WORKS)

PSL MEDIUM PRESSURE PIPELINES

**END OF SECTION** 

# Section 4.2

# **PROJECT SPECIFICATIONS**

**Portion 1: The Works** 

#### **PROJECT SPECIFICATIONS**

## **PORTION 1: THE WORKS**

#### PS 1 GENERAL DESCRIPTION OF THE WORKS

BIDs are invited for civil engineering works associated with Water Services and Water Resource Management in O.R. Tambo District.

Works are to be executed in O.R. Tambo District.

The operation area is in the Locality Plans of O.R. Tambo District. Prospective Bidders must take note of the fact that the contract will be executed on the basis of a "Bill of Quantities" contract. BID prices must include site establisment cost (see PSA 15).

The quantities indicated in the Schedule of Quantities are for adjudication purposes only and shall not be regard as an indication of the eventual value of the work to be done.

This contract comprises Civil engineering work in five local municipalities in the District, viz. King Sabatha Dalindyebo, Mhlontlo, Nyandeni, Port St Johns and Ingquza Hill.

The works to be executed under this contract comprise the following:

- 1.1 General
- 1.2. Small diameter clear water supply pipelines
- 1.3 Roads to Waterworks
- 1.4 Sewer Works
- 1.5 Filter drains (Cleaning or replacement of filter media)
- 1.6 Handrailing
- 1.7 Septic tanks
- 1.8 Circular concrete reservoir
- 1.9 Gabions and pitching
- 1.10Segmented block paving & kerbing
- 1.11Security fencing
- 1.12Palisade Fencing
- 1.13Complete pumphouse installation for boreholes & small installations
- 1.1410 kl PVC storage tank on floor 3 metre high tank stand and 6 metre high tank stand
- 1.15Dayworks
- 1.16Training
- 1.17Appointment of Small Contractors

Execution of the work will be done by one of the following methods, or as a combination of

the methods:

- (i) Main contractor to employ people from the vicinity where work is to be executed.
- (ii) Nominated emerging sub-contractors, which are also to be formally contracted and trained by the established contractor.
- (iii) Established and emerging contractor which have entered into a joint venture agreement.

The Bidders must take note of the fact that it will be expected of the successful Bidder to enter into a formal agreement with the Nominated Emerging Contractor (=NEC) and/or the "normal" Emerging Contractor (=EG). The established/main Contractor (=MC) will be responsible for the quality of the work of the NEC and/or EC. Provision has been made in Schedule 1 of the Schedule of Rates for a % mark-up on the amount payable to the NEC by the MC.

The various local municipalities in O.R. Tambo District are indicated on the map. Although not foreseen at this stage, it may happen that it will be expected of the Contractor to execute some work outside the existing borders of the area of jurisdiction. If the Bidders have any objection to it, it must be clearly indicated in Section 7.1, i.e. Alterations by Bidder, in this document.

The contract will consist of one main type of activity namely **Civil Engineering Works**. The work to be carried out during the currency of the contract may be given as separate tasks. Each task to be undertaken will be issued as a written instruction by the Engineer and will consist of a detailed scope of work and relevant drawings for each particular task.

The main activities are set out in the Pricing Schedules.

# PS2 DESCRIPTION OF SITE AND ACCESS

The work to be undertaken is generally in or near existing Works in the local municipalities mentioned above. The access to the individual sites is generally very poor and it could be expected that four-wheel drive vehicles might be required at times.

It is of critical importance that Contractors should under all circumstances; liaise with O.R. Tambo District Authority's representative **prior** to going on site to ensure that the District could inform people of work to be carried out by the Contractor. If the representative cannot be contacted, the Contractor should then **not** enter a site for working purposes.

# PS3 NATURE OF GROUND AND SUBSOIL CONDITIONS

The nature of ground and sub-soil conditions may vary from site to site. The Contractor must familiarise himself as far as is practically possible with soil conditions in the region.

#### PS4 DETAILS OF THE CONTRACT

- (i) The work required to be done entails that listed in PS1, measured in the Pricing Schedules as work of generalised nature. Specific details will be supplied by the Engineer, based on the Pricing Schedules, for each specific project.
- (ii) All sections of the Works shall be subject to a respective maintenance period (Defects Liability Period) of 12 months.

#### PS5 CONSTRUCTION PROGRAMME

#### PS5.1 Information to be made available

The Engineer will provide the Contractor with a list of specifications regarding the relevant part of the Works. It is envisaged that the information will be made available not less than four weeks prior to the installation date, to enable the contractor to order the materials and programme the works.

#### PS5.2 Labour Intensive Construction

The principle of labour intensive construction for certain portions of the works to be executed is to be introduced. See clause PS20.3 for details regarding the above-mentioned.

# PS5.3 Phasing of the Works

(a) The works will be scheduled, as far, as is practically possible, so that the Contractor can work uninterrupted for the duration of the contract order.

Note: All other movement cost will be deemed to be included in the rates Bidded for various items of the work.

(b) The Contractor must take note of the fact that only inter-construction site movements will be paid for. It is also important to take note of the fact that such payment will be made only for the Contractor's first equipment team (if more than one team are fielded) to move to a specific site. Inter-construction site move payments shall be made only for transport expenditures.

(Refer to the applicable transport rates, Bidded in the pricing schedules).

(c) Should the Contractor be requested by the Engineer to do work not included in his above-mentioned programme, he will then be paid for the movement according to rates included in the Pricing Schedules for transport expenditures only. These movements are those, which would infringe any programme predetermined and agreed to between the Contractor and the Engineer.

(Refer to the applicable transport rates).

(d) Note: Transport rates outside the borders of O.R. Tambo District can not be claimed, except for "nominated specialised work".

Example: When the District require the services of a specialised agent. All transport costs and mark-up rates for material can be claimed from the District.

## PS5.4 Interruption in Work Schedule

If information or particulars as mentioned in Clause PS4 are not available from the Employer regarding the works for any period of time, the Contractor will be ordered in writing to discontinue work. The Contractor will then be granted an extension of time. When the Contractor is requested to resume work, the establishment cost will be paid as if the Contractor moved in from another site as per the BID. No adjustment will be made in any of the rates in the Pricing Schedules.

#### PS5.5 Format and Approval

As soon as information is available with regard to a specific Works, the Contractor shall supply, within 14 days, a suitable and realistic <u>construction programme</u> for the consideration of the Engineer. This programme shall show the proposed scheduling and

methods of execution of the Works and the resources to be allocated to each item or phase of execution of the Works and the resources to be allocated to each item or phase of the work. Quantities proposed for execution for a specific Works and the anticipated

<u>cash flow</u> based upon these quantities should be shown, due allowance being made for price escalations and retention moneys.

The Contractor will be expected to progress with the Works in accordance with the approved programme and shall not deviate from the order of execution shown in the programme without the prior approval of the Engineer or his Representative. Should such approval be given, an adjusted programme shall be produced within 7 days and submitted to the Engineer for evaluation. Progress in advance of the programme or certain phase of the Works shall not be considered adequate reason for poor progress on another portion or phase.

# **PS5.6** Partial Completion and Monthly Take Over

Specific completed Works will be taken over within two weeks after completion for which a Certificate of Completion will be issued. The maintenance period on the work completed will commence with the issuing of the Certificate of Completion.

#### PS 5.7 Penalties

The penalties for late completion are indicated in the Appendix to BID.

The penalty in respect of each Works shall remain in force until the work for that Works has been completed. The penalties for the Works will be applied independently and are accumulative.

# PS 6 SITE FACILITIES AVAILABLE

# PS 6.1 Contractor's Camp

An area will be made available by the Employer for the Contractor's camp and depot, where materials can be stored and from which the administration of the contract will be undertaken by the Contractor. However, the Contractor will be responsible to arrange with the necessary authorities at each Works site to store equipment and material.

## PS 6.2 Source of Water Supply

Water supply will not necessarily be available at the camp or depot nor each construction site.

The Contractor shall be responsible under the Contract for the supply and distribution at his cost of all water that he may require for purposes of constructing the Works. Accordingly, the Contractor shall pay all connection fees and consumption charges, and at his cost provide all connections, consumption meters, pipework, storage tanks, transport and other items associated with the supply of water for the Works.

Water for filling, testing and disinfecting the pipelines and structures will be made available by the Employer at no cost to the Contractor. However, should the pipelines and/or structures have to be drained and refilled due to defective materials or workmanship by the Contractor or by his subcontractors, then the water required for refilling will be for the account of the Contractor.

# PS 6.3 Source of Power Supply

Power supply will not necessarily be available at the camp or depot nor at each construction site

#### PS 6.4 Housing

The Contractor will be permitted to house Key Personnel only within his camp site(s). At the commencement of the Contract, the Contractor shall inform the Engineer of his intentions regarding the housing of Key Personnel on Site, and he shall thereafter ensure that all such accommodation is kept neat and tidy, hygienic and properly controlled at all times. Should at any stage of the Contract the Employer and/or the Engineer be of the opinion that the housing of Key Personnel within the camp site(s) of the Contractor is causing disturbance or inconvenience to the landowner or to nearby residents, then the authority granted by this clause for the Contractor to house Key Personnel on Site may be withdrawn, either partially or entirely.

The Contractor shall at all times conform with all requirements contained in law or bylaws, as well any other requirements set by the controlling local authority.

# PS 6.5 Ablution Facilities

No ablution facilities are available at the camps and depots or construction sites.

#### PS 7 SITE FACILITIES REQUIRED

#### PS 7.1 For the Contractor

Whatever may be required for the satisfactory execution of the Contract.

#### PS 7.2 For the Engineer

As specified under Section PSAB (Portion 2 of the Project Specifications).

## PS 7.3 Sanitary facilities

Water borne sewerage is not available on site. Chemical or flush toilets with on-site disposal shall be provided and maintained for the use of the Contractor's personnel, the Engineer and representatives of the Employer at all camp sites that the Contractor may establish for construction of the Works. In addition, the Contractor shall at all times during construction of the Works provide adequate sanitary facilities on the construction site so that all employees are at all times within easy reach of sanitary facilities.

#### PS 8 STATUTORY REGULATIONS

The Occupational Health and Safety Act, Act 85 of 1993 (referred to as "the Act" below), and all regulations promulgated thereunder must be adhered to by the Contractor, with specific reference to the safety of all employees and the public, irrespective of whether such employees are employed by the Contractor or by his subcontractors (including local subcontractors). The Contractor, in entering into this Contract, hereby agrees with the Employer in terms of Section 37(2) of the Act, that the Contractor as an employer in its own right and in its capacity as Contractor for the execution of the Works, shall have certain obligations and that the following arrangement shall at all times for the duration of the Contract apply between the Contractor and the Employer to ensure compliance by the Contractor with the provisions of the Act, namely:-

- (i) The Contractor undertakes to acquaint the appropriate officials and the employees of the Contractor with all relevant provisions of the Act, and the regulations promulgated in terms of the Act;
- (ii) The Contractor undertakes that all relevant duties, obligations and prohibitions imposed in terms of the Act and regulations will be fully complied with; and

- (iii) The Contractor hereby accepts sole liability for such due compliance with the relevant duties, obligations and prohibitions imposed by the Act and regulations, and expressly absolves the Employer and the Engineer from being obliged to comply with any of the aforesaid duties, obligations and prohibitions in respect of the Works; and
  - (iii) The Contractor shall be obliged to report forthwith to the Employer and the Engineer any investigation, complaint, or criminal charge which may arise as a consequence of the provisions of the Act and regulations pursuant to work performed on behalf of the Employer, and shall, on written demand, provide full details in writing of such investigation, complaint or criminal charge.

#### PS9 COMMUNICATION LIAISON AND COMMUNITY RELATIONS

In all dealings with communities through which the Works are to be constructed, and in all dealings with workers employed from within such communities, the Contractor shall take due cognisance of the character, culture and circumstances of the specific community, and shall at all times use his best endeavours to avoid the development of disputes and rather to foster a spirit of co-operation and harmony towards the project.

The Contractor shall at all times, keep the Engineer fully informed regarding all matters affecting or negotiated between the Contractor and the community, and he shall attend all liaison meetings as may be arranged by the Engineer and/or the Employer. All matters concerning the community shall be discussed and where possible, resolved at such meetings.

Where any resolution during such negotiations or at such meetings shall be contrary to the terms and provisions of the Contract, the Contractor shall not give effect thereto without a prior written instruction from the Engineer. Where the Contractor is of the opinion that any instruction of the Engineer issued in terms of this clause will result in the incurring of additional costs which were not provided for in his Bidded rates and prices and/or that a delay in the progress of the Works will result, he shall be entitled to submit a claim in terms of the Conditions of Contract, provided always that the period of fourteen (14) days referred to be reduced to three (3) normal working days in respect of all claims submitted in terms of this clause.

#### PS10 WORKMANSHIP AND QUALITY CONTROL

The onus to produce work that conforms in quality and accuracy of detail to the requirements of the Specifications and of the Drawings rests with the Contractor, and the Contractor shall, at his own expense, institute a quality-control system and provide experienced engineers, foremen, surveyors, materials technicians, other technicians and technical staff, together with all transport, instruments and equipment to ensure adequate supervision and positive control of the quality of the Works at all stages of the Contract.

The costs of the Contractor's supervision and process control, including all testing carried out by the Contractor, will be deemed to be included in the rates Bidded for the various items of work. The Contractor's attention is drawn to the provision of the various Standardised Specifications regarding the minimum frequency of process control testing that is to be executed. The Contractor shall, at his own discretion, increase this frequency where necessary to ensure adequate control of the quality of the Works at all times. Upon completion submission of each portion of the Works to the Engineer for examination, the Contractor shall furnish the Engineer with the results of relevant tests, measurements and levels, thereby indicating compliance with the Specifications. The Engineer will not examine or inspect any portion of work submitted for approval unless the request for inspection and approval is accompanied by relevant tests, measurements and levels indicating compliance.

#### PS11 FEATURES REQUIRING SPECIAL ATTENTION

#### PS 11.1 Other Contractors

Other works as well as normal maintenance contracts may be under way at any site. No additional payments will be made in this regard to the Contractor.

## PS11.2 Construction within Built-up Areas

The bulk of the work is situated in inhabited residential areas. Meticulous care is required to ensure:

- (a) convenient access provided for the public to their property during all stages of construction;
- (b) ensuring the safety of the public during all stages of construction;
- (c) extended liaison with concerned parties, including the local Tribal Authority, District Councils, traffic Districts, residents and management of business, imperative.

This will include notification in advance of the commencement of proposed works, etc.

#### **VERY IMPORTANT:**

THE CONTRACTOR WILL BE REQUIRED TO APPOINT A PUBLIC RELATIONS OFFICER (PRO), WHO WILL FORM PART OF THE FULL-TIME STAFF COMPLEMENT. NO SEPARATE PAYMENT WILL BE MADE FOR SUCH A PRO.

#### PS11.3 Trenches in Narrow Road Reserves

Prospective Bidders must take note of the fact that at some places trench excavation will take place in fairly narrow road reserves/alleys. The difficulty to overcome this obstacle must be incorporated in the Bidded rates. No separate and/or additional payment will be made in this regard.

# PS11.4 Reinstatement of Fences

The Contractor shall give all land owners and residents a minimum of 48 hours notice of his intent to dismantle fences to properties, where indicated on the Drawings or so ordered by the Engineer. The Contractor shall note all aspects relevant to the condition of existing fencing and shall take photographs thereof prior to dismantling, and shall acquire the signature of the owner/occupant agreeing to such conditions.

After reinstatement, both the Contractor and the owner/occupant shall sign the form confirming that the condition of the fence is at least equivalent to its condition before dismantling.

## PS11.5 Protection of Buildings and Structures

The Contractor shall give all residents or other parties owning a building or structure within an appropriate radius (not less than 100 m) from any point of blasting, a minimum of 48 hours notice of his intent to execute any blasting work. The Contractor shall note all aspects relevant to the condition of the affected buildings and/or structures prior to blasting. In the event of damage to existing buildings/or structures as a result of blasting, remedial work shall be done to the satisfaction of the owner/occupants at the Contractor's expense.

Compliance with this clause will not relieve the Contractor of any of his responsibilities in terms of the Contract, or in terms of sub-clause 5.1.1.3 of SANS 1200D.

#### PS11.6 Care of the Site

At all times during construction of the Works and upon completion thereof, the Site of the Works shall be kept and left in a clean and orderly condition. The Contractor shall store all material s and equipment for which he is responsible in an orderly manner, and shall keep the Site free from debris and obstructions.

#### PS11.7 Control of Water

The Contractor shall at all times and in all respects be responsible for the handling of stormwater from higher-laying areas above the Works, and for the handling of any subsurface water that may affect Works. No separate payment shall be made in this regard, as all costs related thereto should be deemed to be included in the rates Bidded

for the various items of work that are included in the Pricing schedules. Refer also to SANS 1200 A, clause 5.5, in this regard.

# PS12 DRAWINGS, OPERATION AND MAINTENANCE MANUALS

All information in the possession of the Contractor that is required by the Engineer's Representative in order to complete the As-Built drawings and prepare a completion report for the Employer must be submitted to the Engineer's Representative before a Certificate of Practical Completion will be issued for the Works. Similarly, the Contractor will be required to submit full details of all pipes, valves, meters and specials in a suitable loose bound format, including any special operational and maintenance procedure related thereto for incorporation in the overall operation and maintenance manual for the Scheme prior to the issue of a Certificate of Completion for the Works.

Only figure dimensions on the Drawings may be used in the interpretation thereof, and the Drawings shall not be scaled unless the Contractor is so instructed by the Engineer in writing. The Engineer will upon written request provide any dimensions that may have been omitted from the Drawings.

#### PS13 SAMPLES

Materials or work that do not conform to the approved samples submitted in terms of the Conditions of Contract, will rejected. The Engineer reserves the right to submit samples for testing to ensure that the material represented by the sample meets the specified requirements.

# PS14 NOTICES, SIGNS, BARRICADES AND ADVERTISEMENTS

Notice signs and barricades (required in terms of the Conditions of Contract) as well as advertisements may only be erected where approved by the Engineer. The Contractor shall be responsible for their supply, erection, maintenance and ultimate removal and shall make provision for this in his Bidded rates. The Engineer shall have the right to have any sign, notice or advertisement moved to another location, or to have it removed form the Site of the Works, should it in any way prove to be unsatisfactory, inconvenient or dangerous to the general public.

# PS15 OPEN TRENCHES

Trenches may not be left open during the builder's holidays, and shall be safeguarded at all times from danger to the public. Safe trench-crossings shall be provided at all intersections with accesses to properties and with public roads and paths. The length of trench left open at any one time may be restricted by the Engineer, should he consider such restriction to be in the interest of public safety.

#### PS16 SPOIL MATERIAL

No indiscriminate spoiling of materials will be permitted. Surplus or unsuitable materials shall be spoiled at sites designated by the Engineer for this purpose. All spoiling shall comply with the applicable statutory and municipal regulations of the local or rural authority in whose area it is located.

## PS17 INFORMATION IN RESPECT OF PLANT

Information relating to plant on Site shall be recorded in the Daily diary. In addition, the Contractor shall deliver to the Engineer, on a monthly basis, a detailed summary of construction plant kept on the Site, full particulars given for each day of the month. Distinction shall be made between plant in working order and plant out-of-order. Such inventory shall be submitted by the first day of the month following the month to be reported.

#### PS18 INFORMATION IN RESPECT OF EMPLOYEES

Information relating to labour and management on Site shall be recorded in the Daily Diary. In addition, the Contractor shall deliver to the Engineer, on a monthly basis, a detailed summary of supervisory staff, labour employed (own and local labour) by category, and sub-contractors (both local and imported) for each day of the month. Such return shall be submitted by the first day of the month following the month to be reported.

## PS19 ABNORMAL RAINFALL

Extension of time for completion of the Contract shall be allowed in the event of abnormal rainfall in accordance with the following formula:

$$V = (N_w - N_n) + (R_w - R_n)/20$$

Where

V = Extension of time in calendar days for the calendar month under onsideration

Nw = Actual number of days the calendar month under consideration on which a rainfall of 10 mm and more is recovered

R<sub>w</sub> = Actual total rainfall in mm recorded during the calendar month under consideration.

Nn = Average number of days, derived from rainfall records, on which a rainfall of 10 mm and more was recorded during the relevant calendar month as per the data tabulated hereinafter

Rn = Average total rainfall in mm for the relevant calendar month, derived from rainfall records, as tabulated hereinafter.

Where the extension of time due to abnormal rainfall has to be calculated for portion of a calendar month, pro rata values shall be used. Should V be negative for any particular month, and should its absolute value exceed the corresponding value of  $N_n$ , then V shall be taken as being equal to minus  $N_n$ . The total extension of time to be granted shall be the algebraic sum of all the monthly extensions, provided that if this total is negative then the time for completion shall not be reduced due to subnormal rainfall.

Rainfall records for the period of construction shall be taken on Site. The Contractor shall provide and install all the necessary equipment for accurately measuring the rainfall **per site**. The Contractor shall also provide, erect and maintain a security fence plus gate, padlock and keys at each measuring station, all at his own cost. The Engineer or his Representative shall take and record the daily rainfall readings. The Contractor shall be permitted to attend these readings, in the company of the Engineer's Representative. Access to the measuring gauge(s) shall at all times be under the Engineer's control.

The rainfall records applicable to this Contract (unless more appropriate records for the site are made available by the Weather Bureau) are those recorded at Polokwane from 1898-1989. The following values of  $N_n$  and  $R_n$  shall apply:

MONTH	N <sub>n</sub> (days)	R <sub>n</sub> (mm)
January	91	3
February March	72	2
April May	61	2
June	31	1
	11	0
July	4	0
August	5	0
September	4	0
October November	14	1
	41	1
December	80	3
	91	3
TOTAL	505	16

#### PS20 LABOUR AND PERSONNEL

### **PS20.1** Contractors Personnel

The Contractor shall limit the utilisation of his permanently employed personnel to that of key personnel only on the Works, as defined below, and shall execute and complete the Works utilising a temporary workforce employed directly by the Contractor and/or by his sub-contractors, using the assistance of the Labour Desk(s), or similar arrangements which have been established for this purpose from the local community which is established in proximity to the Works or which will be consumers from the Scheme.

Without derogating from the Contractor's obligations to complete the Works within the specified time for completion in terms of Clause 45(1) of GCC 1990, the numbers in each category of the Contractor's key personnel, as stated by the Contractor in Section 7 of his BID, will be strictly controlled during the contract period and any increase in numbers will be subjected to the prior approval of the Employer.

Key personnel means all contracts managers, site agents, site clerks, materials and survey technicians, quantity surveyors, trainers, supervisors, foremen, skilled plant operators, brick layers, welders, shutter hands and the like, and all other personnel in the permanent employ of the Contractor or his sub-contractors who possess special skills, and/or who play key roles within the Contractor's or his subcontractor's operations.

The Engineer may at his discretion, upon receipt of a written and fully motivated application from the Contractor, and where he deems the circumstances so warrant, authorise in writing that the Contractor may utilise in the execution of the Works, workers not being his key personnel but who are in his permanent employ. Without limiting the generality of application of this sub-clause, circumstance which may be considered by the Engineer to warrant authorisation of the use of the Contractor's permanent employees other than key personnel, include:

- (a) The unavailability from local sources of sufficient numbers of temporary workers and/or subcontractors to execute the Works, provided always that the Contractor has satisfied the Engineer that he has exercised his best endeavours and taken all reasonable actions to recruit sufficient temporary workers and sub-contractors from local sources.
- (b) The unavailability within the temporary worker pool and/or from subcontractor sources available to the Contractor in terms of Contract, of sufficient skills necessary to execute the Works or specific portions thereof, in situations where the completion period allowed in the Contract is insufficient to facilitate the creation of the necessary skills through the provision of suitable training, as contemplated in the Contract;
- (c) Any other circumstances which the Engineer may deem as constituting a warrant.

# PS20.2 Temporary Workforce

The Contractor shall draw labour from the local communities through the Labour Desk(s), or similar arrangements, which have been established for this purpose. Accordingly, the workforce that is employed on Site shall consist of local residents, except for approved key staff in the permanent employ of the Contractor, to the maximum extent that is compatible with the requirements of the Conditions of Contract.

The Labour Desk(s), or similar arrangements which have been established for this purpose shall assist in identifying available local labour and, where available, semiskilled labour as well as local subcontractors. The Labour Desks shall also assist and advise regarding conditions of employment, minimum wages, disputes and disciplinary procedures. The function of the Labour Desk(s) shall however in no way diminish the responsibilities of the Contractor in terms of the Conditions of Contract. Although the Contractor shall adhere to the statutory minimum wage rates of the Conditions of Contract), he is however at liberty to negotiate additional incentive payments based on performance.

A contract of employment or subcontract should be signed between the Contractor and each of his employees or sub-contractors, as the case may be. Likewise contracts of employment must be entered into between each such sub-contractor, and each of the specific subcontractor's employees. Employment and subcontract agreements shall make clear reference to at least the following conditions:

- The minimum agreed wage rate per hour in respect of labourers:
- The agreed pay rate per unit production where applicable;
- UIF and WCA payments;
- Minimum working hours per day;
- Start and end times of a daily shift;
- Lunch break times;

- Company Policy regarding:
  - Rain time
  - Sickness and absenteeism
  - Disciplinary matters
  - Grievances
- Method and frequency of payment;
- Work clothes and safety equipment to be issued.

#### **PS20.3** Labour Intensive Construction

The Northern Province has decided that labour intensive construction methods are to be introduced and practised in some of the equipment activities of this project.

Labour Intensive Construction shall mean the economically efficient employment of as great a portion of labour as is technically feasible to produce a standard of construction demanded by the Specifications with completion by Due Completion Date, thus the effective substitution of labour for equipment.

Appropriate portions included in the Contract shall be executed using labour intensive construction methods. These portions of the Works shall be constructed utilising only locally employed labour and/or the labour of local sub-contractors, supplemented to the extent necessary and unavoidable by the Contractor's key personnel as provided for in sub-clause PS20.1, unless otherwise instructed by the Engineer and in accordance with the further provisions of the relevant sections of Portion 2 of the Project Specifications. The portions of the Works to be executed using labour intensive construction methods (where feasible) are:

- clearing and grubbing of the Site;
- bedding, selected fill, backfilling and compaction of all pipe trenches irrespective of depth, but assisted by mechanical compaction equipment in order to achieve the specified densities;
- excavation of pipe trenches where the soil conditions and trench depths permit economic production;
- transportation and spoiling of all trench materials, where the disposal site in located within 20 metres
  of source;
- removal of oversized materials to the edge of the roadway during the construction of roads and streets:
- laying and testing of all pipelines, including all fittings, valves and house/erf connections;
- construction of all manholes, valve chambers, thrust blocks pipeline markers and the like (earth-, concrete-, brick- and metal works);
- construction of the rudimentary draw-off assemblies;
- mixing, transporting, placing and finishing of all concrete;
- dismantling and re-erection of fences; and
- cleaning and tidying up of the Site.

In respect of those portions of works which are not listed above, the construction methods adopted and plant utilised shall be at the discretion of the Contractor, provided always that the construction methods adopted and plant utilised by the Contractor are appropriate in respect of the nature of the Works to be executed and the standards to be achieved in terms of the Contract.

#### PS 21 SUBCONTRACTING

- PS 21.1 The Contractor shall appoint specialist subcontractors nominated by the Employer or the Engineer for those portions of the Works that are described in Section PSA in Portion 2 of the Project Specification.
- **PS 21.2** The Contractor shall sub-let to local small sub-contractors appropriate portions of the works that are designated in Clause PS 20.3 as being reserved for labour intensive construction methods.
- As required by Clause 6.4 of the Conditions of Contract, the Contractor shall be responsible for all work carried out by sub-contractors (whether nominated by the Employer or selected by the Contractor) on his behalf. The Engineer will not liaise directly with any such sub-contractor, nor will he become involved in any problems and/or disputes related to payments, programming, workmanship, etc, unless provided for in the Conditions of Contract. Such problems and/or disputes shall remain the sole concern of the Contractor and his sub-contractors.
- PS 21.4 The Engineer may at his discretion, upon receipt of a written and fully motivated application from the Contractor, and where he deems the circumstances so warrant, and provided always that the Contractor has complied fully and in all respects with provisions of the Contract pertaining to subletting to local subcontractors or has utilised his best endeavours to comply therewith, authorise in writing that the Contractor may employ local residents in terms of Clause PS 20.2 with the sole intent of executing on-the-job training of such local residents to suitable levels of skill that will enable the Contractor to sub-let appropriate portions of the Works as specified in Clause PS 20.2 to such local residents.

Without limiting the generality of application of this sub-clause, circumstances, which may be considered by the Engineer to warrant such authorisation, include:

- (a) non-receipt of valid or acceptable BIDs/quotations from local sub-contractor;
- (b) serious default or failure of appointed local sub-contractor;

The Engineer shall not grant such authority in cases where it may reasonably be concluded on the available evidence that the invitation of further BIDs/quotations in accordance with the terms of the Contract, is likely to result in the successful completion of the portions of the Works concerned by local sub-contractors.

Should the Contractor, after suitable due endeavour, be unable to identify local residents suitable for and desiring to train as sub-contractors for portions of the Works as specified in Clause PS 20.2, then the Contractor shall be permitted to undertake the Works in question with his own workforce as provided for in Clause PS 20.1 above.

The Engineer shall monitor progress achieved with subcontractor training, and successful completion of this training shall be subject to his approval or instruction. The Contractor shall BID rates for the training of sub-contractors and labour. See Clause PS 22 in this regard.

PS 21.5 As specified in Clause PS 20, the Contractor shall approach the Labour Desk or similar arrangements which have been established for purposes of the Contract for assistance and advice regarding conditions of employment, minimum wages, disputes and disciplinary procedures in respect of local sub-contractors.

#### PS 22 TRAINING

#### PS 22.1 Artisan and Skills Training

When required in respect of those portions of the Works that are listed under PS 20.3 and where insufficient skills are currently available within the identified communities via the Labour Desks or from local subcontractors, the Engineer may, after due consideration and subject to budget constraints, authorise, in writing, the training of local labour in specific trades or other skills for direct employment of the Works or as local sub-contractors. Such training shall be carried out by specialists and shall be consistent with standards that are approved at industry level, such as training provided by CEITS or by the APEX Training Centre, or by training organisations that are certified by these bodies. The cost of this training shall be borne by the Employer, and the Contractor will be compensated for actual costs incurred in this regard under the Prime Cost item that has been included for this purpose in Schedule 1.

#### PS 22.2 In-house Training

Alternatively, under similar conditions and subsequent to due evaluation of all relevant factors, the Engineer may authorise, in writing, that in-house training of local labour be executed by the Contractor utilising the services of approved skilled key-personnel or artisans in his employ. The Contractor shall BID rates for such training, inclusive of all training materials, construction materials (pipes, fitting, brick, sand, cent etc.) and small tools. Payment will be made to the Contractor as provided in Schedule 23 of the Pricing schedules.

**END OF SECTION** 

#### Section 4.2

#### **PROJECT SPECIFICATIONS**

Portion 2

Variations to Standardised Specifications and Additional Clauses

#### **PORTION 2: VARIATIONS AND ADDITIONAL CLAUSES**

#### PSA GENERAL

#### PSA1 SPECIFICATION DRAWINGS

Specification Drawings may be included in this document as annexures to the Project and Particular Specifications. Where such Specification Drawings depict items and standard structures according to layouts and details differing from those shown in the Standardised Specifications, the layouts and details shown in the annexures to the Project and Particular Specifications shall be adopted.

