



agriculture

Department:
Agriculture
PROVINCE OF THE EASTERN CAPE

BID DOCUMENT

SUPPLY, DELIVERY AND INSTALLATION OF A 11 HA SOLIDSET SPRINKLER IRRIGATION AT VIVI AM PROJECT FARM IN THE MHLONTLO LM OR TAMBO DISTRICT

LOCATION: MDENI VILLAGE, QUMBU

SCMU8-25/26-0024

Directorate: Supply Chain Management Assistant Director: Acquisition	Directorate: Engineering Services Chief Engineer
Department of Agriculture OR Tambo District Private Bag X5002 Mthatha, 5099	Department of Agriculture OR Tambo District Private Bag X5002 Mthatha, 5099
Contact: Name: Ms. N. Futshane Telephone: 047 502 7835/ 081 035 0379	Contact: Name: Mr. M Kondlo Telephone: 047 502 7704 / 083 265 3437
Tenderer:	
CSD Number:	
LOGIS Number:	
Preference Points Claimed:	
Closing date on tender: 08 April 2025 at 11:00am	
Total of the prices inclusive of applicable taxes: R	

The Tender

EASTERN CAPE PROVINCIAL GOVERNMENT

DEPARTMENT OF AGRICULTURE

THE SUPPLY, DELIVERY AND INSTALLATION OF A 11 HA SOLIDSET
SPRINKLER IRRIGATION AT VIVI AM PROJECT FARM IN THE MHLONTLO LM
OF THE OR TAMBO DISTRICT

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PART T1: TENDERING PROCEDURES

EASTERN CAPE PROVINCIAL GOVERNMENT

DEPARTMENT OF AGRICULTURE

THE SUPPLY, DELIVERY AND INSTALLATION OF A 11 HA SOLIDSET SPRINKLER IRRIGATION AT VIVI AM PROJECT FARM IN THE MHLONTLO LM OF THE OR TAMBO DISTRICT

T1.1 Tender Notice and Invitation to Tender

1.	<p>The Department of AGRICULTURE, Eastern Cape Provincial Government, invites tenders for THE SUPPLY, DELIVERY AND INSTALLATION OF A 11 HA SOLIDSET SPRINKLER IRRIGATION AT VIVI AM PROJECT FARM IN THE MHLONTLO LM OF THE OR TAMBO DISTRICT</p> <p>Solidset Irrigation System:</p> <ul style="list-style-type: none"> • Pegging for laterals and mainline • Excavation and trenching for mainline and sub-main lines • Supply, delivery and installation of mainline, sub-main lines and sprinklers. • Supply, delivery and installation of electrical pump and motor • Demonstration of irrigation system <p>Time of completion for this contract is 18 Weeks</p>										
2.	<p>All tenderers must submit proof of valid registration with the CIDB in a CE class of construction works: It is estimated that tenderers must have a CIDB designation of level 3 CE or higher. Bidders exceeding their threshold of CIDB grading by more than 15% in combination with any other contract awarded to the contractor, which will be executed simultaneously, could be regarded as non-responsive.</p>										
3.	<p>Tender documents will be available during working hours after 08:00 as of 14 March 2025 until the day before the tenders close and can be downloaded free of charge from the Departmental website (www.drda.gov.za) or https://etenders.treasury.gov.za/.</p>										
4.	<p>A compulsory site inspection and clarification meeting will be held on 28 March 2025 at 10:00am at Agricultural Offices, Qumbu, After the Clarification, meeting the prospective tenderers will be taken to the site to familiarize themselves with the conditions of the roads and site. No documents will be sold at the site inspection meeting. No late attendance will be entertained.</p>										
5.	<p>The completed tender document and any supporting documentation shall be placed in a single sealed envelope clearly marked “CONTRACT NO: SCMU8-25/26-0024: THE SUPPLY, DELIVERY AND INSTALLATION OF A 11 HA SOLIDSET SPRINKLER IRRIGATION AT VIVI AM PROJECT FARM IN THE MHLONTLO LM OF THE OR TAMBO DISTRICT” and deposited in the tender box at: THE DEPARTMENT OF AGRICULTURE, 4TH FLOOR OFFICE 17, BOTHA SIGCAU BUILDING, MTHATHA, 5099, SCM OFFICES not later than 11:00 on 08 April 2025 when the tender box will close. Tenderers should ensure that tender documents are delivered timeously to the correct address. If the tender is late, it will not be accepted for consideration.</p>										
6.	<p>Tenders will be opened in public immediately after closing time where the name of the tenderer, the financial offer, preference points claimed and proposed period for completion will be read aloud.</p>										
7.	<p>All submitted certificates must be valid for 90 days after the Tender Closing Date</p>										
8.	<p>In terms of Preferential Procurement Regulation of 2022, the 80/20 preference point system is applicable</p>										
9.	<p>The Department is targeting specific goals in accordance to the Supply Chain Management Policy 2023 with reference to the Preferential Procurement Regulations 2022 The tenderers must submit verification documentation in proof of the preferential points claimed on SDB 6.1, according to table below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">No</th> <th style="text-align: center;">Specific Goals</th> <th style="text-align: center;">Preference Points allocated out of the 20</th> <th style="text-align: center;">Documentation to be submitted by bidders to validate their claim for points</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>An EME or QSE which is at least 51% owned by black people</td> <td style="text-align: center;">5</td> <td> <ul style="list-style-type: none"> • ID Copy • CIPC (Company registration)' • CSD report (the ownership status of the 2 documents must correspond in order to be awarded points) </td> </tr> </tbody> </table>			No	Specific Goals	Preference Points allocated out of the 20	Documentation to be submitted by bidders to validate their claim for points	1	An EME or QSE which is at least 51% owned by black people	5	<ul style="list-style-type: none"> • ID Copy • CIPC (Company registration)' • CSD report (the ownership status of the 2 documents must correspond in order to be awarded points)
No	Specific Goals	Preference Points allocated out of the 20	Documentation to be submitted by bidders to validate their claim for points								
1	An EME or QSE which is at least 51% owned by black people	5	<ul style="list-style-type: none"> • ID Copy • CIPC (Company registration)' • CSD report (the ownership status of the 2 documents must correspond in order to be awarded points) 								

	2	Located in the Province where the services will be rendered/ item delivered.	2	<ul style="list-style-type: none"> • Municipal rates account OR • Letter from councilor confirming residence OR • Lease Agreement
	3	An EME or QSE which is at least 51% owned by women	7	<ul style="list-style-type: none"> • ID Copy • CIPC (Company registration)' • CSD report (the ownership status of the 2 documents must correspond in order to be awarded points)
	4	An EME or QSE which is at least 51% owned by youth (up to 35 years of age)	4	<ul style="list-style-type: none"> • ID Copy • CIPC (Company registration)' • CSD report (the ownership status of the 2 documents must correspond in order to be awarded points)
	5	An EME or QSE which is at least 51% owned by people with disability	2	<ul style="list-style-type: none"> • ID Copy • CIPC (Company registration) • CSD report (the ownership status of the 2 documents must correspond in order to be awarded points) • Medical certificate • SASSA registration or confirmation of disability from a relevant authority.
A trust, consortium or joint venture must obtain and submit documented proof for each party of such trust, consortium or joint venture.				
10.	<p>All tenderers must be registered on the National Treasury Centralized Suppliers Data Base, the CIDB before the closing date of tenders and provide the information.</p> <p>Invalid or non-submission of the following documents will render the Bidder disqualified:</p> <ul style="list-style-type: none"> ➤ Tax compliance status and company directors of bidders will be verified on <u>CSD</u> for all price quotations and bids. <u>Therefore, Hard copies of Tax Certificate are no more required.</u> ➤ CK documents must be attached in the bid. ➤ Copy of 3 CIDB contractor grading certificate ➤ JV Agreement (if Applicable) ➤ Proof of CSD registration (active & recently updated) ➤ Company/Contractor Registration with SABI 			
11.	Part of the works cannot be sub contracted without prior approval from the Engineer.			
12.	The tender with the lowest price or any tender offer will not necessarily be accepted.			
13.	For a project to the value of R 3.0 million and more, a Bidder/Contractor who is not from the Eastern Cape Province, must sub-contract 25% of the contract value to a Bidder/Contractor within the Eastern Cape Province.			
14.	All tenders must be submitted on the official forms – (not to be re-typed). Telephonic, telegraphic, e-mail or facsimile will not be accepted.			
15.	Failure to supply all supplementary information, certificates and documentation may result in the tender being rendered non-responsive.			
16.	This tender is subject to the General Conditions of Contract (GCC 2015) and, if applicable, any other Special Conditions of Contract (SCC).			
17.	Bidders must submit in terms of point 15 above, the following with the bid submission: <ul style="list-style-type: none"> i) CIDB certificate of the subcontractor(s). ii) Proof of the CSD registration of the subcontractor(s). iii) Provide details of which items in the bill of quantities will be part of the subcontracting agreement. 			
18.	NB: Bidders should note that this forms part of a batch of tenders included into the DOA infrastructure program within the Eastern Cape; the employer reserves the right not to award more than TWO projects to be executed simultaneously within the province. The department as a procuring entity will conduct a risk assessment based on amounts and nature of the commodity for the final decision vs the bidder's capacity.			
19.	Administrative enquiries should be directed to: Ms.N. Futshane Tel: 047 502 7835/083 035 0379 Email: Nosive.Futshane@ecagriculture.gov.za			
20.	Technical enquiries should be directed to: Mr. S. Makalima Tel: 047 502 7864 / 083 262 2636 Email: Siviwe.Makalima@ecagriculture.gov.za			

**PART A
INVITATION TO BID**

SBD 1

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NAME OF DEPARTMENT/PUBLIC ENTITY)					
BID NUMBER:	SCMU8-25/26-0024	CLOSING DATE:	08 April 2025	CLOSING TIME:	11:00
DESCRIPTION	THE SUPPLY, DELIVERY AND INSTALLATION OF A 11 HA SOLIDSET SPRINKLER IRRIGATION AT VIVI AM PROJECT FARM IN THE MHLONTLO LM OF THE OR TAMBO DISTRICT				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)					
DEPARTMENT OF AGRICULTURE					
SUPPLY CHAIN MANAGEMENT OFFICES, 4th FLOOR OFFICE 17, BOTHA SIGCAU BUILDING					
MTHATHS, 5099					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO			TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON	Ms. N. Futshane		CONTACT PERSON	Mr. S. Makalima	
TELEPHONE NUMBER	047 502 7835/083 035 0379		TELEPHONE NUMBER	083 262 2636	
FACSIMILE NUMBER			FACSIMILE NUMBER		
E-MAIL ADDRESS	Nosive.Futshane@drdar.gov.za		E-MAIL ADDRESS	Siviwe.Makalima@drdar.gov.za	
SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELL PHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No:	MAAA _____
SPECIFIC GOALS CLAIMED	TICK APPLICABLE BOX] <input type="checkbox"/> Yes <input type="checkbox"/> No		ALL SUPPORTING DOCUMENTATION FOR THE GOALS CLAIMED ATTACHED	[TICK APPLICABLE BOX] <input type="checkbox"/> Yes <input type="checkbox"/> No	
[ALL DOCUMENTATION REQUIRED FOR THE CLAIM OF PREFERENCE POINTS AS PER THE SPECIFIC GOALS DETAILED IN THE EVALUATION CRITERIA.]					
1.1 ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]		1.2 ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER PART B:3]	
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS					
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?			<input type="checkbox"/> YES	<input type="checkbox"/> NO	
DOES THE ENTITY HAVE A BRANCH IN THE RSA?			<input type="checkbox"/> YES	<input type="checkbox"/> NO	
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?			<input type="checkbox"/> YES	<input type="checkbox"/> NO	
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?			<input type="checkbox"/> YES	<input type="checkbox"/> NO	
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?			<input type="checkbox"/> YES	<input type="checkbox"/> NO	
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.					

**PART B
TERMS AND CONDITIONS FOR BIDDING**

1. BID SUBMISSION:
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED (NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.
1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
1.4. THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).

2. TAX COMPLIANCE REQUIREMENTS
2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

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

SIGNATURE OF BIDDER:
.....

CAPACITY UNDER WHICH THIS BID IS SIGNED:
.....
(Proof of authority must be submitted e.g. company resolution)

DATE:
.....

T 1.2

Tender Data

EASTERN CAPE PROVINCIAL GOVERNMENT

DEPARTMENT OF AGRICULTURE

THE SUPPLY, DELIVERY AND INSTALLATION OF A 11 HA SOLIDSET SPRINKLER IRRIGATION AT VIVI AM PROJECT FARM IN THE MHLONTLO LM OF THE OR TAMBO DISTRICT

T1.2 Tender Data

The conditions of tender are the Standard Conditions of Tender as contained in Annex C of the CIDB Standard for Uniformity in Construction Procurement (August 2019). (See www.cidb.org.za).