#### PSA2 QUALITY

All material used in the Works shall, where such mark has been awarded for a specific type of material, bear the SANS mark. Alternatively, the Contractor shall furnish the Engineer with certificates of compliance of materials, which bear the official mark of the appropriate standard.

#### PSA2.1 DEFINITIONS

#### PSA2.1 Definitions

Add the following:

Task - a quantified activity or operation.

Daily task - a task that is required to be completed within a working day.

Task remuneration (order)

Daily rate

- remuneration as paid for a completed task or job (order).

the remuneration of a day's work.

Daily wage - see daily rate

Daily task remuneration - the remuneration for a completed daily task.

Labour-intensive construction

- the economically efficient employment of as great a portion of labour as is technically feasible to produce as high a standard of construction as demanded by the specification and allowed by the funding available, thus the effective substitution of labour for equipment. (Note: This definition is not Contract specific, but applies to the project as a whole. This Contract is a part of such a project). All materials shall comply with the requirements of the South African Bureau of Standards and shall bear the official standardization mark. Where SABS standard does not exist for a certain material, or a material does not bear the official standardization mark, the Engineers approval of such material must be gained before use thereof.

#### C3.4.3 Construction Equipment

All equipment on site shall be in a good working order and is to be in such a condition that it can achieve production rates which are typical of the industry standards.

Should any equipment, in the opinion of the Engineer, be substandard or breaks down frequently to such an extent that it affects the progress on the project, the Engineer may instruct the Contractor to replace such equipment.

#### C3.4.4 Health & Safety

All work is to be carried out in accordance with the Occupational Health and Safety Act and Regulations (Act 85 of 1993) (a copy of which must be kept on site), the Explosive Material Act of (Act 26 of 1956), the Minerals Act of 1991, and the Factories Machinery and Building Work Act (No 22 of 1941).

Two items relating to the fixed cost and time related cost of complying with these regulations have been provided in the Schedule of Quantities (items 1.1.9 and 1.2.9).

The Contractor is to ensure that at least the following is allowed for in his/ her rates:-

- (i) Provision of a full-time safety officer (and assistants if necessary) for the duration of the contract.
- (ii) Provision of all safety equipment required in terms of the Act (e.g. gloves, hard hats, safety boots, harness, masks, goggles, etc.).
- (iii) Provision for all other costs necessary for conforming with the Regulations (e.g. management, risk etc.)

#### Accommodation of traffic

It is expected of the Contractor to ensure that the free flow of traffic is possible throughout the construction period.

The Contractor is to provide all necessary barricades, signs and lighting in accordance with the stipulations of the South African Road Signs Traffic Manual, and the Protective Services of the O. R. Tambo District Municipality. All work is to be to the satisfaction of the Engineer.

#### Inspection by engineer

No stage of construction shall be proceeded with until the Engineer or his representative has examined and approved the previous stage. If any work is covered or hidden from view before the Engineer has inspected same, the Contractor shall at his own cost open the covered work for inspection. The Contractor shall also be responsible for making good any work damaged by such uncovering.

#### Employment of local labour

It is a specific criterion of this project that should as far as possible adheres to RDP principles, and to meet these principles the following procedures will be followed:

All labour is to be sourced from the O. R. Tambo District Municipality area of jurisdiction and the Contractor may only bring in key personnel from outside this area.

#### C3.4.5 Existing Services

#### C3.4.5.1 Treatment of Existing Services

The Contractor shall ensure that none of the existing services are damaged during the implementation of this Contract.

#### C3.4.5.2 Use of Detection Equipment for the Location of Underground Services

The Contractor may use detection equipment to locate underground services prior to exposing such by hand.

#### C3.4.5.3 Damage To Services

The Contractor shall exercise care in the vicinity of existing services and shall take all necessary measures to protect such services. Repairs to existing services damaged by the Contractor shall be for his own account.

#### C3.4.5.4 Reinstatement of Services and Structures Damaged During Construction

In the event of a service being damaged, the Contractor shall immediately notify the authority concerned, as well as the Employer's Agent. Where the authority concerned elects to effect the repair, the Contractor shall co-operate with and allow such authority reasonable access and sufficient space and time to effect the repair.

#### C3.4.5 Site Establishment

#### C3.4.6.1 Services and Facilities Provided by the Employer

The O.R Tambo District Municipality is the Water Supply Authority.

No services or facilities will be provided by the Employer. The Contractor is to provide his own services and facilities, and to make allowance for the cost thereof in Section 1 of the Schedule of Quantities.

#### C3.4.6.2 Facilities Provided by the Contractor

The Contractor is to provide the facilities indicated in the Schedule of Quantities.

#### C3.4.6.3 Storage and Laboratory Facilities

The Contractor is to provide the facilities indicated in the Schedule of Quantities.

Storage areas are to be contained within the Contractor's designated, fenced off construction camp(s).

#### C3.4.6.4 Other Facilities and Services

The Contractor is responsible for the provision of all necessary temporary facilities which are not provided by the Employer, including power, water, telecommunications, security services, medical, fire protection, sanitation and toilets and solid waste disposal.

The Contractor shall make his own provisions for the collection, storage and disposal of all construction waste (i.e. whether it be in the camp or on the construction site); all in conformance with the Environmental Management Plan and with approval of the Employer's Agent, the Local Authority and the Environmental Officer. Payment for the clearing, loading, transport, dumping fees and any other requirement or costs incurred shall be included in the scheduled rates.

The Contractor shall provide suitable and adequate portable chemical latrines for his employees and his sub-contractors. Latrines shall be maintained by the Contractor in a clean and sanitary condition to the Employer's Agent's satisfaction. The use of latrines shall be enforced and fouling of the site will not be permitted.

The Contractor shall be permitted to house Key Personnel only within the construction camp site(s). At the commencement of the Contract, the Contractor shall inform the Employer's Agent of his intentions regarding the housing of Key Personnel on site, and he shall thereafter ensure that such accommodation is kept neat, hygienic, and properly controlled at all times. At any stage of the Contract, should the Employer's Agent be of the opinion that the housing of Key Personnel within the construction camp(s) is causing disturbance, or inconvenience to the land owner or nearby residents, the authority granted in this clause for the housing of Key Personnel within the construction camp(s) be withdrawn, either partially or entirely.

The Contractor is to comply with all requirements contained in law or local bylaws, as well as any other requirements set by the local authority.

#### C3.4.6.5 Notice Boards

The Contractor is to provide notice boards as indicated in the Schedule of Quantities, the layout of which is to match the template issued in the Tender Document.

The boards are to be erected at locations approved by the Employer's Agent. The Employer's Agent reserves the right (at no cost to the Employer) to have any sign, notice or advertisement moved to another location, or to have such removed from the site entirely, should such signs, notices or advertisements prove in any way unsatisfactory, or an inconvenience or danger to the general public.

These boards are to be maintained for the duration of the Contract. Any damage to the boards shall be repaired within fourteen (14) days of a written instruction issued by the Employer's Agent.

The notice boards and supporting structures are to be removed fourteen (14) days prior to the issue of the Final Approval Certificate.

#### C3.4.7 Site Usage

Access to site shall be limited to the Contractor and his personnel. The Contractor shall be responsible for the control of unauthorized entry to the site and shall inform the Employer's Agent of any breach of such rules. The site shall be managed and used for its intended purpose. The Contractor is required to keep a visitors log and ensure full compliance with site safety standards.

#### C3.4.8 Permits and Way Leaves

While the Engineer is responsible for obtaining all the necessary wayleaves, permissions and permits applicable to working near any existing services or other infrastructure on Site, the Contractor is responsible for abiding by the safety and other conditions imposed by such wayleaves, permissions and permits.

The Contractor shall ensure that all wayleaves, permissions and permits (furnished by the Engineer) are kept on site and are available for inspection by the relevant services authorities on demand.

The Contractor shall also ensure that any wayleaves in respect of electricity services are renewed timeously every three months.

#### C3.4.9 Alterations, Additions, Extensions and Modifications to Existing Works

The Contractor is to satisfy himself as to the dimensional accuracy, alignment, levels and setting out of existing structures or components thereof to ensure compatibility with the proposed works. Any concerns are to be raised timeously with the Employer's Agent.

#### C3.4.10 Inspection of Adjoining Properties

In the event that blasting is required on site, inspection of potentially affected buildings and properties is to be conducted with the owners of such buildings/properties, along with representatives of the local authority. This is to be completed before commencing with blasting.

The Contractor shall record the condition as well as photograph all adjoining structures before commencing with blasting.

#### C3.4.11 Water for Construction Purposes

The Contractor is responsible for procuring, transporting, storing, distributing and applying the water needed for construction purposes. Consultation with the local community or the local authority may be required, depending on the proposed source of such water.

#### C3.4.12 Survey Control and Setting Out of the Works

Control points in the form of benchmarks and pegs have been established at critical points.

#### C3.4.13 Workmanship and Quality Control

The onus to produce work that conforms in quality and accuracy of detail to the requirements of the Specifications and Drawings rests with the Contractor, and the Contractor shall, at his own expense, institute a quality control system and provide suitably qualified and experienced Employer's Agents, foremen, surveyors, materials technicians, other technicians and technical staff, together with all transport, instruments and equipment to ensure adequate supervision and positive control of the Works at all times.

The cost of supervision and process control, including testing and mix designs carried out by the Contractor, will be deemed to be included in the rates tendered for the related items of work.

The Contractor's attention is drawn to the provisions of the various Standardized Specifications regarding the minimum frequency of testing required. The Contractor shall, at his own discretion, increase this frequency where necessary to ensure adequate control.

On completion and submission of every part of the work to the Employer's Agent for examination and measurement, the Contractor shall furnish the Employer's Agent with the results of the relevant tests, mix designs, measurements and levels to demonstrate the achievement of compliance with the Specifications.

#### C3.4.14 Features Requiring Special Attention

The onus to produce work that conforms in quality and accuracy of detail to the requirements of the Specifications and Drawings rests with the Contractor, and the Contractor shall, at his own expense, institute a quality control system and provide suitably qualified and experienced Employer's Agents, foremen, surveyors, materials technicians, other technicians and technical staff, together with all transport, instruments and equipment to ensure adequate supervision and positive control of the Works at all times.

#### **C3.4.14.1 Supporting Documents**

Refer Section PS.8.1 of this document

#### C3.4.14.2 Monthly Reporting

Refer Section PS.8.7 of this document

#### C3.4.14.4 Accommodation of Traffic

The Contractor will be required to make provision for the accommodation of traffic along all public roads for the full duration of construction.

#### C3.5 Management

#### C3.5.1 Management of the Works

#### C3.5.1.1 Applicable SANS 1921 Standards

- SANS 1921-1:2004 Part 1 General Engineering and Construction Works
- SANS 1921-2:2004 Part 2 Accommodation of Traffic on Public Roads Occupied by the Contractor
- SANS 1921-3:2004 Part 3 Structural Steelwork
- SANS 1921-5:2004 Part 5 Earthworks Activities which are to be Performed by Hand
- SANS 1921-6:2004 Part 6 HIV/AIDS Awareness

#### C3.5.1.2 Particular Specifications (refer to Annex C3.6)

Refer to C3.6 – Annexures for particular (purpose written) specifications.

#### **C3.5.1.3 Planning and Programming**

The Contractor shall submit a detailed programme within fourteen (14) days of the acceptance of the tender as stipulated in the General Conditions of Contract 2015.

The Contract period shall include all Saturdays, Sundays, non-working days (public holidays), special non-working days, as well as an allowance for anticipated inclement weather (as per Clause Clause 5.12.2.2: Extension of Time) during normal working hours. The programme shall be agreed between the Employer and the Contractor prior to the implementation of the construction works.

The programme shall be updated monthly, for discussion at the monthly progress (site) meeting, to indicate planned versus actual progress.

The Contractor shall review his progress each month and should progress lag behind the latest accepted programme, by more than 2 weeks, he shall submit a revised programme and method statement of how he proposes to make up the lost time. If, in the opinion of the Employer's Agent, such revised programme will not make up the lost time, the Employer's Agent shall have the right to request the Contractor to reorganize his work in a manner which will ensure an acceptable programme. Claims for additional payment to meet any costs incurred due to such reorganisation will not be accepted.

Should the Contractor wish to work outside normal working hours (as defined in the Contract Data) for any reason, he shall first seek permission to do so from the Employer's Agent. Attending to emergency situations or making-safe the Works are exempt from requiring prior approval, but notification shall still be sent to the Employer's Agent.

Site handover and commencement of execution of the Contract will only take place once all the necessary documentation (details given in Contract Data) has been submitted and approved. Before any site work is undertaken, an introductory meeting with the local community has to be held. The latter is arranged by the Employer's Agent.

#### C3.5.1.4 Programme Format and Content

Programmes shall be submitted in Microsoft Project format in hardcopy and softcopy. The Contractor is to provide the detailed programme such that it is legible.

The programme of construction shall be submitted to the Engineer within the time period stipulated in these documents. The programme shall clearly show all activities related to the works and shall indicate which activities are on the critical path.

In compiling the programme the Contractor shall take into account the following:

- The requirements and effects of employing labour intensive construction methods.
- The lead-time for training of local labour.
- The accommodation and safeguarding of public access and traffic
- Accommodation of and notification for temporary water shut down
- Establishment and de-establishment times.
- Time to obtain all permits and way-leaves.
- Appointment of Community Liaison Officer (CLO).
- All public and Contractor close down periods.
- All other activities required in terms of this document.

The Contractor's programme shall show:

- a) The various activities, related to a time scale, for each element of the Works, including those of Subcontractors, in sufficient detail to be able to assess construction progress.
- b) Water testing
- c) Critical path activities and their dependencies.
- d) Key dates in respect of information to be provided by the Employer's Agent and/or others.

#### C3.5.1.5 Methods and Procedures

Where requested in writing by the Employer's Agent, the Contractor shall submit Method Statements for constructing specific aspects of the Works. Such work shall not be started until the Contractor receives approval of the Method Statement in writing from the Employer's Agent.

#### C3.5.1.6 Quality Plans and Control

The Contractor is required to have in place, and follow, an approved Quality Assurance System for the execution of this Contract. To this end, the Contractor shall submit his proposed Quality Management Plan (QMP) to the Employer's Agent for approval along with his up-front documentation required before the commencement of the Works. The QMP shall include the Contractor's proposed Quality Control Plan (QCP) which shows how conformance to the QMP is to be documented.

In addition to this, the Contractor is required to follow the Employer's Agent's Site Quality Control procedures which entails the following:

- · Contractor's submission of Request for Inspection of Work;
- Employer's Agent's signing-off of 'hold points' at each stage of the work (thereby authorising the

Contractor to proceed with the next stage of the work). This may take several iterations should the Employer's Agent require further work before signing-off. Work may not proceed on the next stage until the previous stage has been signed-off.

Claims for particular items of completed work for each interim Payment Certificate will not be certified for payment where the required sign-offs have not been obtained.

No claims for extension of time, nor any other form of compensation, will be entertained for delays in receiving the Employer's Agent sign-offs on 'hold points' where, in the opinion of the Employer's Agent, insufficient notice has been given to inspect and approve the Works. The default notice required is 48 hours.

The Contractor shall submit copies of all his conformance documentation to the Employer's Agent on a monthly basis and proof of recent calibration of all measuring devices that are to be used.

#### C3.5.1.7 Environment

The Contractor shall comply with the Construction Environmental Management Plan (attached in Annexures). The Environmental Control Officer shall liaise directly with the Contractor on general environmental matters. Where such matters affect construction works, the Environmental Control Officer will be required to address such concerns with the Employer's Agent.

The Contractor shall plan the work in such manner that wind-blown dust is kept to a minimum. Earthworks shall commence immediately after a section is cleared and approved. The Contractor will have a water truck or other means of dust suppression on standby for spraying the cleared areas. The cost of this process will be deemed to have been included in the clearing and excavation rates entered in the Schedule of Quantities.

Burning of any materials on site will not be allowed.

The Contractor is required to progressively and systematically finish and tidy the work as it proceeds. This will be monitored against the latest approved programme. The Employer's Agent shall have the right to not certify full payment of particular scheduled items where such items are largely complete, but finishing and tidying is deemed still outstanding.

Under no circumstances shall spoil, rubble, materials or equipment be allowed to unnecessarily accumulate on Site. If, in the opinion of the Employer's Agent, this is occurring, the Employer's Agent shall have the right to make an

allowance for the estimated cost of rectifying the above by reducing particular measured quantities from claims being processed for payment.

#### C3.5.1.8 Accommodation of Traffic on Public Roads Occupied by the Contractor

All work within the road reserve is to be conducted strictly in accordance with the wayleaves issued for such work.

#### C3.5.1.9 Other Contractors On Site

There are no other Contractors on Site.

#### C3.5.1.10 Testing and Quality Control

(i) Contractor to engage services of an independent laboratory

Notwithstanding the requirements of the Specifications pertaining to testing and quality control, the Contractor shall engage the services of an approved independent laboratory to undertake all testing of materials, the results of which are specified in, or may reasonably be inferred from, the Contract. These results will be taken into consideration by the Employer's Agent in deciding whether the quality of materials utilised, and workmanship achieved by the Contractor comply with the requirements of the Specifications. The foregoing shall apply irrespective of whether the specifications indicate that the said testing is to be carried out by the Employer's Agent or by the Contractor.

The Contractor shall be responsible for arranging with the independent testing laboratory for the timeous carrying out of all such testing specified in the Contract, at not less than the frequencies and in the manner specified. The Contractor shall promptly provide the Employer's Agent with copies of the results of all such testing carried out by the independent laboratory.

For the purposes of this clause, an "independent laboratory" shall mean an "approved laboratory" (as defined in subclause PSA 7.2) which is not under the management or control of the Contractor and in which the Contractor has no financial interest, nor which has any control or financial interest in the Contractor.

(ii) Additional testing required by the Employer's Agent

In addition to the provisions of subclause C3.4.2.5(b)(i): Contractor to engage services of an independent laboratory, the Employer's Agent shall be entitled at times during the Contract to require that the Contractor arrange with the independent laboratory to carry out any such tests, additional to those described in subclause C3.4.2.5(b)(i), at such times and at such locations in the Works as the Employer's Agent shall prescribe. The Contractor shall promptly and without delay arrange with the independent laboratory for carrying out all such additional testing as required by the Employer's Agent, and copies of the test results shall be promptly submitted to the Employer's Agent.

- (iii) Costs of testing
- (a) Tests in terms of subclause C3.4.2.5(b)(i)

The costs of all testing carried out by the independent laboratory in accordance with the requirements of subclause C3.4.2.5(b)(i), above shall be borne by the Contractor and shall be deemed to be included in the tendered rates and prices for the respective items of work as listed in the Bill of Quantities and which require testing in terms of the Specifications. No separate payments will be made by the Employer to the Contractor in respect of any testing carried out in terms of subclause C3.4.2.5(b)(i).

Where, as a result of the consistency of the materials varying or as a result of failure to meet the required specifications for the work, it becomes necessary to carry out additional tests (e.g. re-tests on rectified work and/or replacement materials), the costs of such additional testing shall be for the Contractor's account.

(b) Additional tests required by the Employer's Agent

The costs of any additional tests required by the Employer's Agent in terms of subclause C3.4.2.5(b)(ii): Additional testing required by the Employer's Agent, shall be reimbursed to the Contractor against substitution of the Provisional Sum allowed therefore in the Bill of Quantities; provided always that the costs of any such additional tests ordered by the Employer's Agent, the results of which indicate that the quality of the materials utilised and/or the standard of workmanship achieved are/is not in accordance with the specifications, shall not be reimbursable to the Contractor.

#### C3.5.1.11 Recording of Weather

The Contractor is to provide and correctly install a rain gauge and maximum/minimum thermometer at the construction camp. The Contractor shall record and keep a record of the daily rainfall and maximum/minimum temperatures and supply the data to the Employer's Agent on a daily basis. Readings are to be recorded daily at 08:00 unless otherwise agreed to by the Employer's Agent.

The Contractor shall take all necessary precautions to ensure that the rain gauge cannot be interfered with by unauthorised persons.

#### C3.5.1.12 Format of Communications

All requests for information or requests for inspections are to be recorded in writing.

All instructions are to be issued in writing as a Site Instruction.

#### C3.5.1.13 Key Personnel

The Contractor is to compile and submit to the Employer's Agent a schedule of Key Personnel, including titles, names, designations and contact numbers of such personnel. This document is to be updated immediately in the event of any changes.

#### C3.5.1.14 Management Meetings

Formal project meetings will be held on site in the Employer's Agent's office (or similar suitable office). Representatives of the Employer, Employer's Agent and Contractor will be required to attend. The representatives are to have the necessary authority in respect of aspects such as planning and health and safety. The Contracts Manager and Construction Manager (Site Agent) are required to attend all such meetings.

The Contractor shall attend the following meetings during the Contract:

- a) An inaugural site meeting at the BM Infrastructure offices or as called by the Employer's Agent
  - b) Monthly site meetings, at BM Infrastructure East London offices and on Site or as called by the Employer's Agent, from the commencement of the Works until the issue of the Practical Completion Certificate (or where necessary as determined by the Employer's Agent).
  - c) Monthly technical meetings called by the Employer's Agent (or where necessary as determined by the Employer's Agent).
- d) Meetings during the Defects Notification Period called by the Employer's Agent (only if warranted)
- e) The following reports shall be submitted by the Contractor before the monthly Site Meetings:
  - Progress Report
  - Plant & Labour returns
  - Updated Programme vs Baseline Programme
  - Updated cashflow projection.

The cost of these requirements shall be included in the rates tendered for Time Related Items.

#### C3.5.1.15 Forms for Contract Administration

The Employer's Agent's Representative will have a full set of contract administration forms for use on site. This includes forms for recording test results, claims, inspections and the like. The Contractor may use such as a basis for his documentation should he not have adequate similar templates.

#### C3.5.1.16 Electronic Payments

The Employer will make payments by electronic means only.

#### C3.5.1.17 Daily Records

The Contractor is required to keep daily records of resources (people and construction equipment) as well as of work performed on the site. A signed copy of the previous day's record must be provided to the Employer's Agent on a daily basis.

Information relating to construction equipment shall be recorded in the Daily Site Diary. In addition, the Contractor shall deliver to the Employer's Agent, on a monthly basis, a detailed schedule of construction equipment present on the site for that month. Full particulars are to be recorded, identifying each piece of equipment, including whether the equipment is in working order or out-of order. This schedule is to be submitted by the first day of the month following the month to be reported.

#### C3.5.1.18 Bonds and Guarantees

Bonds and guarantees are to be submitted to the Employer from whom they can be collected once they are released, in accordance with the contract.

#### C3.5.1.19 Payment Certificates

Measurements for interim and final certificates must be agreed with the Employer's Agent prior to the issuing of a Tax Invoice by the Contractor.

The Contractor is to provide all invoices, vouchers and receipts in respect of payments made by him in connection with provisional or prime cost items when he requires payment for such.

The Contractor is to provide all invoices or receipts in respect of materials purchased and delivered to the site when he requires payment for such. Invoices or receipts are to clearly identify the material, the unit rate thereof, and the quantity/number purchased.

It is a specific requirement of this Contract that the Contractor shall collect and record all relevant information for the completion of end-of-month documentation to be submitted with each payment claim. The Payment Certificate (prepared by the Employer's Agent) will not be accepted by the Employer unless accompanied by the following:

- Local Labour Schedule (in EPWP format, i.e. giving employee names, IDs, gender, age group and disability status if applicable)
- Contract Participation Goal expenditure to date vs target (details of labour wages and salaries paid and payments to Targeted Enterprises vs value of work certified to date)
- Monthly Progress Report (from Site Meeting).

#### C3.5.1.20 Proof of Compliance with the Law

The Contractor shall insure his employees against accident in terms of the Compensation for Occupational Injuries and Diseases Act (Act 130 of 1993), as amended. A Letter of Good Standing with the Compensation Fund, as issued by the Department of Labour, must be submitted as part of the Tender.

Where the Letter of Good Standing expires during the contract period, the Contractor will be required to submit new, valid documentation. Failing to do so will result in work being stopped.

#### C3.5.1.21 Insurance Provided by the Employer

No insurance will be provided by the Employer.

#### C3.5.2 Health and Safety

#### C3.5.2.1 Health and Safety Requirements and Procedures

The Contractor is to comply in all respects with the Occupational Health and Safety Act (Act 85 of 1993), as amended, as well as with the Construction Regulations 2014 and the Electrical Machinery Regulations.

The Health and Safety Officer appointed by the Employer shall liaise directly with the Contractor on safety matters but shall be required to channel safety matters affecting construction work through the Employer's Agent.

The Contractor shall take special care of the following during construction:

- Flooding of trenches or excavations
- Possibility of collapse of excavations in sandy soils
- Protection of deep excavations and adjacent structures
- Protection of existing services
- Accommodation of traffic and pedestrians
- Proper storage and stacking of materials
- Good housekeeping and site tidiness
- Provision of welfare facilities
- Dust control

The Contractor's Health and Safety plan is to be approved and the Contractor's Safety Officer is to be appointed prior to the commencement of any construction activities. It is specifically noted that the person officially appointed as the Contractor's Safety Officer shall be properly qualified and experienced and be based full-time at the site while activities are taking place.

Time lost due to delayed commencement or suspension of the work as a result of the Contractor's failure to submit the safety plan timeously, shall not be used as a reason to claim for extension of time or standing time and related costs.

#### C3.5.2.2 Protection of the Public

Any excavations left open during the builder's holiday or other non-working days shall be adequately safeguarded at all times. Safe trench-crossings shall be provided where necessary. The length of trench left open at any one time may be restricted by the Employer's Agent, should he consider such restriction to be in the interest of public safety.

#### C3.5.2.3 Barricades and Lighting

The Contractor is responsible for the safety of the site and shall provide all necessary watching, barricading and lighting. This is especially significant at excavations.

#### C3.5.2.4 Community Participation

Although there is very limited scope for the employment of unskilled workers from the surrounding communities, there will be a strong expectation among the community that at least some people are employed while on-site activities are taking place (eg providing 24h security, assisting with lifting / carrying / holding in position during assembly etc).

Such persons are to be selected and employed via a Community Liaison Officer.

A Provisional Sum allowance has been made for the short-term employment of CLOs in accordance with the following Terms of Reference (ToR) for the CLO (*Refer Section PS.8.6*)

#### C3.5.2.5 Employment of the Local Community

The Contractor is to limit the import of labour to skilled personnel only. Semi-skilled and unskilled labour is to be sourced from the local community.

The human resources of the local community are generally underdeveloped, underutilised and underemployed. The Contract Participation Goals set for Targeted (local) Labour and Targeted (local) Enterprises are to encourage both skills and economic development by requiring a minimum level of local resources participation on all construction work in the O. R. Tambo District Municipal (ORTDM) area of jurisdiction. Details are given in Part C1: Contract Data and the CPG Returnable Schedules.

It is therefore a condition of Contract that the Contract Participation Goals set for Targeted Labour and Targeted Enterprises (minimum percentages of the value of work executed) are achieved. The measure of Targeted Labour Participation comprises the sum of wages and salaries paid to all locally-based (ORTDM) South African Citizen residents for any work done on this Contract (irrespective of level of skills, race, gender or who they are employed by). The measure of Targeted Enterprise Participation comprises the sum of monies paid by the Main Contractor to all locally-based (ORTDM) enterprises irrespective of race or gender of the enterprise ownership).

It is a requirement that, at least, all unskilled labour taken-on by the Main Contractor and his sub-Contractors are sourced from the local community and that such employment is arranged through the CLO and PSC.

Employment of all temporary labour, whether employed directly or through a Subcontractor, shall comply in all respects with the National Government Department of Labour's regulations; including the minimum wage applicable to construction work in the Eastern Cape.

#### C3.5.2.6 Certificate of Service

An employee shall, upon termination of his services, be entitled to a Certificate of Service showing the full names of his employer (i.e. the Contractor) and the employee, the type of work done by the employee, the date of commencement, a record of training received and the date of termination of his services.

#### C3.6 ANNEXURES

- C3.6.1 Variations and Additions to the Standard SANS 1200 Specifications: General, Civil and Structural Works
- **C3.6.2 Particular Specifications**
- C3.6.3 Health and Safety Specifications by the Employer
- C3.6.4 Construction Environmental Management Plan

# Variations and Additions to the Standard SANS 1200 Specifications: General, Civil and Structural Works

NOTE: Numbering in the Project Specifications corresponds with the numbering of clauses in the Standard Specifications (SANS 1200).

Tenderers must make provision for all the relevant Project Specification requirements to be included when calculating the prices of the various items in the schedule of quantities.

In addition, the sum tendered shall cover all initial costs incurred in complying with the requirements of C1.2 Contract Specific Data

#### PSA3 MATERIALS

#### **PSA3.1** Supply of Materials

The Contractor will be responsible to supply all the materials necessary for the proper execution of the works. He shall also be fully responsible for quality of materials used and/or installed.

#### PSA4 PLANT

Except where the use of plant is essential in order to meet the specified requirements by the Due Completion Date, the Contractor shall use only hand tools and equipment in the construction of those portions(s) of the Works that are required in terms of the Project Specifications to be constructed using labour intensive construction methods.

#### PSA5 CONSTRUCTION

#### PSA5.1 Setting Out of the Works

Where labour-intensive works are specified, the Contractor shall also be responsible for the setting out of daily tasks.

#### PSA6 TESTING

- (a) All test results obtained by the Contractor in the course of his process control of the Works shall be submitted to the Engineer or his Representative prior to requesting inspection of the relevant portions of the Works. Any request for inspection shall be submitted on the prescribed forms that are appended as annexures to the Specifications.
- (b) The Contractor shall make suitable arrangements for process control prior to commencement with the Works. Should he intend using site personnel for this purpose he shall ensure that suitably trained and competent personnel take charge of the necessary test work, and that the necessary equipment is at their disposal prior to commencement of the Works. Failure to comply with these requirements shall be just cause for the Engineer to order suspension of the Works without additional remuneration in terms of the Conditions of Contract, or for him to recommend determination to the Employer in terms of Clause 58 thereof.
- (c) The Contractor shall deliver to the Engineer, for his consideration, quality assurance programmes (as obtained from all the Contractor's proposed suppliers of pipes, valves and specials) prior to the Contractor's appointment of any suppliers.

#### **PSA7.1** Instructions by the Engineer

Site instructions by the Engineer, addressed to the Contractor at his office on the Site, will be numbered consecutively and will be deemed to have been received by the Contractor's Representative unless a break in the sequence of number is brought to the notice of the Engineer in writing immediately.

#### PSA7.2 Site Diary

A site diary, which will be supplied by the Engineer, must be filled in on a daily and submitted to the Engineer on a monthly basis. No claims will be considered without the site diary's schedule properly completed (on a daily basis) and submitted.

#### PSA8 SITE MEETINGS

The Contractor and his authorised representative shall attend all meetings held on the Site with Employer and the professional team at dates and times to be determined by the Engineer. Such meetings will be held to evaluate the progress of the Contract, and to discuss matters pertaining to the Contract, which any of the parties represented, may wish to raise. It is not the intention to discuss day-to-day technical matters at such meetings.

#### PSA9 PAYMENT

Monthly Progress Payment Certificates shall be submitted to the Engineer's Representative on Site not later than the 15<sup>th</sup> of each month (or on the last working day prior to this date) in order to allow for checking and reconciliation of all quantities, rates, extensions and additions in the certificate. Each progress payment certificate shall include work executed or reasonably expected to be executed up to the 30<sup>th</sup> day of the specific month.

The Engineer's Representative shall have a period of five (5) calendar days to review the draft certificate in collaboration with the Contractor. All quantity calculations and certificates submitted by the Contractor for checking shall be in accordance with the standard formats that are included in Section 4.4C.

Upon agreement by the Engineer's Representative by not later than the 20<sup>th</sup> of each month, the certificate shall be submitted by the Contractor in a neat typed form in accordance with the prescribed format, and with the correct spelling, to the Engineer by not later than the 25<sup>th</sup> of each month (or on the first working day thereafter), together with four additional copies, for certification.

Where dayworks have been instructed by the Engineer, the Contractor shall submit the returns to the Engineer for signature and approval within twenty-four (24) hours of the end of the working day on which the work was executed. Daywork returns shall be submitted on forms following the standard format included in Section 4.4C for this purpose. Failure to comply with the terms of this clause will result in non-payment for such dayworks.

Commissioning forms must be attached to all invoices and submitted to the engineer for the approval of the payment certificates.

The tax invoice submitted with the certificate shall be dated the 1<sup>st</sup> of the month following the period certified. All costs for the preparation and submission of progress certificates shall be borne by the Contractor.

#### PSA10 REPORTS

The submission of each monthly payment certificate shall be accompanied by a completed Report.

This report is a pre-requisite for the approval of each monthly payment certificate and shall be completed in full to illustrate all work completed the preceding month, as well as work in progress at the time of submission of the report.

Each of these reports must be accompanied with the relevant, completed appurtenant Schedules. Relevant daywork reference must be attached to each Schedule.

Labour intensive activities must be reported separately.

#### PSA11 SUMS STATED PROVISIONALLY

#### PSA11.1 Contingencies

No provisional sum has been included for contingencies. No percentage mark up will be applicable to any payments made using contingency money other than those included in prices.

#### PSA11.2 Acceptance Control Testing of Earthworks

A Prime Cost Item has been included in Schedule 1 for acceptance control testing of earthworks ordered by the Engineer to be undertaken by a commercial laboratory. Payment will be based on the actual invoicing by the laboratory to the Contractor. In addition to the above-mentioned amount, provision is made in Schedule 1 for a mark-up on any payments made by the Contractor in this regard. The mark-up shall be regarded as full compensation for overheads, charges and profits as provided for the Conditions of Contract. In addition to the above amount, provision is made in Schedule 1 for a mark-up on any payments made by the Contractor. This mark-up shall be regarded as full compensation for overheads, charges and profits as provided for of the Conditions of Contract.

#### **PSA11.3** Electrical Connection Fees

A prime cost has been included in Schedule 1 for payments to Eskom in respect of electrical connection fees. In addition to the above-mentioned amount, provision is made in Schedule 1 for a mark-up on the connection fees paid. This mark-up shall be regarded as full compensation for overheads, charges, administration and profits as provided for the Conditions of Contract.

#### **PSA11.4** Specialist Contractor

A prime cost has been included in Schedule 1 for payments made to Specialist Contractors (agent, contractor, engineer or engineer appointed as agent for the employer). (Agent, contractor, engineer or enginer appointed as agent for the employers). In addition to the above-mentioned amount, provision is made in Schedule 1 for a mark-up on the Specialist Contractors paid. This mark-up shall be regarded as full compensation for overheads, charges, administration and profits as provided for the Conditions of Contract.

#### PSA11.5 Nominated Sub-Contractors

Provision is made in Schedule 1 for a mark-up on nominated Sub-Contractors in respect of overheads, charges and profit for assisting, training, co-ordinating and supervision of a nominated Emerging Sub-Contractor, who is to be employed under this programme.

#### PSA12 ADJUSTMENT OF PRELIMINARY AND GENERAL ITEMS DUE TO RAIN

Should the period for completion be automatically extended due to abnormal weather conditions occurring during execution of the Contract as provided for in the Project Specifications, no adjustment to the total for time-related preliminary and general items will be applicable.

#### PSA13 ADJUSTMENT OF PRELIMINARY AND GENERAL TIME-RELATED ITEMS

An approved extension of time will qualify the Contractor to receive additional payment for each relevant time related item at a unit rate based on the sum originally Bidded for such item, and which shall be fair and reasonable as contemplated in Clause 40 of General Conditions of Contract.

## PSA14 ADJUSTMENT OF PRELIMINARY AND GENERAL ITEMS DUE TO INTERRUPTION IN WORK SCHEDULE

Should the period of completion be automatically extended in terms of clause PS5.3 as a result of interruption in the contractors work schedule during execution of the contract, no adjustment to the total for time related preliminary and general items would be applicable. Time related preliminary and general items would be paid only if the Contractor has been established on site during a specific period. Therefore, if the Contractor was not established on site, time related P & G-items would not be paid. If he was on site for

only a limited period during a specific month, time related P&G items would to be paid in full for such a month.

#### PSA15 PAYMENT FOR ESTABLISHMENT OF FACILITIES AND ADDITIONAL ESTABLISHMENT OF

#### **FACILITIES ON THE CONTRACT**

Note: The contractor shall only be paid for site establishment by means of an official District order. Site establishment can only be claimed once per site.

#### **PSA15.1** Amend clause 8.3.2 of SANS 1200 A as follows:

Change the heading of clause 8.3.2 to:

Site establishment cost and other movement cost will be deemed to from District/Subdistrict Office including all preliminary and general costs be included in the rates Bidded for various items of work. Only transport expenditures can be claimed for.

<u>Important Note</u>: Transport cost outside the borders of O.R. Tambo District cannot be claimed for except. "Nominated Specilised services". (Refer to Section 4.2, Portion 1, paragraph PSA 11.4).

The contractor will also not be paid any additional site establishment costs in each district/subdistrict or inter-site movements, when the contractor moves into a region or district to re-do defective or maintenance work in that region.

#### PSA15.2 Amend clause 8.3.4 of SANS 1200 A as follows:

Change the heading of clause 8.3.4 to:

"Remove Contractor's site establishment on completion of contract or interim de-establishment (on instruction of the Engineer)" - for the contractors own cost

#### PSA15.3 Include the following Clause 8.3.6:

Village Movement / Site Movement

All movements ordered by the Engineer, shall be priced as follows:

- (a) Only transport cost is applicable.
- (b) Other movement cost will be deemed to be included in the rates Bidded for various items of work.

#### PSA15.4 Include the following clause 8.3.6

"Establishment cost payable to the Contractor on re-establishment."

This item must cover all costs incurred by the Contractor when re-establishing after a previous deestablishment on interaction of the Engineer.

Refer to PSA 15.3.

#### PSAB ENGINEER'S OFFICE

#### **PSAB4** SURVEY ASSISTANT (Clause 5.5) (when required by the "Engineer")

One suitably educated Assistant shall be made available for the sole use of the Engineer's Representative for the duration on the Contract. The assistant may also be required to fulfil the function of Community Liaison Officer during the Contract, should the Engineer consider this arrangement to be in the interests of the Employer. The Survey Assistants may therefore have to be appointed from the local communities.

400 NI-

(a)	Steel pegs, 300 mm long and 12 mm dia	120 No.	
(b)	Measuring wheel	1 No	
(c)	Tripod holders for ranging rods (heavy duty)	2 No.	
(d)	Optical square, complete with		
	telescopic aluminium rod and levelling bubbe	1 No.	
(e)	100m long 50 kg strength fish line	1 No.	
(f)	One metre long spirit level	1 No.	
(g)	DCP	1 No.	

#### PSC SITE CLEARANCE

#### PSC1 DISPOSAL OF MATERIAL (Sub-Clauses 3.1 and 8.2.1)

Materials arising from clearing and grubbing shall be disposed of as may be ordered by the Engineer. Trees and stumps necessarily removed shall not be burnt unless authorised by the Engineer, but shall be cut and stacked at areas designated by the Engineer.

#### PSC2 AREAS TO BE CLEARED AND GRUBBED (Clause 5.1)

The areas to be cleared and grubbed will be indicated by the Engineer. Should a portion or the whole of the site have been cleared and grubbed by nature or by others prior to the start of construction, then no clearing and grubbing will be ordered or payment made with respect to the applicable portion of the site.

#### PSC3 PRESERVATION OF TREES AND SHRUBS (Sub-Clause 5.2.3)

The penalty in respect of every individual tree and shrub designated as a tree or shrub to be preserved that is damaged or removed unnecessarily by the Contractor, shall be

R1 000. Trees that fall within areas upon which the Works are to be constructed or within areas that the Contractor must occupy for the proper construction of the Works will not be designated for preservation.

#### PSC4 OVERHAUL (New Sub-Clause)

No overhaul will be payable on the disposal of material arising from clearing and grubbing.

#### PSDA EARTHWORKS (SMALL WORKS)

#### PSDA1 FREEHAUL AND OVERHAUL (Clause 5.2.5)

The freehaul distance for all material to be imported or spoiled shall be considered as 1 km for mechanically driven vehicles and 200 m for wheelbarrows as agreed upon in the specified case of "wheelbarrow haul".

#### **PSDA2 BORROW PITS** (Clause 5.2.2.2)

Borrow materials shall be obtained from designated borrow pits approved by the Engineer.

#### PSDA3 DISPOSAL OF SURPLUS MATERIAL

All surplus or unsuitable materials arising from excavation shall be spoiled and spread where indicated by the Engineer. The Engineer shall determine the point of spoil roads that he may require for the construction of the works. No additional payment will be made in this regard.

#### PSDA4 HAUL AND SPOIL ROADS

The contractor shall be responsible for the provision of all haul and spoil roads that he may require for the construction of the works and that the engineer may approve. No additional payment will be made in this regard.

PSDB EARTHWORKS (PIPE TRENCHES)

PSDB1 MATERIALS (Clause 3)

PSDB1.1 Methods of classifying (Clause 3.1)

Replace the contents of this sub-clause with the following:

- PSDB1.1.1 Save and except in respect of those portions of the Works which are specified in Portion 1 of the Project Specifications to be executed utilising Labour Intensive Construction Methods, the Contractor may use any method he chooses to excavate any class material, but his chosen method of excavation shall not determine the classification of the excavation. The Engineer will determine the classification of the materials.
- **PSDB1.1.2** The classification will be based on the specified construction methods, inspection of the material to be excavated and on the criteria given in PSDB1.2 below, as applicable.
- PSDB1.1.3 Where the utilisation of Labour Intensive Construction Methods is specified in Portion 1 of the Project Specification for certain classes of excavation only, the material for those classes of material to be excavated using Labour Intensive Construction Methods will be classified in terms of PSDB1.2.2 and for those classes of excavation which are not required to be executed by Labour Intensive methods, classification will be based on the criteria given in PSDB1.2.1
  - (i.e. Where it is specified that the excavation of soft materials only shall be executed using Labour Intensive Construction Methods, the classification of the soft material to be so excavated will be based on the criteria given in PSDB1.2.2(a) and the Contractor will be required to excavate all such soft material by Labour Intensive methods. However, when the material is classified in terms of PSDB1.2.2(b) to be "intermediate" and is thus no longer required to be excavated by Labour Intensive methods, will be based on the criteria given in PSDB1.2.1 (thus a material classified as "intermediate" in terms of PSDB1.2.2(b) may in terms of PSDB1.2.1 be deemed to be "soft" and will be measured and paid as such under such circumstances.).
- **PSDB1.1.4** All tools and equipment referred to in PSDB1.2 shall be in good mechanical and operational condition.
- **PSDB1.1.5** "Efficiently" as used in PSDB1.2.2(a) (c) shall be taken to mean "in a manner that can be reasonably expected of a Contractor, having regard to the production achieved".
- **PSDB1.1.6** The classification of material other than "soft excavatability" shall be agreed upon before excavation may commence.
- **PSDB1.1.7** The Contractor shall immediately inform the Engineer if and when the nature of the material being excavated changes to such an extent that a new classification is warranted for further excavation. Failure on the part of the Contractor to advise the Engineer in good time shall entitle the Engineer to reclassify, at his discretion, such excavated material.
- **PSDB1.2** Classes of Excavation (Sub-Clause 3.1)

Add the following new sub-clause:

#### PSDB1.2.1 Classes of excavation where Labour Intensive Construction Methods are NOT specified

The excavation of material will, in the case of work, which is NOT required in terms of the Contract to be executed, utilising Labour Intensive Construction Methods, be classified according to SABS 1200D for the purpose of measurement and payment. Add the following new sub-clause:

#### PSDB1.2.2 Classes of excavation where Labour Intensive Construction Methods are specified

The excavation of material will, in the case of work, which is required in terms of the Contract to be executed, utilising Labour Intensive Construction Methods, be classified as follows for purposes of measurement and payment:

#### (a) Soft excavation

#### (i) Class 1

Soft excavation Class 1 shall be excavation, including the excavation of boulders not exceeding 0.04 m³, in material that can be excavated and removed from the excavation by an average able bodied labourer or group of such labourers, at a rate of not less than 2.5 m³ per 9.25 hour working day per labourer, using only a suitable shovel. The average volume/task can be accepted as 3.0 m³ per labourer per day.

#### (ii) Class 2

Soft excavation Class 2 shall be excavation, including the excavation of boulders not exceeding 0.04 m³, (excluding soft excavation Class 1) in material that can be excavated and removed from the excavation by an average able bodied labourer or group of such labourers, at a rate of not less than 2.0 m³ and not more than 2.0 m³ per 9.25 hour working day per labourer, using only picks, "crowbars", shovels and similar hand tools. The average volume/task can be accepted as 2.5 m³ per labourer per day.

#### (ii) Class 3

Soft excavation Class 3 shall be excavation, including the excavation of boulders not exceeding 0.04 m³ (excluding soft excavation Class 2) in material that can be excavated and removed from the excavation by an average able bodied labourer or group of such labourers, at a rate of not less than 1 m³ and not more than 2.5 m³ per 9.25 hour working day per labourer, using only picks, "crowbars", shovels and similar hand tools, The average volume/task can be accepted as 2.0 m³ per labourer per day.

#### (b) Intermediate excavation

Intermediate excavation shall be excavation (excluding soft excavation) in material which requires ripping or loosening by mechanical means prior to removal of the loosened material utilising the methods as described in PSDB1.1.1(a).

#### (c) Hard rock excavation

Hard rock excavation shall be excavation of boulders not yet decomposed exceeding 0.4 m³ and excavation in solid rock occurring in bulk or in banks or ledges, which requires loosening or breaking up by drilling, wedging, splitting or blasting or by other approved quarrying methods, prior to being excavated and removed from the excavation utilising only picks, "crowbars", shovels and similar hand tools.

(NOTE: Such excavation generally includes materials such as formations of unweathered rock that can be removed only after blasting.)

The Engineer will instruct for which portions of the Works, based on the evidence provided from trial holes excavated at approximately 200 m spacing by the Contractor for this purpose, will be executed utilising Labour Intensive Construction methods. The Trial hole shall be excavated to trench depth utilising a Cat 416 Backactor or similar.

#### PSDB2 PLANT

#### **PSDB2.1** Excavation Equipment (Sub-Clause 4.1)

Replace the contents of this sub-clause with the following:

(a) To the extent that the provisions of the Specifications permit the use of mechanical plant and equipment in the excavation of trenches, the Contractor may use trenching plant that will excavate to a width such that the side allowance does not exceed the appropriate value specified in 5.2 by more than 50%, except that where in terms of the Project Specifications or of the ;Drawings, the base width of a trench for a pipeline or a portion of a pipeline is not to exceed the maximum base width or a stated value, the Contractor may use trenching plant which will produce the required trench width or he shall accept the responsibility for all costs incurred in strengthening the relevant pipeline.

#### **PSDB3** ACCOMMODATION OF TRAFFIC (Sub-Clause 5.1.3)

Traffic must be accommodated along the lengths of the pipelines which fall within or adjacent to any road reserve.

The Contractor shall include in his rates for accommodating traffic during the duration of the Contract, which shall cover all his obligations in this regard, including but not limited to temporary barricades; the erection and re-erection of existing and/or temporary traffic signs; lights and flagmen for the guarding and protection of the Works; and for making all necessary arrangements with the applicable traffic authorities

If crossing of the road in half widths is allowed, the road shall remain continuously open to traffic. The Contractor shall make provision to ensure the safe passage of traffic using this public road whilst installing the pipe through the road, and to ensure that any disruption to public is kept to a minimum providing safe detours when so instructed by the Engineer. Each half width shall be completed in one day. No open trenches will be allowed overnight. If the half width is not completed by 16:00 the trench shall be backfilled, in which case the Contractor shall re-excavate the trench at a later stage to complete the work at his own expense. All detours and signs shall be erected and maintained in accordance with the latest issue of Road Signs Note 13 as issued by CSRA and CUTA.

#### **PSDB4 EXISTING SERVICES** (Sub-Clauses 5.1.4)

Where any existing service occurs within the specified trench excavation, and the presence of such service is known before being uncovered, then the protection of the service will be scheduled and measured as provided for in Clause 8.3.5 of 1200DB. Only known services (as defined in Clause 5.4 of 1200A) shall be measured for payment.

Where an unknown existing service is damaged during construction, and the Engineer orders that the Contractor should undertake the repair of such service, then such repair will either be measured and paid

as dayworks or alternatively as a contractual variation in terms of Clause 40 of the General Conditions of Contract.

No construction activity which may affect the integrity of telephone or electrical poles or stays may be carried out without the prior written approval of the Engineer, which approval shall only be given subject to the acceptance of a modus operandi that will ensure the integrity of such structures during construction.

#### **PSDB5** TRENCH WIDTHS (Sub-Clauses 4.1 and 5.2)

Trenches in general shall not exceed the widths laid down in Sub-Clause 8.2.3. If trenches exceed the specified width the Contractor shall be liable for the cost of measures, which may be required as a result of the additional trench width.

#### **PSDB6** MINIMUM BASE WIDTH (Sub-Clause 5.2)

- (a) Side allowance for pipes of diameter 125 mm or more (Sub-clauses 5.2 and 8.2.3):
- (b) The minimum base width of trench for pipes of external diameter less than 125 mm but larger than 70 mm laid at a depth of 1,5 m or less shall be 550 mm.
- (c) The minimum base width of trenches for pipes of external diameter less than 70 mm laid at a depth of 1,0 m or less shall be 400 mm.
- (d) The minimum base width of trenches where labour-based excavation is concerned shall be at least 150 mm on either side of the pipe's outer diameter to allow proper compaction of backfilling materials.
- (e) Agriculture Projects:

Only on instruction from the engineer external small HDPE diameter pipes will be laid at a depth of 500 mm. The minimum base width of trenches shall be at least 150 mm on either side of the pipe's outer diameter to allow proper compaction of backfilling materials.

#### **PSDB7** TRENCH BOTTOMS (Sub-Clause 5.5)

Replace the first paragraph of this sub-clause "Material that ......compacted as directed" with the following:-

Where a firm foundation cannot be obtained at the grade indicated due to soft or unsuitable material, the Engineer may instruct the Contractor to remove such unsuitable material and to backfill the excess depth with approved selected material or concrete, as directed by the Engineer in each particular case, at the cost of the Employer. Backfill other than concrete, shall be placed in layers of 100 mm uncompacted thickness, each layer thoroughly compacted to the entire satisfaction of the Engineer, to provide adequate support for the pipe bedding to be placed on top of it.

Should the Contractor remove more material than is required to secure the proper grade of the pipeline, the Contractor must, at his own cost, backfill the excess excavation with approved selected material or concrete as directed by the Engineer in each particular case.

#### PSDB8 DISPOSAL OF EXCAVATED MATERIAL (Sub-Clauses 5.6.3 and 5.6.4)

All surplus or unsuitable materials arising from excavation shall be spoiled and spread within or adjacent to the Site of the Works or when ordered by the Engineer be spoilt at a spoil site established by Contractor.

#### **PSDB9** FREEHAUL AND OVERHAUL (Sub-Clause 5.6.8)

No overhaul will be payable on earthworks for pipe trenches, other than specified or approved by the Engineer.

#### PSDB10 AREAS SUBJECTED TO TRAFFIC LOADS (Clause 5.7.2)

The requirements of Clause 5.7.2 shall apply only to pipes and sleeves crossing streets or paved areas and pipes running parallel to the road as described below.

All service trenches running parallel to the road of which the roadside edge of the trench is located less than 1,4 m away from the edge of the travelled way, will be subject to the requirements for the above mentioned clause.

The measurement and payment will apply to the full trench width. Pipes and sleeves crossing streets or paved areas will be measured and paid for to a length equal to the width of road or length of pavement crossed plus 1,4 m either side of the travelled edges.

Compaction of other pipe trenches running parallel to the roadway shall be considered areas subject to traffic loads only where instructed by the Engineer in writing. The volume will be computed from the minimum base width determined in accordance with Sub-Clause 5.2 and the depth from the top of the back fill to the top of the bedding as specified in Sub-Clause 8.3.3.1.

#### PSDB11 REINSTATEMENT OF EXISTING BITUMEN SURFACED ROADS (Clause 3.6 and 5.9.4)

Pipe trenches through the existing bitumen surfaced roads shall be reinstated with a 150 mm upper selected subgrade layer compacted to 93% mod AASHTO density, followed by a 150 mm sub base layer compacted to 95% mod AASHTO density and a 150 mm graded crushed stone base compacted to 98% of mod AASHTO density. The road shall be provided with a 25 mm thick asphalt seal.

The upper selected subgrade layer shall have a CBR of at least 15, a grading modulus of at leased 0,75 and a maximum PI of 12. The sub base shall conform to SABS 1200 ME and the base to SABS 1200 MF.

#### **PSDB12 MEASUREMENT AND PAYMENT** (Clause 8.3.2)

#### **PSDB12.1** Basic Principles (Clause 8.1)

Insert the following heading for Clause 8.1.2:

"Trenches not required to be excavated by Labour Intensive Construction methods"

Add the following new sub-clause: (Clause 8.1.5)

"Works required to be executed utilising Labour Intensive Construction methods

Separate items will be provided for works covered by this Specification which are required to be executed by Labour Intensive Construction methods and for works for which the utilisation of such methods is not required.

The trench depth increments referred to in Clause 8.1.2(b) and the trench depth increment for 8.1.5 shall be:

#### (a) up to 1.5 m in depth

Trenches shall be measured volumetrically, irrespective of length.

Measurement and payment for works covered by this Specification and required to be executed utilising Labour Intensive Construction (LIC) methods shall, unless otherwise stated, be *mutatis mutandis* in accordance with the provisions of SABS 1200DB as amended in this Project Specification.

#### **PSDB12.2** Excavation (Sub-Clause 8.3.2)

Excavate, in all materials for trenches 0 - 1,0 m wide, backfill, compact and dispose of surplus material utilising Labour Intensive Construction methods up to 1,5 m in depth m<sup>3</sup>

Extra over the above for

(1)	Soft excavation Class 2	(refer PSDB1.2.2)	$m^3$
(2)	Soft excavation Class 3	(refer PSDB1.2.2)	m³
(3)	Intermediate excavation	(refer PSDB1.2.2)	m³
(4)	Hard rock excavation	(refer PSDB1.2.2)	$m^3$

Excavate, in all materials for trenches 0 - 1,0 m wide, backfill, compact and dispose of surplus material utilising Conventional Construction methods

(a)	Up to 1,5 in depth	m <sup>3</sup>
Extra	over the above for:	
(1)	Intermediate material	$m^3$
(2)	Hard rock excavation	$m^3$
(3)	Backfill and compact by means of Labour Intensive	
	Construction methods	$m^3$
(4)	Disposal of surplus material by means of Labour Intensive	
	Construction methods within 20 m from the source of spoil	
	material using wheel barrows	$m^3$

Backfill should be in 200 mm thick layers compacted to 90% Mod AASHTO.

Payment for the excavation and backfilling of trenches shall be made at the Bidded rates and at the following stages of the construction:

- (i) Upon completion and approval of the trench bottom, prior to bedding: 40%
- (ii) Upon completion and approval of top of selected backfill: 70% (cumulative)
- (iii) Upon completion and approval of the mainfill: remaining 30%.

#### PSDB12.3 Excavation of Trial Holes

Excavation of trial holes as described in PSDB1.2.2 will be measured by number and shall include for backfilling after inspection.

#### PSDB12.4 Stone Bedding

Stone bedding will be measured per cubic metre under the appropriate item in SABS 1200LB. Type A bedding (crushed stone wrapped in a geotextile blanket) shall be measured per linear metre along the centreline of the trench. The provision, operation and removal of (a) de-watering pump where authorised by the Engineer will be measured as dayworks under the appropriate item in Schedule 19.

#### PSGA CONCRETE (SMALL WORKS)

#### **PSGA1 CEMENT** (Sub-Clause 3.2.1)

Only the use of Ordinary Portland Cement to SANS 471 will be permitted.

#### PSGA2 CONCRETE FINISHES (Sub-Clause 4.4.2)

Concrete against which earth will be backfilled shall be classified as rough. All exposed concrete surfaces shall be classified as smooth. Degree of accuracy II shall prevail.

#### **PSGA3** STRENGTH CONCRETE (Sub-Clause 5.4.1.5)

The grade of concrete and nominal size of aggregate shall be as specified on the Drawings. The successful Bidder will be required to submit samples of the coarse and fine aggregate, which he proposes using, to the Engineer's Representative(s) for tests regarding the suitability of such aggregates. The Contractor shall prepare trail mixes. These mixes shall be designed for vibration. All data and reports prepared by the Contractor shall be submitted to the Engineer for information and approval prior to the commencement of concreting operations.

#### PSGA4 ANCHOR AND THRUST BLOCKS

At tees, bends, terminal valves, end caps, and where otherwise directed, anchor/thrust blocks shall be constructed to dimensions ordered, shown on the Drawings or agreed to by the Engineer. Unless otherwise specified, anchor/thrust blocks and pedestals shall be constructed of prescribed mix 15/37,5 concrete.

The concrete shall be well punned round the pipe and, if in trenches, against the undisturbed faces and bottom of the trench. Backfilling behind or under thrust faces will not be permitted. Excess excavation shall be replaced with the prescribed mix concrete given above for anchor/thrust blocks at the Contractor's expense, unless an item is scheduled to cover payment of overbreak. Care shall be taken to leave the joints accessible. No anchor/thrust blocks and pedestals shall be concreted until the approval of the Engineer has been obtained.

Anchor and thrust blocks will be measured by volume of concrete; the rate Bidded shall include for any formwork required constructing the block.

Should the Contractor offer an alternative method of coupling involving flexible joints, he shall design suitable thrust and anchor blocks in order to prevent movement of the pipeline under operating and test conditions. The working and test pressure to be used by the Contractor for the calculation of anchor and thrust blocks shall be in accordance with the design information that is issued together with the BID. The earth bearing pressure to be used for the calculation of anchor and thrust blocks shall be based on field tests. The factor of safety to be used in calculating the above shall be 2.5.

#### PSGA5 GROUTING TO MACHINE AND STRUCTURAL BED PLATES (Sub-clause 5.5.13)

#### **PSGA5.1** Materials

#### (a) Water

Water for grout shall comply with the requirements given in sub-clause 3.3 of SANS 1200G.

#### (b) Aggregates

Notwithstanding the requirements of Sub-clause 3.4.1 of SANS 1200G, the grading of fine aggregate (sand) and coarse aggregate (stone or pea gravel) shall conform to the gradings given in Tables 1 and 2, respectively, below.

#### (c) Cement

Cement shall be ordinary Portland cement complying with SANS 471.

#### (d) Admixtures

Admixtures shall comply with the requirements of Sub-clause 3.5 of SANS 1200 G, and shall have a proven record of satisfactory.

#### (e) Proprietary Grouting Materials

Unless otherwise approved by the Engineer, Proprietary Grouting Materials shall be obtained ready mixed in sealed pockets as supplied by the manufacturers.

Table 1 - Sar	nd	Table 2 - Stor	e or Pea Gravel	
1	2	1	2	
Test sieve	%Passing	Test sieve	%Passing	
Nominal	(by mass)	aperture	(by mass)	
aperture		size, mm		
size, mm				
9,5	100	9,5	100	
4,75	95-100	4,74	95-100	
1,18	45-65	2,36	0,5	
0,3(300)	5-15			
0,15(150)	0,05			

<sup>\*</sup> Portland cement (ordinary, rapid-hardening, and sulphate-resisting).

#### **PSGA5.2** Preparation and Procedures

- (a) Before a machine or structural bedplate is placed on the concrete the following shall be carried out:
  - (1) All defective concrete, laitance, dirt, oil, grease and loose material shall be removed from the concrete foundation by bush-hammering, chipping, or other means until sound clean concrete is obtained. The surface of the foundation shall be scabbled, but shall not be so rough as to interfere with proper placing of the grout. All foundation bolt sleeves shall be cut out, or cut off flush if the sleeves cannot be removed. The top of the foundation shall be reshaped if necessary.
  - (2) The underside of each steel base, particularly in the bearing areas, shall be cleaned and any burrs and ragged edges removed before the base is placed in its final location.
  - (3) All holding-down bolt sleeves shall be thoroughly cleaned of any materials that may prevent the grout from flowing freely to the bottom of the bolt sockets.
- (b) The base shall be properly aligned and levelled and shall be maintained in that position during grouting.

- (c) After the machine or structural bedplate has been placed the following precautions shall be observed:
  - (1) Shimming shall be kept to a minimum. Steel plates shall be used for packing and shall be ground to the required thickness, where necessary.
  - (2) Before grouting is started all loosed dirt, oil, grease and other foreign matter on the surface of the foundation, the underside of bed plates, and in the bolt holes shall be removed by means of compressed air or other approved means. The surface of the foundation slab shall be thoroughly saturated with clean water and free water shall be removed from the surface and the boltholes just before the grout is placed.
  - (3) The grouting shall not be carried out until the alignment of all units to be grouted has been checked and approved by the Engineer.
  - (4) Special care shall be taken with grouting in hot or cold weather to ensure proper setting and gain of strength and, in the case of Proprietary Grouting Materials, by having ice or hot water available, as the case may be, in accordance with the instructions of the manufacturer. Enclosures shall be provided for the grout such that, until it has set, its temperature will be in the range 15-27°C. Shields to protect the grout from the sun and from hot winds shall be provided by the Contractor when so ordered.

#### PSGA5.3 Formwork

Formwork for grouting shall comply with the applicable requirements of Sub-clause 5.2 of SANS 1200 G. Forms shall be caulked where necessary. Adequate clearance between forms and bedplates shall be provided to enable the grout to be worked into place.

#### **PSGA4.4** Mixing (All free-flowing grouts except epoxy grouts)

The grout shall be mixed to a homogenous uniform mixture and delivered ready for placing at a temperature between 15°C and 25°C.

The materials and water shall be mixed in a mortar mixer for at least 3 min. or, in the case of small jobs only, shall be thoroughly mixed by hand, the entire mass being turned over enough times to ensure even distribution of its components.

The mixing shall be done as close as possible to the place(s) where the grout is placed. No more grout shall be mixed at any one time than can be placed in a period of 20 min. After the grout has been mixed it shall not be retempered by the addition of water.

#### **PSGA4.5** Grouting (All free-flowing grouts except epoxy grouts)

The grout shall be placed quickly and continuously to avoid the undesirable effects of over-working. (These effects are segregation, bleeding and breaking-down of initial set). The method of placement shall be subject to approval. The means of placing the grout shall be such that the grout will completely fill the space to be grouted, will be thoroughly compacted, will be free of air pockets and will have evenly distributed contact over an area in excess of 80 % or, in the case of expanding grout, 95 % of the bearing area of the item to be supported.