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

The additional conditions of tender are:

Clause number	Tender Data
C.1.1	The employer is the Department of AGRICULTURE, Eastern Cape Provincial Government.
C.1.2	The tender documents issued by the employer comprise: <ul style="list-style-type: none">T1.1 Tender notice and invitation to tenderT1.2 Tender dataT2.1 List of returnable documents <p>Part 1: Agreements and contract data</p> <ul style="list-style-type: none">C1.1 Form of offer and acceptanceC1.2 Contract dataC1.3 Form of GuaranteeC1.4 Adjudicator's Contract <p>Part 2: Pricing data</p> <ul style="list-style-type: none">C2.1 Pricing instructionsC2.2 Activity schedules / Bills of Quantities <p>Part 3: Scope of work</p> <ul style="list-style-type: none">C3.1 Scope of workC3.2 Specifications <p>Part 4: Site information</p> <ul style="list-style-type: none">C4.1 Site informationC4.2 Drawings

Additional documents of which the Contractor are to obtain their own copies are:

“General Conditions of Contract for Construction Works – 3rd Edition 2015”.

This document is issued by the South African Institution of Civil Engineering. (Short title “General Conditions of Contract for Construction Works 2015”), and is obtainable separately. Tenderers shall obtain their own copies.

“South African National Standards”.

These documents are obtainable separately, and tenderers shall obtain their own copies of the applicable sections.

“The Occupational Health and Safety Act No 85 of 1993 and Amendment Act No 181 of 1993, and the Construction Regulations 2014”.

This document is obtainable separately, and tenderers shall obtain their own copies.

In addition, tenderers are advised, in their own interest, to obtain their own copies of the following acts, regulations and standards referred to in this document as they are essential for the tenderer to get acquainted with the basics of construction management, the implementation of preferential construction procurement policies and participation of targeted enterprise and labour.

The Construction Industry Development Board Act No 38 of 2000 and the Regulations in terms of the CIDB Act 38/2000, Government Notice No 692 of 9 June 2004,

SANS 1921:2004 Construction and Management

Part 1: General Engineering and Construction Works;
Part 6: HIV/AIDS Awareness.

SANS 10396:2003 Implementing Preferential Construction Procurement Policies using Targeted Procurement Procedures

SANS 1914:2003 Targeted Construction Procurement, Parts 1 to 6, dealing with Participation of Targeted Enterprises, Joint Ventures, Targeted Labour etc.

The Department of AGRICULTURE Procurement Policy.

The Tender Document and the drawings shall be obtained from the Employer or his authorized representative at the physical address stated in the Tender Notice, upon payment of the deposit stated in the Tender Notice.

Clause	Data
C.1.4	The employer’s agent is: S Makalima 047 502 7864/083 262 2636 Siviwe.Makalima@drdar.gov.za
C.2.1	Only those tenderers who are registered with the CIDB, or are capable of being so prior to the evaluation of submissions, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations for a 3CE/SH class of construction work, are eligible to have their tenders evaluated. Bidders exceeding the threshold of CIDB grade 3 in combination with any other contract awarded to the contractor which will be executed simultaneously could be regarded as non-responsive. Joint ventures are eligible to submit tenders provided that: 1. every member of the joint venture is registered with the CIDB. 2. the lead partner has a contractor grading designation in the 3 CE class of construction work; and 3. the combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a 3 CE class of construction work or a

	value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations.
C.2.2	The employer <u>will not</u> compensate the tenderer for any costs incurred during the tender process.
C.2.7	The arrangements for a clarification meeting are as stated in the Tender Notice and Invitation to Tender.
C.2.13.2	<p>Submit one original document completed in black ink.</p> <p>The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender.</p> <p>Ensure that the employer receives the tender offer at the address specified in the tender data not later than the closing time stated in the tender data. Proof of posting shall not be accepted as proof of delivery.</p> <p>Accept that, if the employer extends the closing time stated in the tender data for any reason, the requirements of the standard conditions of tender in this part of SANS 10845 apply equally to the extended deadline.</p>
C.2.13.5	<p>The employer's address for delivery of tender offers and identification details to be shown on each tender offer package are:</p> <p>Location of tender box: THE DEPARTMENT OF AGRICULTURE, SCM OFFICES 4TH FLOOR OFFICE 17, BOTHA SIGCAU BUILDING, MTHATHA 5099.</p> <p>Physical address: SCM OFFICES 4TH FLOOR OFFICE 17, BOTHA SIGCAU BUILDING, MTHATHA 5099.</p> <p>Identification details: Reference number, title of tender and the closing date and time of the tender.</p> <p>Postal address: Department of Agriculture Supply Chain Management Directorate Private Bag X5002 Mthatha, 5099</p>
C.2.13.9	Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted.
C.2.15.	The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender.
C.2.17.	<p>Additional information/clarification could be requested after closure of the bid. Non-submission / late submission of such information/clarification could result in the bid being declared non-responsive.</p> <p>The employer may also request additional information / bank ratings, in order to establish the financial capacity of the bidder. Non-submission / late submission of such information / bank ratings, could result in the bid being declared non-responsive.</p>

C.2.16.	The tender offer validity period is 90 days									
C.2.23.	<p>The tenderer is required to submit with his tender</p> <ul style="list-style-type: none"> • a Certificate of Contractor Registration issued by the Construction Industry Development Board and where a tenderer satisfies CIDB contractor grading designation requirements through joint venture formation, such tenderers must submit the Certificates of Contractor Registration in respect of each partner. • a Copy of CSD registration Proof (Active & Recently updated). • Joint Venture Agreement and Power of attorney in case of a Joint Venture. • ID certificates in case of one-man concerns. • Workman’s Compensation Registration Certificate. • Documentation to proof preferential points claimed. • Company/Contractor Registration with SABI 									
C.3.4	<p>Tenders will be opened in public immediately after closing time where the name of the tenderer, the financial offer, preference points claimed and proposed period for completion will be read out loud.</p>									
C.3.11.	<p>This bid will be evaluated in Four (4) phases as follows:</p> <p>Phase One: Prequalification: Only bids of bidders adhering to the minimum CIDB grading designation, and whose CIDB registration is active on date of closure will be further considered.</p> <p>Phase Two: Compliance, responsiveness to the bid rules and conditions, thereafter they will be evaluated on PPPFA.</p> <p>NB Failure to submit all the requested documents such as , key personnel, work program etc. will result in the bid is not further considered.</p> <p>Phase Three: Bidders passing all stages above will thereafter be evaluated on PPPFA.</p> <p>PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT (PPPFA) POINTS WILL BE AWARDED AS FOLLOWS:</p> <table style="margin-left: 40px;"> <tr> <td>Maximum points on price</td> <td>-</td> <td>80 points</td> </tr> <tr> <td>Maximum points for Specific goals</td> <td>-</td> <td>20 points</td> </tr> <tr> <td>Maximum points</td> <td>-</td> <td>100 points</td> </tr> </table> <p>Important:</p> <ul style="list-style-type: none"> • Failure to submit a fully completed and signed bid document such as Bill of Quantities, work program etc. will result in the bid not being further considered. • Gross calculation errors, and omissions in the Bill of Quantities, will render the bid non-responsive. • Gross under and over pricing will also render the bid as non-responsive. 	Maximum points on price	-	80 points	Maximum points for Specific goals	-	20 points	Maximum points	-	100 points
Maximum points on price	-	80 points								
Maximum points for Specific goals	-	20 points								
Maximum points	-	100 points								
	<p>1. <u>PHASE ONE: PRE-QUALIFICATION</u></p> <p>1. Prequalification: Only bids of bidders adhering to the minimum cidb grading designation, and who’s cidb registration is active on the closing date will be considered further.</p> <p>2. <u>PHASE TWO: RESPONSIVENESS TO THE BID REQUIREMENTS AND RULES</u></p>									

A. Bidders' proposals must meet the following minimum requirements and supporting documents must be submitted with the completed bid document in a sealed envelope in the bid box at the closing date and time. Failure to comply will automatically eliminate the bid for further consideration:

1. Bid Document (This Document must be submitted in its original format)
2. Bids which are late, incomplete, unsigned or submitted by facsimile or electronically, will not be accepted.
3. Bidder must be registered with CIDB in the correct grading and class of works as per the tender notice and requirements. And must the status on CIDB be active during award stage. It is the responsibility of the bidder to keep the status on CIDB active throughout bidding process (advert till award stage).
4. Bidders must be a legal entity or partnership or joint venture or consortia.
5. Form of offer and Acceptance (fully completed and signed)
6. SBD 4- Declaration of Interest (fully completed and signed)
7. Compulsory Enterprise Questionnaire (Completed and signed)
8. Bid price must be all inclusive of all applicable taxes. Bidders are not entitled to claim the VAT if they are not VAT registered.
9. Certificate of Authority for Joint Ventures (if applicable). In the case of a joint venture, a signed JV agreement stating the share interest or percentage of each partner should also be made available to the department by the JV.
10. Resolution to Sign (if applicable)
11. Attendance of compulsory briefing meeting (where applicable)
12. Only one offer per item per bidder is allowed and alternative offers will not be considered. If more than one offer per item is received, none of the offers will be considered. Bidders are also not allowed to submit a bid/ quotation whilst they are in agreements with other bidders in the form of joint ventures or consortiums.
13. This tender will be awarded as a whole. All trades listed in the Bills of Quantities or Pricing schedule must be priced for (except provisional sums and allowances), failure to do so will result increase commercial risk of the bid and may lead to elimination or passing over of the bidder.
14. Past experience reports (Refer to Annexure K and H)
15. List of Key personnel and their CVs
16. Work program

B. Other Conditions of bid/ Non eliminating

1. DRDAR Policy applies.
2. Returnable Schedule: SBD1 – Invitation to bid must be completed and signed
3. The bidder must be registered on the Central Supplier Database (CSD) prior the award
4. All bidders' tax matters must be in order prior award. Bidders' tax matters will be verified through CSD.
5. Declaration of Employees of the State or other State Institutions.
6. Bidders must submit a minimum of three (3) written contactable references for projects successfully completed in the past (clearly indicating client name, contract value, contract term, contact person, contact details). Refer to Annexure I and Annexure M. This is not an elimination factor, but important for the department to make a decision. Unless it is used for Quality/functionality Points.
7. Bidders must submit a list of projects where he or she has submitted tender offers but tender results have not been confirmed by the client.
8. Bidders must submit their company profiles, list of available resources, plant and machinery and any other additional capacity with the bid.. This is not an elimination factor, but important for the department to make a decision. Unless it is used for Quality/functionality Points.
9. The bidder must also list all projects where there are pending litigations or litigations have been concluded. The form for this is also attached after Annexure J.
10. Bidders submit all the required documented proof to validate the preferential points claimed on SBD 6.1. (Refer to Point 9 of the Tender Notice)
11. The Department will contract with the successful bidder by signing a formal contract.

12. This tender will be awarded as a whole. All trades listed in the Bills of Quantities or Pricing schedule must be priced for (except provisional sums and allowances which also need to be added to the total), failure to do so will increase commercial risk of the bid and may lead to elimination or passing over of the bidder.
13. Wherever a brand name is specified in this document (i.e. specifications, pricing schedule, bill of quantities or anywhere), the department requires an item similar/equivalent or better.

3. PHASE THREE: EVALUATION POINTS ON PRICE AND REGULATIONS OF 2022

The **80/20 preference point system** shall be applied for the purposes of this bid as per the requirements of the *Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000)* and SPECIFIC GOALS/ PPPFA Regulations of 2022

Criteria	Points
POINTS ON PRICE	80
SPECIFIC GOALS	20
TOTAL	100

The 80/20 preference point system for acquisition of services, works or goods up to Rand value of R50 million:

- (a) The following formula must be used to calculate the points for price in respect of tenders (including price quotation) with a Rand value equal to, or above R 30 000 and up to Rand value of R 50 000 000 (all applicable taxes included):

The financial offer will be scored using the following formula:

$$A = (1 - \frac{P - P_m}{P_m})$$

The value of value of W_1 is:

- 1) 90 where the financial value inclusive of VAT of all responsive tenders received have a value in excess of R 50 000 000 or
- 2) 80 where the financial value inclusive of VAT of one or more responsive tender offers have a value that equals or is less than R 50 000 000.

C.3.13.