Wherever applicable, grout shall be placed from one side only and where this is not practicable, care shall be taken to ensure that any entrapped air is released. After the grout has taken its initial set:

- (a) the forms shall be removed;
- (b) excess grout shall be so cut away as to leave a smooth and neatly finished job;

(c) except where the grout is intended to provide resistance to side thrust, all edges shall be trimmed at 45°C to the vertical, from the bottom edge of the bed plate; and

(d) all excess grout on or about the bed plate shall be removed.

Damage to paintwork, if any shall be repaired within 24 hours. Packing plates, shims and other levelling devices shall remain in position.

#### **PSGA4.6 Dry-packed grout** (Standard dry sand and cement grout)

Dry-packed grout shall have a minimum compressive strength at 28d of 20 Mpa. The quantity of water after placing shall be kept to a minimum consistent with placing conditions, and the cement, sand and, where applicable, pea gravel proportioned by mass shall be as follows:

- (a) Where the clearance between bedplate and foundation is 25 mm or less: 1 part of Portland cement, and 2 parts of sand;
- (b) Where the clearance exceeds 25 mm: 1 part of Portland cement, 1 part of sand and 1 part of pea gravel. Dry-packed grout shall be rammed by means of tamping rods against formwork placed along three sides of the bedplate.

#### PSGA4.7 Non-shrink grout with metallic aggregate

The manufacturer instructions shall be observed when non-shrink grout with metallic aggregate is used.

Where the clearance between the bedplate and the foundation is less than 50 mm a sand-based mix shall be used. Where the clearance exceeds 50 mm the Engineer may order a mix with a base of sand plus pea gravel to be used.

#### PSGA4.8 Expanding grout with powdered aluminium additive

The manufacturer instruction shall be observed when the expanding grout powdered aluminium additive is used.

Where the clearance between the bedplate and the foundation is less than 25 mm, a sand-based mix shall be used. Where the clearance exceeds 25 mm the Engineer may order mix with a base of sand plus pea gravel to be used.

Each batch shall be mixed for at least 6 minutes after the powdered aluminium has been added. Where a ready-mixed grout is used, the powdered aluminium shall be added at the placing site and the batch mixed as specified. Grout shall be placed within 45 minutes after the addition of the powdered aluminium. The Contractor shall not use powdered aluminium additive when the ambient temperature is below 5°C.

#### **PSGA4.9 Epoxy grout** (epoxy mortar type only)

The manufacturer's instructions shall be observed when an epoxy grout is used.

#### PSHA STRUCTURAL STEEL (SMALL WORKS)

#### **PSHA1** GRADE OF STEEL (Sub-Clause 3.1.1)

Structural cold-formed steelwork to be to Grade 43A or 43B with the minimum properties as tabled in Table B-2 of SANS 10162.

Structural hot-rolled steelwork to be to Grade 300W with the minimum properties as tabled in "Steel design date: No. 6" of the South African Rolled Steel Producers Co-ordinating Council and the South African Institute of Steel Construction.

#### **PSHA2** SHOP DRAWINGS (Sub-Clause 5.1.2)

The contractor is to provide shop details.

Steelwork generally of welded construction with site connections bolted:

All holes 18 dia for M16 bolts

All gussets ex 8 mm U.O.S.

All welds, 6 mm fillet

The Engineer must be notified, (at least 72 hours before hand) of the completion of the fabricated steelwork at the contractors workshops, to enable him to make an inspection if he so desires. The fabricated steelwork, thus to be inspected shall be in its prepared specified state immediately before the application of prime coat painting.

#### **PSHA3 WELDING** (Sub-Clause 5.3.4)

Delete this clause in its entirety and add the following clause:

Welding shall be done in accordance with the relevant requirements of SANS 10162 BS5135 and AWS.D.1/18 (American Welding Society).

Welding shall be Grade B welding.

The qualification of welders shall be in accordance with the relevant clauses of the above standards, and specifically SABS 044 Part III and shall be Grade 1 welders. Grade 2 welders shall be permitted only with the Engineer's approval.

The Contractor shall provide evidence, acceptable to the Engineer, that welding procedures and welders have been tested in accordance with the requirements of AWS D1.1.

#### **PSHA4** PROTECTIVE TREATMENT (Sub-Clause 5.2.10)

#### PSHA4.1 Shop painting

#### i) Surface preparation

Steelwork shall be degreased after fabrication, using an approved degreaser immediately followed by clean fresh water rinses, to obtain a water break-free surface.

Steelwork shall be thoroughly wire brushed to Grade ST3 of Standard SIS055900-1967 and the dust removed after degreasing to leave a smooth finish free of rust, scale, grease, welding slag or any substance deleterious to the final protective coating. Rough welding shall be made smooth and all welding spatter removed.

#### ii) Primer

All welds, edges and corners shall be stripe coated with high build zinc phosphate primer (75 microns) to a dry film thickness of 60-90 microns, prior to the full coat, within 4 hours after wire brushing and allowed to dry according to the manufacturers specification before overcoating.

After the stripe coating one coat of high build zinc phosphate primer (75 microns) shall be applied by hand to provide a dry film thickness between 60 and 90 microns.

#### PSHA4.2 Painting After Erection

#### i) Surface preparation

After erection all areas where the primer coat has been damaged shall be degreased, wire brushed and touched up with the primer as specified in PSHA 2.1. Degreasing shall be carried out using a sugarsoap solution followed by clean fresh water rinses and painted immediately when the surface is dry.

#### ii) Intermediate (second) coat

An intermediate coat of a universal / general purpose alkyd undercoat shall be applied to a dry film thickness between 25 and 35 microns within the manufacturers specified overcoating time (generally 24 hours after, but within one month after application of the primer). After this time the surface shall be degreased and lightly abraded to a matt finish and the dust removed prior to painting. The surface should be clean from grease and any trace of contaminants. The colour of the undercoat shall be distinct from the colours of the primer and topcoat.

#### iii) Top Coat

One coat of recoatable polyurethane acrylic enamel shall be applied according to the manufacturers specified overcoating time (generally 24 to 96 hours after the application of the intermediate coat) to provide a dry film thickness of 25 to 30 microns. The surface should be clean from grease and any trace of contaminants. Degreasing shall be carried out using a sugarsoap solution followed by clean fresh water rinses and painted immediately when the surface is dry. When the topcoat is applied after the manufacturers maximum recommended overcoating time (generally 96 hours) for the undercoat, the surface shall be degreased and lightly abraded to a matt finish and the dust removed prior to painting.

#### PSL MEDIUM PRESSURE PIPELINES

#### PSL1 WATER SUPPLY MAINS

The pipes to be used for pressure mains are as follows:

- 1. 63 mm and larger Unplasticised Poly vinyl Chloride (uPVC), Fibre Cement (FC)
- 2. 50 mm and smaller High density Polyethylene Type IV

Couplings for uPVC pipes to be watertight and be able to withstand the relevant test pressures, unless otherwise indicated. uPVC pipe fittings shall be cast iron or aluminium.

Couplings for HDPE pipe fittings shall be compression fittings only.

#### PSL2 MARKING OF ROUTE AND POSITION

The route and position of major supply mains shall be marked on the surface by Pipeline route markers as per the Drawings.

#### PSL3 HANDLING AND RIGGING (Clause 4.1)

#### PSL3.1 Transportation

Fittings, specials and valves shall be protected during transportation and handling against damage caused by impact, dropping, etc.

#### PSL3.2 Off-loading and storage

Pipes, fittings and specials shall at no time be laid, stacked or rolled directly onto the ground but shall be supported on suitable padded cradles or other approved material near each end of the pipe, fitting or special. Particular care shall be taken where pipes with fitted couplings are handled or stacked to prevent any pressure on the couplings.

#### PSL3.3 Inspection on delivery

The Engineer's Representative will thoroughly inspect all pipes, fittings and specials delivered to the site but his acceptance of same as being in good condition shall not relieve the Contractor of any of his obligations or responsibilities under this contract. See also Clause PSA6.5 in this regard.

Materials rejected by the Engineer shall be removed from the site within 30 days and shall be replaced by other approved materials by the Contractor at his own expense.

#### PSL4 STANDARD HYDRAULIC PIPE TEST (Clause 7.3)

Field test pressures shall be 1,5 times the recommended maximum working pressure for the class of pipe and/or valves, specials and fittings being tested.

#### PSLB BEDDING (PIPES)

#### **PSLB1 BEDDING** (Sub-Clause 3.3)

#### PSLB1.2 Rigid Pipes

All steel, clay and concrete pipes shall be laid on a class C bedding as shown on Drawing LB-1 of SANS 1200LB.

#### PSLB1.3 Flexible pipes

UPVC and polyethylene pipes will be regarded as being flexible and shall be bedded as per Drawing LB-2 of SANS 1200LB.

#### PSLB2 MATERIAL NOT AVAILABLE FROM TRENCH EXCAVATION (Clause 3.4.2)

Bedding and selected fill materials shall be obtained from trench excavation, other necessary excavations or from borrow pits. The engineer reserves the right to designate alternative sources. He also reserves the right to make a ruling whether special efforts must be made to construct specifically separate bedding for pipes where the insitu material proved to be of poor quality.

#### PSLB3 CLASS A BEDDING (Sub-Clause 5.2.1)

Concrete to be used in class A bedding to pipes shall be of grade 20/19.

#### **PSLB4 CONCRETE CASING TO PIPES** (Sub-Clause 5.4)

Concrete to be used in the casing of pipes shall be of grade 20/19.

#### PSLB5 TOLERANCE ON COMPACTION OF BEDDING MATERIAL

Degree of accuracy II shall prevail.

ORTDM SCMU 30-25/26 APPOINTMENT OF A PANEL OF SERVICE PROVIDERS FOR IMPLEMENTATION OF CIVIL WORKS IN WATER SERVICES SCHEMES IN O.R. TAMBO DI	ISTRIC1
MUNICIPALITY FOR 36 MONTHS (8CE OR HIGHER) FOR EMERGENCY.	

### END OF SECTION

**SECTION 4.3** 

**PARTICULAR SPECIFICATIONS** 

#### **DAYWORK SCHEDULE**

Note: This "Daywork Schedule" Form Part of Price Schedule 19: "Dayworks"

This Daywork Schedule shall be used for the valuation of any additional or substituted work which cannot conveniently be valued at the rates and prices submitted in the Schedule of Quantities.

In respect of labour and materials used in the additional or substituted work not covered in the Daywork Schedule the Contractor shall be paid the actual cost plus the percentage allowance stated in the Appendix.

The Bidder shall quote hereunder rates which shall apply for payment purposes if the Engineer orders additional or substituted work to be carried out on a daywork basis and shall therefore be in accordance with the requirements of the General Conditions of Contract.

### 1. LABOUR AND MATERIALS

Rates and prices entered in the Schedule shall be held to allow for the gross remuneration of the labour employed and the net cost of materials actually used and shall also include the percentage allowances stated in the Appendix to Form of BID.

#### 2. PLANT AND EQUIPMENT

The Bidders shall list all major items of plant and equipment to be used on the works and which may be required for use on dayworks. The proposed hire rates for these items shall be entered against each type of machine, such rates to include for all relevant costs of plant hire inclusive of fuels and lubricants but exclusive of labour charges for the operators which will be paid for under sub-clause (1) above.

The rates for plant items not listed in the schedule will be the ruling plant hire rates, inclusive of fuels and lubricants but exclusive of labour charges for the operators, inclusive of a 7,5% handling charge. It is therefore in the Bidders interest to ensure that the list is complete.

Should there be insufficient space on the pages provided, the Bidder shall add further pages as required.

THE RATES FOR THE PLANT AND EQUIPMENT MENTIONED IN THE SCHEDULE SHALL BE FILLED IN FOR THE ITEMS REQUESTED. SHOULD AN ITEM BE OMITTED IT SHALL BE DEEMED TO HAVE BEEN INCLUDED IN THE OTHER DAYWORK RATES.

#### A. PLANT AND EQUIPMENT

ITEM	DESCRIPTION	NON WORKING	NON WORKING RATE *		OPERATING RATE	
		R	С	R	С	
	Excavator					
	Crane					
	Dozer					
	Tiptruck					
	Watercart					
	Loader					
	Flat truck					

ITEM	DESCRIPTION	NON WORKING R	ATE *	OPERATING RA	TE	PER
		R	С	R	С	
	Compressor and track rig					
	LDV					
	Compactor					
	Vibrating roller					
	Concrete mixer					
	Weldset					
	Test pump					
	Sideboom (pipelayer)					
	Grinder					
	Sewage Truck (5-15 m <sup>3</sup> )					

## B. LABOUR

DESIGNATION		RATE
Welder	per hour	
Carpenters	per hour	
Bricklayers	per hour	
Steel Fixers	per hour	
Pipe layers	per hour	
Gangers	per hour	
Plant Operators	per hour	
Truck Drivers	per hour	
Labour	per hour	

## C. TRANSPORT

DESIGNATION	RATE	
Per cubic metre kilometre		

## D. MATERIALS

DESIGNATION		RATE
Cement	per 50kg pocket delivered	
Concrete sand	per m <sup>3</sup> delivered	
Concrete Aggregate	per m <sup>3</sup> delivered	
Reinf. Steel, round,	per ton mild delivered	
	per ton high tenstile delivered	
Reinf. Steel, fabric	per ton delivered	
Bricks, stock	per 1000 delivered	
Bricks, face	per 1000 delivered	

* Only applicable on authority of the Er	ngineer	
SIGNATURE OF BIDDER	NAME OF BIDDER	DATE
COMPANY NAME		

DayworkSchedule.doc

July 2001

**SECTION 4.4** 

**SPECIFICATION DRAWINGS** 

## **SECTION 4.5**

**COMMISSIONING AND COMPLETION CERTIFICATE** 

## **COMMISSIONING AND COMPLETION CERTIFICATE**

CONTRACTOR:			DATE	DATE			
ORTE	OM ORDER NO						
ORT	TDM BID NO.	(Equip)	SK-8/3/1-38/2015/16 (Civil)	(M/E)			
Note:	Mark with a X where	applicable.					
	Purification Plant	Borehole	Booster Pump	Sewerage Works			
	Pipe Work	Valves	Diesel Engines	Electrical			
Α.	Report to Dept Head	<u>d</u> :					
	Name:		Signature:				
	Office Name:		Date Visited:				
B.	Report to Satellite C	office:					
	Name:		Signature:				
	Office Name		Date Visited:				

### 1. DETAIL:

1.1	Area Name:	Village Name:	
1.2	Water Source No. H	Alternative	No.
1.3	Maintenance No. W	Serial	No.
1.4	Engine/Motor Type & Model and kW	Engine/Motor Type & Model and kW	
1.5	Pump Type:	_ Pump Model	Name:
1.6	Pump Type:	_ Pump Model	Name:
1.7	Recommended Yield (I/s):	Commissioning Yield (l/s):	
1.8	Recommended Pumping Time (hrs/day):	Rising main (pipe) pressure	(kPa/Bar):
1.9	Pump/motor alignment	_ Pump/motor vibration	test
1.10			

2.	COMMISSIONING DONE BY: ORTDM							
	Name	Signature	Date	Contact Number	Fax	Cell No.		

3.	FAULT LIST
3.1	
3.2	
3.3	

4.	QUALITY ASSURANCE INSPECTION						
	Date inspected Inspectors name Signature Telephone number Cell No.						
4.1							

5.	CONTRACTOR						
	Contractor	Name	Signature	Date	Contact Number		
5.1							

<sup>\*</sup>Note: Commissioning form: Attached and submitted with the original invoice for payment

#### **SECTION 2: PRICING SCHEDULE**

#### **Pricing instructions:**

- (i) The bidder's price offer shall be valid for 90 days from the closing date of this tender, or for such extended period as may be requested by the municipality and accepted by the bidder.
- (ii) The rates and prices submitted by the bidder must be entered into the pricing schedule above.
- (iii) No deviations from the pricing schedule will be permitted, except where indicated separately in the Schedule of Variations from Goods and Services.
- (iv) The bid price must be inclusive of VAT, where the bidder is a registered VAT vendor.
- (v) VAT must be calculated at 15% in line with statutory amendments to the VAT rate.
- (vi) The prices will be escalated as per CPI index.
- (vii) Should there be a discrepancy between the total bid amount in the pricing schedule, and that in the form of offer; the price in the form of offer will take precedence. Where there is a discrepancy between the amount in figures and the amount in words, the amount in words will govern.

### **Negotiations with successful bidders**

- Where the bid price submitted by a bidder is not market related, the municipality may not award the contract to that bidder, but may negotiate a market related price.
- If a market related price cannot be negotiated with the bidder scoring the highest points, a market related price may be negotiated with the bidder scoring the second highest points, or the negotiation team may opt to cancel the tender.
- If a market related price cannot be reached with the bidder scoring the second highest points, a
  market related price may be negotiated with the bidder scoring the third highest points, or the
  negotiation team may opt to cancel the tender.
- If a market related price cannot be reached with the bidder scoring the third highest points, the tender must be cancelled.

Name of bidder	Signature
Bidder's stamp	Date

# **SECTION 1**

**PRICING SCHEDULES** 

#### **INDEX - PRICE SCHEDULES**

SCHEDULE: 1 GENERAL (RATE ONLY)

SCHEDULE: 2 SMALL DIAMETER WATER SUPPLY PIPELINES

SCHEDULE: 3 ROADS TO WATER WORKS

SCHEDULE: 4 SEWER WORKS

SCHEDULE: 1 FILTER DRAINS: REPLACEMENT OF FILTER MEDIA

SCHEDULE: 6 HANDRAILING

SCHEDULE: 7 SEPTIC TANKS

SCHEDULE: 8 CIRCULAR CONCRETE RESERVOIR

SCHEDULE: 9 GABIONS AND PITCHING

SCHEDULE: 1 SEGMENTED BLOCK PAVING & KERBING

SCHEDULE: 11 SECURITY FENCING

SCHEDULE: 12 PUMPHOUSE INSTALLATION FOR BOREHOLES

SCHEDULE: PVC STORAGE TANK ON FLOOR, 3 METRE HIGH TANK STAND

AND 6 METRE HIGH TANK STAND

SCHEDULE: DAYWORKS (RATE ONLY) Refer to "Dayworks Schedule" section

4.3: Particular specification

SUB SCHEDULE: 1 PALISADE FENCING

## SCHEDULE 1 : GENERAL (As and when scope is allocated)

Schedule 1:

Item	Description	Unit	Qty	Rate	Amount
1.1	SUMS STATED PROVISIONALLY BY THE				
	ENGINEER				
	Provisional Sums				
1.1.1	For work to be executed (upon specific instruction				
	of the Engineer) by the Contractor and valued in				
	terms of the 'valuation of variations' clause in the				
	conditions of contract (As and when scope is allocated)	sum	N/A	N/A	N/A
1.1.2	For work to be executed by a Nominated Sub-				
	Contractor	sum	N/A	N/A	N/A
1.1.3	Overheads, charges and profit on item 1.1.2	sum	N/A	N/A	N/A
1.1.4	For work to be executed by a Nominated Emerg-				
	ing Sub-Contractor which is to be employed under				
	this programme	sum	N/A	N/A	N/A
1.1.1	Overheads, charges and profit on item 1.1.4 for assisting, training, co-ordinating and supervision				
	of a Nominated Emerging Sub-Contractor which				
	is to be employed under this programme	sum	N/A	N/A	N/A
1.1.6	For work to be executed by a nominated Engineer	sum	N/A	N/A	N/A
1.1.7	Overheads, charges and profit on item 1.1.6	sum	N/A	N/A	N/A
1.1.8	Payment to Eskom in respect of electrical connection fees-	sum	N/A	N/A	N/A

Item	Description	Unit	Qty	Rate	Amount		
1.1.9	Overheads, charges and profit on item 1.1.6	sum	N/A	N/A	N/A		
1.1.9	Overheads, charges and profit of item 1.1.0	Sulli	IV/A	IN/A	IV/A		
1.2	PRIME COST ITEMS						
1.2.1	Prime cost of goods or materials to be supplied to						
	the site of the Works upon specific instruction of	sum	N/A	N/A	N/A		
	the Engineer	sum	N/A	N/A	N/A		
1.2.2	Overheads, charges and profit on item 1.2.1	sum	N/A	N/A	N/A		
1.2.3	Specialist Contractors	sum	N/A	N/A	N/A		
1.2.4	Overheads, charges and profit on item 1.2.3	sum	N/A	N/A	N/A		
	TOTAL SCHEDULE 1 CARRIED FORWARD TO SUMMARY R						

## SCHEDULE 2 : SMALL DIAMETER CLEARWATER SUPPLY PIPELINES

Schedule 3

Item No.	Description	Unit	Qty	Rate	Amount
3.	SMALL DIAMETER CLEARWATER SUPPLY PIPELINES				
3.1	EARTHWORKS (Pipe trenches)				
3.1.1	SITE CLEARANCE				
	(a) Clear vegetation and trees of girth up to 1 m	m²	1	R	R
	(b) Clear trees of girth over 1 m	no	1	R	R
	(c) Remove topsoil (11 mm depth)	m²	1	R	R
3.1.2	EXCAVATION				
3.1.2.1	Excavation in all materials for trenches for 1 mm nominal diameter pipes and smaller. Rates include backfill, compact and disposal of surplus and unsuitable material.				
	(a) Up to 1,1 m deep	m	1	R	R
	(b) Over 1,1 m up to 2,1 m deep (Provisional)	m	1	R	R
3.1.2.2	Extra-over item for 3.1.2.1				
	(a) Intermediate excavation (Prov.)	m <sup>3</sup>	1	R	R
	(b) Hard rock excavation (Prov.)	m³	1	R	R
3.1.2.3	Excavate and disposal of unsuitable material from trench bottom (Prov.)	m <sup>3</sup>	1	R	R
3.1.2.4	Import backfill material from designated borrow pits (Prov.)	m³	1	R	R
3.1.2.5	Opening up and closing down of designated borrow pit	ha	1	R	R

Item No.	Description	Unit	Qty	Rate	Amount
3.1.2.6	Compaction in road reserve	m³	1	R	R
3.1.2.7	Overhaul				
	(a) Limited overhaul (0,1 to 1,0 km) (Prov.)	m <sup>3</sup>	1	R	R
	(b) Long overhaul (Prov.)	m³/km	1	R	R
3.1.2.8	Shore trench opposite structure or service	m	1	R	R
3.1.2.9	Existing services that intersect or adjoin a pipe trench				
	(a) Services that intersect a trench	no	1	R	R
	(b) Services that adjoin a trench	m	1	R	R
3.1.2.1	Reinstate road surfaces complete with all courses				
	(a) Gravel on shoulders	m <sup>2</sup>	1	R	R
	(b) Asphalt of thickness 40 mm in parking area	m²	1	R	R
	(c) Asphalt of thickness 40 mm in roadway	m²	1	R	R
3.2	BEDDING (pipes)				
3.2.1	Supply only of bedding by importation				
3.2.2.1	From other necessary excavations (Prov.)				
	(a) Selected granular material	m <sup>3</sup>	1	R	R
	(b) Selected fill material	m <sup>3</sup>	1	R	R
3.2.2.2	From borrow pits (Prov.)				
	(a) Selected granular material	m <sup>3</sup>	1	R	R
	(b) Selected fill material	m <sup>3</sup>	1	R	R
				_	
	SUBTOT	AL CARRIED I		R	
		R			

Item No.	Description	Unit	Qty	Rate	Amount
3.2.2.3	From commercial sources (Prov.)				
	(a) Selected granular material	m <sup>3</sup>	1	R	R
	(b) Selected fill material	m <sup>3</sup>	1	R	R
3.2.3	Concrete bedding cradle class 1/19	m <sup>3</sup>	1	R	R
3.2.4	Encasing of pipes in concrete class 1/19	m³	1	R	R
3.2.1	Overhaul of material for bedding cradle and selected fill blanket (Prov.)	m³/km	1	R	R
3.3	MEDIUM PRESSURE PIPELINES				
3.3.1	uPVC Pressure Pipes				
3.3.1.1	Supply, lay, bed and test the following uPVC pressure pipes (conforming with SABS 946 Part 1 specifications) in 6m lengths, each pipe fitted at one end with socket for Mechanical jointing, in the following diameters:				
	(a) 500 mm dia class 16	m	1	R	R
	(b) 500 mm dia class 12	m	1	R	R
	© 400 mm dia Class 16	m	1	R	R
	(d) 400 mm dia Class 12	m	1	R	R
	(e) 350 mm dia Class 16	m	1	R	R
	(f) 350 mm dia Class 12	m	1	R	R
	(g) 300 mm dia Class 16	m	1	R	R
	(j) 300 mm dia Class 12	m	1	R	R
	(k) 200 mm dia Class 12	m	1	R	R
	(I) 200 mm dia Class 12	m	1	R	R
	(m) 160 mm dia Class 16	m	1	R	R
	(n) 160 mm dia Class 12	m	1	R	R
	(o) 110 mm dia Class 12	m	1	R	R
	(p) 110 mm dia Class 16	m	1	R	R
	(q) 90 mm dia Class 12	m	1	R	R
	(r) 90 mm dia Class 16	m	1	R	R
	(s) 75 mm dia Class 16	m	1	R	R
	(t) 75 mm dia Class 12	m	1	R	R
	(u) 63 mm dia Class 16	m	1	R	R

(v) (w) (x) (y) (z) (aa (ab (ac) (ac)	1) 50 mm dia Class 12 50 mm dia Class 16 40 mm dia Class 16 40 mm dia Class 12 12 13 mm dia Class 16 15 32 mm dia Class 16 16 32 mm dia Class 16		1 1 1 1 1	R R R R R	R R R R
(x) (y) (z) (aa (ab (ac)	<ul> <li>50 mm dia Class 16</li> <li>40 mm dia Class 16</li> <li>40 mm dia Class 12</li> <li>32 mm dia Class 16</li> <li>32 mm dia Class 16</li> </ul>	m m m	1 1 1	R R R	R R R
(y) (z) (aa (ab (ac	<ul> <li>40 mm dia Class 16</li> <li>40 mm dia Class 12</li> <li>32 mm dia Class 16</li> <li>32 mm dia Class 16</li> </ul>	m m m	1	R R	R R
(z) (aa (ab (ac	<ul> <li>40 mm dia Class 12</li> <li>32 mm dia Class 16</li> <li>32 mm dia Class 16</li> </ul>	m m	1	R	R
(aa (ab (ac	a) 32 mm dia Class 16 b) 32 mm dia Class 16	m			
(ab	b) 32 mm dia Class 16		1	R	
(ac		m			R
(ac	c) 25 mm dia Class 12		1	R	R
		m	1	R	R
0.040	d) 25 mm dia Class 16	m	1	R	R
	extra-over item 3.3.1 for the supply, laying and bedding of pecials complete with couplings.	no	1	R	R
No (me	ote: Fittings to be suitable for coupling directly nechanically) onto pipes. Each fitting socketed for echanical jointing. Fitting for PVC class 16; or cast iron repoxy-painted steel.				
SU	UBTOTAL CARRIED FORWARD			R	
BR	ROUGHT FORWARD			R	

Item No.	Description	Unit	Qty	Rate	Amount
3.3.3	HDPe PIPES				
3.3.3.1	Supply, lay, bed and test the following HDPe type IV pipes (conforming to SABS 133 - Part 2: 1982 amended 1994), in the following diameters and class.				
	(c) 71 DN Class 1	m	1	R	R
	(d) 63 DN Class 16	m	1	R	R
	(e) 63 DN Class 12	m	1	R	R
	(f) 63 DN Class 1	m	1	R	R
	(g) 1 DN Class 16	m	1	R	R
	(h) 1 DN Class 12	m	1	R	R
	(i) 1 DN Class 1	m	1	R	R
	(j) 40 DN Class 16	m	1	R	R
	(k) 40 DN Class 12	m	1	R	R
	(I) 40 DN Class 1	m	1	R	R
	(m) 32 DN Class 16	m	1	R	R
	(n) 32 DN Class 12	m	1	R	R
	(o) 32 DN Class 1	m	1	R	R
	(p) 21 DN Class 16	m	1	R	R
	(q) 21 DN Class 12	m	1	R	R
	(r) 21 DN Class 1	m	1	R	R
	(s) 1 DN Class 16	m	1	R	R
	(t) 1 DN Class 12	m	1	R	R
	(u) 1 DN Class 1	m	1	R	R
3.3.3.2	Extra-over item 3.3.3.1 for supply, laying and bedding of compression fittings for use with HDPe Type IV pipes.				
3.3.3.2.1	Coupling	no	1	R	R

Item No.	Description	Unit	Qty	Rate	Amount
3.4	VALVES - Supply				
3.4.1	Gate valves				
	Gate valves, waterworks pattern in compliance with SABS 664, flanged, drilled to SABS 1123 table 1600/3, with resilient, rubberised metal gate, cap top, plan thrust collar, non-rising spindle, clockwise closing.				
	(a) 1 DN	no	1	R	R
	(b) 21 DN	no	1	R	R
	(c) 1 DN	no	1	R	R
	(d) 11 DN	no	1	R	R
	(e) 1 DN	no	1	R	R
	(f) 80 DN	no	1	R	R
	(g) 61 DN	no	1	R	R
	(h) 1 DN	no	1	R	R
3.4.2	Single orifice air valve (21 DN) installation, complete with chamber, but excluding the in-line tee-piece	no	1	R	R
3.4.3	Double purpose air valve (1 DN) installation, complete, with chamber but excluding the in-line-tee-piece	no	1	R	R
3.4.4	Single standpipe installation, complete with in-situ constructed concrete trough but excluding the mainline saddle.	no	1	R	R
3.4.1	Double standpipe installation, complete with in-situ constructed concrete trough, but excluding the mainline saddle	no	1	R	R
3.4.6	Domestic draw-off with double outlet, complete with in-situ constructed concrete trough but excluding the mainline saddle.	no	1	R	R
	SUBTOTA	AL CARRIED I	FORWARD	R	

tem No.	Description	Unit	Qty	Rate	Amount
		BROUGHT FORWARD		R	
3.1	ANCHOR/THRUST BLOCKS AND PEDESTALS				
3.1.1	Concrete thrust block in the following sizes:				
	(a) Concrete volume < 0,4 m <sup>3</sup>	no	1	R	R
	(b) Concrete volume 0,4 to 0,19 m <sup>3</sup>	no	1	R	R
	(c) Concrete volume 0,6 to 0,79 m <sup>3</sup>	no	1	R	R
	(d) Concrete volume 0,8 to 0,99 m <sup>3</sup>	no	1	R	R
	(e) Concrete volume 1,0 to 1,19 m <sup>3</sup>	no	1	R	R
	(f) Concrete volume 1,2 to 1,39 m <sup>3</sup>	no	1	R	R
	(g) Concrete volume 1,4 to 1,6 m <sup>3</sup>	no	1	R	R
3.1.2	Pipeline marker	no	1	R	R
3.6	SPECIAL WRAPPING				
	Wrapping of buried steel pipelines and connections with petrolatum mastic and impregnated tape in an over-the-trench operation, for the following pipe diameters:				
	(a) 1 DN	m	1	R	R
	(b) 21 DN	m	1	R	R
	(c) 1 DN	m	1	R	R
	(d) 11 DN	m	1	R	R
	(e) 1 DN	m	1	R	R
	(f) 80 DN	m	1	R	R
	(g) 61 DN	m	1	R	R
	(h) 1 DN	m	1	R	R

Desci	ription	Unit	Qty	Rate	Amount
MAR	K-UP RATES				
(a)	Percentage mark-up on rates listed on term contracts.	%	1	%	
(b)	Percentage mark-up on items approved by the client or his representative with attached invoices for material used.	%	1	%	
Tip tru	ucks				
(a)	6 m <sup>3</sup>	h	1	R	R
(b)	1 m <sup>3</sup>	h	1	R	R
Flat b	ed trucks				
(a)	1t	km	1	R	R
(b)	7t	km	1	R	R
LDV					
(a)	2 x 4WD	km	1	R	R
(b)	4 x 4WD	km	1	R	R
	TOTAL FOR SCHEDULE 3 CARRIED TO SUMM	ARY		R	
	(a) (b)  Tip tru (a) (b)  Flat b (a) (b)  LDV (a)	contracts.  (b) Percentage mark-up on items approved by the client or his representative with attached invoices for material used.  Tip trucks  (a) 6 m³  (b) 1 m³  Flat bed trucks  (a) 1t  (b) 7t  LDV  (a) 2 x 4WD  (b) 4 x 4WD	(a) Percentage mark-up on rates listed on term contracts.  (b) Percentage mark-up on items approved by the client or his representative with attached invoices for material used.  Tip trucks  (a) 6 m³  (b) 1 m³  h  Flat bed trucks  (a) 1t  (b) 7t  km	MARK-UP RATES  (a) Percentage mark-up on rates listed on term contracts.  (b) Percentage mark-up on items approved by the client or his representative with attached invoices for material used.  Tip trucks  (a) 6 m³  (b) 1 m³  h 1  Flat bed trucks  (a) 1t  (b) 7t  km 1  LDV  (a) 2 x 4WD  (b) 4 x 4WD  km 1	MARK-UP RATES  (a) Percentage mark-up on rates listed on term contracts.  (b) Percentage mark-up on items approved by the client or his representative with attached invoices for material used.  Tip trucks  (a) 6 m³ h 1 R  (b) 1 m³ h 1 R  Flat bed trucks  (a) 1t km 1 R  LDV  (a) 2 x 4WD km 1 R  km 1 R  km 1 R

## SCHEDULE 3 : ROADS TO PURIFICATION WORKS

Schedule 3

Item No	Description	Unit	Qty	Rate	Amount
7.	ROADS TO PURIFICATION WORKS AND THE SUPPLY OF ALL MATERIAL  Note: Haulage up to 0.1km is considered free-haul.				
7.1	SITE CLEARANCE				
7.1.1	Clear and Grub	ha	1	R	R
7.1.2	Remove and grub large trees and stumps of girth:				
	a) over 1m and up to and including 2m	no	1	R	R
	b) over 2m and up to and including 3m	no	1	R	R
7.1.3	Reclear surfaces (only on instructions from the Engineer)	ha	1	R	R
7.1.4	Take down existing fences  a) Stockproof fence	km	1	R	R
	b) Security fence	km	1	R	R
7.1.1	Transport materials and debris to unspecified sites and dump.	m³.km	1	R	R
7.1.6	Remove topsoil to nominal depth of 11mm and stockpile.	m³	1	R	R

Item No		Description	Unit	Qty	Rate	Amount
7.2	BULK	EARTHWORKS				
		<u> </u>				
7.2.1	Bulk Ex	xcavation				
	a)	Excavate in all materials and use for				
		embankment or backfill compacted to 90%				
		modified AASHTO density or dispose, as				
		ordered.	m³	1	R	R
	b)	Extra-over item 7.2.1 for :				
	<i>D)</i>	i) Intermediate excavation	m³	1	R	R
		i) intermediate excavation	111-	'		
		ii) Hard rock excavation	m³	1	R	R
		iii) Boulder excavation, Class A	m³	1	R	R
		iv) Boulder excavation, Class B	m³	1	R	R
7.2.2	<u>Importi</u>	ng of Materials				
	a)	Extra-over for importation of materials from				
		borrow pits.	m³	1	R	R
	b)	Opening up and closing down of designated				
		borrow pit (1ha)	sum	-	R	R
	c)	Dealing with overburden	m³	1	R	R
		SUBTOTAL CARRIED FORWARD			R	1

Item No	Description	Unit	Qty	Rate	Amount
	BROUGHT FORWARD				R
7.2.3	<u>Overhaul</u>				
	a) Limited overhaul	m³	1	R	R
	b) Long overhaul	m³.km	1	R	R
	by Long overnaul	III .KIII	'		
7.2.4	<u>Shaping</u>				
	Shape and compact to 90% modified AASHTO				
	density, existing 6m wide roads, complete with				
	side drains.	km	1	R	R
7.2.1	Mitre Drains				
	Construct mitre drains, each 1m long and 4m				
	wide	no	1	R	R
7.3	EARTHWORKS (Roads, Subgrade)				
7.3.1	Preparation of Site				
	a) Stripping and removal of topsoil to 11mm				
	depth, stockpiling and maintaining	m³	1	R	R
	b) Strip and remove 11mm layer, haul and				
	spread topsoil in borrow pits.	m³	1	R	R
7.3.2	Treatment of Roadbed				
	a) Road-bed preparation and compaction of				
	material to :				
	i) min of 90% MOD AASHTO density to a				
	depth of 11mm	m³	1	R	R

Item No		Description	Unit	Qty	Rate	Amount
		ii) min. of 93% MOD AASHTO density to a depth of 11mm	m³	1	R	R
		iii) min. of 91% MOD AASHTO density to a depth of 11mm	m³	1	R	R
	b)	In-place treatment of road-bed in intermediate or hard rock material by :				
		i) Ripping	m³	1	R	R
		ii) Blasting	m³	1	R	R
7.3.3	Cut to	<u>Fill</u>				
	a)	Cut to fill and compact to 90% of MOD				
		AASHTO density	m³	1	R	R
	b)	Cut to fill and compact to 93% of MOD				
		AASHTO density	m³	1	R	R
7.3.4	Borrow	<u>r to Fill</u>				
	a)	Borrow to fill and compact to 90% of MOD				
	b)	AASHTO density.	m³	1	R	R
	) 	Borrow to fill and compact to 93% of MOD  AASHTO density	m³	1	R	R
	c)	Borrow to fill and compact to 91% of MOD				.`
		AASHTO density	m³	1	R	R
		SUBTOTAL CARRIED FORWARD				R

Item No		Description	Unit	Qty	Rate	Amount
		BROUGHT FORWARD				R
7.3.1	Select	ed Layer				
	a)	Selected layer compacted to 93% of MOD				
		AASHTO density	m³	1	R	R
	b)	Selected gravel wearing course compacted				
		to 91% of MOD AASHTO density.	m³	1	R	R
7.3.6	Excava	ating and Breaking Down Material				
	Extra	over items 7.3.3, 7.3.4 and 7.3.1 for				
	excava	ating and breaking down material in :				
	a)	intermediate excavation	m³	1	R	R
	b)	Hard excavation	m³	1	R	R
	c)	Boulder excavation Class A	m³	1	R	R
	d)	Boulder excavation Class B	m³	1	R	R
7.3.7	Cut to	Spoil or Stockpile From :				
	a)	Soft excavation	m³	1	R	R
	b)	Intermediate excavation	m³	1	R	R
	c)	Hard excavation	m³	1	R	R
	d)	Boulder excavation Class A	m³	1	R	R
	e)	Boulder excavation Class B	m³	1	R	R

Item No	Description	Unit	Qty	Rate	Amount
7.3.8	Removal of Oversize Material	m³	1	R	R
7.3.9	Overbreak of Excavation in :				
	a) Intermediate excavation	m³	1	R	R
	b) Hard excavation	m³	1	R	R
	c) Boulder excavation Class A	m³	1	R	R
	d) Boulder excavation Class B	m³	1	R	R
7.3.1	Materials Bladed to Window	m³	1	R	R
7.3.11	<u>Stockpile</u>				
	Extra over items 7.3.1, 7.3.3, 7.3.4 or 7.3.1 for				
	temporary stockpiling of material	m³	1	R	R
7.3.12	<u>Overhaul</u>				
	Extra over items 7.3.1, 7.3.3, 7.3.4, 7.3.1, 7.3.7,				
	7.3.8 or 7.3.11 for haulage beyond the 0.1km				
	freehaul distance.	m³.km	1	R	R
7.3.13	Surface Finishes				
	a) Topsoiling	m²	1	R	R
7.3.14	Mounds, Channels and Mitre Banks				
	Construct catchwater mounds, channels and				
	mitre banks.	m³	1	R	R
					R
	SUBTOTAL CARRIED FORWARD				

Item No		Description	Unit	Qty	Rate	Amount
		BROUGHT FORWARD				R
7.3.11	Chemic	cal stabilization extra over unstabilized				
	compa	cted layers :				
	a)	Gravel sub-base course (11mm thick)	m³	1	R	R
	b)	Gravel base course (11mm thick)	m³	1	R	R
7.3.16	Chemic	cal Stabilizing Agent :				
	a)	Ordinary Portland Cement	t	1	R	R
	b)	Portland blast furnace cement	t	1	R	R
7.3.17	Provisi	on and application of water for curing	kl	1	R	R
7.4	DRAIN	<u>IS</u>				
7.4.1	Excava	ation for Open Drains				
	a)	Excavate in soft material in the depth range				
		0 m up to 1.1m below surface level	m³	1	R	R
	b)	Extra-over sub-item 7.4.1a) for excavation in:				
		i) Intermediate material	m³	1	R	R
		ii) Hard rock	m³	1	R	R
7.4.2	Excava	ation for Subsoil Drainage Systems				
	a)	Excavate in soft material within the following				
		depth ranges below surface level :				
		i) 0m up to 1.1m	m³	1	R	R

Item No	Description	Unit	Qty	Rate	Amount
	ii) Exceeding 1.1m and up to 2.1m	m³	1	R	R
	iii) Exceeding 2.1m and up to 3.1m	m³	1	R	R
	b) Extra-over sub-item 7.4.2 (a) for excavation in:				
	i) Intermediate material	m³	1	R	R
	ii) Hard rock	m³	1	R	R
7.4.3	Permeable material in subsoil drainage systems :				
	a) Coarse grade sand from approved natural				
	sources	m³	1	R	R
	b) Course aggregate				
	i) 19mm	m³	1	R	R
	ii) 40mm	m³	1	R	R
7.4.4	Synthetic fibre filter fabric, needle punched				
	(231 g / m²)	m²	1	R	R
7.1	CONCRETE CULVERTS				
7.1.1	<u>Earthworks</u>				
	Restricted Excavation				
	a) Excavate for designated culverts in all				
	materials and use for fill material in depths				
	0 - 3m	m³	1	R	R
	b) Extra-over item 7.1.1 b) for excavation in :				
	i) intermediate material	m³	1	R	R
	ii) hard rock	m³	1	R	R
	SUBTOTAL CARRIED FORWARD				R

Item No	Description	Unit	Qty	Rate	Amount
	BROUGHT FORWARD				R
7.6	STORMWATER DRAINAGE				
7.6.1	Supply and lay concrete pipe culverts on Class C				
	bedding COO HE 4D		4	D	5
	a) 600 dia 1D	m	1	R	R
	b) 900 dia 1D	m	1	R	R
	c) 1 01 dia 1D	m	1	R	R
7.6.2	Supply and lay portal culverts of dimensions				
	900 x 41 mm, ribbed arch, Class C	m	1	R	R
7.6.3	Concrete floor to End-Structure				
	i) Rough vertical plane	m²	1	R	R
	ii) High-tensile welded mesh ref 391	m²	1	R	R
	iii) High-tensile steel bars	t	1	R	R
	iv) Strength concrete class 21/19	m³	1	R	R
7.6.4	Brickwork in end-Structure				
	Brickwork type NFX in the following wall thicknesses:	I			
	i) 21mm	m²	1	R	R
	ii) 341mm	m²	1	R	R
7.7	MARK-UP RATES				
7.7.1	Percentage mark-up on rates listed on term contracts	%	1	%	
7.7.2	Percentage mark-up on items (with attached invoices)				
	approved by the Employer or his representative				
	for materials, (other than those set out in this list) used				
	in execution of work ordered by the Employer	%	1	%	

Item No	Description	Unit	Qty	Rate	Amount
.8	Tip trucks				
	(a) 6 m <sup>3</sup>	h	1	R	R
	(b) 1 m <sup>3</sup>	h	1	R	R
0	Elek had kusaka				
.9	Flat bed trucks				
	(a) 1t	km	1	R	R
	(b) 7t	km	1	R	R
.1	LDV				
	(a) 2 x 4WD	km	1	R	R
	(b) 4 x 4WD	km	1	R	R
	SUBTOTAL			F	8
	TOTAL SCHEDULE 3 CARRIED FORWARD TO SUN	F	2		
					1

## **SCHEDULE 4: SEWER WORKS**

Schedule 4

Item No.	Description	Unit	Qty	Rate	Amount
8.	SEWERS AND THE SUPPLY OF ALL MATERIAL				
8.1.1	PIPELINE ROUTE CLEARANCE				
8.1.1.1	a) Clear vegetation and trees of girth up to 1m	m	1	R	R
	b) Clear trees of girth over 1m up to 2m	no	1	R	R
8.1.2	EXCAVATION				
8.1.2.1	Excavation in all materials for trenches for 1 to				
	1mm DN sewer pipes, including for backfilling,				
	compaction and disposal of surplus or unsuitable				
	material, to the following depths :				
	a) up to 1,0m	m	1	R	R
	b) over 1,0m up to 2,0m	m	1	R	R
	c) over 2,0m up to 3,0m	m	1	R	R
	d) over 3,0m up to 4,0m	m	1	R	R
8.1.2.2	Extra-over item 8.1.2.1 for:				
	a) Intermediate excavation	m <sup>3</sup>	1	R	R
	b) Hard rock excavation	m <sup>3</sup>	1	R	R
		l		L	L

Item No.	Description	Unit	Qty	Rate	Amount
8.1.2.3	Excavate unsuitable material from trench bottom and				
	disposal thereof	m³	1	R	R
8.1.2.4	Imported backfill materials from designated borrow pits	m³	1	R	R
8.1.2.1	Opening and closing down of borrow pits of 1ha size	sum	-		
8.1.2.6.	Compaction in road reserves	m³	1	R	R
8.1.2.7	<u>Overhaul</u>				
	a) Short haul: over 0,1km up to 1,0km	m <sup>3</sup>	1	R	R
	b) Truck haul: over 1km	m³.km	1	R	R
8.1.2.8	Reinstate road surfaces				
	Asphalt surfacing of 40mm thickness in road crossing	m²	1	R	R
8.1.2.9	Existing services that:				
	i) intersect a trench	no	1	R	R
	ii) adjoin a trench	m	1	R	R
8.1.3	PIPE BEDDING				
8.1.3.1	Provision of selected granular material for bedding				
	cradle class C, obtained from:				
	a) trench excavation	m <sup>3</sup>	1	R	R
	b) borrow pits	m³	1	R	R
	SUBTOTAL CARRIED FORWARD				R

Item No.	Description	Unit	Qty	Rate	Amount
	BROUGHT FORWARD				R
8.1.3.2	Provision of selected fill material for blanket obtained				
	from:				
	a) trench excavation	$m^3$	1	R	R
	b) borrow pits	$m^3$	1	R	R
8.1.3.3	Overhaul of imported material for bedding cradle and				
	selected fill blanket	m³/.km	1	R	R
8.1.4	PIPE LAYING				
8.1.4.1	Supply, lay, joint and test maincore multi-layer Heavy duty 300 Kpa sewer and drain pipes class 34 on Class C bedding 110mm	m	1	R	R
8.1.4.2	Supply, lay, joint and test maincore multi-layer Heavy duty 300 Kpa sewer and drain pipes class 34 on Class C bedding 160mm	m	1	R	R
8.1.4.3	Supply, lay, joint and test maincore multi-layer Heavy duty 200 Kpa sewer and drain pipes class 34 on Class C bedding 250mm	m	1	R	R
8.1.4.4	Supply, lay, joint and test maincore multi-layer Heavy duty 300 Kpa sewer and drain pipes class 34 on Class C bedding 250 mm	m	1	R	R
8.1.4.5	Supply, lay, joint and test maincore multi-layer Heavy duty 300 Kpa sewer and drain pipes class 34 on Class C bedding 315 mm	m	1	R	R
8.1.4.6	Supply, lay, joint and test maincore multi-layer Heavy duty 300 Kpa sewer and drain pipes class 34 on Class C bedding 355 mm	m	1	R	R
8.1.4.7	Supply, lay, joint and test maincore multi-layer Heavy duty 300 Kpa sewer and drain pipes class 34 on Class C bedding 400 mm	m	1	R	R
8.1.4.8	Supply, lay, joint and test maincore multi-layer Heavy duty 300 Kpa sewer and drain pipes class 34 on Class C bedding 500mm	m	1	R	R
8.1.4.1	Extra-over items 8.1.4.1 to 8.1.4.4 for:				
	Cutting and trimming pipes to form closure pieces at				
	manholes in accordance with manufacturer's specifica				
	tions:				
	a) 1mm dia	no	1	R	R

Item No.	Description	Unit	Qty	Rate	Amount
	b) 11mm dia	no	1	R	R
	c) 1 mm dia	no	1	R	R
	d) 21 mm dia	no	1	R	R
8.1.1	<u>MANHOLES</u>				
8.1.1.1	Construction of 1mm dia precast manholes including				
	concrete blinding layer, inlet and outlet pipes, junctions,				
	tapers, channel sections in floor slab and step irons.				
	(Manhole covers, spacer rings, benching & channel-				
	ling measured separately). For depths (measured				
	from top of cover slab to bottom of base) up to but				
	not exceeding:				
	a) 1,1m	no	1	R	R
	b) 2,0m	no	1	R	R
	c) 2,1m	no	1	R	R
	d) 3,0m	no	1	R	R
	e) 3,1m	no	1	R	R
8.1.1.2	Extra-over item 8.1.1.1 for benching and forming channel-				
	ling in floors of manholes (using standard channels				
	in concrete) including steel float finishing (per each				
	complete manhole)				
	a) 1mm dia manholes	no	1	R	R
	SUBTOTAL CARRIED FORWARD				R

Item No.	Description	Unit	Qty	Rate	Amount
	BROUGHT FORWARD				R
8.1.1.3	Supply and install precast concrete spacer rings	no	1	R	R
8.1.1.4	Supply and installation of concrete reducer slab and				
	concrete encased cast iron manhole cover and frame,				
	including two final coats of bituminous paint on comple-				
	tion.				
	a) With manhole cover and frame to SABS 118-1973				
	Type 4	no	1	R	R
	b) With manhole cover and frame to SABS 1294-				
	1973 Type 2A	no	1	R	R
8.1.1.1	Supply and installation of precast concrete cover slab				
	with steel banded concrete lid according to SABS				
	1123-1981	no	1	R	R
8.1.1.6	Construction and testing of 1mm dia rodding eye				
	all to depths not exceeding 2,0m	no	1	R	R
8.2	OXIDATION PONDS				
8.2.1	SITE CLEARANCE				
8.2.2.1	Clear and strip new oxidation pond site	ha	1	R	R
8.2.2	BULK EXCAVATION				
8.2.2.1	a) Excavate in all materials and				
	i) use in embankment fill compacted to 93%				

Item No.	Description	Unit	Qty	Rate	Amount
	of MOD AASHTO density	m³	1	R	R
	ii) spoil in designated area	m³	1	R	R
	b) Extra-over item 8.2.2.1(a) for:				
	i) Intermediate excavation	m³	1	R	R
	ii) Hard rock excavation	m³	1	R	R
	c) Preparation & compaction of in-situ material to				
	90% MOD AASHTO density	m³	1	R	R
	STRUCTURES AND OXIDATION PONDS				
8.2.3	RESTRICTED EXCAVATION				
8.2.3.1	Excavate for restricted foundations, footings and pipe trenches in all materials and use				
	for backfill or spoil	m³	1	R	R
	b) Excavate in all materials for apron slabs on				
	embankment slopes	m³	1	R	R
8.2.3.2	Extra excavation in all materials to provide working				
	Space around structures	m³	1	R	R
8.2.3.3	OVERHAUL TO ITEMS 8.2.2 AND 8.2.3				
	a) Short haul 1,0 - 2,0 km	m³	1	R	R
	b) Long overhaul	m³.km	1	R	R
	SUBTOTAL CARRIED FORWARD				R

Item No.	Description	Unit	Qty	Rate	Amount
	BROUGHT FORWARD				R
8.2.4	<u>CONCRETE</u>				
8.2.4.1	FORMWORK  (Mainly narrow widths from 1mm to 1mm)				
	(wainy harrow watho from him to him)				
8.2.4.1.1	a) Smooth vertical formwork in inlet structure	m²	1	R	R
	b) Smooth vertical formwork in outlet structure	m²	1	R	R
	c) Smooth vertical formwork in spillway structures	m²	1	R	R
	d) Smooth horizontal formwork in spillway structures	m²	1	R	R
	e) Smooth vertical formwork in apron slab sides	m²	1	R	R
8.2.4.2	REINFORCEMENT				
8.2.4.2.1	High-tensile welded mesh reference 391	m²	1	R	R
8.2.4.2.2	High-tensile steel reinforcement	t	1	R	R
8.2.4.3	<u>CONCRETE</u>				
8.2.4.3.1	a) Strength concrete grade 1/19 in inlet and				
	outlet structures.	m³	1	R	R
	b) Strength concrete grade 1/19 in spillway	2	4		
	structures	m³	1	R	R

Item No.	Description	Unit	Qty	Rate	Amount
	c) Strength concrete grade 1/19 in apron slabs	m³	1	R	R
	d) Strength concrete grade 11/19 in blinding layers 1mm thick	m²	1	R	R
8.2.4.3.2	Unformed surface finishes				
	a) Woodfloated finish on all unformed surfaces of				
	structures	m²	1	R	R
	b) Woodfloated finish on apron slabs	m²	1	R	R
	c) Steel floated finish	m²	1	R	R
8.2.1	<u>JOINTS</u>				
	a) Contraction joints in apron slabs 11mm thick	m	1	R	R
	b) Contraction joints in apron slabs 71mm thick	m	1	R	R
8.2.6	BUILDING WORK				
8.2.6.1	<u>Brickwork</u>				
	11mm brickwork with FBS bricks including brickforce	m²	1	R	R
8.2.6.2	21mm brickwork with FBS bricks including brickforce	m²	1	R	R
8.2.6.3	21mm brickwork with FBS bricks both sides including				
	brickforce	m²	1	R	R
8.2.6.4	11mm thick plaster coat	m²	1	R	R
8.2.6.1	Damp proof course				
	371 micron waterproof sheeting in 21mm thick walls	m	1	R	R
	SUBTOTAL CARRIED FORWARD				R

Item No.	Description	Unit	Qty	Rate	Amount
	BROUGHT FORWARD				R
8.2.6.6	Door and Frame				
	Standard 811mmx132mm single panel steel				
	chawl door with 21mm frame complete	no	1	R	R
8.2.6.7	<u>Windows</u>				
	Standard residential type NE1 window with 3mm				
	float glass complete	no	1	R	R
8.2.6.8	Roof				
	Fibre cement roof sheeting (Modulit Pattern) complete				
	with rafters, fixing bolts and bird proofing closure	m²	1	R	R
8.3	MARK-UP RATES				
8.3.1	Percentage mark-up on rates listed on term contracts	%	1	%	
8.3.2	Percentage mark-up on items (with attached in-				
	voices) approved by the Employer or his representative				
	for materials, (other than those set out in this list) used				
	in execution of work ordered by the Employer	%	1	%	
8.4	Tip trucks				
	(a) 6 m <sup>3</sup>	h	1	R	R
	(b) 1 m <sup>3</sup>	h	1	R	R
8.1	Flat bed trucks				
	(a) 1t	km	1	R	R
	(b) 7t	km	1	R	R

Item No.	Description	Unit	Qty	Rate	Amount	
8.6	LDV					
	(a) 2 x 4WD	km	1	R	R	
	(b) 4 x 4WD	km	1	R	R	
	SUBTOTAL					
TOTAL SCHEDULE 4 CARRIED FORWARD TO SUMMARY						

## SCHEDULE 1: FILTER DRAINS (REPLACEMENT OF FILTER MEDIA)

SCHEDULE 1

Item		Description	Unit	Qty	Rate	Amount
9.		rer DRAINS AND THE SUPPLY OF ALL MATERIAL  e: haulage up to 0.1km is considered free-haul)				
9.1	<u>SITI</u>	E CLEARANCE				
9.1.1	Clea	ar and grub	ha	1	R	R
9.1.2	Extr	a-over item 9.1.1 for cleaning specific sites:				
	a)	Removal of debris and silt at inlets to				
		hydraulic structures and in filter beds	m³	1	R	R
	b)	Clean out pipes with internal diameter:	m³	1	R	R
		i) up to 11mm				
		ii) exceeding 11mm up to 1mm	m³	1	R	R
		iii) exceeding 1mm up to 600mm	m³	1	R	R
		iv) exceeding 600mm	m³	1	R	R
	c)	Remove unsuitable filter media from filters				
		and dispose within the free-haul distance	m³	1	R	R
	d)	Remove existing filter media and store each				
		grading (max. 4) separately	m³	1	R	R
9.1.3	Ren	nove and grub large trees and stumps of girth:				
	a)	over 1m and up to and including 2m	no	1	R	R
	b)	over 2m and up to and including 3m	no	1	R	R
9.1.4	Rec	lear surfaces (only on instructions from the Engineer)	ha	1	R	R

Item		Description	Unit	Qty	Rate	Amount
9.1.1	Tak	e down existing fences:				
	a)	stockproof fence	km	1	R	R
	b)	security fence	km	3	R	R
9.1.6	Disr	nantle and remove pipelines with internal diameter:				
	a)	up to 11mm	m	1	R	R
	b)	exceeding 11mm up to 1mm	m	1	R	R
	c)	exceeding 1mm up to 600mm	m	1	R	R
	d)	exceeding 600mm up to 1mm	m	1	R	R
9.1.7	Den	nolish and remove structures and dismantle steelwork				
	a)	Break out and remove second stage concrete				
		(class 1 Mpa)	m³	1	R	R
	b)	Break out and remove defective first stage				
		concrete (class 21 Mpa)				
		i) unreinforced	m³	1	R	R
		ii) reinforced	m³	1	R	R
	c)	Break out and remove filter pipe laterals and				
		nozzles including concrete (1Mpa)				
		encasement				
		i) Layer thickness 1mm	m³	1	R	R
		ii) Layer thickness 1mm	m³	1	R	R
		SUBTOTAL CARRIED FORWARD				R

Item	Description	Unit	Qty	Rate	Amount
	BROUGHT FORWARD				R
	ii) Layer thickness 1mm	m³	1	R	R
	d) Demolish concrete structures:				
	i) unreinforced	m³	1	R	R
	ii) reinforced	m³	1	R	R
	e) Extra-over items 9.1.7 (a), (b) and (c) for				
	cleaning the surfaces of filter floors, walls	m2	4	D	D
	and collector channels of dust, grit and water	m²	1	R	R
9.1.8	Transport materials and debris to unspecified sites				
0.1.0	and dump	m³.km	1	R	R
9.1.9	Remove topsoil to nominal depth of 11mm and				
	stockpile	m³	1	R	R
9.2	EARTHWORKS : PIPE TRENCHES				
9.2.1	EXCAVATION				
9.2.1.1	Excavation in all materials for trenches for 1mm				
	diameter pipes and smaller. Rates nominal include				
	backfill, compact and dispose of surplus material.				
	a) Up to 1,1m deep	m	1	R	R
	b) Over 1,1m up to 2,1m deep	m	1	R	R

Item	Description	Unit	Qty	Rate	Amount
9.2.1.2	Extra-over item for 9.2.1.1				
	a) Intermediate excavation	m³	1	R	R
	b) Hard rock excavation	m³	1	R	R
9.2.1.3	Excavate and dispose of unsuitable material from				
	trench bottom	m³	1	R	R
9.2.1.4	Import backfill material from designated borrow pits	m³	1	R	R
9.2.1.1	Opening up and closing down of designated borrow pit	ha	1	R	R
9.2.1.6	Compaction in road reserve	m³	1	R	R
9.2.1.7	Overhaul				
	a) Limited overhaul (0,1 to 1,0km)	m³	1	R	R
	b) Long overhaul	m³.km	1	R	R
9.2.1.8	Shore trench opposite structure or service	m	1	R	R
9.2.1.9	Existing services that intersect or adjoin a pipe trench				
	a) Services that intersect a trench	no	1	R	R
	b) Services that adjoin a trench	m	1	R	R
9.2.1.1	Reinstate road surfaces complete with all courses				
	a) Gravel on shoulders	m²	1	R	R
	b) Asphalt of thickness 40mm in parking area	m²	1	R	R
	c) Asphalt of thickness 40mm in roadway	m²	1	R	R
	- 7. opticit of thiothioss formin in roduway	111	'		
	SUBTOTAL CARRIED FORWARD			F	
	SOBTOTAL CARRIED FORWARD				`

Item	Description	Unit	Qty	Rate	Amount
	BROUGHT FORWARD				R
9.2.2	BEDDING (Pipes)				
9.2.2.1	Provision of bedding from trench excavation:				
9.2.2.1	a) Selected granular material	m³	1	R	R
	b) Selected fill material	m³	1	R	R
9.2.2.2	Supply only of bedding by importation				
9.2.2.2.1	From other necessary excavations				
	a) Selected granular material	m³	1	R	R
	b) Selected fill material	m³	1	R	R
9.2.2.2.2	From borrow pits				
	a) Selected granular material	m³	1	R	R
	b) Selected fill material	m³	1	R	R
9.2.2.2.3	From commercial sources				
	a) Selected granular material	m³	1	R	R
	b) Selected fill material	m³	1	R	R
9.2.2.2.4	Concrete bedding cradle class 1/19	m³	1	R	R
9.2.2.2.1	Encasing of pipes in concrete class 1/19	m³	1	R	R
9.2.2.2.6	Overhaul of material for bedding cradle and				
	selected fill blanket	m³.km	1	R	R

Item	Description	Unit	Qty	Rate	Amount
9.3	MEDIUM PRESSURE PIPELINES				
9.3.1	uPVC Pressure Pipes				
9.3.1.1	Supply and install uPVC pipe pieces, solvent welded				
	joints, in the following diameters:				
	a) 110mm dia Class 16	m	1	R	R
	b) 160mm dia Class 16	m	1	R	R
	c) 140mm dia Class 16	m	1	R	R
	d) 121mm dia Class 16	m	1	R	R
	e) 200mm dia Class 16	m	1	R	R
9.3.2	uPVC pressure pipe fittings (class 16), solvent welded				
	joints:				
9.3.2.1	End caps				
	a) 110mm dia	no	1	R	R
	b) 160mm dia	no	1	R	R
	c) 140mm dia	no	1	R	R
	d) 125mm dia	no	1	R	R
	e) 200mm dia	no	1	R	R
9.3.2.2	Tees				
	a) 110mm dia	no	1	R	R
	b) 160mm dia	no	1	R	R
	c) 140mm dia	no	1	R	R
	d) 125mm dia	no	1	R	R
	SUBTOTAL CARRIED FORWARD			R	