Tender offers will only be accepted if:

- a) the tenderer is registered on the Central Supplier Database (CSD) for the South African government (see <https://secure.csd.gov.za/>) unless it is a foreign supplier with no local registered entity
- b) the tenderer is in good standing with SARS according to the Central Supplier Database. Bidders must submit a CSD no. or tax status compliance pin.
- c) the preferred tenderer will be required to submit an approved insurer undertaking to provide the Performance Bond / Guarantee / Surety / Security to the format and/or standard as per contract data.
- d) the tenderer is registered with the Construction Industry Development Board in an appropriate contractor grading designation.
- e) the tenderer or any of its directors/shareholders is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector.
- f) the tenderer has not:
 - i) abused the Employer's Supply Chain Management System; or

- ii) failed to perform on any previous contract and has been given a written notice to this effect.
- g) the tenderer has completed the Compulsory Declaration and there are no conflicts of interest which may impact on the tenderer's ability to perform the contract in the best interests of the employer or potentially compromise the tender process.
- h) the tenderer has completed the Compulsory Enterprise Questionnaire and there are no conflicts of interest which may impact on the tenderer's ability to perform the contract in the best interests of the employer or potentially compromise the tender process and persons in the employ of the state are permitted to submit tenders or participate in the contract.
- i) Bids which are late, incomplete, unsigned or submitted by facsimile or electronically will not be accepted.
- j) the tenderer is registered and in good standing with the compensation fund or with a licensed compensation insurer.
- k) The tenderer undertakes to maximize the sourcing of building material or infrastructure input material from Eastern Cape based suppliers or manufacturers.
- l) the employer is reasonably satisfied that the tenderer has in terms of the Construction Regulations, 2014, issued in terms of the Occupational Health and Safety Act, 1993, the necessary competencies and resources to carry out the work safely.
- m) A Resolution of signatory form has been completed and signed by director/s or a letter bearing a letterhead of the tenderer has been attached (specific to this bid) to the bid submission; it must be duly signed by all directors and submitted the bid. Only a duly authorized official can sign the bid.
- n) Prospective bidders must register on CSD prior submitting bids (open tenders). Any prospective bidder found to have Tax matters not in order with SARS (verified through CSD) during the evaluation process (after being given an opportunity to rectify tax matters) will be eliminated and not be considered further in the process. Preferred bidder/s will be afforded an opportunity to rectify their tax affairs within 7 days. A bidder that fails to rectify its tax matters with SARS will be eliminated.
- o) **NOTE:** The amount reflected on the Form of Offer and Acceptance takes precedence over any other total amount indicated elsewhere in bidder's tender submission. If the Form of Offer and Acceptance has no value or figure, the bidder will be regarded as having made no offer.
- p) The department reserves the right not to award the bid to the most favorable tenderer, if any of the situations occur: if it is not assisting in the advancement of designated groups; risk profile of the favorable firm is too high; the bidder has been awarded a considerable number of projects by the department or provincial government; has performed unsatisfactorily in the past, etc.
- q) Documents required for the specific goals:

No	Specific Goals	Documentation to be submitted by bidders to validate their claim for points
1	An EME or QSE which is at least 51% owned by black people	<ul style="list-style-type: none"> • ID Copy • CIPC (Company registration) • CSD report (the ownership status of the 2 documents must correspond in order to be awarded points)
2	Located in the Province where the services will be rendered/ item delivered.	<ul style="list-style-type: none"> • Municipal rates account OR • Letter from councilor confirming residence OR • Lease Agreement
3	An EME or QSE which is at least 51% owned by women	<ul style="list-style-type: none"> • ID Copy • CIPC (Company registration) • CSD report (the ownership status of the 2 documents must correspond in order to be awarded points)

	4	An EME or QSE which is at least 51% owned by youth (up to 35 years of age)	<ul style="list-style-type: none"> • ID Copy • CIPC (Company registration) • CSD report (the ownership status of the 2 documents must correspond in order to be awarded points)
	5	An EME or QSE which is at least 51% owned by people with disability	<ul style="list-style-type: none"> • ID Copy • CIPC (Company registration) • CSD report (the ownership status of the 2 documents must correspond in order to be awarded points) • Medical certificate • SASSA registration or confirmation of disability from a relevant authority.
C.3.17.	The number of paper copies of the signed contract to be provided by the employer is one.		

T1.3 STANDARD CONDITIONS OF TENDER

The conditions of tender are the Standard Conditions of Tender as contained in Annex C of the CIDB Standard for Uniformity in Construction Procurement (August 2019). (See www.cidb.org.za).

C.1 General

C.1.1 Actions

C.1.1.1 The employer and each tenderer submitting a tender offer shall comply with these conditions of tender. In their dealings with each other, they shall discharge their duties and obligations as set out in C.2 and C.3, timeously and with integrity, and behave equitably, honestly and transparently, comply with all legal obligations and not engage in anticompetitive practices.

C.1.1.2 The employer and the tenderer and all their agents and employees involved in the tender process shall avoid conflicts of interest and where a conflict of interest is perceived or known, declare any such conflict of interest, indicating the nature of such conflict. Tenderers shall declare any potential conflict of interest in their tender submissions. Employees, agents and advisors of the employer shall declare any conflict of interest to whoever is responsible for overseeing the procurement process at the start of any deliberations relating to the procurement process or as soon as they become aware of such conflict and abstain from any decisions where such conflict exists or recuse themselves from the procurement process, as appropriate.

Note: 1) A conflict of interest may arise due to a conflict of roles which might provide an incentive for improper acts in some circumstances. A conflict of interest can create an appearance of impropriety that can undermine confidence in the ability of that person to act properly in his or her position even if no improper acts result.

2) *Conflicts of interest in respect of those engaged in the procurement process include direct, indirect or family interests in the tender or outcome of the procurement process and any personal bias, inclination, obligation, allegiance or loyalty which would in any way affect any decisions taken.*

C.1.1.3 The employer shall not seek, and a tenderer shall not submit a tender without having a firm intention and the capacity to proceed with the contract.

C.1.2 Tender Documents

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

C.1.3 Interpretation

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

C.1.3.2 These conditions of tender, the tender data and tender schedules which are required for tender evaluation purposes, shall form part of any contract arising from the invitation to tender.

C.1.3.3 For the purposes of these conditions of tender, the following definitions apply:

- a) **conflict of interest** means any situation in which:
 - i) someone in a position of trust has competing professional or personal interests which make it difficult to fulfill his or her duties impartially;

- ii) an individual or tenderer is in a position to exploit a professional or official capacity in some way for their personal or corporate benefit; or
 - iii) incompatibility or contradictory interests exist between an employee and the tenderer who employs that employee.
- b) **comparative offer** means the price after the factors of a non-firm price and all unconditional discounts it can be utilized to have been taken into consideration.
 - c) **corrupt practice** means the offering, giving, receiving or soliciting of anything of value to influence the action of the employer or his staff or agents in the tender process.
 - d) **fraudulent practice** means the misrepresentation of the facts in order to influence the tender process or the award of a contract arising from a tender offer to the detriment of the employer, including collusive practices intended to establish prices at artificial levels.

C.1.4 Communication and employer's agent

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

C.1.5 Cancellation and Re-Invitation of Tenders

C.1.5.1 An employer may, prior to the award of the tender, cancel a tender if-

- a) due to changed circumstances, there is no longer a need for the engineering and construction works specified in the invitation.
- b) funds are no longer available to cover the total envisaged expenditure; or
- c) no acceptable tenders are received.
- d) there is a material irregularity in the tender process.

C.1.5.2 The decision to cancel a tender invitation must be published in the same manner in which the original tender invitation was advertised

C.1.5.3 An employer may only with the prior approval of the relevant treasury cancel a tender invitation for the second time.

C.1.6 Procurement procedures

a) C.1.6.1 General

Unless otherwise stated in the tender data, a contract will, subject to C.3.13, be concluded with the tenderer who in terms of C.3.11 is the highest ranked or the tenderer scoring the highest number of tender evaluation points, as relevant, based on the tender submissions that are received at the closing time for tenders.

b) C.1.6.2 Competitive negotiation procedure

C.1.6.2.1 Where the tender data require that the competitive negotiation procedure is to be followed, tenderers shall submit tender offers in response to the proposed contract in the first round of submissions. Notwithstanding the requirements of C.3.4, the employer shall announce only the names of the tenderers who make a submission. The requirements of C.8 relating to the material deviations or qualifications which affect the competitive position of tenderers shall not apply.

C.1.6.2.2 All responsive tenderers or at least a minimum of not less than three responsive tenderers that are highest ranked in terms of the evaluation criteria stated in the tender data shall be invited to enter into competitive negotiations based on the principle of equal treatment, keeping confidential the proposed solutions and associated information.

Notwithstanding the provisions of C.2.17, the employer may request that tenders be clarified, specified and fine-tuned in order to improve a tenderer's competitive position provided that such clarification, specification, fine-tuning or additional information does not alter any fundamental aspects of the offers or impose substantial new requirements which restrict or distort competition or have a discriminatory effect.

C.1.6.2.3 At the conclusion of each round of negotiations, tenderers shall be invited by the employer to revise their tender offer based on the same evaluation criteria, with or without adjusted weightings. Tenderers shall be advised when they are to submit their best and final offer.

C.1.6.2.4 The contract shall be awarded in accordance with the provisions of C.3.11 and C.3.13 after tenderers have been requested to submit their best and final offer.

c) C.1.6.3 Proposal procedure using the two stage-system

C.1.6.3.1 Option 1

Tenderers shall in the first stage submit technical proposals and, if required, cost parameters around which a contract may be negotiated. The employer shall evaluate each responsive submission in terms of the method of evaluation stated in the tender data, and in the second stage negotiate a contract with the tenderer scoring the highest number of evaluation points and award the contract in terms of these conditions of tender.

C.1.6.3.2 Option 2

C.1.6.3.2.1 Tenderers shall submit in the first stage only technical proposals. The employer shall invite all responsive tenderers to submit tender offers in the second stage, following the issuing of procurement documents.

C.1.6.3.2.2 The employer shall evaluate tenders received during the second stage in terms of the method of evaluation stated in the tender data and award the contract in terms of these conditions of tender.

C.2 Tenderer's obligations

C.2.1 Eligibility

C.2.1.1 Submit a tender offer only if the tenderer satisfies the criteria stated in the tender data and the tenderer, or any of his principals, is not under any restriction to do business with employer.

C.2.1.2 Notify the employer of any proposed material change in the capabilities or formation of the tendering entity (or both) or any other criteria which formed part of the qualifying requirements used by the employer as the basis in a prior process to invite the tenderer to submit a tender offer and obtain the employer's written approval to do so prior to the closing time for tenders.

C.2.2 Cost of tendering

C.2.2.1 Accept that, unless otherwise stated in the tender data, the employer will not compensate the tenderer for any costs incurred in the preparation and submission of a tender offer, including the costs of any testing necessary to demonstrate that aspects of the offer comply with requirements.

C.2.2.2 The cost of the tender documents charged by the employer shall be limited to the actual cost incurred by the employer for printing the documents. Employers must attempt to make available the tender documents on its website so as not to incur any costs pertaining to the printing of the tender documents.

C.2.3 Check documents

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

C.2.4 Confidentiality and copyright of documents

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

C.2.5 Reference documents

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

C.2.6 Acknowledge addenda

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

C.2.7 Clarification meeting

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

C.2.8 Seek clarification

Request clarification of the tender documents, if necessary, by notifying the employer at least five (5) working days before the closing time stated in the tender data.

C.2.9 Insurance

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

C.2.10 Pricing the tender offer

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

C.2.10.2 Show VAT payable by the employer separately as an addition to the tendered total of the prices.

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

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

C.2.11 Alterations to documents

Do not make any alterations or additions to the tender documents, except to comply with instructions issued by the employer, or necessary to correct errors made by the tenderer. All signatories to the tender offer shall initial all such alterations.

C.2.12 Alternative tender offers

C.2.12.1 Unless otherwise stated in the tender data, submit alternative tender offers only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted as well as a schedule that compares the requirements of the tender documents with the alternative requirements that are proposed.

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

C.2.12.3 An alternative tender offer must only be considered if the main tender offer is the winning tender.

C.2.13 Submitting a tender offer

C.2.13.1 Submit one tender offer only, either as a single tendering entity or as a member in a joint venture to provide the whole of the works identified in the contract data and described in the scope of works, unless stated otherwise in the tender data.

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

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

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

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

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

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

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

C.2.13.9 Accept that tender offers submitted by facsimile or e-mail will be rejected by the employer, unless stated otherwise in the tender data.

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

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

C.2.15 Closing time

C.2.15.1 Ensure that the employer receives the tender offer at the address specified in the tender data not later than the closing time stated in the tender data. Accept that proof of posting shall not be accepted as proof of delivery.

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

C.2.16 Tender offer validity

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

C.2.16.2 If requested by the employer, consider extending the validity period stated in the tender data for an agreed additional period with or without any conditions attached to such extension.

C.2.16.3 Accept that a tender submission that has been submitted to the employer may only be withdrawn or substituted by giving the employer's agent written notice before the closing time for tenders that a tender is to be withdrawn or substituted. If the validity period stated in C.2.16 lapses before the employer evaluating tender, the contractor reserves the right to review the price based on Consumer Price Index (CPI).

C.2.16.4 Where a tender submission is to be substituted, a tenderer must submit a substitute tender in accordance with the requirements of C.2.13 with the packages clearly marked as "SUBSTITUTE".

C.2.17 Clarification of tender offer after submission

Provide clarification of a tender offer in response to a request to do so from the employer during the evaluation of tender offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in the competitive position of tenderers or substance of the tender offer is sought, offered, or permitted.

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

C.2.18 Provide other material

C.2.18.1 Provide, on request by the employer, any other material that has a bearing on the tender offer, the tenderer's commercial position (including notarized joint venture agreements), referencing arrangements, or samples of materials, considered necessary by the employer for the purpose of a full and fair risk assessment.

Should the tenderer not provide the material, or a satisfactory reason as to why it cannot be provided, by the time for submission stated in the employer's request, the employer may regard the tender offer as non-responsive.

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

C.2.19 Inspections, tests and analysis

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

C.2.20 Submit securities, bonds and policies

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

C.2.21 Check final draft

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

C.2.22 Return of other tender documents

If so instructed by the employer, return all retained tender documents within twenty-eight (28) days after the expiry of the validity period stated in the tender data.

C.2.23 Certificates

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

C.3 *The employer's undertakings*

C.3.1 Respond to requests from the tenderer

C.3.1.1 Unless otherwise stated in the tender Data, respond to a request for clarification received up to five (5) working days before the tender closing time stated in the Tender Data and notify all tenderers who collected tender documents.

C.3.1.2 Consider any request to make a material change in the capabilities or formation of the tendering entity (or both) or any other criteria which formed part of the qualifying requirements used to prequalify a tenderer to submit a tender offer in terms of a previous procurement process and deny any such request if as a consequence:

- a) an individual firm, or a joint venture as a whole, or any individual member of the joint venture fails to meet any of the collective or individual qualifying requirements.
- b) the new partners to a joint venture were not prequalified in the first instance, either as individual firms or as another joint venture; or
- c) in the opinion of the Employer, acceptance of the material change would compromise the outcome of the prequalification process.

C.3.2 Issue Addenda

If necessary, issue addenda that may amend or amplify the tender documents to each tenderer during the period from the date that tender documents are available until three (3) working days before the tender closing time stated in the Tender Data. If, as a result a tenderer applies for an extension to the closing time stated in the Tender Data, the Employer may grant such extension and, shall then notify all tenderers who collected tender documents.

C.3.3 Return late tender offers

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

C.3.4 Opening of tender submissions

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

C.3.4.2 Announce at the meeting held immediately after the opening of tender submissions, at a venue indicated in the tender data, the name of each tenderer whose tender offer is opened and, where applicable, the total of his prices, number of points claimed for its specific goals and time for completion for the main tender offer only.

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

C.3.5 Two-envelope system

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

C.3.5.2 Evaluate functionality of the technical proposals offered by tenderers, then advise tenderers who remain in contention for the award of the contract of the time and place when the financial proposals will be opened. Open only the financial proposals of tenderers, who score in the functionality evaluation more than the minimum number of points for functionality stated in the tender data, and announce the score obtained for the technical proposals and the total price and any points claimed based on specific goals set out by the department. Return unopened financial proposals to tenderers whose technical proposals failed to achieve the minimum number of points for functionality.

C.3.6 Non-disclosure

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

C.3.7 Grounds for rejection and disqualification

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

C.3.8 Test for responsiveness

C.3.8.1 Determine, after opening and before detailed evaluation, whether each tender offer properly received:

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

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

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

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

Important:

- **Failure to submit a fully completed and signed bid document such as Bill of Quantities, work program etc. will result in the bid not being further considered.**
- **Gross calculation errors, and omissions in the Bill of Quantities, will render the bid non-responsive.**
- **Gross under and over pricing will also render the bid as non-responsive.**

C.3.9 Arithmetical errors, omissions and discrepancies

C.3.9.1 Check responsive tenders for discrepancies between amounts in words and amounts in figures. Where there is a discrepancy between the amounts in figures and the amount in words, the amount in words shall govern.

C.3.9.2 Check the highest ranked tender or tenderer with the highest number of tender evaluation points after the evaluation of tender offers in accordance with C.3.11 for:

- a) the gross misplacement of the decimal point in any unit rate;
- b) omissions made in completing the pricing schedule or bills of quantities; or c) arithmetic errors in:
 - (i) line item totals resulting from the product of a unit rate and a quantity in bills of quantities or schedules of prices; or (ii) the summation of the prices.

C.3.9.3 Notify the tenderer of all errors or omissions that are identified in the tender offer and either confirm the tender offer as tendered or accept the corrected total of prices.

C.3.9.4 Where the tenderer elects to confirm the tender offer as tendered, correct the errors as follows:

- a) If bills of quantities or pricing schedules apply and there is an error in the line item total resulting from the product of the unit rate and the quantity, the line item total shall govern and the rate shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line item total as quoted shall govern, and the unit rate shall be corrected.
- b) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern

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

C.3.10 Clarification of a tender offer

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

C.3.11 Evaluation of tender offers

The Standard Conditions of Tender standardize the procurement processes, methods and procedures from the time that tenders are invited to the time that a contract is awarded. They are generic in nature and are made project specific through choices that are made in developing the Tender Data associated with a specific project.

Conditions of tender are by definition the document that establishes a tenderer's obligations in submitting a tender and the employer's undertakings in soliciting and evaluating tender offers. Such conditions establish the rules from the time a tender is advertised to the time that a contract is awarded and require employers to conduct the process of offer and acceptance in terms of a set of standard procedures.

The CIDB Standard Conditions of Tender are based on a procurement system that satisfies the following system requirements:	
Requirement	Qualitative interpretation of goal
Fair	The process of offer and acceptance is conducted impartially without bias, providing simultaneous and timely access to participating parties to the same information.
Equitable	Terms and conditions for performing the work do not unfairly prejudice the interests of the parties.
Transparent	The only grounds for not awarding a contract to a tenderer who satisfies all requirements are restrictions from doing business with the employer, lack of capability or capacity, legal impediments and conflicts of interest.
Competitive	The system provides for appropriate levels of competition to ensure cost effective and best value outcomes.
Cost effective	The processes, procedures and methods are standardized with sufficient flexibility to attain best value outcomes in respect of quality, timing and price, and least resources to effectively manage and control procurement processes.

The activities associated with evaluating tender offers are as follows:

- a) Open and record tender offers received
- b) Determine whether or not tender offers are complete
- c) Determine whether or not tender offers are responsive
- d) Evaluate tender offers
- e) Determine if there are any grounds for disqualification
- f) Determine acceptability of preferred tenderer
- g) Prepare a tender evaluation report
- h) Confirm the recommendation contained in the tender evaluation report

d) C.3.11.1 General

The employer must appoint an evaluation panel of not less than three persons conversant with the proposed scope of works to evaluate each responsive tender offer using the tender evaluation methods and associated evaluation criteria and weightings that are specified in the tender data.

C.3.12 Insurance provided by the employer

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

C.3.13 Acceptance of tender offer

Accept the tender offer; if in the opinion of the employer, it does not present any risk and only if the tenderer:

- a) is not under restrictions, or has principals who are under restrictions, preventing participating in the employer's procurement;
- b) can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience and reputation, expertise and the personnel, to perform the contract;
- c) has the legal capacity to enter into the contract;
- d) is not; insolvent, in receivership, under Business Rescue as provided for in chapter 6 of the Companies Act No. 2008, bankrupt or being wound up, has his/her affairs administered by a court or a judicial officer, has suspended his/her business activities or is subject to legal proceedings in respect of any of the foregoing;
- e) complies with the legal requirements, if any, stated in the tender data; and
- f) is able, in the opinion of the employer, to perform the contract free of conflicts of interest.

C.3.14 Prepare contract documents

C.3.14.1 If necessary, revise documents that shall form part of the contract and that were issued by the employer as part of the tender documents to take account of:

- a) addenda issued during the tender period,
- b) inclusion of some of the returnable documents and
- c) other revisions agreed between the employer and the successful tenderer.

C.3.14.2 Complete the schedule of deviations attached to the form of offer and acceptance, if any.

C.3.15 Complete adjudicator's contract

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

C.3.16 Registration of the award

An employer must, within twenty-one (21) working days from the date on which a contractor's offer to perform a construction works contract is accepted in writing by the employer, register and publish the award on the cidb Register of Projects.

C.3.17 Provide copies of the contracts

Provide to the successful tenderer the number of copies stated in the Tender Data of the signed copy of the contract as soon as possible after completion and signing of the form of offer and acceptance.

C.3.18 Provide written reasons for actions taken

Provide upon request written reasons to tenderers for any action that is taken in applying these conditions of tender but withhold information which is not in the public interest to be divulged, which is considered to prejudice the legitimate commercial interests of tenderers or might prejudice fair competition between tenderers.

PART T2 - RETURNABLE DOCUMENTS

**EASTERN CAPE PROVINCIAL GOVERNMENT
DEPARTMENT OF AGRICULTURE**

**THE SUPPLY, DELIVERY AND INSTALLATION OF A SOLIDSET IRRIGATION AT MDENI
VILLAGE IN THE MHLONTLO LOCAL MUNICIPALITY OF THE OR TAMBO DISTRICT**

T2.1 List of Returnable Documents

The tenderer must complete the following returnable documents:

1 Returnable Schedules required only for tender evaluation purposes

- Certificate of authority for joint ventures (where applicable)
- Compulsory Enterprise Questionnaire
- Record of Addenda to Tender Documents
- Proposed Amendments and Qualifications
- Schedule of Subcontractors
- Schedule of Plant and Equipment
- Schedule of the Tenderer's Experience
- Schedule of current projects

2 Other documents required only for tender evaluation purposes

- Proof of registration on the CSD and copy of active and updated certificate attached.
- Certificate of Contractor Registration issued by the Construction Industry Development Board.
- Documented proof of points claimed for Specific goals.

3 Returnable Schedules that will be incorporated into the contract

- Preferencing Schedule SBD 6.1

4 Other documents that will be incorporated into the contract

- Declaration of validity of information.
- Declaration of Interest - SBD 4.
- POPI – Consent Form
- Certificate of tenderer's visit to site.
- Tenderer's financial standing.
- Surety and Bank details.
- Form of intent to provide a Performance Guarantee.
- Key personnel for project.
- Curriculum Vitae of key personnel.
- Preliminary Construction Programme.
- Alteration by tenderer.
- Contractor's Health and Safety declaration.
- Contractor's Health and Safety Plan.

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

6 C1.2 Contract Data (Part 2)

7 C2.2 Bills of quantities

CERTIFICATE OF AUTHORITY FOR JOINT VENTURES

This Returnable Schedule is to be completed by joint ventures.

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

NAME OF FIRM	ADDRESS	DULY AUTHORISED SIGNATORY
Lead partner		Signature Name Designation
		Signature Name Designation
		Signature Name Designation
		Signature Name Designation

COMPULSORY ENTERPRISE QUESTIONNAIRE

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

Section 1: Name of enterprise: _____

Section 2: VAT registration number, if any: _____

Section 3: cidb registration number, if any: _____

Section 4: CSD number: _____

Section 5: Particulars of sole proprietors and partners in partnerships:

Name*	Identity number*	Personal income tax number*

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

Section 6: Particulars of companies and close corporations

Company registration number: _____

Close corporation number: _____

Tax reference number: _____

Section 7: SBD4 issued by National Treasury must be completed for each tender and be attached as a tender requirement.

Section 8: SBD 6 issued by National Treasury must be completed for each tender and be attached as a tender requirement.

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

- i) Authorize the employer to verify the tenderers tax clearance status from the South African Revenue Service that it is in order;
- ii) Confirms that neither the name of the enterprise or the name of any partner, manager, director or any other person, who wholly or partly exercises or may exercise control over the enterprise, appears on the Register of Tender Defaulters established in terms of the Prevention and combating of Corruption Activities Act of 2004;
- iii) Confirms that no partner, manager, director or any other person, who wholly or partly exercises or may exercise control over the enterprise, has within the last five years been convicted of fraud or corruption;
- iv) Confirms that I/we are not associated, linked or involved with any other rendering entities submitting tender offers and have no other relationship with any of the tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest; and
- v) Confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

Signed		Date	
Name		Position	
Enterprise name			

RECORD OF ADDENDA TO TENDER DOCUMENTS

The undersigned confirm that the following communications received from the employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:

	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		

Attach additional pages if more space is required.