Item	Description	Unit	Qty	Rate	Amount
	BROUGHT FORWARD				R
9.4	STRUCTURAL CONCRETE				
9.4.1	<u>FORMWORK</u>				
9.4.1.1	Smooth vertical formwork	m²	1	R	R
9.4.1.2	Smooth horizontal formwork	m²	1	R	R
9.4.1.3	Special smooth, repaired and rubbed	m²	1	R	R
9.4.2	REINFORCEMENT				
9.4.2.1	Steel bars				
	a) mild steel	t	1	R	R
	b) high tensile steel	t	1	R	R
9.4.2.2	High tensile welded mesh				
	a) ref. 391	m²	1	R	R
	b) ref. 241	m²	1	R	R
	c) ref.193	m²	1	R	R
9.4.3	<u>CONCRETE</u>				
9.4.3.1	Prescribed mix 1:3 cementitious grout	m³	1	R	R

Item	Description	Unit	Qty	Rate	Amount
9.4.3.2	Blinding layer in 1mm thick concrete class 11/19	m³	1	R	R
9.4.3.3	Strength concrete				
	a) Class 11/6, 7	m³	1	R	R
	b) Class 11/13	m³	1	R	R
	c) Class 11/19	m³	1	R	R
	d) Class 1/13	m³	1	R	R
	e) Class 1/19	m³	1	R	R
	f) Class 21/19	m³	1	R	R
	g) Class 1/19	m³	1	R	R
	h) Class 1 non-shrink cementitious grout	m³	1	R	R
9.4.3.4	Extra-over item 9.4.3.3 for application to existing concrete surface prior to concrete pour of:				
	a) latex bonding agent	m²	1	R	R
	b) epoxy wet-to-dry bonding agent	m²	1	R	R
9.4.3.1	Unformed surface finishes:				
	a) wood floated finish	m²	1	R	R
	b) steel floated finish	m²	1	R	R
9.4.3.6	Manufacture and install precast elements				
	a) Fibre-cement cover plates 1 x 111 x 16mm				
	thick, installed between filter pipe laterals	no	1	R	R
	SUBTOTAL CARRIED FORWARD			F	2
<u> </u>			l		1

Item	Description	Unit	Qty	Rate	Amount
	BROUGHT FORWARD				R
9.4.3.7	Miscellaneous metal work				
	Supply, deliver and install:				
	a) 12 dia stainless steel anchor bolts				
	i) 110mm long	no	1	R	R
	ii) 260mm long	no	1	R	R
	iii) 300mm long	no	1	R	R
	b) Stainless steel flat bar of cross section	110			
	1mm x 1mm				
	ITTITI X ITTITI				
	i) 110mm long	no	1	R	R
	ii) 200mm long	no	1	R	R
	iii) 300mm long	no	1	R	R
	iv) 350mm long	no	1	R	R
9.1	FILTER MEDIA				
	(Note : all materials measured nett as installed				
	in final position).				
	Supply, deliver, install and wash the following				
	graded filter media:				
	a) 6 - 12mm graded stone	m³	1	R	R
	b) 2.36 - 4.71mm graded grit	m³	1	R	R
	c) 0.6 - 1.18mm graded silica sand	m³	1	R	R

Item	Description	Unit	Qty	Rate	Amount
	d) 1.2 - 2.4mm graded anthracite	m³	1	R	R
9.6	GEOTEXTILE				
9.6.1	Supply and install non-woven, needle punched				
	geotextile filter fabric of the following class:				
	a) 21 g/m²	m²	1	R	R
	b) 270 g/m²	m²	1	R	R
	c) 240 g/m <sup>2</sup>	m²	1	R	R
9.7	CLEAN CRUSHED ROCK				
9.7.1	Supply and install the following clean crushed rock				
	as natural permeable material in subsurface				
	drainage system:				
	a) 13.2mm	m³	1	R	R
	b) 19mm	m³	1	R	R
	c) 21mm	m³	1	R	R
	d) 38mm	m³	1	R	R
9.8	MARK-UP RATES				
9.8.1	Percentage mark-up on rates listed on term contracts	%	1	%	
9.8.2	Percentage mark-up on items (with attached in-				
	voices) approved by the Employer or his represen-				
	tative for materials, (other than those set out in				
	this list) used in execution of work ordered by the				
	Employer	%	1	%	
	SUBTOTAL CARRIED FORWARD			F	R

Item	Description	Unit	Qty	Rate	Amount
	BROUGHT FORWARD				R
9.9	Tip trucks				
	(a) 6 m <sup>3</sup>	h	1	R	R
	(b) 1 m <sup>3</sup>	h	1	R	R
9.1	Flat bed trucks				
	(a) 1t	km	1	R	R
	(b) 7t	km	1	R	R
9.11	LDV				
	(a) 2 x 4WD	km	1	R	R
	(b) 4 x 4WD	km	1	R	R
	SUBTOTAL			F	R
	TOTAL SCHEDULE 1 CARRIED FORWARD TO SUMMARY			F	2

## **SCHEDULE 6 : HANDRAILING**

Schedule 6

Item No	Description	Unit	Qty	Rate	Amount
1.	HANDRAILING AND THE SUPPLY OF ALL MATERIAL				
1.1	Hot dip galvanised Mono type tubular handrailing				
	system according to SABS 014, for the complete				
	installation, comprising the following components:				
	a) <u>Tubular handrailing</u>				
	Min 33mm OD x 2,1mm thick x 1 Mpa				
	(min) yield stress steel knee and top rails	m	1	R	R
	b) <u>Stanchions</u>				
	Min 42mm OD x 3,0mm thick x 1 Mpa				
	(min) yield stress steel spaced at a max of				
	1,8m centres for the following types:				
	i) LS90	no	1	R	R
	ii) ST90	no	1	R	R
	iii) SS90	no	1	R	R
	iv) T90	no	1	R	R
	v) S90	no	1	R	R
	vi) P90	no	1	R	R
	vii) SP40	no	1	R	R

Item No	Description	Unit	Qty	Rate	Amount
	viii) SP41	no	1	R	R
	ix) T40	no	1	R	R
	x) T41	no	1	R	R
	xi) S40R	no	1	R	R
	xii) S40L	no	1	R	R
	xiii) S41R	no	1	R	R
	xiv) S41L	no	1	R	R
	xv) TA40	no	1	R	R
	xvi) TA41	no	1	R	R
	c) <u>Bends</u>				
	Min 33mm x 2,1mm thick x 1 Mpa (min) yield				
	stress steel tube in the following configurations:				
	i) Standard 90° bend	no	1	R	R
	ii) Standard 131° bend	no	1	R	R
	iii) Straight closure bend	no	1	R	R
	SUBTOTAL CARRIED FORWARD				R

Item No	Description	Unit	Qty	Rate	Amount
	PROJECUT FORWARD				R
	BROUGHT FORWARD				K
	iv) 41° angle closure bend	no	1	R	R
	v) 40° angle closure bend	no	1	R	R
	vi) Stair return bend	no	1	R	R
	vii) Kink bend	no	1	R	R
	d) Ferrules	no	1	R	R
1.2	MARK-UP RATES				
1.2.1	Percentage mark-up on rates listed on term				
	contracts	%	1	%	R 71
1.2.2	Percentage mark-up on items (with attached in-				
	voices) approved by the Employer or his represen-				
	tative for materials, (other than those set out in				
	this list) used in execution of work ordered by the				
	Employer	%	1	%	R
1.3	Tip trucks				
	(a) 6 m <sup>3</sup>	h	1	R	R
	(b) 1 m <sup>3</sup>	h	1	R	R
1.4	Flat bed trucks				
	(a) 1t	km	1	R	R

Item No	Description	Unit	Qty	Rate	Amount
	(b) 7t	km	1	R	R
1.1	LDV				
	(a) 2 x 4WD	km	1	R	R
	(b) 4 x 4WD	km	1	R	R
	SUBTOTAL				R
	TOTAL SCHEDULE 6 CARRIED FORWARD TO SUMMAR		R		

## SCHEDULE 7: SEPTIC TANKS

**SCHEDULE 7** 

Item	Description	Unit	Qty	Rate	Amount
12.	SEPTIC TANKS AND THE SUPPLY OF ALL MATERIAL				
12.1	EARTHWORKS : SEPTIC TANK				
12.1.1	Excavation (measured 0,1m beyond wall perimeter				
	with 1:1,1 side slopes and 0,11m below structure				
	invert level) and use for backfill at 90% MOD AASHTO				
	density, around septic tank or dispose of, as ordered				
	within 0,1km freehaul distance of septic tank site	m³	1	R	R
12.1.2	Extra over item 12.1.1 for:				
	a) Intermediate material	m³	1	R	R
	b) Hard rock excavation	m³	1	R	R
12.1.3	Importation of approved gravel material from an open				
	borrow pit within 0,1km freehaul distance, place in				
	backfill below septic tank and compact to 90% MOD				
	AASHTO density	m³	1	R	R
12.2	EARTHWORKS : PIPE TRENCHES				
	Excavate in all materials for trenches, backfill and				
	compact, including disposal of surplus or unsuitable				
	material for septic tank disposal drains	m	1	R	R
	Importation of crushed stone, graded 40-70mm, from				
	a suitable source and place in effluent disposal drain				
	trench	m³	1	R	R

Item	Description	Unit	Qty	Rate	Amount
	Importation of crushed stone, graded 70-11mm, from a suitable source and place in seepage pit at termination of pipe drains	m³	1	R	R
12.3	CONCRETE WORK				
12.3.1	<u>Formwork</u>				
12.3.1.1	Smooth off shutter : all vertical surfaces	m²	1	R	R
12.3.1.2	Smooth off shutter horizontal, underside roof slab	m²	1	R	R
12.3.2	Reinforcement  a) High tensile steel reinforcement	t	1	R	R
12.3.3	<u>Concrete</u>				
12.3.3.1	<ul> <li>a) Blinding layer - 1mm thick in prescribed mix</li> <li>11 concrete below septic tank</li> <li>b) Strength mix 21/19 concrete in septic tank</li> </ul>	m²	1	R	R
	floor, walls and roof c) Strength mix 1/19 concrete in manhole floor,	m³	1	R	R
	SUBTOTAL CARRIED FORWARD				R

Item	Description	Unit	Qty	Rate	Amount
	BROUGHT FORWARD				R
	and roof	m³	1	R	R
	d) Benching strength mix 1/19 concrete in	3	4	Б	D
	manhole	m³	1	R	R
	e) Strength mix 21/19 reinforced concrete lids	20	4	R	R
12.3.4	for septic tank	no	1	K	K
12.3.4	Surface finish  Nood floated surface finish to floar roof and				
	Wood floated surface finish to floor, roof and     internal walls horizontal surfaces	m²	1	R	R
	b) 1mm chamfer on all exposed concrete edges	m² m	1	R	R
	a, mini shamor on an expected control ougot	•••			
12.3.1	BUILDING WORK				
	<u>Brickwork</u>				
	a) 21mm brickwork with type FBS bricks both				
	sides in manhole walls	m²	1	R	R
	b) 111mm brickwork	m²	1	R	R
12.3.6	FIBRE CEMENT SEPTIC TANK				
	Supply and install 131R fibre-cement septic tank.				
	(Note: excavation and concrete footing measured				
	elsewhere)	no	1	R	R
12.4	PIPE LAYING				
	Supply, lay, joint and test 11DN corrugated radial				
	rib profile, drainage pipe:				
	a) unslotted	m	1	R	R
	b) slotted	m	1	R	R

Item	Description	Unit	Qty	Rate	Amount
12.1	MARK-UP RATES				
12.1.1	Percentage mark-up on rates listed on term contracts	%	1	%	R
12.1.2	Percentage mark-up on items (with attached invoices)				
	approved by the Employer or his representative for				
	materials, (other than those set out in this list) used				
	in the execution of work ordered by the Employer	%	1	%	R
12.6	Tip trucks				
	(a) 6 m <sup>3</sup>	h	1	R	R
	(b) 1 m <sup>3</sup>	h	1	R	R
12.7	Flat bed trucks				
	(a) 1t	km	1	R	R
	(b) 7t	km	1	R	R
12.8	LDV				
	(a) 2 x 4WD	km	1	R	R
	(b) 4 x 4WD	km	1	R	R
	SUBTOTAL		<u> </u>		R
	TOTAL SCHEDULE 7 CARRIED FORWARD TO SUMMA	ARY			R

## SCHEDULE 8 : CIRCULAR CONCRETE RESERVOIRS

**SCHEDULE 8** 

Item	Description	Unit	Qty	Rate	Amount
13.	CIRCULAR CONCRETE RESERVOIRS				
	Note : haulage up to 0.1km is considered free-haul)				
13.1	RESERVOIR CONSTRUCTION				
13.1.1	SITE CLEARANCE				
13.1.1.1	Clear and grub site	ha	1	R	R
13.1.1.2	Remove and grub large trees and stumps of girth:				
	a) over 1m and up to and including 2m	no	1	R	R
	b) over 2m and up to and including 3m	no	1	R	R
13.1.1.3	Reclear surfaces (only on instructions from the				
	Engineer)	ha	1	R	R
13.1.1.4	Take down existing fences				
	a) Stockproof fence	km	1	R	R
	b) Security fence	km	1	R	R
13.1.1.1	Transport materials and debris to unspecified sites				
	and dump	m³.km	1	R	R
13.1.1.6	Remove topsoil to nominal depth of 11mm and				
	stockpile	m³	1	R	R

13.1.2 EARTHWORKS  13.1.2.1 Bulk excavation (measured 1.0m beyond wall perimeter with 1:1 slopes) and use for backfill at 90% MOD AASHTO density on embankments around reservoir or dispose of, as ordered, within  0.1km freehaul distance m³ 1 R R  13.1.2.2 Extra-over item 13.1.2.1 for: a) intermediate excavation m³ 1 R R  b) hard rock excavation class A m³ 1 R R  d) boulder excavation class B m³ 1 R R  Excavate for restricted foundations, footings and pipe trenches in all materials and use for backfill, embankment or dispose m³ 1 R R  13.1.2.4 Extra-over item 13.1.2.3 for: a) intermediate excavation class A m³ 1 R R  b) hard rock excavation class A m³ 1 R R  13.1.2.1 Extra-over for importation of materials  a) from borrow pits m³ 1 R R  CARRIED FORWARD  b) from commercial sources i) 6,7mm crushed rock m³ 1 R R	Item	Description	Unit	Qty	Rate	Amount
perimeter with 1:1 slopes) and use for backfill at  90% MOD AASHTO density on embankments around reservoir or dispose of, as ordered, within  0.1km freehaul distance  Extra-over item 13.1.2.1 for:  a) intermediate excavation  b) hard rock excavation  c) boulder excavation class A  d) boulder excavation class B  m³ 1 R  R  13.1.2.3 Excavate for restricted foundations, footings and pipe trenches in all materials and use for backfill, embankment or dispose  m³ 1 R  13.1.2.4 Extra-over item 13.1.2.3 for: a) intermediate excavation  b) hard rock excavation  m³ 1 R  R  13.1.2.1 Extra-over item 13.1.2.3 for: a) intermediate excavation  m³ 1 R  R  13.1.2.1 Extra-over for importation of materials  BROUGHT FORWARD  b) from commercial sources i) 6.7mm crushed rock  m³ 1 R  R	13.1.2	<u>EARTHWORKS</u>				
90% MOD AASHTO density on embankments around reservoir or dispose of, as ordered, within  0.1km freehaul distance  Extra-over item 13.1.2.1 for:  a) intermediate excavation  b) hard rock excavation  m³ 1 R R  n R  d) boulder excavation class A  d) boulder excavation class B  m³ 1 R R  13.1.2.3 Excavate for restricted foundations, footings and pipe trenches in all materials and use for backfill, embankment or dispose  13.1.2.4 Extra-over item 13.1.2.3 for: a) intermediate excavation  b) hard rock excavation  b) hard rock excavation  c) boulder excavation class A  d) boulder excavation class B  m³ 1 R  R  13.1.2.1 Extra-over for importation of materials  BROUGHT FORWARD  b) from commercial sources  i) 6,7mm crushed rock  m³ 1 R  R	13.1.2.1	Bulk excavation (measured 1.0m beyond wall				
around reservoir or dispose of, as ordered, within  0.1km freehaul distance  Extra-over item 13.1.2.1 for:  a) intermediate excavation  b) hard rock excavation  m³ 1 R R  n  d) boulder excavation class A m³ 1 R  d) boulder excavation class B m³ 1 R  Excavate for restricted foundations, footings and pipe trenches in all materials and use for backfill, embankment or dispose  13.1.2.4 Extra-over item 13.1.2.3 for:  a) intermediate excavation  b) hard rock excavation  c) boulder excavation  d) houlder excavation  d) houlder excavation class A  d) boulder excavation class B  m³ 1 R  R  1 R  R  1 R  R  R  R  R  R  R  R  R  R  R  R  R		perimeter with 1:1 slopes) and use for backfill at				
0.1km freehaul distance  Extra-over item 13.1.2.1 for:  a) intermediate excavation  b) hard rock excavation  m³ 1 R R  n R  n N  b) hard rock excavation  m³ 1 R R  n R  d) boulder excavation class A  d) boulder excavation class B  m³ 1 R  n R  13.1.2.3 Excavate for restricted foundations, footings and pipe trenches in all materials and use for backfill, embankment or dispose  Extra-over item 13.1.2.3 for:  a) intermediate excavation  b) hard rock excavation  c) boulder excavation class A  d) boulder excavation class A  d) boulder excavation class B  m³ 1 R  R  R  13.1.2.1 Extra-over for importation of materials  BROUGHT FORWARD  b) from commercial sources  i) 6,7mm crushed rock  m³ 1 R  R		90% MOD AASHTO density on embankments				
13.1.2.2 Extra-over item 13.1.2.1 for:  a) intermediate excavation  b) hard rock excavation  c) boulder excavation class A  d) boulder excavation class B  13.1.2.3 Excavate for restricted foundations, footings and pipe trenches in all materials and use for backfill, embankment or dispose  13.1.2.4 Extra-over item 13.1.2.3 for:  a) intermediate excavation  b) hard rock excavation  c) boulder excavation  d) boulder excavation class A  d) boulder excavation class B  m³ 1 R  R  13.1.2.1 Extra-over for importation of materials  a) from borrow pits  CARRIED FORWARD  b) from commercial sources  i) 6,7mm crushed rock  m³ 1 R  R		around reservoir or dispose of, as ordered, within				
a) intermediate excavation b) hard rock excavation d) boulder excavation class A d) boulder excavation class B m³ 1 R R  13.1.2.3 Excavate for restricted foundations, footings and pipe trenches in all materials and use for backfill, embankment or dispose m³ 1 R R  13.1.2.4 Extra-over item 13.1.2.3 for: a) intermediate excavation b) hard rock excavation m³ 1 R R R  13.1.2.1 Extra-over for importation class B m³ 1 R R R  13.1.2.1 Extra-over for importation of materials  BROUGHT FORWARD b) from commercial sources i) 6,7mm crushed rock  m³ 1 R R R		0.1km freehaul distance	m³	1	R	R
b) hard rock excavation  b) hard rock excavation  c) boulder excavation class A  d) boulder excavation class B  m³ 1 R  R  13.1.2.3 Excavate for restricted foundations, footings and pipe trenches in all materials and use for backfill, embankment or dispose  m³ 1 R  R  13.1.2.4 Extra-over item 13.1.2.3 for:  a) intermediate excavation  b) hard rock excavation  c) boulder excavation class A  d) boulder excavation class B  m³ 1 R  R  R  13.1.2.1 Extra-over for importation of materials  BROUGHT FORWARD  b) from commercial sources  i) 6,7mm crushed rock  m³ 1 R  R  R  R  R  R  R  R  R  R  R  R  R	13.1.2.2	Extra-over item 13.1.2.1 for:				
boulder excavation class A d) boulder excavation class B m3 1 R R R  13.1.2.3 Excavate for restricted foundations, footings and pipe trenches in all materials and use for backfill, embankment or dispose mbankment or dis		a) intermediate excavation	m³	1	R	R
d) boulder excavation class B  13.1.2.3 Excavate for restricted foundations, footings and pipe trenches in all materials and use for backfill, embankment or dispose  13.1.2.4 Extra-over item 13.1.2.3 for:  a) intermediate excavation  b) hard rock excavation  c) boulder excavation class A  d) boulder excavation class B  m³ 1 R  R  R  13.1.2.1 Extra-over for importation of materials  a) from borrow pits  CARRIED FORWARD  b) from commercial sources  i) 6,7mm crushed rock  m³ 1 R  R		b) hard rock excavation	m³	1	R	R
13.1.2.3 Excavate for restricted foundations, footings and pipe trenches in all materials and use for backfill, embankment or dispose m³ 1 R R  13.1.2.4 Extra-over item 13.1.2.3 for: a) intermediate excavation m³ 1 R R b) hard rock excavation m³ 1 R R c) boulder excavation class A m³ 1 R R d) boulder excavation class B m³ 1 R R  13.1.2.1 Extra-over for importation of materials  A BROUGHT FORWARD  b) from commercial sources i) 6,7mm crushed rock m³ 1 R R		) boulder excavation class A	m³	1	R	R
pipe trenches in all materials and use for backfill, embankment or dispose  13.1.2.4 Extra-over item 13.1.2.3 for: a) intermediate excavation b) hard rock excavation c) boulder excavation class A d) boulder excavation class B m³ 1 R R R 13.1.2.1 Extra-over for importation of materials  a) from borrow pits  CARRIED FORWARD  b) from commercial sources i) 6,7mm crushed rock  m³ 1 R R R R R R R R R R R R R R R R R R R		d) boulder excavation class B	m³	1	R	R
embankment or dispose  13.1.2.4 Extra-over item 13.1.2.3 for:  a) intermediate excavation  b) hard rock excavation  c) boulder excavation class A  d) boulder excavation class B  13.1.2.1 Extra-over for importation of materials  R  CARRIED FORWARD  BROUGHT FORWARD  b) from commercial sources  i) 6,7mm crushed rock  m³ 1 R  R  R  R  R  R  R  R  R  R  R  R  R	13.1.2.3	Excavate for restricted foundations, footings and				
13.1.2.4 Extra-over item 13.1.2.3 for:  a) intermediate excavation  b) hard rock excavation  c) boulder excavation class A  d) boulder excavation class B  13.1.2.1 Extra-over for importation of materials  R  CARRIED FORWARD  BROUGHT FORWARD  b) from commercial sources  i) 6,7mm crushed rock  m³ 1 R  R  R  R  R  R  R  R  R  R  R  R  R		pipe trenches in all materials and use for backfill,				
a) intermediate excavation		embankment or dispose	m³	1	R	R
b) hard rock excavation	13.1.2.4	Extra-over item 13.1.2.3 for:				
c) boulder excavation class A m³ 1 R R d) boulder excavation class B m³ 1 R  13.1.2.1 Extra-over for importation of materials  R  CARRIED FORWARD R  b) from commercial sources i) 6,7mm crushed rock m³ 1 R  R  R  R  R  R  R  R  R  R  R  R  R		a) intermediate excavation	m³	1	R	R
c) boulder excavation class A m³ 1 R R d) boulder excavation class B m³ 1 R R 13.1.2.1 Extra-over for importation of materials  a) from borrow pits m³ 1 R CARRIED FORWARD  BROUGHT FORWARD  b) from commercial sources i) 6,7mm crushed rock m³ 1 R		b) hard rock excavation	m³	1	Б	R
a) from borrow pits m³ 1 R  CARRIED FORWARD R  BROUGHT FORWARD R  b) from commercial sources i) 6,7mm crushed rock m³ 1 R R		c) boulder excavation class A	m³	1		R
a) from borrow pits m³ 1 R  CARRIED FORWARD R  BROUGHT FORWARD R  b) from commercial sources i) 6,7mm crushed rock m³ 1 R R		d) boulder excavation class B	m³	1	R	R
a) from borrow pits m³ 1 R  CARRIED FORWARD R  BROUGHT FORWARD  b) from commercial sources i) 6,7mm crushed rock m³ 1 R R	13.1.2.1	Extra-over for importation of materials				
CARRIED FORWARD  BROUGHT FORWARD  b) from commercial sources  i) 6,7mm crushed rock  R  R						R
CARRIED FORWARD  BROUGHT FORWARD  b) from commercial sources  i) 6,7mm crushed rock  R  R						
CARRIED FORWARD  BROUGHT FORWARD  b) from commercial sources  i) 6,7mm crushed rock  R  R						
BROUGHT FORWARD  b) from commercial sources  i) 6,7mm crushed rock  m³ 1 R R		a) from borrow pits	m³	1	R	
b) from commercial sources i) 6,7mm crushed rock  m³ 1 R		CARRIED FORWARD				R
b) from commercial sources i) 6,7mm crushed rock  m³ 1 R						
i) 6,7mm crushed rock m³ 1 R R		BROUGHT FORWARD				R
		b) from commercial sources				
		i) 6,7mm crushed rock	m³	1	R	R
ii) 13mm crushed rock m³ 1 R R		ii) 13mm crushed rock	m³	1	R	R

Item	De	scription	Unit	Qty	Rate	Amount
		iii) 19mm crushed rock	m³	1	R	R
		iv) 21mm crushed rock	m³	1	R	R
		v) 38mm crushed rock	m³	1	R	R
13.1.2.6	One	ening up and closing down of designated borrow				
10.1.2.0	pit	ming up and closing down or accignated benew	ha	1	R	  R
	pit		Tia			
13.1.2.7	Exti	ra-over item 13.1.2.1 and 13.1.2.3 for:				
	a)	limited overhaul	m³	1	R	R
	b)	long overhaul in excess of 0.1km	m³.km	1	R	R
13.1.3	COI	NCRETE WORK				
13.1.3.1	3.1 <u>FORMWORK</u>					
	a)	Rough	m²	1	R	R
	b)	Smooth				
		i) all vertical surfaces to be backfilled	m²	1	R	R
		ii) underside of roof slab	m²	1	R	R
	c)	Special smooth, repaired and rubbed				
		i) all exposed vertical surfaces	m²	1	R	R
	d)	Narrow widths				
		i) up to 1mm wide	m²	1	R	R
		ii) chamfered edges 1mm x 1mm	m	1	R	R
		iii) triangular drip groove 21mm	m	1	R	R
	e)	Box-out openings (rectangular) of area up to				
		and including 0.1m <sup>2</sup> up to and including 0.1m				
		deep	no	1	R	R
ı	ı	141	ı		ı	, '

Item	Description	on	Unit	Qty	Rate	Amount
	f) Box-o	out openings (rectangular) of area over				
	0.1m <sup>2</sup>	<sup>2</sup> up to and including 0.1m <sup>2</sup> up to and				
	includ	ling 0.1m deep)	no	1	R	R
13.1.3.2	REINFORG	CEMENT				
	a) Steel	bars				
	i) mil	d steel	t	1	R	R
	ii) hiç	gh tensile steel	t	1	R	R
	b) High	tensile welded mesh				
	i) ref	. 391	m²	1	R	R
	ii) re	f. 241	m²	1	R	R
	iii) re	f. 193	m²	1	R	R
13.1.3.3	CONCRET	<u>E</u>				
	a) Preso	cribed mix 1:3:6 (38) in cavities formed				
	by ov	erbreak, only upon instruction of the				
	Engir	neer			R	R
		OUDTOTAL CARRIED FORWARD				
		SUBTOTAL CARRIED FORWARD				R
		BROUGHT FORWARD				R
	L) 5	with and made A O for the				
		cribed mix 1:6 for topping on floor and	•			
	roof s	creeded to fall	m³	1	R	R

Item	Descri	ption	Unit	Qty	Rate	Amount
	c) Bl	inding layer - 1mm thick in class 11/19				
	co	oncrete	m³	1	R	R
	d) St	rength concrete				
	i)	Class 11/19 for filling of pockets in excavated				
	fo	undations where such over-excavations were				
	or	dered by the Engineer	m³	1	R	R
	ii)	Class 1/19	m³	1	R	R
	iii)	Class 21/19	m³	1	R	R
	iv) Class 1/19		m³	1	R	R
	e) Sı	urface finish				
		wood floated surface finish to floor, roof and				
	,	screeds	m²	1	R	R
	ii)	steel floated	m²	1	R	R
	iii)	power floated	m²	1	R	R
13.1.3.1	JOINTS					
13.1.3.1.1	Forming	g of new expansion and contraction joints	m	1	R	R
13.1.3.1.2	Extra-o	ver item 13.1.3.1.1 for cleaning, priming and				
	sealing	of 1mm square contraction joints with				
	Jacolas	tic or equivalent	m	1	R	R
13.1.3.1.3	Waterba	ars (Expandible)				
	a) Ex	spandible preformed hydrophilic elastomer				
	joi	int sealing waterstop as Sika Water Swebber				
	W	S 11 or equivalent	m	1	R	R

Item	Description	Unit	Qty	Rate	Amount
13.1.3.1.4	Waterbars (Moulded)				
	Precision moulded rubber or PVC waterbars in the				
	following profiles:				
	a) Centre bulb (in expansion joints) of width:				
	i) 190mm	m	1	R	R
	ii) 21mm	m	1	R	R
	iii) 21mm	m	1	R	R
	iv) 1mm	m	1	R	R
	b) Dumb-bell (in contraction and construction				
	joints) of width:				
	i) 11mm	m	1	R	R
	ii) 190mm	m	1	R	R
	iii) 21mm	m	1	R	R
	Lay-flat external type (in contraction joints in				
	walls and slabs) of width:				
	i) 21mm	m	1	R	R
	ii) 21mm	m	1	R	R
	iii) 21mm with centre bulb for expansion				
	joints	m	1	R	R
13.2.1.1	Prescribed mix 1:3 cementitious grout	m³	1	R	R
13.2.1.2	Class 1 non-shrink cementitious grout	m³	1	R	R
13.2.1.3	Extra-over items 13.1.3.3, 13.2.1.1 and 13.2.1.2 for				
	application to existing concrete surface (prior to				
	concrete pour) of:				
	a) latex on agent	m²	1	R	R
	b) epoxy wet-to-dry bonding agent	m²	1	R	R
				1	1

Item	Description	Unit	Qty	Rate	Amount
					ľ
13.3	MARK-UP RATES				1
13.3.1	Percentage mark-up on rates listed on term				
	contracts	%	1	%	
13.3.2	Percentage mark-up on items (with attached				
	invoices) approved by the Employer or his				
	representative for materials, (other than those set				
	out in this list) used in the execution of work				
	ordered by the Employer	%	1	%	
13.4	Tip trucks				
	(a) 6 m <sup>3</sup>	h	1	R	R
	(b) 1 m <sup>3</sup>	h	1	R	R
13.1	Flat bed trucks				
	(a) 1t	km	1	R	R
	(b) 7t	km	1	R	R
13.6	LDV				
	(a) 2 x 4WD	km	1	R	R
	(b) 4 x 4WD	km	1	R	R
	TOTAL SCHEDULE 8 CARRIED FORWARD TO SUM	MMARY			
					•

Item	Description	Unit	Qty	Rate	Amount
14.	GABIONS AND PITCHING				
14.1	SITE CLEARANCE				
14.1.1	Clear and grub	ha	2	R	R
14.1.2	Remove and grub large trees and stumps of girth:				
	a) over 1m and up to and including 2m	no	1	R	R
	b) over 2m and up to and including 3m	no	1	R	R
14.1.3	Reclear surfaces (only on instructions from the				
	Engineer)	ha	2	R	R
14.1.4	Take down existing fences				
	a) Stockproof fence	km	2	R	R
	b) Security fence	km	1	R	R
14.1.1	Dismantle and remove pipelines with internal diameter:				
	a) up to 1mm	m	1	R	R
	b) exceeding 1mm up to 600mm	m	1	R	R
	c) exceeding 600mm up to 11mm	m	1	R	R
14.1.6	Demolish and remove structures:				
	a) brickwork	m³	1	R	R