Signed		Date	
Name		Position	
Tenderer			

PROPOSED AMENDMENTS AND QUALIFICATIONS

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

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

Page	Clause or item	Proposal

Signed Date

Name Position

Tenderer

SCHEDULE OF PROPOSED SUBCONTRACTORS

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

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

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

Signed Date

Name Position

Tenderer

SCHEDULE OF PLANT AND EQUIPMENT

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

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

Quantity	Description, size, capacity, etc.

Attach additional pages if more space is required.

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

Quantity	Description, size, capacity, etc.

Attach additional pages if more space is required.

Signed Date

Name Position

Tenderer

SCHEDULE OF THE TENDERER'S EXPERIENCE

The following is a statement of similar work in respect of this tender successfully executed by myself / ourselves during the past three (3) years:

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

Signed Date

Name Position

Tenderer _____

SCHEDULE OF CURRENT PROJECTS

Tenderers must submit a max one-page description of all projects under construction/ on hold/ just handed over/ towards completion (if they exist). **Attach an Appointment letter for each of the project provided.**

The description of each project must include the following information:

1. Essential introductory information:
 - 1.1. Name of project.
 - 1.2. Name of client.
 - 1.3. Contact details of client.
 - 1.4. Contact details (including telephone numbers and email addresses) of currently contactable references.
 - 1.5. The period during which the project was performed, and also, if this is different, the period during which the tenderer's team members were contracted.
 - 1.6. Cost of works and/or contract value (making it clear in broad terms what this cost/value purchased, and to what extent (if any) this cost/value was part of a larger project budget or programme budget).

NO.	NAME OF PROJECT.	NAME OF CLIENT.	CONTACT DETAILS OF CLIENT.	PROJECT VALUE	STAGE OF PROJECT
1					
2					
3					

Attach a separate page to address this issue (the above table is just for reference purposes).

The undersigned, who warrants that she/ he is duly authorised to do so on behalf of the enterprise, confirms that the content of this schedule that presented by the tenderer are within my personal knowledge and are to the best of my knowledge both true and correct.

Signed _____ Date _____

Name _____ Position _____

Enterprise name _____

CONTRACTORS CERTIFICATE OF REGISTRATION ON CSD

[The tenderer shall submit the Contractor's Certificate of Registration on the CSD. Failure to submit the certificate with the tender document will lead to the conclusion that the tenderer is not registered on the National Treasury Central Suppliers Database and therefore not eligible to tender].

CONTRACTORS CERTIFICATE OF REGISTRATION WITH CIDB

[The tenderer shall submit the Contractor's Certificate of Registration with CIDB. Failure to submit the certificate with the tender document will lead to the conclusion that the tenderer is not registered with the CIDB and therefore not eligible to tender].

**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

(delete whichever is not applicable for this tender).

- a) The applicable preference point system for this tender is the **80/20** preference point system.

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
PRICE	80
SPECIFIC GOALS	20
Total points for Price and SPECIFIC GOALS	100

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

- 1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

2. DEFINITIONS

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

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:

$$\begin{array}{ccc} \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\ \\ \mathbf{P_s = 80 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right)} & \mathbf{or} & \mathbf{P_s = 90 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right)} \end{array}$$

Where

P_s = Points scored for price of tender under consideration

P_t = Price of tender under consideration

P_{min} = Price of lowest acceptable tender

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:

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

Where

- Ps = Points scored for price of tender under consideration
- Pt = Price of tender under consideration
- 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 (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
An EME or QSE which is at least 51% owned by black people	N.A.	5		
Located in the Province where the services will be rendered/ item delivered.	N.A.	2		
An EME or QSE which is at least 51% owned by women	N.A.	7		
An EME or QSE which is at least 51% owned by youth (up to 35 years of age)	N.A.	4		
An EME or QSE which is at least 51% owned by people with disability	N.A.	2		
Total	N.A.	20		

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm.....

4.4. Company registration number:

4.5. TYPE OF COMPANY/ FIRM

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

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

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

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

BIDDER’S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder’s declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise, employed by the state? YES/NO

2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State institution

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

1.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? YES/NO

2.2.1 If so, furnish particulars:

.....
.....

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? YES/NO

2.3.1 If so, furnish particulars:

.....
.....

3 DECLARATION

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

3.1 I have read and I understand the contents of this disclosure;

3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;

3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium² will not be construed as collusive bidding.

3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.

² Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

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

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

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

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

.....
Signature	Date
.....
Position	Name of bidder

DEPARTMENT OF AGRICULTURE

**THE SUPPLY, DELIVERY AND INSTALLATION OF A 11 HA SOLIDSET
SPRINKLER IRRIGATION AT VIVI AM PROJECT FARM IN THE MHLONTLO LM
OF THE OR TAMBO DISTRICT**

POPI - CONSENT FORM

Contractor/Service Provider/Supplier:	
Bid/Quotation No.:	
Project Description:	
Duration of Contract:	
Contract Value:	

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

The purpose of the POPIA is to protect personal information of individuals and businesses and to give effect to their right of privacy as provided for in the Constitution. By signing this form, you consent to your personal information to be processed by the Department of AGRICULTURE (DRDAR) and consent is effective immediately and will remain effective until such consent is withdrawn.

1. I a natural person "herein referred to as the Data Subject" with ID No..... hereby give my consent to the DRDAR "herein referred to as the Responsible Party" to collect, process and distribute my personal information where DRDAR is legally required to do so.
2. I understand my right to privacy and the right to have my personal information processed in accordance with the conditions for the lawful processing of personal information.
3. I understand the purposes for which my personal information is required and for which it will be used and consent to third parties accessing my personal information and to DRDAR sharing my personal information strictly for reporting purposes.
4. I understand that, should I refuse to provide DRDAR with the required consent and/ or information, the DRDAR will be unable to assist me.
5. I declare that all my personal information supplied to DRDAR is accurate, up to date, not misleading and that it is complete in all respects and will be held and/ or stored securely for the purpose for which it was

collected and that I will immediately advise DRDAR of any changes to my Personal Information should any of these details change.

6. I also understand that I have the right to request that my personal information be corrected or deleted, if it is inaccurate, irrelevant, excessive, out of date, incomplete, misleading, or obtained unlawfully or that the personal information or record be destroyed or deleted if the responsible party is no longer authorized to retain it.

Signed at..... On this day of20...

.....

Signature of data subject/ designated person

.....
Name & Surname/Departmental Responsible Party

.....
Signature

CERTIFICATE OF TENDERER'S VISIT TO SITE

This is to certify that, I

representative of (tenderer)

.....

.....

of (address)

.....

.....

.....

Telephone number:

Fax number:

in the company of (Engineer's representative)

visited and examined the site on (date)

I further certify that I have made myself familiar with all local conditions likely to influence the work and the cost thereof, that I am satisfied with the description of the work and the explanations given by the said Engineer's Representative and that I understand perfectly the work to be done, as specified and implied, in the execution of this contract.

TENDERER'S REPRESENTATIVE: (Signature).....

(Name)

ENGINEER'S REPRESENTATIVE: (Signature).....

(Name)

FORM OF INTENT TO PROVIDE A PERFORMANCE GUARANTEE

[The tenderer must provide a letter from the bank or institution, with whom he has made the necessary arrangements, to the effect that the said bank or institution will be prepared to provide the required performance guarantee when asked to do so].

KEY PERSONNEL

In terms of the Project Specification and the Conditions of Tender, unskilled workers may only be brought in from outside the local municipality if such personnel are not available locally.

The tenderer shall list below the personnel, which he intends to utilise on the Works, including key personnel, which may have to be brought in from outside if not available locally.

EMPLOYEE SKILLS TEAM No ____	NUMBER OF PERSONS			
	KEY PERSONNEL, PART OF THE CONTRACTOR'S ORGANISATION	KEY PERSONNEL TO BE IMPORTED IF NOT AVAILABLE LOCALLY	UNSKILLED PERSONNEL TO BE RECRUITED FROM LOCAL COMMUNITY	YEARS EXPERIENCE
Director				
Contracts Manager				
Site Agent				
Skilled Worker				
Semi-skilled Worker				
Unskilled Worker				
Other				

DATE **SIGNATURE OF TENDERER**

(of person authorised to sign on behalf of the Tenderer)

PRELIMINARY CONSTRUCTION PROGRAM

The tenderer shall submit a preliminary program reflecting the proposed sequence and duration of the various activities comprising the work for this Contract to include the projected cash flow for each activity. The program shall be in accordance with the information supplied in the Contract, requirements of the Project Specifications and with all other aspects of his tender.

[Note: The program must be based on the completion time as specified in the Contract Data.]

Schedule	Abbreviated description	Days per action	Cumulative project construction days
1	Site Establishment		
2	Installation of mainline, sub-main lines, laterals		
3	Electrical cables for valves		
4	Installation of sprinklers		
5	Commissioning of electrical pump and motor		
6	De-establishment		

PROPOSED CONSTRUCTION PERIOD _____ WEEKS

DATE SIGNATURE OF TENDERER
(of person authorised to sign on behalf of the Tenderer)

BASELINE RISK ASSESSMENT

PROJECT TITLE	THE SUPPLY, DELIVERY AND INSTALLATION OF A 11 HA SOLIDSET SPRINKLER IRRIGATION AT VIVI AM PROJECT FARM IN THE MHLONTLO LM OF THE OR TAMBO DISTRICT
SCMU NUMBER	SCMU8-25/26-0024
PLEASE NOTE THAT THIS IS A BASELINE RISK ASSESSMENT AND NOT A DETAILED RISK ASSESSMENT OF ALL ANTICIPATED ACTIVITIES ON SITE	

Activity	Risk to Safety	Risk to Health	Risk to Environmental	Risk to Public Safety	Control Measures
<i>Working at height of 2-9m</i>	<i>Medium</i>	<i>Low</i>	<i>N.A.</i>	<i>Low</i>	<i>Make use of appropriate scaffolding and ladders.</i>
<i>Working in single story roof</i>	<i>Medium</i>	<i>Low</i>	<i>N.A.</i>	<i>Low</i>	<i>Make use of appropriate safety gear.</i>
<i>Excavations of up to 1.5m</i>	<i>Medium</i>	<i>Low</i>	<i>N.A.</i>	<i>Medium</i>	<i>Barricade excavation areas.</i>
<i>Movement of machinery and vehicles on site</i>	<i>Low</i>	<i>Low</i>	<i>N.A.</i>	<i>Medium</i>	<i>Fence site, and put access control measures in place.</i>

You can list all activities on a separate page to address this issue (the above table is just for reference purposes).

Signed	Date
-----	-----
Name	Position
-----	-----
Enterprise name	

CONTRACTORS HEALTH AND SAFETY DECLARATION

In terms of Clause 5(1)(h) of the OHS Act 1993 Construction Regulations 2014 (referred to as "the Regulations" hereafter), a Contractor may only be appointed to perform construction work if the Employer is satisfied that the Contractor has the necessary competencies and resources to carry out the work safely in accordance with the Occupational Health and Safety Act No 85 of 1993 and the OHS Act 1993 Construction Regulations 2014.

To that effect a person duly authorised by the tenderer must complete and sign the declaration hereafter in detail.

Declaration by Tenderer

1. I the undersigned hereby declare and confirm that I am fully conversant with the Occupational Health and Safety Act No 85 of 1993 (as amended by the Occupational Health and Safety Amendment Act No 181 of 1993), and the OHS Act 1993 Construction Regulations 2014.
2. I hereby declare that my company has the competence and the necessary resources to safely carry out the construction work under this contract in compliance with the Construction Regulations and the Employer's Health and Safety Specifications.
3. I hereby confirm that adequate provision has been made in my tendered rates and prices in the Bill of Quantities to cover the cost of all resources, actions, training and all health and safety measures envisaged in the OHS Act 1993 Construction Regulations 2014, including the cost of the specific items listed in the tables hereafter.