Item	Description	Unit	Qty	Rate	Amount
	b) concrete structures				
	i) unreinforced	m³	1	R	R
	ii) reinforced	m³	1	R	R
14.1.7	Transport materials and debris to unspecified sites				
	and dump	m³.km	1	R	R
14.1.8	Remove topsoil to nominal depth of 140mm and				
	stockpile	m³	1	R	R
14.2	<u>EARTHWORKS</u>				
14.2.1	a) Excavate in all materials and use for embank-				
	ment or backfill compacted to 91% modified				
	AASHTO density, or dispose, as ordered	m³	1	R	R
	b) Extra-over item 14.2.1a for:				
	i) intermediate excavation	m³	1	R	R
	ii) hard rock excavation	m³	1	R	R
	iii) boulder excavation class A	m <sup>3</sup>	1	R	R
	iv) boulder excavation class B	m³	1	R	R
	CARRIED FORWARD				R
	CARRIED FORWARD	)			R

Item	Description			Qty	Rate	Amount
		BROUGHT FORWARD				R
14.2.2	Restri	cted Excavation				
	a)	Excavate for restricted foundations and footings				
		in all materials and use for embankment or				
		backfill compacted to 91% modified AASHTO				
		density, or dispose, as ordered	m³	1	R	R
	b)	Extra-over item 14.2.2a for:				
		i) intermediate excavation	m³	1	R	R
		ii) hard rock excavation	m³	1	R	R
		iii) boulder excavation class A	m³	1	R	R
		iv) boulder excavation class B	m³	1	R	R
14.2.3	Import	ting of materials				
	a)	Extra-over items 14.2.1 and 14.2.2 for				
		importation of materials				
		i) from borrow pits	m³	1	R	R
		ii) 19mm crushed rock from commercial				
		sources	m³	1	R	R
	b)	Opening up and closing down of designated				
		borrow pit	ha	1		
14.2.4	Extra	excavation in all materials to provide working				
	space	around structure	m³	1	R	R
14.2.1	<u>Overh</u>	<u>aul</u>				
	a)	Limited overhaul	m³	1	R	R
	b)	Long overhaul	m³.km	1	R	R
14.2.6	Topso	iling	m³	1	R	R

Item			Desc	cription		Unit	Qty	Rate	Amount
14.3	GABI	<u>ONS</u>							
14.3.1	Surfac	ce preparation	n for bedding	of gabions:					
	a) Cavities filled with approved excavated								
		material o	r rock to max	k. depth of 1	40mm	m²	1	R	R
	b)	Cavities fi	lled with clas	s 14/19 stre	ngth				
	concrete, to max. thickness of 60mm				m²	1	R	R	
	c) Cavities filled with class 14/19 strength								
	concrete, irrespective of depth					m³	1	R	R
14.3.2	Const	ruct gabions	to SABS 148	0 (1993) usi	ng				
	galvar	nised wire							
	Notes	: Each gabio	n to be fitted	with a corro	sion				
	resista inform	ant metal tag nation.	containing m	anufacturer'	S				
	Mesh	to be hexago	nally woven	3 ½ turns, F	R = 1,				
	b = 80	) mesh wire 2	,7mm min. a	nd selvedge	3,4mm min.				
	Diaph	ragms at 1,0r	n centres.						
	Bindir	ng wire 2,2mn	n min.						
	In the	following size	es:						
	a)	L = 1m	W = 1m	H = 1m	Cell 1	m³	1	R	R
	b)	L = 1,1m	W = 1m	H = 1m	Cell 1	m³	11	R	R
	c)	L = 2m	W = 1m	H = 1m	Cell 2	m³	1	R	R
	d)	L = 3m	W = 1m	H = 1m	Cell 3	m³	1	R	R
	e)	L = 4m	W = 1m	H = 1m	Cell4	m³	1	R	R
	f)	L = 2m	W = 0,1m	H = 0,1m	Cell 2	m³	1	R	R
				CA	RRIED FORWARD				R

Item			Desc	ription		Unit	Qty	Rate	Amount
				BRO	UGHT FORWARD				R
	g) L=	2m	W = 1m	H = 0,1m	Cell 2	m³	1	R	R
	h) L =	3m	W = 1m	H = 0,1m	Cell 3	m³	1	R	R
	i) L =	4m	W = 1m	H = 0,1m	Cell 4	m³	1	R	R
14.3.3	Ditto item 14.	.3.2 with	n all wires P\	VC coated:					
	a) L=			H = 1m	Cell 1	m³	1	R	R
				H = 1m	Cell 1	m³			R
	c) L=	2m	W = 1m	H = 1m	Cell 2	m³	1	R	R
	d) L=	3m	W = 1m	H = 1m	Cell 3	m³	1	R	R
	e) L=	4m	W = 1m	H = 1m	Cell4	m³	1	R	R
	f) L =	2m	W = 0,1m	H = 0,1m	Cell 2	m³	1	R	R
	g) L=	2m	W = 1m	H = 0,1m	Cell 2	m³	1	R	R
	h) L =	3m	W = 1m	H = 0,1m	Cell 3	m³	1	R	R
	i) L =	4m	W = 1m	H = 0,1m	Cell 4	m³	1	R	R
14.3.4	Construct wir	red matt	resses to SA	ABS 1480 (1	993)				
	using galvani	ised wire	e.						
	Notes : Each	mattres	ss to be fitted	d with a corr	osion				
	resistant met	al tag co	ontaining ma	anufacturer's	3				
	information.								
	Mesh to be h	exagon	ally woven 3	3½ turns, R	= 1,				
	b = 80 mesh	wire 2,1	mm min and	d selvedge 3	3,1mm min.				
	Diaphragms	at 1,0 m	centres.						
	Binding wire	2,2mm ı	min.						
	In the following	ng sizes	::						
	a) L =	2m	W = 1m	H = 0,3m	Cell 2	m³	1	R	R
	b) L =	3m	W = 1m	H = 0,3m	Cell 3	m³	1	R	R

Item			Des	cription		Unit	Qty	Rate	Amount
	c)	L = 6m	W = 1m	H = 0,3m	Cell 6	m³	1	R	R
14.3.1	Ditto i	tem 14 3 4 w	vith all wires I	PVC coated:					
	a)	L = 2m	W = 1m	H = 0,3m	Cell 2	m³	1	R	R
	b)	L = 3m	W = 1m	H = 0,3m	Cell 3	m³	1	R	R
	c)	L = 6m	W = 1m	H = 0,3m	Cell 6	m³	1	R	R
14.3.6	Extra	over items 1	4.3.2, 14.3.3	, 14.3.4 and 1	4.3.1				
	for pa	cking selecte	ed stone for e	exposed face		m²	1	R	R
14.3.7	Extra	over items 1	4.3.2, 14.3.3	, 14.3.4 and 1	4.3.1				
	for ins	stallation of th	ne following ι	upon instructio	on of				
	the E	ngineer:							
	a)	galvanise	ed binding an	d lacing wire	of min.				
		thickness	s 2,2mm (Me	asured per rol	l of 1kg)	no	1	R	R
	b)	closing w	vire rings (41	DN open and	approx.				
		1 DN clos	sed) as SPE	NAX or equiva	alent.				
		(Measure	ed per box co	ontaining 1600	rings)				
		ii) galvar	nised			no	1	R	R
		ii) stainle	ess steel			no	1	R	R
14.3.8	Geote	extile							
	Non-v	voven, contir	nuous filamer	nt geotextile:					
	a)	Grade U	34 (270g/m²)			m²	1	R	R
	b)	Grade U	44 (340 g/m²	)		m²	1	R	R
			SU	IBTOTAL CAF	RRIED FORWARI	D			R
44.4									
14.4									

Item	Description	Unit	Qty	Rate	Amount
	<u>PITCHING</u>				
	BROUGHT FORWARD				R
14.4.1	Plain stone pitching to a minimum final layer				
	thickness of:				
	a) 1mm	m²	1	R	R
	b) 1mm	m²	1	R	R
14.4.2	Grouted stone pitching in freshly laid cement mortar				
	of 1:6 mix proportion, to a minimum final layer				
	thickness of 1mm	m²	1	R	R
14.4.3	Grouted stone pitching of 1mm pitching thickness,				
	laid on a fresh class 14/19 concrete bed of 71mm				
	thickness	m²	1	R	R
14.1	MARK-UP RATES				
14.1.1	Percentage mark-up on rates listed on term				
	contracts	%	1	%	R
14.1.2	Percentage mark-up on items (with attached			70	
	invoices) approved by the Employer or his				
	representative for materials, (other than those set				
	out in this list) used in the execution of work				
	ordered by the Employer	%	1	%	R
14.6	Tip trucks				
	(a) 6 m <sup>3</sup>	h	1	R	R
	(b) 1 m <sup>3</sup>	h	1	R	R
14.7	Flat bed trucks				
	(a) 1t	km	1	R	R

Item	Description	Unit	Qty	Rate	Amount
	(b) 7t	km	1	R	R
14.8	LDV				
	(a) 2 x 4WD	km	1	R	R
	(b) 4 x 4WD	km	1	R	R
	TOTAL COUEDING A CARRIED FORWARD TO CUMMARY				
	TOTAL SCHEDULE 9 CARRIED FORWARD TO SUMMARY				R

## SCHEDULE 1: SEGMENTED BLOCK PAVING, KERBING AND CHANNELING

EGMENTED BLOCK PAVING, KERBING AND				
HANNELING				
ITE CLEARING				
lear and grub	ha	1	R	R
emove and grub large trees and stumps of girth				
over 1m and up to and including 2m	no	1	R	R
over 2m and up to and including 3m	no	1	R	R
eclear surfaces (only on instructions from the Engineer)	ha	1	R	R
ake down existing fences stockproof fence	km	1	R	R
Security fence	km	1	R	R
ransport materials and debris to unspecified sites and dump	m³.km	1	R	R
emove topsoil to nominal depth of 11mm and stockpile	m³	1	R	R
ULK EARTHWORKS				
ulle Evenyation				
uik excavation				
excavate in all materials and use for embankment or				
ackfill compacted to 90% modified AASHTO density or				
lispose, as ordered	m <sup>3</sup>	1	R	R
I de la	ear and grub  emove and grub large trees and stumps of girth  ver 1m and up to and including 2m  ver 2m and up to and including 3m  clear surfaces (only on instructions from the Engineer)  ke down existing fences stockproof fence  ecurity fence  ansport materials and debris to unspecified sites and dump  emove topsoil to nominal depth of 11mm and stockpile  JLK EARTHWORKS  Ilk Excavation  Accavate in all materials and use for embankment or  ackfill compacted to 90% modified AASHTO density or	the clear and grub has been and grub has been and grub large trees and stumps of girth are 1m and up to and including 2m no are 2m and up to and including 3m no beclear surfaces (only on instructions from the Engineer) has been been been been been been been bee	the common and grub large trees and stumps of girth  amove and grub large trees and stumps of girth  are 1 m and up to and including 2m  are 2m and up to and including 3m  are 3m  are 4m and 4m  are 5m are	ter CLEARING  Para and grub  The CLEARING  Para and grub  Para and grub  Para and grub large trees and stumps of girth  Para and up to and including 2m  Para and up to and including 3m  Para and up to and including 2m  Para and up

Item	Description	Unit	Qty	Rate	Amount
	t )Extra-over item 11.2.1 for:				
	i) Intermediate material	m³	1	R	R
	ii) hard rock excavation	m³	1	R	R
	iii) boulder excavation, Class A	m³	1	R	R
	iv) boulder excavation, Class B	m³	1	R	R
11.2.2	Importing of Materials				
	ε )Extra-over for importation of materials from borrow pits	m <sup>3</sup>	1	R	R
	t )Opening up and closing down of designated borrow pit	ha	1	R	R
	ι )Dealing with overburden	m³	1	R	R
11.2.3	<u>Overhaul</u>				
	a) Limited overhaul	m³	1	R	R
	b) Long overhaul	m³.km	1	R	R
11.3	EARTHWORKS (Roads, Subgrade)				
11.3.1	Preparation of site				
	a) Stripping and removal of topsoil to 11mm				
	depth, stockpiling and maintaining	m³	1	R	R
	SUBTOTAL CARRIED FORWARD				R

Item		Description	Unit	Qty	Rate	Amount
		BROUGHT FORWARD				R
	b)	Strip and remove 11mm layer, haul and				
		spread topsoil in borrow pits	m³	1	R	R
11.3.2	Trea	atment of Pavement area				
	a)	Pavement area preparation and compaction of				
		material to:				
		i) min. of 90% MOD AASHTO density to a				
		depth of 11mm	m³	1	R	R
		ii) min. of 93% MOD AASHTO density to a				
		depth of 11mm	m³	1	R	R
		iii) min of 91% MOD AASHTO density to a				
		depth of 11mm	m³	1	R	R
	b)	In-place treatment of pavement area in				
		intermediate or hard rock material by:				
		i) Ripping	m³	1	R	R
		ii) Blasting	m³	1	R	R
11.3.3	Cut	to fill				
	a)	Cut to fill and compact to 90% of MOD				
		AASHTO density	m³	1	R	R
	b)	Cut to fill and compact to 93% of MOD				
		AASHTO density	m³	1	R	R
11.3.4	Borr	row to fill				
	a)	Borrow to fill and compact to 90% of MOD				
		AASHTO density	m³	1	R	R
	b)	Borrow to fill and compact to 93% of MOD				
		AASHTO density	m³	1	R	R
	c)	Borrow to fill and compact to 91% MOD AASHTO				
					_1	

Item		Description	Unit	Qty	Rate	Amount
		density	m³	1	R	R
11.3.1	Sele	cted layer				
	a)	Selected layer compacted to 93% of MOD				
		AASHTO density	m³	1	R	R
	b)	Selected gravel course compacted to 91%				
		of MOD AASHTO density	m³	1	R	R
11.3.6	Exca	avating and breaking down material				
	Extra	a-over items 11.3.3, 11.3.4 and 11.3.1 for				
	exca	vating and breaking down material in:				
	a)	Intermediate excavation	m³	1	R	R
	b)	Hard excavation	m³	1	R	R
	c)	Boulder excavation, Class A	m³	1	R	R
	d)	Boulder excavation, Class B	m³	1	R	R
11.3.7	Cut 1	to spoil or stockpile from				
	a)	Soft excavation	m³	1	R	R
	b)	Intermediate excavation	m³	1	R	R
	c)	Hard excavation	m³	1	R	R
	d)	Boulder excavation, Class A	m³	1	R	R
		SUBTOTAL CARRIED FORWARD				R
						R

Item	Description	Unit	Qty	Rate	Amount
	BROUGHT FROWARD				
	e) Boulder excavation, Class B	m³	1	R	R
11.3.8	Removal of oversize material	m³	1	R	R
11.3.9	Overbreak of excavation in:				
	a) Intermediate excavation	m³	1	R	R
	b) Hard excavation	m³	1	R	R
	c) Boulder excavation, Class A	m³	1	R	R
	d) Boulder excavation, Class B	m³	1	R	R
11.3.1	Materials bladed to windrow	m³	1	R	R
11.3.11	<u>Stockpile</u>				
	Extra-over items 11.3.1, 11.3.3, 11.3.4 or 11.3.1 for				
	temporary stockpiling of material	m³	1	R	R
11.3.12	<u>Overhaul</u>				
	Extra-over items 11.3.1, 11.3.3, 11.3.4, 11.3.1, 11.3.7,				
	11.3.8 or 11.3.11 for haulage beyond the 0,1 km				
	freehaul distance	m³.km	1	R	R
11.3.1.3	Surface finishes				
	a) Topsoiling	m²	1	R	R
11.3.14	Mounds, channels and mitre banks				
	Construct catchwater mounds, channels and				
	mitre banks	m³	1	R	R

Item	Description	Unit	Qty	Rate	Amount
11.3.11	Chemical stabilization extra over unstabilized				
	compacted layers :				
	a) Gravel sub-base course (11mm thick)	m³	1	R	R
	b) Gravel base course (11mm thick)	m³	1	R	R
11.3.11	Chemical Stabilizing Agent :				
	a) Ordinary Portland Cement	t	1	R	R
	b) Portland blast furnace cement	t	1	R	R
11.3.17	Provision and application of water for curing	kl	1	R	R
11.4	<u>DRAINS</u>				
11.4.1	Excavation for Open Drains				
	a) Excavate in soft material in the depth range				
	0 m up to 1,1m below surface level	m³	1	R	R
	b) Extra-over item 11.4.1a for excavation in:				
	i) Intermediate material	m³	1	R	R
	ii) Hard rock	m³	1	R	R
	SUBTOTAL CARRIED FORWARD				R

Item	Description	Unit	Qty	Rate	Amount
	BROUGHT FORWARD				R
11.4.2	Excavation for Subsoil Drainage Systems				
	a) Excavate in soft material within the following				
	depth ranges below surface level:				
	i) 0m up to 1,1m	m³	1	R	R
	ii) Exceeding 1,1m and up to 2,1m	m³	1	R	R
	iii) Exceeding 2,1m and up to 3,1m	m³	1	R	R
	b) Extra-over sub-item 11.4.2a for excavation in:				
	i) Intermediate material	m³	1	R	R
	ii) Hard rock	m³	1	R	R
11.4.3	Permeable material in subsoil drainage systems:				
	a) Coarse grade sand from approved natural				
	sources	m³	1	R	R
	b) Course aggregate				
	i) 19mm	m³	1	R	R
	ii) 40mm	m³	1	R	R
11.4.4	Synthetic fibre filter fabric, needle punched				
	a) 231 g/m²	m²	1	R	R
	b) 270 g/m²	m²	1	R	R
11.1	SEGMENTED PAVING				
11.1.1	Provision of edge restraints in class 1/19 concrete,				
	in the following cross sections:				
	a) 11 x 71mm	m	1	R	R

Item	Description	Unit	Qty	Rate	Amount
	b) 1 x 71 mm	m	1	R	R
	c) 21 x 71mm	m	1	R	R
11.1.2	Construction of grey coloured paving to SABS  118 - 1981 in the following type, class and sizes:				
11.1.2.1	Type S - A				
	a) Class 21 and thickness:				
	i) 60mm	m²	1	R	R
	ii) 80mm	m²	1	R	R
	iii) 1mm	m²	1	R	R
	b) Class 31 and thickness:				
	i) 60mm	m²	1	R	R
	ii) 80mm	m²	1	R	R
	iii) 1mm	m²	1	R	R
11.1.2.2	Type S - B				
	a) Class 21 and thickness:				
	i) 60mm	m²	1	R	R
	ii) 80mm	m²	1	R	R
	iii) 1mm	m²	1	R	R
	b) Class 31 and thickness:				
	i) 60mm	m²	1	R	
	ii) 80mm	m²	1	R	R R
	iii) 1mm	m²	1	R	R
	SUBTOTAL CARRIED FORWARD				R
					R

Item	Description	Unit	Qty	Rate	Amount
	BROUGHT FORWARD				
	BROOGHTTORWARD				
11.1.2.3	Type S - C				
	a) Class 21 and thickness:				
	i) 60mm	m²	1	R	R
	ii) 80mm	m²	1	R	R
	iii) 1mm	m²	1	R	R
11.1.3	Cutting units to fit edge restraints:				
	a) straight	m	1	R	R
	b) raked	m	1	R	R
	c) curved	m	1	R	R
11.1.4	Extra-over item 11.1.2.1, 11.1.2.2 and 11.1.2.3 for				
	rolling to locked-up condition	m²	1	R	R
11.6	KERBING				
	<u>nenomo</u>				
11.6.1	Supply, bed, lay and joint precast concrete sections,				
	in conformity with SABS 927-1969:				
11.6.1.1	Kerb of 1m length on straights				
	a) half-battered				
	i) fig 3	m	1	R	R
	ii) fig 4	m	1	R	R
	b) battered fig 6	m	1	R	R

Item		Description	Unit	Qty	Rate	Amount
	c)	mountable				
		ii) fig 7	m	1	R	R
		ii) fig 8	m	1	R	R
		iii) fig 9	m	1	R	R
11.6.1.2	<u>Kerb</u>	of 31mm length on curves:				
	a)	half-battered				
		i) fig 3	m	1	R	R
		ii) fig 4	m	1	R	R
	b)	battered fig 6	m	1	R	R
	c)	mountable				
		i) fig 7	m	1	R	R
		ii) fig 8	m	1	R	R
		iii) fig 9	m	1	R	R
11.6.1.3	<u>Edgi</u>	ngs of 1m length on straights:				
	a)	rectangular fig 1	m	1	R	R
	b)	half-round fig 11	m	1	R	R
	c)	rectangular fig 12	m	1	R	R
11.6.1.4	<u>Edgi</u>	ngs of 31mm length on curves:				
	a)	rectangular fig 1	m	1	R	R
	b)	half-round fig 11	m	1	R	R
	c)	rectangular fig 12	m	1	R	R

Item		Description	Unit	Qty	Rate	Amount
11.6.1.1	Cha	nnels of 1m length on straights :				
	a)	rectangular fig 13	m	1	R	R
	b)	tapered fig 14	m	1	R	R
11.6.1.6	Cha	nnels of 31mm length on curves:				
	a)	rectangular fig 13	m	1	R	R
	b)	tapered fig 14	m	1	R	R
11.6.2	Con	crete kerbing and channeling combined				
	a)	Cast in-situ class 21/19 of cross sectional area				
		up to 0,08 m²/m				
		i) straight	m	1	R	R
		ii) curved	m	1	R	R
	b)	Cast in-situ class 21/19 of cross sectional area				
		exceeding 0,08 m²/m up to 0,1 m²/m				
		i) straight	m	1	R	R
		ii) curved	m	1	R	R
	c)	Cast in-situ class 21/19 of cross sectional area				
		exceeding 0,1 m²/m up to 0,12 m²/m				
		i) straight	m	1	R	R
		ii) curved	m	1	R	R
	d)	Cast in-situ class 21/19 of cross sectional area				
		exceeding 0,12 m²/m up to 0,11 m²/m				
		i) straight	m	1	R	R
		ii) curved	m	1	R	R
11.7	MAF	RK-UP RATES				
11.7.1	Perd	centage mark-up on rates listed on term contracts	%		R	R
11.7.2		centage mark-up on items (with attached invoices) roved by the Employer or his representative for materials				

Item	Description	Unit	Qty	Rate	Amount
	(other than those set out in this list) used in the execution				
	Of work ordered by the employer	%		R	R
	ESTABLISHMENT OF FACILITIES				
	Tip trucks	h	1	R	R
	(a) 6 m3	h	1	R	R
	(b) 1 m3				
	Flat bed trucks	lem	1	R	R
	(a) 1t	km			
	(b) 7t	km	1	R	R
	LDV				
	(a) 2 x 4WD	km	1		R
	(b) 4 x 4WD	km	1	R	R
	TOTAL SCHEDULE 1 CARRIED FORWARD TO SUMMARY			R	

## SCHEDULE 11: SECURITY FENCING

**SCHEDULE 11** 

Item	Description	Unit	Qty	Rate	Amount
16.	SECURITY FENCING AND THE SUPPLY OF ALL MATERIAL				
16.1	SITE CLEARING				
16.1.1	Clear and grub the fence line, a 2m wide strip	km	1	R	R
16.1.2	Take down existing fences				
	a) stockproof fence	km	1	R	R
	b) security fence	km	1	R	R

Item	Description	Unit	Qty	Rate	Amount
16.1.3	Transport materials and debris to unspecified sites				
	and dump	m³.km	1	R	R
	a) 2mm dia mild steel	km	1	R	R
	b) 4mm dia mild steel	km	1	R	R
	c) 2mm dia high tensile steel	km	1	R	R
16.3.3	Zinc coated diamond mesh (to SABS CKS 229);				
	2,1mm dia mild steel with 1 mesh and 1,8m width				
	with bottom end barbed and top end open	km	1	R	R
16.3.4	Corner and gate posts in 88mm diameter pipe section				
	having a 3mm wall thickness				
	a) hot dip galvanised	no	1	R	R
	b) painted	no	1	R	R
	OUDTOTAL CARRIED FORWARD				
	SUBTOTAL CARRIED FORWARD				R
	BROUGHT FORWARD				R
16.1.2	Zinc coated smooth wire to SABS 671				
	a) 2mm dia mild steel	km	1	R	R
	b) 4mm dia mild steel	km	1	R	R
	c) 2mm dia high tensile steel	km	1	R	R
16.1.3	Zinc coated diamond mesh (to SABS CKS 229);				
	2,1mm dia mild steel with 1 mesh and 1,8m width				
	with bottom end barbed and top end open	km	1	R	R

Item	Description	Unit	Qty	Rate	Amount
16.1.4	Corner and gate posts in 114mm diameter pipe section				
	having a 3,6mm wall thickness				
	a) hot dip galvanised	no	1	R	R
	b) painted	no	1	R	R
16.1.1	Straining posts in 114mm diameter pipe section				
	having a 3,6mm wall thickness				
	a) hot dip galvanised	no	1	R	R
	b) painted	no	1	R	R
16.1.6	Intermediate posts in 88mm diameter pipe section having a 3,21mm wall thickness				
	a) hot dip galvanised	no	1	R	R
	b) painted	no	1	R	R
	SUBTOTAL			R	
	TOTAL SCHEDULE 11 CARRIED FORWARD TO SUMMA			R	

Item No	Description	Unit	Qty	Rate	Amount
17.	PUMPHOUSE INSTALALTION FOR BOREHOLES				
17.1	SITE CLEARANCE				
17.1.1	Clear and grub site	m <sup>2</sup>	1	R	R
17.1.2	Remove and grub large trees and stumps of girth:				
	(a) Over 1 m and up to and including 2 m	no	1	R	R
	(b) Over 2 m and up to and including 3 m	no	1	R	R
17.1.3	Reclear surfaces (only on instructions from the Engineer)	m²	1	R	R
17.1.4	Take down existing fences				
	(a) Stockproof fence	m	1	R	R
	(b) Security fence	m	1	R	R
17.1.1	Dismantle and remove pipelines with internal diameter up to 11 mm	m	1	R	R
17.1.6	Demolish and remove concrete structures:				
	(a) Unreinforced	m <sup>3</sup>	1	R	R
	(b) Reinforced	m <sup>3</sup>	1	R	R
17.1.7	Transport materials and debris to unspecified sites and dump	m³/k m	1	R	R
17.2	EARTHWORKS (SMALL WORKS)				
17.2.1	Restricted excavation				
	(a) Excavate for restricted foundations, footings and trenches in all materials and use for backfill or dispose.	m³	1	R	R

Item No	Description	Unit	Qty	Rate	Amount
	(b) Extra-over item 18.2.1a for:				
	(i) intermediate excavation	m <sup>3</sup>	1	R	R
	(ii) hard rock excavation	m <sup>3</sup>	1	R	R
17.2.2	Overhaul				
	(a) Limited overhaul	m³/k m	1	R	R
	(b) Long overhaul	m³/k m	1	R	R
17.2.3	Importing of materials from borrow pits	m <sup>3</sup>	1	R	R
17.2.4	Topsoiling	m²	1	R	R
17.3	CONCRETE (ORDINARY BUILDINGS)				
17.3.1	Formwork				
17.3.1.1	(a) Rough				
	(i) Horizontal	m <sup>2</sup>	1	R	R
	(ii) Vertical	m <sup>2</sup>	1	R	R
	(b) Normal				
	(i) Horizontal	m <sup>2</sup>	1	R	R
	(ii) Vertical	m <sup>2</sup>	1	R	R
	(c) Special smooth, rubbed				
	(i) Horizontal	m <sup>2</sup>	1	R	R
	(ii) Vertical	m <sup>2</sup>	1	R	R
17.3.1.2	Narrow widths				
	(a) Up to 1 mm	m	1	R	R

Item No	Description	Unit	Qty	Rate	Amount
	(b) Exceeding 1 mm up to and including 600 mm	m	1	R	R
17.3.2	Reinforcement				
	(a) Mild steel bars	t	1	R	R
	(b) High tensile steel bars	t	1	R	R
	(c) Welded mesh				
	(i) ref. 193	m²	1	R	R
	(ii) ref. 241	m²	1	R	R
	(iii) ref. 391	m²	1	R	R
17.3.3	Concrete				
17.3.3.1	Prescribed mix 1:3:6 (38)	m <sup>3</sup>	1	R	R
17.3.3.2	Strength mix (general works)				
	(a) Class 11/19	m <sup>3</sup>	1	R	R
	(b) Class 1/19	m <sup>3</sup>	1	R	R
	(c) Class 21/19	m <sup>3</sup>	1	R	R
	(d) Class 1/19	m <sup>3</sup>	1	R	R
17.3.3.3	Strength mix Class 21/19 to pumphouse floor, pump and engine foundations				
	(a) Concrete floor 1 x 1 x 11 mm	no	1	R	R
	(b) Diesel engine foundation block (including formwork and anchor bolts)				
	(i) Size 21 x 1 x 600 mm	no	1	R	R
	(ii) (Up to 1 kW max.)	no	1	R	R
	(iii) (From 6 kW to 21 kW)	no	1	R	R
	(c) Electric motor foundation block (including formwork and anchor bolts)				
	(i) Size 600 x 600 x 600 mm (up to 7 kW max.)	no	1	R	R
	(anchor bolts dia. M12 x 1 mm long)				
	(ii) Size 1 x 1 x 600 mm (from 8 kW to 22	no	1	R	R
	kW (1 anchor bolts dia M16 x 211 mm long)				

Item No	Description	Unit	Qty	Rate	Amount
17.3.3.4	Blinding lover in class 11/10 congrets and 1 mm thick	m <sup>2</sup>	1	R	R
17.3.3.4	Blinding layer in class 11/19 concrete and 1 mm thick	111-	1	K	K
17.3.3.1	Unformed concrete surface finishes				
	(a) Wood-floated finish	m2	1	R	R
	(b) Steel-floated finish	m2	1	R	R
	(c) Power-floated finish	m2	1	R	R
17.4	BRICKWORK (strecherbond)				
17.4.1	Foundation walling with clay bricks type NFX to SABS 227-1986 in:				
	(a) 21 mm walls	m²	1	R	R
	(b) 341 mm walls	m²	1	R	R
17.4.2	Walling with clay stock bricks type NFP to SABS 227-1986 in:				
	(a) 111 mm walls	m²	1	R	R
	(b) 21 mm walls	m²	1	R	R
	(c) 341 mm walls	m²	1	R	R
47.40					
17.4.3	Walling with clay face bricks to SABS 227-1986 in:				
	(a) Type FBA	2			
	(i) 111 mm walls	m <sup>2</sup>	1	R	R
	(ii) 21 mm walls	m <sup>2</sup>	1	R	R
	(b) Type FBX	2		_	
	(i) 111 mm walls	m <sup>2</sup>	1	R	R
	(ii) 21 mm walls	m <sup>2</sup>	1	R	R
	(c) Type FBS  (i) 111 mm walls	m²	1	R	D
	· ·	m² m²	1	R	R R
	(ii) 21 mm walls	1111-	1	I.V.	, n
17.4.4	Extra-over items 18.4.1, 18.4.2 and 18.4.3 for building in of miscellaneous walling materials				