(Tables to be completed by tenderer)

TABLE 1: COST OF SAFETY PERSONNEL

PERSONNEL	COSTS AS ALLOWED IN TENDER	NOMINATED PERSON/S
Construction Supervisor		
Construction Safety Officer		
Health and Safety		
Health and Safety Committee		

TABLE 2: COST OF SAFETY EQUIPMENT

EQUIPMENT	STATE YES or NO	COST ALLOWED FOR IN TENDER
Hard hats		
Safety boots		
Add items as per risk assessment:		

4. I hereby undertake, if my tender is accepted, to provide, before commencement of the works under the contract, a suitable and sufficiently documented Health and Safety Plan in accordance with Regulation 7(1)(a) of the Construction Regulations, which plan shall be subject to approval by the Employer.
5. I confirm that copies of my company's approved Health and Safety Plan, the Employer's Safety Specifications as well as the OHS Act 1993 Construction Regulations 2014 will be provided on site and will at all times be available for inspection by the Contractor's personnel, the Employer's personnel, the Engineer, visitors, and officials and inspectors of the Department of Labour.

- 6. I hereby confirm that, I will be liable for any penalties that may be applied by the Employer in terms of the said Regulations (Regulation 33) for failure on the Contractor's part to comply with the provisions of the Act and the Regulations.

- 7. I agree that my failure to complete and execute this declaration to the satisfaction of the Employer will mean that I am unable to comply with the requirements of the OHS 1993 Construction Regulations 2014, and accept that my tender will be prejudiced and may be rejected at the discretion of the Employer.

DATE **SIGNATURE OF TENDERER**
(of person authorised to sign on behalf of the Tenderer)

CONTRACTORS HEALTH AND SAFETY PLAN

[Not applicable for tender purposes]

[The successful Tenderer, only, shall be required to submit the Contractor's Health and Safety Plan as required in terms of Regulation 7 of the Occupational Health and Safety Act 1993 Construction Regulations 2014, and referred to in T2.1, List of Returnable Documents point 4 (other documents that will be incorporated into the contract) after acceptance of the tender]

EVALUATION SCHEDULE 1 – PROJECT REFERENCE FORMS - 1

Project title:	THE SUPPLY, DELIVERY AND INSTALLATION OF A 11 HA SOLIDSET SPRINKLER IRRIGATION AT VIVI AM PROJECT FARM IN THE MHLONTLO LM OF THE OR TAMBO DISTRICT
Project Number:	SCMU8-25/26-0024

NOTE: This returnable document must be completed by the person who was the Engineer/Project Manager on a project of similar value and complexity that was completed successfully by the tenderer.

I, _____ (name and surname)
of _____

_____ (company name) declare
that I was the Project Manager on the following building construction project successfully executed by _____ (name of tenderer):

Project name: _____

Project location: _____

Construction period: _____ Completion date: _____

Contract value: _____

- Please evaluate the performance of the Tenderer on the abovementioned project, on which you were the principal agent, by inserting "Yes" in the relevant box below:

Key Performance Indicators	Very Poor 1	Poor 2	Fair 3	Good 4	Excellent 5	Total
1. Project performance						
2. Quality of Service						
3. Resources: Personnel						
4. Time management / programming						
5. Financial management / Project budget management/cash flow, etc.						
TOTAL						

- Would you consider / recommend this tenderer again:

YES	NO

- Any other comments:

My contact details are:

Telephone: _____ Cellphone: _____ Fax: _____

E-mail: _____

Thus signed at _____ on this _____ day of _____ 20____

Signature of principal agent



NOTE:

If reference cannot be verified due to the inability to get hold of the referee or failure on his/her part to respond to a written request to do so, that reference will not score any points. It is the responsibility of the tenderer to put referees who are reachable.

Name of Tenderer

Signature of Tenderer

EVALUATION SCHEDULE 1 – PROJECT REFERENCE FORMS - 2

Project title:	THE SUPPLY, DELIVERY AND INSTALLATION OF A 11 HA SOLIDSET SPRINKLER IRRIGATION AT VIVI AM PROJECT FARM IN THE MHLONTLO LM OF THE OR TAMBO DISTRICT
Project Number:	SCMU8-25/26-0024

NOTE: This returnable document must be completed by the person who was the Engineer/Project Manager on a project of similar value and complexity that was completed successfully by the tenderer.

I, _____ (name and surname)
of _____

_____ (company name) declare
that I was the Project Manager on the following building construction project successfully executed by
_____ (name of tenderer):

Project name: _____

Project location: _____

Construction period: _____ Completion date: _____

Contract value: _____

- Please evaluate the performance of the Tenderer on the abovementioned project, on which you were the principal agent, by inserting "Yes" in the relevant box below:

Key Performance Indicators	Very Poor	Poor	Fair	Good	Excellent	Total
	1	2	3	4	5	
1. Project performance						
2. Quality of Service						
3. Resources: Personnel						
4. Time management / programming						
5. Financial management / Project budget management/cash flow, etc.						
TOTAL						

1. Would you consider / recommend this tenderer again:

YES	NO

2. Any other comments:

3. My contact details are:

Telephone: _____ Cellphone: _____ Fax: _____

E-mail: _____

Thus signed at _____ on this _____ day of _____ 20____

Signature of principal agent



NOTE:

If reference cannot be verified due to the inability to get hold of the referee or failure on his/her part to respond to a written request to do so, that reference will not score any points. It is the responsibility of the tenderer to put referees who are reachable.

Name of Tenderer

Signature of Tenderer

EVALUATION SCHEDULE 1 – PROJECT REFERENCE FORMS - 3

Project title:	THE SUPPLY, DELIVERY AND INSTALLATION OF A 11 HA SOLIDSET SPRINKLER IRRIGATION AT VIVI AM PROJECT FARM IN THE MHLONTLO LM OF THE OR TAMBO DISTRICT
Project Number:	SCMU8-25/26-0024

NOTE: This returnable document must be completed by the person who was the Engineer/Project Manager on a project of similar value and complexity that was completed successfully by the tenderer.

I, _____ (name and surname)
of _____

_____ (company name) declare
that I was the Project Manager on the following building construction project successfully executed by
_____ (name of tenderer):

Project name: _____

Project location: _____

Construction period: _____ Completion date: _____

Contract value: _____

4. Please evaluate the performance of the Tenderer on the abovementioned project, on which you were the principal agent, by inserting “Yes” in the relevant box below:

Key Performance Indicators	Very Poor	Poor	Fair	Good	Excellent	Total
	1	2	3	4	5	
1. Project performance						
2. Quality of Service						
3. Resources: Personnel						
4. Time management / programming						
5. Financial management / Project budget management/cash flow, etc.						
TOTAL						

1. Would you consider / recommend this tenderer again:

YES	NO

2. Any other comments:

3. My contact details are:

Telephone: _____ Cellphone: _____ Fax:

E-mail: _____

Thus signed at _____ on this _____ day of _____ 20____

Signature of principal agent



NOTE:

If reference cannot be verified due to the inability to get hold of the referee or failure on his/her part to respond to a written request to do so, that reference will not score any points. It is the responsibility of the tenderer to put referees who are reachable.

Name of Tenderer

Signature of Tenderer

The Contract

PART C1: AGREEMENT AND CONTRACT DATA

C 1.1

Form of Offer and Acceptance

**EASTERN CAPE PROVINCIAL GOVERNMENT
DEPARTMENT OF AGRICULTURE**

**THE SUPPLY, DELIVERY AND INSTALLATION OF A 11 HA SOLIDSET
SPRINKLER IRRIGATION AT VIVI AM PROJECT FARM IN THE MHLONTLO LM
OF THE OR TAMBO DISTRICT**

C1.1 Form of Offer and Acceptance

*Note: 1 This form of offer and acceptance is identical to that contained in Annex F of SANS 10845 - 1: Construction Procurement Processes, Procedures and Methods.
2 SAICE's Practice Manual #1, The use of South African National Standards in Construction Procurement, provides guidance on the formulation of the wording for the actual offer where it is not based on the offered total of prices.*

Offer

The employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the procurement of: **SCMU8-25/26-0024: THE SUPPLY, DELIVERY AND INSTALLATION OF A 11 HA SOLIDSET SPRINKLER IRRIGATION AT VIVI AM PROJECT FARM IN THE MHLONTLO LM OF THE OR TAMBO DISTRICT** The tenderer, identified in the offer signature block, has examined the documents listed in the tender data and addenda thereto as listed in the returnable schedules, and by submitting this offer has accepted the conditions of tender.

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

**THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF VALUE ADDED TAX
IS.....**

..... Rand
(in words);

R (in figures) (or other suitable wording)

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

Signature(s)		Date:	
Name(s)			
Capacity:			
For tenderer: (Name and address)			
Name & Signature of witness:		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 C1 Agreements and contract data, (which includes this agreement)

Part C2 Pricing data

Part C3 Scope of work

Part C4 Site information and drawings and documents or parts thereof, which may be incorporated by reference into the above listed Parts.

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the returnable 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 form of offer and acceptance. No amendments to or deviations from said documents are valid unless contained in this schedule.

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

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed original copy of this document, including the schedule of deviations (if any). Unless the tenderer (now contractor) within five (5) working days of the date of such receipt notifies the employer in writing of any reason why he/she cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

Signature(s)		Date:	
Name(s)			
Capacity:			
For the employer: (Name and address)			
Name & Signature of witness:		Date:	

SCHEDULE OF DEVIATIONS

Notes:

- 1. *The extent of deviations from the tender documents issued by the employer before 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, become 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 Subject _____

Details:

4 Subject _____

Details:

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

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

For the Tenderer:

For the Employer:

..... Signature

..... Name

..... Capacity

Name and address of organization:

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

Name and address of organization:

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

.....

Witness Signature

.....

.....

Witness Name

.....

.....

Date

.....

CONFIRMATION OF RECEIPT

The Tenderer, (now Contractor), identified in the form of Offer part of the Agreement, hereby confirms receipt from the Employer. Identified in the Acceptance part of the Agreement, of one fully completed original copy of this Agreement. Including the Schedule of Deviations (if any) today:

The(day) of (month) 20.....(year),
at

..... (place)

For the Contractor:

Signature:

Name:

Capacity:

Signature and name of witness:

Signature:

Name:

C 1.2

Contract Data

**EASTERN CAPE PROVINCIAL GOVERNMENT
DEPARTMENT OF AGRICULTURE**

**THE SUPPLY, DELIVERY AND INSTALLATION OF A 11 HA SOLIDSET SPRINKLER IRRIGATION
AT VIVI AM PROJECT FARM IN THE MHLONTLO LM OF THE OR TAMBO DISTRICT**

C1.2 Contract Data

The General Conditions of Contract for Construction Works (2015) published by the South African Institution of Civil Engineering, is applicable to this contract. Copies of these conditions of contract may be obtained from the South African Institution of Civil Engineering (Tel 011-805 5947).

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

The Contract Data and General Conditions of Contract shall have precedence over the Drawings, Scope of Work and Standardised Specifications in the interpretation of any ambiguity or inconsistency.

Contract Specific Data

The following contract specific data, referring to the General Conditions of Contract for Construction Works, Third Edition, 2015, are applicable to this Contract:

Clause	Data
1.1.1.5	“Commencement Date” means the date the Contractor is given right of access to site (Site handover date)
1.1.1.13	The Defects Liability Period is 90 days .
1.1.1.14	The time for achieving Practical Completion is 18 Weeks , inclusive of the 14-day period referred to in Clause 5.3.2 below, and inclusive of non-working days referred to in Clause 5.8.1 below, but exclusive of special non-working days (Clause 5.8.1).
1.1.1.15	The name of the Employer is DEPARTMENT OF AGRICULTURE
1.1.1.16	The name of the Employer’s Agent is Mr.S Kondlo (Chief Engineer – DRDAR)
1.1.1.17	The name of the Employer’s Agent Representative is S Makalima
1.1.1.26	The Pricing Strategy is Re-measurement Contract
1.1.1.34	“writing” means any hand-written typed or printed communication (comprising words, figures or drawings) including electronic communication through means of email, but excluding communication via social media (WhatsApp, Facebook etc.) resulting in a permanent record. “In writing” and “written” shall have corresponding meaning.