Item No	Description	Unit	Qty	Rate	Amount
17.4.4.1	Brickforce in the following widths				
	(a) 71 mm	m	1	R	R
	(b) 11 mm	m	1	R	R
	(c) 221 mm	m	1	R	R
17.4.4.2	Wire ties				
	(a) Butterfly type wire tie	no	1	R	R
	(b) Modified PWD type wire tie	no	1	R	R
17.4.4.3	Mild steel (non-coiled) round bars				
	(a) 6 mm dia	m	1	R	R
	(b) 8 mm dia	m	1	R	R
17.4.4.4	Precast concrete lintels				
	(a) 11 mm wide	m	1	R	R
	(b) 221 x 1 mm cross section	m	1	R	R
	(c) 221 x 71 mm cross section	m	1	R	R
17.4.4.1	Damp proof sheeting to SABS 912-1981				
	(a) 371 micron polyolefin water proof sheeting under floor slabs and other positions instructed by the Engineer	m2	1	R	R
	(b) 371 micron polyolefin water proof sheeting in walls and window cills:				
	(i) 11 m wide	m	1	R	R
	(ii) 221 mm wide	m	1	R	R
	(iii) 371 mm wide	m	1	R	R
17.4.4.6	Soft board				
	(a) Plain				
	(i) 1 mm thick	m²	1	R	R
	(ii) 13 mm thick	m²	1	R	R
	(b) Bitumen impregnated				

Item No	Description	Unit	Qty	Rate	Amount
	(i) 1 mm thick	m <sup>2</sup>	1	R	R
17.4.4.7	Galvanised hoop iron	m	1	R	R
17.4.4.8	Galvanised wire				
	(a) 4 mm dia in 1 kg rolls	no	2	R	R
	(b) 3,11 mm dia in 1 kg rolls	no	2	R	R
17.4.1	Extra-over items 18.4.1, 18.4.2 and 18.4.3 for forming of wall joints				
	(a) 1 mm square raked joint, measured per square metre of walling	m <sup>2</sup>	1	R	R
	(b) 1 mm square raked and tooled joint, measured per square metre of walling	m <sup>2</sup>	1	R	R
	mette of waiting				
17.1	MODULAR PUMPHOUSE				
17.1.1	Remove old pumphouse and store temporarily for re-installation	no	1	R	R
17.1.2	Install removal pump house	no	1	R	R
17.1.3	Supply and install complete new modular pumphouse in	no	1	R	R
	compliance with plan nos. 121 811/97 ME and 121 816/97 ME				
				1	
17.1.4	Supply 1 mm padlock wit set of 3 keys	set	1	R	R
	(a) Small diesel engine - frame size 1 x 21 x 31 mm	set	1	R	R
	(b) Medium engines - frame size 600 x 21 x 31 mm	set	1	R	R
	(c) Large engines - frame size 1 x 21 x 61 mm	set	1	R	R
17.6	TAP STANDS				
	(a) Stand pipes - single type to Drawing No. 121 836/97 ME	no	1	R	R
	(b) Stand pipes - double type to Drawing No. 121 836/97 ME	no	1	R	R

## SCHEDULE 13: PVC STORAGE TANK INSTALLATIONS

**SCHEDULE 13** 

Item No.	Description	Unit	Qty	Rate	Amount
18.	PVC STORAGE TANK INSTALLATIONS				
18.1	SITE CLEARANCE				
18.1.1	Clear and grub site	m <sup>2</sup>	1	R	R
18.1.2	Remove and grub large trees and stumps of girth:				
	(a) Over 1 m and up to and including 2 m	no	1	R	R
	(b) Over 2 m and up to and including 3 m	no	1	R	R
18.1.3	Reclear surfaces (only on instructions from the Engineer)	m²	1	R	R
18.1.4	Dismantle and remove pipelines with internal diameter up to 11 mm	m	1	R	R
18.1.1	Demolish and remove concrete structures:				
	(a) Unreinforced	m <sup>3</sup>	1	R	R
	(b) Reinforced	m <sup>3</sup>	1	R	R
18.1.6	Transport materials and debris to unspecified sites and dumps	m <sup>3</sup> /km	1	R	R
18.2	EARTHWORKS (SMALL WORKS)				
18.2.1	Restricted excavation		1	R	R
	(a) Excavate for restricted foundations, footings, slabs and trenches in all materials and use for backfill or dispose	m <sup>3</sup>	1	R	R

Item No.	Description	Unit	Qty	Rate	Amount
	(b) Extra-over item 1.2.1a for:				
	(i) Intermediate excavation	m <sup>3</sup>	1	R	R
	(ii) Hard rock excavation	m <sup>3</sup>	1	R	R
18.2.2	Overhaul				
	(a) Limited overhaul	m³	1	R	R
	(b) Long overhaul	m³/km	1	R	R
18.2.3	Importing of materials from borrow pits	m <sup>3</sup>	1	R	R
18.2.4	Topsoiling	m <sup>2</sup>	1	R	R
18.3	CONCRETE (ORDINARY BUILDINGS)				
18.3.1	Formwork				
10011	() 2				
18.3.1.1	(a) Rough	2			
	(i) Horizontal	m <sup>2</sup>	1	R	R
	(ii) Vertical	m <sup>2</sup>	1	R	R
	//s\ Named				
	(b) Normal  (i) Horizontal	m <sup>2</sup>	1	R	R
	(i) Horizontal (ii) Vertical	m <sup>2</sup>	1	R	R
	(ii) Voluodi	""			
	(c) Special smooth, rubbed				
	(i) Horizontal	m <sup>2</sup>	1	R	R
	(ii) Vertical	m <sup>2</sup>	1	R	R
	SUBTOTAL CARRIED FORWARD				R

Amount	Rate	Qty	Unit	Description	Item No.
R				BROUGHT FORWARD	
1				Narrow widths	18.3.1.2
R	R	1	m	(a) Up to 1 mm	
R	R	1	m	(b) Exceeding 1 mm up to and including 600 mm	
				Reinforcement	18.3.2
R	R	1	t	(a) Mild steel bars	
R	R	1	t	(b) High tensile steel bars	
				(c) Welded mesh	
R	R	1	m²	(i) ref. 193	
R	R	1	m²	(ii) ref. 241	
R	R	1	m²	(iii) ref. 391	
				Concrete	18.3.3
R	R	1	m³	Prescribed mix 1:3:6 (38)	18.3.3.1
				Strength mix (general works)	18.3.3.2
R	R	1	m <sup>3</sup>	(a) Class 11/19	
R	R	1	m <sup>3</sup>	(b) Class 1/19	
R	R	1	m <sup>3</sup>	(c) Class 21/19	
R	R	1	m <sup>3</sup>	(d) Class 1/19	
				Strength mix Class 21/19, including formwork, floated surface finish and mesh reinforcement and mild steel anchors mm thick concrete slab for:	18.3.3.3
R	R	1	no	(a) One tank (2900 x 1)	
R	R	1	no	(b) two tank (2900 x 11)	
R	R	1	no	(c) three tank (2900 x 1)	
R	R	1	no	(d) four tank (2900 x 11)	
R	R	1	m <sup>2</sup>	Blinding layer in class 11/19 concrete and 1 mm thick	18.3.3.4
	R R R	1 1 1	no no no	(b) two tank (2900 x 11) (c) three tank (2900 x 1) (d) four tank (2900 x 11)	18.3.3.4

Item No.	Description	Unit	Qty	Rate	Amount
40.2.2.4	Unformed concrete surface finishes				
18.3.3.1		2			5
	(a) Wood-floated finish	m <sup>2</sup>	1	R	R
	(b) Steel-floated finish	m <sup>2</sup>	1	R	R
18.3.3.6	Brickwork (stretcherbond)				
	Foundation walling with clay bricks type NFX to SABS 227-1986 in:				
	(a) 21 mm walls	m <sup>2</sup>	1	R	R
	(b) 341 mm walls	m²	1	R	R
18.3.6	Extra-over item 1.3.1 for building in of miscellaneous walling materials:				
18.3.6.1	Brickforce in the following widths:				
	(a) 11 mm	m	1	R	R
	(b) 221 mm	m	1	R	R
18.4	Water tank (ground level installation)				
	1 000 ℓ polyethylene water tank (2980 mm high x 2 1 mm diameter) detailed as fitting "H" on plan 121 821/97 ME, supplied, installed and anchored	no	1	R	R
18.1	PIPES AND FITTINGS (ground level installation)				
	Supply, install and test the pipework and fittings installation arrangements:				
	(a) One tank	set	1	R	R
	(b) Two tank	set	1	R	R
	(c) Three tank	set	1	R	R
	(d) Four tank	set	1	R	R
	SUBTOTAL CARRIED FORWARD				R

Item No.	Description	Unit	Qty	Rate	Amount
	BROUGHT FORWARD				R
18.6	WATER TANK (elevated installation)				
	1 000 ℓ polyethylene water tank (2980 mm high x 21 mm diameter) detailed as fitting "W" on plan 121 821/97 ME, supplied, erected and anchored.	no	1	R	R
18.7	STEEL TANK STAND				
	Supply and erect elevated tank stand in accordance with plan nos.:				
	121 823/97 ME, 121 924/97 ME, 121 821/97 ME, 121 826/97 ME				
	(a) Painted	set	1	R	R
	(b) Hot dip galvanised	set	1	R	R
18.8	PIPES AND FITTINGS (elevated tank installation)				
18.8.1	Supply, install and test the pipework and fittings for the single tank installation	set	1	R	R
18.8.2	Supply, install and test the pipework and fittings for the multiple tank installation:				
	(a) Two tank arrangement	set	1	R	R
	(b) Three tank arrangement	set	1	R	R
18.9	MARK-UP RATES				
18.9.1	(a) Percentage mark-up on rates listed on term contracts	%	1	%	R
18.9.2	(b) Percentage mark-up on items approved by the client or his representative with attached invoices for material used.	%	1	%	R

Item No.	Description	Unit	Qty	Rate	Amount
	ESTABLISHMENT OF FACILITIES				
8.1					
	Tip trucks	h	1	R	R
	(a) 6 m3	h	1	R	R
	(b) 1 m3	"	· ·		
8.11					
	Flat bed trucks	km	1	R	R
	(a) 1t	km	1	R	R
	(b) 7t	KIII	'		
8.12	LDV				
		km	1	R	R
	(a) 2 x 4WD	km	1	R	R
	(b) 4 x 4WD				
	SUBTOTAL				R
		1	•		
	TOTAL SCHEDULE 13 CARRIED FORWARD T	O SUMMARY			R

Items No	Description	Unit	Qty	Rate	Amount
19.1	DAYWORKS LABOUR				
	(a) Contractor's Representative	h	1	R	R
	(b) Surveyor	h	1	R	R
	(c) Qualified Artisan				
	(i) Plumber	h	1	R	R
	(ii) Boilermaker	h	1	R	R
	(iii) Bricklayer	h	1	R	R
	(iv) Plasterer	h	1	R	R
	(v) Welder with API 114 Certificate	h	1	R	R
	(vi) Electrician	h	1	R	R
	(d) Foreman, leader-hand	h	1	R	R
	(e) Semi-skilled labourer	h	1	R	R
	(f) Labourer	h	1	R	R
	(g) Other				
	(i)	h	1	R	Rate only
	(1)				
	(ii)	h	1	R	Rate only
	V:::)	h	4	D.	Dots only
	(iii)	h	1	R	Rate only
	(iv)	h	1	R	Rate only
	(iv)	h	'		Nate Offig

Items No	Description	Unit	Qty	Rate	Amount
19.2	PLANTHIRE: WORK RATES ON SITE				
19.2.1	Crane 61 t - 80 t capacity	h	1	R	R
19.2.2	TLB 60 kW - 70 kW	h	1	R	R
19.2.3	Crawler Excavator 140 kW - 11 kW	h	1	R	R
19.2.4	Bulldozer 160 kW - 170 kW	h	1	R	R
19.2.1	Wheel loader 140 kW - 11 kW	h	1	R	R
19.2.6	Motor graders 11 kW - 160 kW	h	1	R	R
19.2.7	Wheel excavators 0,4 - 1,21 m³ bucket size	h	1	R	R
19.2.8	Wheel tractor scrapers 11,0 - 16 m <sup>3</sup>	h	1	R	R
19.2.9	Tow tractors 1 kW - 21 kW	h	1	R	R
19.2.1	(a) Water tankers 1 000 litre	h	1	R	R
	(b) Water tankers 1 000 litre	h	1	R	R
19.2.11	Dump trucks 1 - 11 m <sup>3</sup>	h	1	R	R
19.2.12	Tip trucks				
	(a) 6 m <sup>3</sup>	h	1	R	R
	(b) 1 m <sup>3</sup>	h	1	R	R
19.2.13	Flat bed trucks				
1	(a) 1t	km	1	R	R

Items No	Description	Unit	Qty	Rate	Amount
	(b) 7t	km	1	R	R
19.2.14	LDV				
	(a) 2 x 4WD	km	1	R	R
	(b) 4 x 4WD	km	1	R	R
19.2.11	Lowbed 1 ton	km	1	R	R
19.2.16	Plate compactors & tampers	h	1	R	R
19.2.17	Grid rollers. Ballasted mass 14 600 kg	h	1	R	R
19.2.17	Glid foliers. Ballasted filass 14 000 kg			K	K
19.2.18	Pneumatic tyred rollers 4 000 load/wheel kg	h	1	R	R
10.2.10	Thoundard tyrou rollolo Tood load Milosi kg	"	•		
19.2.19	Self propelled vibrating roller (smooth)				
	7 000 - 11 1 kg	h	1	R	R
19.2.1	Self propelled vibrating roller (padfoot)				
	1 900 - 12 000 kg	h	1	R	R
19.2.21	Walk-behind vibrating rollers				
	(a) 1 - 61 kg	h	1	R	R
	(b) 980 - 1 31 kg	h	1	R	R
19.2.22	Towed vibrating roller	h	1	R	R
19.2.23	Portable compressors - Diesel (9,0 - 1,0 m³/min.)	h	1	R	R
19.2.24	Concrete mixer (31 ℓ: diesel driven)	h	1	R	R

Items No	Description	Unit	Qty	Rate	Amount
19.2.21	Concrete saw (self propelled) 1 - 11 kW	h	1	R	R
19.2.26	Concrete vibrators (31 - 60 mm DN)	h	1	R	R
19.2.27	Dumpers 0,1 m <sup>3</sup> (Hydraulic tip)	h	1	R	R
19.2.28	Water pump with 80 mm DN outlet (diesel driven)	h	1	R	R
19.2.29	Arc-welding unit (1 A)	h	1	R	R
19.2.1	Generating sets				
	(a) 1,1 kVA (petrol) 21V	h	1	R	R
	(b) 1 kVA (petrol) 21V	h	1	R	R
	(c) 1 kVA (diesel) 380V - 3ph	h	1	R	R
	(d) 1 kVA (diesel) 380V - 3ph	h	1	R	R
	(e) 1 kVA (diesel) 380V - 3ph	h	1	R	R
19.3	LABOUR BASED TOOLS				
	(a) Pick	day	1	R	R
	(b) Shovel	day	1	R	R
	(c) Crowbar	day	1	R	R
	(d) Bucket (1 $\ell$ )	day	1	R	R
	(e) Wheelbarrow	day	1	R	R
19.4	Percentage mark-up on items approved by the client or representative with attached invoices for material used.	%	R1 000	11%	R
	SUBTOTAL				R
	TOTAL SCHEDULE 19 CARRIED FORWARD TO SUM	MMARY			R

Please Note: All Bid amount should include VAT

## SUMMARY OF PRICE SCHEDULES 2-13 TO BE CARRIED FORWARD TO FORM OF BID

SCHEDULE :	1 GENERAL (RATE ONLY) COMPULSORY	R
SCHEDULE	2 SMALL DIAMETER WATER SUPPLY PIPELINES	R
SCHEDULE :	3 ROADS TO WATER WORKS	R
	TOTAL SCHEDULES 2-3	R
SCHEDULE :	4 SEWER WORKS	R
SCHEDULE :	1 FILTER DRAINS: REPLACEMENT OF FILTER MEDIA	R
SCHEDULE :	6 HANDRAILING	R
SCHEDULE :	7 SEPTIC TANKS	R
SCHEDULE :	8 CIRCULAR CONCRETE RESERVOIR	R
SCHEDULE :	9 GABIONS AND PITCHING	R
SCHEDULE :	1 SEGMENTED BLOCK PAVING & KERBING	R
SCHEDULE :	12 PUMPHOUSE INSTALLATION FOR BOREHOLES	R
SCHEDULE :	13 PVC STORAGE TANK ON FLOOR, 3 METRE HIGH TANK STAND AND 6 METRE HIGH TANK STAND	R
	TOTAL SCHEDULES (4-13)	R
SCHEDULE:	DAYWORKS (RATE ONLY) Refer to "Dayworks Schedule" section 4.3: Particular specification	R
	SUB-SCHEDULE 1	R
	TOTAL SCHEDULES 2-13	R
COMPANY NAN	ЛЕ:	
	SIGNATURE:	
DATE:		

ORTDM SCMU 29-25/26 - APPOINTMENT OF A PANEL OF SERVICE PROVIDERS FOR IMPLEMENTATION OF CIVIL WORKS IN WATER SERVICES SCHEMES IN O.R. TAMBO DISTRICT MUNICIPALITY FOR 36 MONTHS (6CE-7CE) FOR EMERGENCY.

#### **SECTION 3: FORM OF OFFER AND ACCEPTANCE**

## PART 1 (OFFER TO BE COMPLETED BY THE BIDDER)

O.R. Tambo District Municipality has solicited offers to enter into the following contract:

# ORTDM SCMU ---25/26: APPOINTMENT OF A PANEL OF SERVICE PROVIDERS FOR IMPLEMENTATION OF CIVIL WORKS IN WATER SERVICES SCHEMES IN O.R. TAMBO DISTRICT MUNICIPALITY FOR 36 MONTHS (3 YEARS)

- I, the Bidder, hereby undertake to supply and deliver all or any of the goods and/or works described in the attached bidding documents to O.R. Tambo District Municipality in accordance with the requirements and specifications stipulated in bid number ORTDM SCMU -- -25/26, at the price/s quoted. My offer/s shall remain binding upon me and open for acceptance by the Municipality during the validity period indicated and calculated from the closing time of bid.
- 3. The following documents shall be deemed to form and be read and construed as part of this Agreement:
  - (i) This Bid document, namely -
    - The Scope of Work;
    - The Pricing Schedule;
    - This Form of Offer & Acceptance;
  - (ii) Bidder's Tender Proposal;
  - (iii) The General Conditions of Contract;
  - (iv) The Special Conditions of Contract (if any);
  - (v) Service Level Agreement concluded by the appointed bidder and the Municipality (if any).
- 4. 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.
- 5. 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.
- 6. I declare that I have no participation in any collusive practices with any bidder or any other person regarding this or any other bid.
- 7. I confirm that I am duly authorized to sign this contract.

he TOTAL BID PRICE inclusive of value-added tax (where applicable) is
Rand
in words); R(in figures)

This offer may be accepted by the authorized O.R. Tambo District Municipality representative 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 conditions, whereupon the tenderer becomes the party named as the appointed service provider in terms of the conditions of contract.

NAME (PRINT)	
IVAIVIE (I IXIIVI)	 WITNESSES:
CAPACITY	 1
SIGNATURE	 2
NAME OF FIRM	 DATE
DATE	 DATE

FAILURE BY THE BIDDER TO COMPLETE THIS FORM IN ITS ENTIRETY INCLUDING SIGNING THE FORM, SHALL DISQUALIFY ITS BID.

# PART 2 (ACCEPTANCE TO BE COMPLETED BY O.R. TAMBO DISTRICT MUNICIPALITY)

By signing this part of the form of offer and acceptance, the Municipality accepts the bidder's offer. In consideration thereof, the Municipality shall pay the appointed supplier the amount due in accordance with PART 1 of this offer and acceptance. Acceptance of the bidder's offer shall form an agreement between O.R. Tambo District Municipality and the bidder upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

1.			S		
	accept your bid under reference number datedfor the supply of the goods and/or 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 services rendered in accordance with the terms and conditions of the contract, within 30 (thirty) days after receipt of an invoice.				
4. I confirm that I am duly authorised to sign this contract.					
SIG	NED AT	ON			
NAI	ME (PRINT)				
SIG	NATURE				
OFFICIAL STAMP			WITNESSES 1		
			2		
			DATE:		

# **SECTION 4: SCHEDULE OF VARIATIONS TO THE BID**

Should the Bidder wish to make any departure from or modification to the conditions of contract, specifications, pricing schedule, quantities, drawings or to qualify the bid in any way, he/she shall indicate the proposals clearly hereunder.

SECTION	PAGE	VARIATION: CLAUSE OR ITEM	

SIGNATURE OF BIDDER:						
DATE:						

## **SECTION 5: GENERAL CONDITIONS OF CONTRACT**

The contract between the Municipality and the appointed bidder will be administered in terms of the **General Conditions of Contract 2010 (National Treasury)**.

# GOVERNMENT PROCUREMENT: GENERAL CONDITIONS OF CONTRACT July 2010

#### **NOTES**

The purpose of this document is to:

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

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

#### **General Conditions of Contract**

#### 1. Definitions

The following terms shall be interpreted as indicated:

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

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

## 2. Application

- 2.1 These general conditions are applicable to all bids, contracts and orders including bids for functional and professional services, sales, hiring, letting and the granting or acquiring of rights, but excluding immovable property, unless otherwise indicated in the bidding documents.
- 2.2 Where applicable, special conditions of contract are also laid down to cover specific supplies, services or works.
- 2.3 Where such special conditions of contract are in conflict with these general conditions, the special conditions shall apply.

#### 3. General

- 3.1 Unless otherwise indicated in the bidding documents, the purchaser shall not be liable for any expense incurred in the preparation and submission of a bid. Where applicable a non-refundable fee for documents may be charged.
- 3.2 With certain exceptions, invitations to bid are only published in the Government Tender Bulletin. The Government Tender Bulletin may be obtained directly from the Government Printer, Private Bag X85, Pretoria 0001, or accessed electronically from <a href="https://www.treasury.gov.za">www.treasury.gov.za</a>

#### 4. Standards

4.1 The goods supplied shall conform to the standards mentioned in the bidding documents and specifications.

#### 5. Use of Contract Documents and information; inspection.

- 5.1 The supplier shall not, without the purchaser's prior written consent disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the purchaser in connection therewith, to any person other than a person employed by the supplier in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
- 5.2 The supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC clause 5.1 except for purposes of performing the contract.
- 5.3 Any document, other than the contract itself mentioned in GCC clause 5.1 shall remain the property of the purchaser and shall be returned (all copies) to the purchaser on completion of the supplier's performance under the contract if so required by the purchaser.
- 5.4 The supplier shall permit the purchaser to inspect the supplier's records relating to the performance of the supplier and to have them audited by auditors appointed by the purchaser, if so required by the purchaser.

## 6. Patent rights

6.1 The supplier shall indemnify the purchaser against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the goods or any part thereof by the purchaser.

#### 7. Performance Security

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

## 8. Inspections, tests and analyses

- 8.1 All pre-bidding testing will be for the account of the bidder.
- 8.2 If it is a bid condition that supplies to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder

- or contractor shall be open, at all reasonable hours, for inspection by a representative of the Department or an organization acting on behalf of the Department.
- 8.3 If there are no inspection requirements indicated in the bidding documents and no mention is made in the contract, but during the contract period it is decided that inspections shall be carried out, the purchaser shall itself make the necessary arrangements, including payment arrangements with the testing authority concerned.
- 8.4 If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the supplies to be in accordance with the contract requirements, the cost of the inspections, tests and analyses shall be defrayed by the purchaser.
- 8.5 Where the supplies or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such supplies or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.
- 8.6 Supplies and services which are referred to in clauses 8.2 and 8.3 and which do not comply with the contract requirements may be rejected.
- 8.7 Any contract supplies may on or after delivery be inspected, tested or analyzed and may be rejected if found not to comply with the requirements of the contract. Such rejected supplies shall be held at the cost and risk of the supplier who shall, when called upon, remove them immediately at his own cost and forthwith substitute them with supplies which do comply with the requirements of the contract. Failing such removal the rejected supplies shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute supplies forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected supplies, purchase such supplies as may be necessary at the expense of the supplier.
- 8.8 The provisions of clauses 8.4 to 8.7 shall not prejudice the right of the purchaser to cancel the contract on account of a breach of the conditions thereof, or to act in terms of Clause 23 of GCC.

## 9. Packing

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

## 10. Delivery and documents

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

#### 11. Insurance

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

## 12. Transportation

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

#### 13. Incidental Services

- 13.1 The supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:
  - (a) performance or supervision of on-site assembly and/or commissioning of the supplied goods;
  - (b) furnishing of tools required for assembly and/or maintenance of the supplied goods;
  - furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;
  - (d) performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed by the parties, provided that this service shall not relieve the supplier of any warranty obligations under this contract; and
  - (e) training of the purchaser's personnel, at the supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied goods.
- 13.2 Prices charged by the supplier for incidental services, if not included in the contract price for the goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier for similar services.

#### 14. Spare parts

- 14.1 As specified in SCC, the supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the supplier:
  - (a) such spare parts as the purchaser may elect to purchase from the supplier, provided that this election shall not relieve the supplier of any warranty obligations under the contract; and
  - (b) in the event of termination of production of the spare parts:
    - (i) Advance notification to the purchaser of the pending termination, in sufficient time to permit the purchaser to procure needed requirements; and
    - (ii) following such termination, furnishing at no cost to the purchaser, the blueprints, drawings, and specifications of the spare parts, if requested.

## 15. Warranty

- 15.1 The supplier warrants that the goods supplied under the contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that all goods supplied under this contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the purchaser's specifications) or from any act or omission of the supplier, that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination.
- 15.2 This warranty shall remain valid for twelve (12) months after the goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the contract, or for eighteen (18) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in SCC.

- 15.3 The purchaser shall promptly notify the supplier in writing of any claims arising under this warranty.
- 15.4 Upon receipt of such notice, the supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective goods or parts thereof, without costs to the purchaser.
- 15.5 If the supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchaser may have against the supplier under the contract.

## 16. Payment

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

#### 17. Prices

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

#### 18. Contract Amendments

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

## 19. Assignment

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

#### 20. Subcontracts

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

## 21. Delays in the supplier's performance

- 21.1 Delivery of the goods and performance of services shall be made by the supplier in accordance with the time schedule prescribed by the purchaser in the contract.
- 21.2 If at any time during performance of the contract, the supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the parties by amendment of contract.

- 21.3 No provision in a contract shall be deemed to prohibit the obtaining of supplies or services from a national department, provincial department, or a local authority.
- 21.4 The right is reserved to procure outside of the contract small quantities or to have minor essential services executed if an emergency arises, the supplier's point of supply is not situated at or near the place where the supplies are required, or the supplier's services are not readily available.
- 21.5 Except as provided under GCC Clause 25, a delay by the supplier in the performance of its delivery obligations shall render the supplier liable to the imposition of penalties, pursuant to GCC Clause 22, unless an extension of time is agreed upon pursuant to GCC Clause 21.2 without the application of penalties.
- 21.6 Upon any delay beyond the delivery period in the case of a supplies contract, the purchaser shall, without canceling the contract, be entitled to purchase supplies of a similar quality and up to the same quantity in substitution of the goods not supplied in conformity with the contract and to return any goods delivered later at the supplier's expense and risk, or to cancel the contract and buy such goods as may be required to complete the contract and without prejudice to his other rights, be entitled to claim damages from the supplier.

#### 22. Penalties

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

#### 23. Termination for default

- 23.1 The purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, may terminate this contract in whole or in part:
  - (a) if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC Clause 21.2:
  - (b) if the Supplier fails to perform any other obligation(s) under the contract; or
  - (c) if the supplier, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.
- 23.2 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner as it deems appropriate, goods, works or services similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar goods, works or services. However, the supplier shall continue performance of the contract to the extent not terminated.
- 23.3 Where the purchaser terminates the contract in whole or in part, the purchaser may decide to impose a restriction penalty on the supplier by prohibiting such supplier from doing business with the public sector for a period not exceeding 10 years.
- 23.4 If a purchaser intends imposing a restriction on a supplier or any person associated with the supplier, the supplier will be allowed a time period of not more than fourteen (14) days to provide reasons why the envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated fourteen (14) days the purchaser may regard the intended penalty as not objected against and may impose it on the supplier.
- 23.5 Any restriction imposed on any person by the Accounting Officer / Authority will, at the discretion

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

- 23.6 If a restriction is imposed, the purchaser must, within five (5) working days of such imposition, furnish the National Treasury, with the following information:
  - (i) the name and address of the supplier and / or person restricted by the purchaser;
  - (ii) the date of commencement of the restriction;
  - (iii) the period of restriction; and
  - (iv) the reasons for the restriction.

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

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

## 24. Anti-dumping and countervailing duties and rights

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

## 25. Force Majeure

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

## 26. Termination for insolvency

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

## 27. Settlement of Disputes

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

## 28. Limitation of liability

- 28.1 Except in cases of criminal negligence or willful misconduct, and in the case infringement pursuant to Clause 6:
  - (a) the supplier shall not be liable to the purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profitsor interest costs, provided that this exclusion shall not apply to any obligation of the supplier to pay penalties and/or damages to the purchaser; and
  - (b) the aggregate liability of the supplier to the purchaser, whether under the contract, in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

#### 29. Governing Language

29.1 The contract shall be written in English. All correspondence and other documents pertaining to the contract that is exchanged by the parties shall also be written in English.

#### 30. Applicable Law

30.1 The contract shall be interpreted in accordance with South African laws, unless otherwise specified in SCC.

# 31. Notices

- 31.1 Every written acceptance of a bid shall be posted to the supplier concerned by registered or certified mail and any other notice to him shall be posted by ordinary mail to the address furnished in his bid or to the address notified later by him in writing and such posting shall be deemed to be proper service of such notice.
- 31.2 The time mentioned in the contract documents for performing any act after such aforesaid notice has been given, shall be reckoned from the date of posting of such notice.

#### 32. Taxes and duties

- 32.1 A foreign supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the purchaser's country.
- 32.2 A local supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted goods to the purchaser.
- 32.3 No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid the Department must be in possession of a tax clearance certificate, submitted by the bidder. This certificate must be an original issued by the South African Revenue Services.

## 33. National Industrial Participation (NIP) Programme

33.1 The NIP Programme administered by the Department of Trade and Industry shall be applicable to all contracts that are subject to the NIP obligation.

## 34 Prohibition of Restrictive practices

- 34.1 In terms of section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, an agreement between, or concerted practice by, firms, or a decision by an association of firms, is prohibited if it is between parties in a horizontal relationship and if a bidder (s) is / are or a contractor(s) was / were involved in collusive bidding (or bid rigging).
- 34.2 If a bidder(s) or contractor(s), based on reasonable grounds or evidence obtained by the purchaser, has / have engaged in the restrictive practice referred to above, the purchaser may refer the matter to the Competition Commission for investigation and possible imposition of administrative penalties as contemplated in the Competition Act No. 89 of 1998.
- 34.3 If a bidder(s) or contractor(s), has / have been found guilty by the Competition Commission of the restrictive practice referred to above, the purchaser may, in addition and without prejudice to any other remedy provided for, invalidate the bid(s) for such item(s) offered, and / or terminate the contract in whole or part, and / or restrict the bidder(s) or contractor(s) from conducting business with the public sector for a period not exceeding ten (10) years and / or claim damages from the bidder(s) or contractor(s) concerned.

-End-