1.1.1.35	“Drawings” means all drawings, calculations and technical information forming part of the Contract Documents and any modifications thereof or additions thereto from time to time approved in writing by the Employer’s Agent or delivered to the Contractor by the Employer’s Agent.
1.1.1.36	Letter of Notification” means the letters of formal notification, signed by the Employer, of the decision of the Supply Chain Management Bid Adjudication Committee sent to all tenderers. The notification of the decision does not form part of the Employer’s Acceptance of the successful tenderer’s Offer and no rights shall accrue.
1.2.1	DELIVERY OF NOTICES The following three additional sub-clauses, covering alternative methods of communication, apply: -
1.2.1.3	Sent by electronic post (e-mail) between parties to the email addresses listed during the site handover meeting.
1.2.1.4	Posted to the addressee for certified delivery by the postal Authorities The Chief Engineer OR Tambo District Private Bag X5002 Mthatha, 5099
1.2.1.5	Delivered by a courier service and signed for by the addressee
1.2.1.2	The Employer's address for receipt of communications is: The Chief Engineer DEPARTMENT OF AGRICULTURE OR Tambo District BOTH SIGCAU BUILDING 4 TH FLOOR MTHATHA 5099

2.1.4	<p>The following additional clause applies: -</p> <p>"Without limiting the generality of the afore going, the Schedule of Rates and Prices shall include:</p> <ul style="list-style-type: none"> (a) The provision and use of all labour, plant, tools instruments, templates, materials, transport and all other appliances that may be required for satisfactorily protecting and efficiently carrying out the works without interruption or delay. (b) The provision and housing of adequate staff and labour force and the provision of false work of every kind and description necessary for the due and proper performance of the Contract. (c) The execution of the Works in orderly and progressive manner until it has been completed. Time being of the essence of the Contract the progressive development of the Works shall be arranged so that the time from the start to the finish of the construction of the said Works shall not exceed the time laid down in the Tender. (d) The inclusion in the tendered rates for all and any of the general liabilities such as Establishment Charges, legal contingencies, regulations, risks or damage, Royalties and all other overhead charges. <p>The submission of a tender shall be considered prima facie evidence that the Contractor has complied with the requirements of this clause and has satisfied him/herself as to all circumstances and local conditions which may influence or affect his Tender."</p>
2.4.1	<p>The following additional clause applies: -</p> <p>In the event of any discrepancy or conflict between any parts of the Contract Documents, the order of precedence shall be as follows:</p> <ul style="list-style-type: none"> 1. Project Particular Specifications 2. Special Conditions of Contract 3. General Conditions of Contract 4. Conditions of Tender 5. Generic Specifications 6. Contract Drawings 7. Bill of Quantities
3.2.3	<p>The Employer's Agent shall obtain the specific approval of the Employer before executing any of his functions or duties according to the following Clauses of the General Conditions of Contract:</p> <ul style="list-style-type: none"> Clause 3.3.1 Nomination of Employer's Agent Representative Clause 3.3.4 Employer's Agent authority to delegate Clause 5.8.1 Non-working times Clause 5.11.2 Suspension of the Works Clause 5.12.4 Acceleration instead of extension of time
3.3.7	<p>The following additional clause applies: -</p> <p>The onus rests with the Contractor to raise any item about which the Contractor may be uncertain, with the Engineer's Representative. Any advice given to the Contractor by the Engineer's Representative in response to matters so raised shall not be construed as instructions and shall be held to have been given without prejudice.</p>

3.3.8	<p>The following additional clause applies: -</p> <p>The Employer or the Employer's Agent under delegated authority, reserves the right to obtain the services of consultants on any matter pertaining to this contract; the employment of such consultants forms no part of this contract; a consultant's advice and/or documentation is to be followed only if the Employer's Agent or the Employer's Agent Representative so instructs.</p>
4.1	<p>All references to "design" are deemed to be deleted and the Contractor shall bear no liability in respect of the Projects design, other than the temporary works and items clearly indicated to design on drawings and the Project Particular Specifications.</p>
4.3.3	<p>The following additional clause applies: -</p> <p>The Employer and the Contractor shall enter into an agreement to complete the work required for the construction of the works in terms of the provisions of Section 37(2) of the Occupational Health and Safety Act (Act 85 of 1993) and the Construction Regulations promulgated there under.</p> <p>An agreement is included in the Contract Document (at the end of Contract Data) and shall be completed and submitted to the Employer together with a letter of good standing from the Compensation Commissioner (if not insured with a Licensed Compensation Insurer) within fourteen (14) days after the Commencement Date. The Contractor shall ensure that any letter of good standing shall be timeously renewed in order that it remains in full force for the duration of the Contract.</p>
5.3.1	<p>The documentation required before commencement with the Works execution are:</p> <ol style="list-style-type: none"> 1 Health and Safety Plan (Refer to Clause 4.3) 2 Initial programme (Refer to Clause 5.6) 3 Security (Refer to Clause 6.2) 4 Insurance (Refer to Clause 8.6) 5 Letter of Good Standing from the Compensation Commissioner (if not insured with a Licensed Compensation Insurer)
5.3.2	<p>The time to submit the documentation required before commencement with the Works execution is 14 days.</p>
5.3.3	<p>The Contractor shall commence with execution of the Works within 7 days after receiving an instruction to commence with the Works.</p>
5.4.1	<p>The Contractor shall bear all costs and charges for special and temporary rights of way required by him in connection with access to the Site.</p>
5.5.1	<p>The Works shall be completed (Practical Completion) within 18 Weeks.</p>

5.8.1	<p>The non-working days are Sundays.</p> <p>The special non-working days are:</p> <p>(1) All gazetted public holidays falling outside the year end break.</p> <p>(2) The year end break commencing on 15 December and ending on 5 January</p>
5.8.3	<p>The following additional clause shall apply:</p> <p>Should the Employer's Agent permit work outside of normal Employer working hours (viz Mondays to Fridays inclusive sunrise to sunset) and on Saturdays, Sundays or on any of the non-working days stated in the Appendix and if he deems the presence of the Employer's Agent Representative or other duly authorised representative to be necessary, the Contractor will be liable for the cost of such supervision (calculated at a daily rate of 1/130 of the annual salary of such representative). Where the Employer's Agent has ordered such work, the salary of the representative will be to the account of the Employer.</p> <p>A minimum of 24 hours notification of intent to work outside normal working hours shall be regarded as sufficient notice as set out in 5.8.1"</p>
5.12.2.2	<p>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.</p> <p>However, in the event that delays to critical activities exceed 2 consecutive working days 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.</p> <p>Claims for delays for abnormal climatic conditions shall be accompanied by substantiating facts and evidence, which shall be submitted timeously by the Contractor as each day or half-day delay is experienced.</p> <p>It shall be further noted that where the critical path is not affected, no extension of time for abnormal climatic conditions or for any other reason will be entertained</p>
5.13.1	<p>The penalty for failing to complete the Works is 8.5c/R100 of contract amount per day. No claim for bonus payments in respect of early completion will be entertained.</p>
5.14.1	<p>Practical Completion: In terms of this contract, practical completion will be reached, once all the works have been completed in full, according to the bill of quantities and project specifications, and dually been approved by the Employers agent representative.</p>
5.16.3	<p>The latent defect period is 5 Years.</p>
6.2.1	<p>The security to be provided by the Contractor shall be 10 % Retention.</p>
6.6.1	<p>The provisional sums stated in the Schedule of Quantities are net amounts covering the actual expenditure which the Employer may incur.</p>

6.7.6	<p>The following additional clause shall apply:</p> <p>The Works are measured in accordance with the current SANS 1200 and the standard system of measurement of Civil Engineering quantities for South Africa, published by the South African Institution of Civil Engineers. No claims arising from the method of measurement will be entertained.</p>
6.8.1	<p>Should the rated tendered be unrealistically high or low, the Employer's Agent may instruct the contractor to balance the rates while the contract sum will remain firm, before commencement of construction. The revised balanced rates will be final and binding. And the value of the payment certificates is to be calculated in accordance with the revised rates and/or prices of the tender throughout the period of the Contract.</p>
6.10.1.5	<p>The percentage advance on materials not yet built into the Permanent Works is 80%.</p>
6.10.3	<p>The percentage retention on amounts due to the contractor is 10%, which will be reduced to 5% on date of completion.</p>
6.10.4	<p>Add the following to clause:</p> <p>Notwithstanding the above, the Employer's Agent shall be empowered to withhold the delivery of the payment certificate until the Contractor has complied with his obligations to report in terms of Clause 4.10.2 and as described in the Scope of Work.</p>
8.3.1.6	<p>Electrical supply interruptions due to 'load shedding" implemented by the electricity suppliers is excluded from the risks accepted by the Employer.</p>
8.5.2	<p>The following additional clause shall apply:</p> <p>If the Contractor receives any claim in respect of any loss or injury or damage to any person or property, then the Contractor shall immediately report the same to the Employer's Agent and, if at the end of ninety days from the date of receipt of such claim the Contractor cannot satisfy the Employer's Agent that the claim has been settled or that valid reasons for the non-settlement of the claim exist, then the Employer may, without limiting the obligations and responsibilities of the Contractor, negotiate a settlement and deduct all sums due in respect of such claim from payments due to the Contractor.</p>
8.6.1.1.2	<p>The value of plant and materials supplied by the Employer to be included in the insurance sum is Nil.</p>
8.6.1.1.3	<p>The amount to cover professional fees for repairing damage and loss to be included in the insurance sum is R 200 000.00.</p>
8.6.1.3	<p>The limit of indemnity for liability insurance is R 2 000 000.00 per claim for projects under R 5 000 000.00 and R 5 000 000.00 for projects over R 5 000 000.00.</p>

9.2.1.3.8	Add the following to clause: The Contractor committed a corrupt or fraudulent act during the procurement process or the execution of the contract.
9.2.1.3.8	Add the following to clause: An official or other role player committed any corrupt or fraudulent act during the procurement process or in the execution of the contract that benefited the Contractor.
10.1	Replace all references to 28 days , with 14 days in this clause and all sub clauses.
10.2	Replace all references to 28 days , with 14 days in this clause and all sub clauses.
10.4.1	The parties may at any time agree to settle disputes with the help of an impartial third party.
10.5.3	The number of Adjudication Board Members to be appointed is THREE.

2. CLAUSES APPLICABLE TO EPWP CONTRACTS	
	<ol style="list-style-type: none"> 1. Employer's objectives: The employer's objectives are to deliver infrastructure using labour-intensive methods according to EPWP guidelines. 2. Labour-intensive works: Labour-intensive works shall be conducted using local workers who are temporary employed in terms of the scope of work. 3. Labour-intensive competencies of supervisory and management staff: The contractor shall engage supervisory and management staff in labour intensive works that have completed the skills programme including Foreman/Supervisors at NQF level 4 "National Certificate on supervision of Civil Engineering Construction Processes" and Site Agent/manager at NQF level 5 on "Manage labour-intensive Construction Processes" or equivalent QCTO qualification.
4.1	Variations to the Conditions of Contract are: <i>Add the following at the end of sub clause 4.1.2.</i>
4.1.3	<p>The Employer and the Contractor hereby agree, in terms of the provisions of Section 37(2) of the Occupational Health and Safety Amendment Act, 1993 (Act 85 of 1993), hereinafter referred to as 'the Act', that the following arrangements and procedures shall apply between them to ensure compliance by the Contractor with the provisions of the Act:</p> <ol style="list-style-type: none"> (i) The Contractor undertakes to acquaint the appropriate officials and 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 on the Contractor will be fully complied with. (iii) The Contractor 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 from himself being obliged to comply with any of the aforesaid duties, obligations and prohibitions, with the exception of such duties, obligations and prohibitions expressly assigned to the Employer in terms of the Act and its associated Regulations.

	<p>(iv) The Contractor agrees that any duly authorised officials of the Employer shall be entitled, although not obliged, to take such steps as may be necessary to monitor that the Contractor has conformed to his undertakings as described in paragraphs (i) and (ii) above, which steps may include, but will not be limited to, the right to inspect any appropriate site or premises occupied by the Contractor, or any appropriate records or safety plans held by the Contractor.</p> <p>(v) The Contractor shall be obliged to report forthwith to the Employer and 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 in terms of this Contract, and shall, on written demand, provide full details in writing, to the Employer and Engineer, of such investigation, complaint or criminal charge.</p>
6.7.6	<p><i>Add new subclause 6.7.6:</i></p> <p>"Payment for the labour-intensive component of the works</p> <p>Payment for works identified in the Scope of Work as being labour-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 in contract.</p> <p>The Contractor's payment invoice shall be accompanied by labour information for the corresponding period in a format specified by the employer. If the contractor chooses to delay submitting payment invoices, labour returns shall still be submitted as per frequency and timeframe stipulated by the Employer. The contractor's invoices shall not be paid until all pending labour information has been submitted.</p>
3. ADDITIONAL CONDITIONS OF CONTRACT:	
Clause	
4.13	<p>Add new sub clause 4.13:</p> <p>Applicable labour laws</p> <p>The Ministerial Determination 4, Expanded Public Works Programmes, issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of Labour in Government Notice No R347 of 7 May 2012 (Gazette no 35310), 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.</p>
4.13 (cont.)	<p>1 Introduction</p> <p>1.1 This document contains the standard terms and conditions for workers employed in elementary occupations on a Expanded Public Works Programme (EPWP). These terms and conditions do NOT apply to persons employed in the supervision and management of a EPWP.</p>
4.13 (cont.)	<p>1.2 In this document –</p> <p>(a) "department" means any department of the State, implementing agent or contractor;</p> <p>(b) "employer" means any department, implementing agency or contractor that hires workers to work in elementary occupations on a EPWP;</p> <p>(c) "worker" means any person working in an elementary occupation on a EPWP;</p> <p>(d) "elementary occupation" means any occupation involving unskilled or semi-skilled work;</p> <p>(e) "management" means any person employed by a department or implementing agency to administer or execute an EPWP;</p> <p>(f) "task" means a fixed quantity of work;</p> <p>(g) "task-based work" means work in which a worker is paid a fixed rate for performing a task;</p>

	<p>8.5 A contractor must pay a task-rated worker the worker's daily task rate for a day's sick leave.</p> <p>8.6 A contractor must pay a time-rated worker the worker's daily rate of pay for a day's sick leave.</p> <p>8.7 A contractor must pay a worker sick pay on the worker's usual pay day.</p> <p>8.8 Before paying sick pay, a contractor 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 –</p> <p>(a) absent from work for more than two consecutive days; or</p> <p>(b) absent from work on more than two occasions in any eight-week period.</p> <p>8.9 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.</p> <p>8.10 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.</p>
<p>4.13 (cont)</p>	<p>9 Maternity leave</p> <p>9.1 A worker may take up to four consecutive months unpaid maternity leave.</p> <p>9.2 A worker is not entitled to any payment or employment-related benefits during maternity leave.</p> <p>9.3 A worker must give her employer reasonable notice of when she will start maternity leave and when she will return to work.</p> <p>9.4 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.</p> <p>9.5 A worker may begin maternity leave –</p> <p>(a) four weeks before the expected date of birth; or</p> <p>(b) on an earlier date –</p> <p>(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</p> <p>(ii) if agreed to between employer and worker; or</p> <p>(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.</p> <p>9.6 A worker who has a miscarriage during the third trimester of pregnancy or bears a stillborn child may take maternity leave for up to six weeks after the miscarriage or stillbirth.</p> <p>10 Family responsibility leave</p> <p>10.1 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:</p> <p>(a) when the employee's child is born;</p> <p>(b) when the employee's child is sick;</p> <p>(c) in the event of a death of</p> <p>(i) the employee's spouse or life partner;</p> <p>(ii) the employee's parent, adoptive parent, grandparent, child, adopted child, grandchild or sibling.</p> <p>11 Statement of conditions</p> <p>11.1 A contractor must give a worker a statement containing the following details at the start of employment:</p> <p>(a) the contractor's name and address and the name of the EPWP;</p> <p>(b) the tasks or job that the worker is to perform; and</p>

	<p>(c) the period for which the worker is hired or, if this is not certain, the expected duration of the contract;</p> <p>(d) the worker's rate of pay and how this is to be calculated;</p> <p>(e) the training that the worker will receive during the EPWP.</p> <p>11.2 A contractor must ensure that these terms are explained in a suitable language to any employee who is unable to read the statement.</p> <p>11.3 A contractor must supply each worker with a copy of these conditions of employment.</p>
4.13 (cont)	<p>12 Keeping records</p> <p>12.1 Every employer must keep a written record of at least the following:</p> <ul style="list-style-type: none"> (a) the worker's name and position; (b) copy of an acceptable worker identification; (c) in the case of a task-rated worker, the number of tasks completed by the worker; (d) in the case of a time-rated worker, the time worked by the worker; (e) payments made to each worker. <p>12.2 The employer must keep this record for a period of at least three years after the completion of the EPWP.</p> <p>13 Payment</p> <p>13.1 A contractor must pay all wages at least monthly in cash or by cheque or into a bank account.</p> <p>13.2 A worker may not be paid less than the minimum EPWP wage per day as set out in the National Minimum Wage Act no.9 of 2018 and subsequent updates.</p> <p>13.3 A task-rated worker will only be paid for tasks that have been completed.</p> <p>13.4 A contractor 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.</p> <p>13.5 A time-rated worker will be paid at the end of each month.</p> <p>13.6 Payment must be made in cash, by cheque or by direct deposit into a bank account designated by the worker.</p> <p>13.7 Payment in cash or by cheque must take place –</p> <ul style="list-style-type: none"> (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. <p>13.8 A contractor must give a worker the following information in writing:</p> <ul style="list-style-type: none"> (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. <p>13.9 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.</p> <p>13.10 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.</p> <p>15 Deductions</p> <p>15.1 A contractor may not deduct money from a worker's payment unless the deduction is required in terms of a law.</p>

	<p>15.2 A contractor must deduct and pay to the SA Revenue Services any income tax that the worker is required to pay.</p> <p>15.3 A contractor 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.</p> <p>15.4 A contractor may not require or allow a worker to –</p> <ul style="list-style-type: none"> (a) repay any payment except an overpayment previously made by the contractor 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 contractor or any other person for having been employed.
<p>4.13 (cont)</p>	<p>15 Health and safety</p> <p>15.1 Employers must take all reasonable steps to ensure that the working environment is healthy and safe.</p> <p>15.2 A worker must –</p> <ul style="list-style-type: none"> (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 EPWP; (d) use any personal protective equipment or clothing issued by the contractor; (e) report any accident, near-miss incident or dangerous behaviour by another person to their contractor or manager. <p>16 Compensation for injuries and diseases</p> <p>16.1 It is the responsibility of the contractor to arrange for all persons employed on a ESPWP to be covered in terms of the Compensation for Occupational Injuries and Diseases Act, 130 of 1993.</p> <p>16.2 A worker must report any work-related injury or occupational disease to their contractor or manager.</p> <p>16.3 The contractor must report the accident or disease to the Compensation Commissioner.</p> <p>16.4 An contractor 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 contractor 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.</p> <p>17 Termination</p> <p>17.1 The contractor may terminate the employment of a worker for good cause after following a fair procedure.</p> <p>17.2 A worker will not receive severance pay on termination.</p> <p>17.3 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.</p> <p>18.4 A worker who is absent for more than three consecutive days without informing the employer of an intention to return to work will have terminated the contract. However, the worker may be re-engaged if a position becomes available.</p> <p>17.5 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.</p> <p>18 Certificate of service</p> <p>18.1 On termination of employment, a worker is entitled to a certificate stating –</p> <ul style="list-style-type: none"> (a) the worker's full name; (b) the name and address of the employer; (c) the EPWP on which the worker worked;

	<ul style="list-style-type: none">(d) the work performed by the worker;(e) any training received by the worker as part of the EPWP;(f) the period for which the worker worked on the EPWP;(g) any other information agreed on by the contractor and worker.
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AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT NO. 85 OF 1993

THIS AGREEMENT is made between

(hereinafter called the EMPLOYER) of the one part, herein represented by:

in his capacity as:

AND:

(hereinafter called the CONTRACTOR) of the other part, herein represented by

in his capacity as:

duly authorised to sign on behalf of the Contractor.

WHEREAS the CONTRACTOR is the Mandatory of the EMPLOYER in consequence of an agreement between the CONTRACTOR and the EMPLOYER in respect of

CONTRACT No.: SCMU8-25/26-0024: THE SUPPLY, DELIVERY AND INSTALLATION OF A 11 HA SOLIDSET SPRINKLER IRRIGATION AT VIVI AM PROJECT FARM IN THE MHLONTLO LM OF THE OR TAMBO DISTRICT for the construction, completion and maintenance of the works;

NOW THEREFORE the parties agree as follows:

- 1. **The CONTRACTOR undertakes to acquaint the appropriate officials and employees of the CONTRACTOR with all relevant provisions of the ACT and the regulations promulgated in terms thereof.**
- 2. The CONTRACTOR undertakes to fully comply with all relevant duties, obligations and prohibitions imposed in terms of the ACT and Regulations: Provided that should the EMPLOYER have prescribed certain arrangements and procedures that same shall be observed and adhered to by the CONTRACTOR, his officials and employees. The CONTRACTOR shall bear the onus of acquainting himself/herself/itself with such arrangements and procedures.
- 3. The CONTRACTOR hereby accepts sole liability for such due compliance with the relevant duties, obligations, prohibitions, arrangements and procedures, if any, imposed by the ACT and Regulations, and the CONTRACTOR expressly absolves the EMPLOYER and the Employer's CONSULTING EMPLOYER'S AGENTS from being obliged to comply with any of the aforesaid duties, obligations, prohibitions, arrangements and procedures in respect of the work included in the contract.
- 4. The CONTRACTOR agrees that any duly authorised officials of the EMPLOYER shall be entitled, although not obliged, to take such steps as may be necessary to ensure that the CONTRACTOR has complied with his undertakings as more fully set out in paragraphs 1 and 2 above, which steps may include, but shall not be limited to, the right to inspect any appropriate site or premises occupied by the CONTRACTOR, or to take such steps it may deem necessary to remedy the default of the CONTRACTOR at the cost of the CONTRACTOR.

5. The CONTRACTOR shall be obliged to report forthwith to the EMPLOYER any investigation, complaint or criminal charge which may arise as a consequence of the provisions of the ACT and Regulations, pursuant to work performed in terms of this agreement, and shall, on written demand, provide full details in writing of such investigation, complaint or criminal charge.

Thus signed atfor and on behalf of the **CONTRACTOR**

on this dayday of20_____

SIGNATURE:

NAME AND SURNAME:

CAPACITY:

WITNESS: 1.

2.

Thus signed atfor and on behalf of the **EMPLOYER**

on this dayday of20_____

SIGNATURE:

NAME AND SURNAME:

CAPACITY:

WITNESS: 1.

2.

CESSION OF RIGHTS FOR MATERIALS ON SITE

Claim for materials on site

Payment Certificate No. Date:

Contract:

Employer:

Contract No:.....

Contractor:

I / We, the undersigned,
(Print name)

in my / our capacity as..... of
(Print capacity) (Company)

hereby confirm that the Contractor is the bona fide owner of the goods and materials described in the attached schedule and the Contractor hereby cedes assigns and transfers all the right, title and interest claim and demand in and due to the materials and goods described in the attached schedule in favour of the Employer.

All rights of the Employer in and to this Cession shall become effective immediately upon the Contractor obtaining payment for the goods referred to on the attached schedule (less payment of retention monies that may be validly retained in respect thereof) from which time forward the ownership of all the stated goods and materials will vest in and pass irrevocably to the Employer.

Notwithstanding the foregoing all risk or loss and/or damage to the said goods and materials whilst in the Contractor's stores up until the time that all the goods and materials have been installed in the Works shall be the responsibility of the Contractor.

This Cession shall neither constitute a novation of nor amend the terms of the Contract existing between the Employer and the Contractor nor shall it in any manner vitiate any of the rights and obligations imposed on either party.

Signed by: Date:
for and on behalf of the Contractor.

Witnessed by:Date:

(NOTE: This form, together with the documentary proof of ownership or proof of payment by the Contractor to the supplier, shall accompany the Contractor's claim for payment for materials on site in terms of Clause 49.1.5 of the General Conditions of Contract Third Edition 2015).

PART C2 – PRICING DATA

C 2.1

Pricing Instructions

**EASTERN CAPE PROVINCIAL GOVERNMENT
DEPARTMENT OF AGRICULTURE**

**THE SUPPLY, DELIVERY AND INSTALLATION OF A 11 HA SOLIDSET
SPRINKLER IRRIGATION AT VIVI AM PROJECT FARM IN THE MHLONTLO LM
OF THE OR TAMBO DISTRICT**

C2.1 Pricing Instructions

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

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

3. Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance is made for waste.
4. The prices and rates in these Bills of Quantities are fully inclusive prices for the work described under the items. Such prices and rates cover all costs and expenses that may be required in and for the execution of the work described in accordance with the provisions of the Scope of Work, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the Contract Data, as well as overhead charges and profit. These prices will be used as a basis for assessment of payment for additional work that may have to be carried out.
5. It will be assumed that prices included in these Bills of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders. (Refer to www.stanza.org.za or www.iso.org for information on standards)

6. Where the Scope of Work requires detailed drawings and designs or other information to be

provided, all costs associated therewith are deemed to have been provided for and included in the unit rates and sum amount tendered such items

7. An item against which no price is entered will be considered to be covered by the other prices or rates in the Bills of Quantities. A single lump sum will apply should a number of items be grouped together for pricing purposes.
8. The quantities set out in these Bills of Quantities are approximate and do not necessarily represent the actual amount of work to be done. The quantities of work accepted and certified for payment will be used for determining payments due and not the quantities given in the Bills of Quantities.
9. The short descriptions of the items of payment given in these Bills of Quantities are only for the purposes of identifying the items. More details regarding the extent of the work entailed under each item appear in the Scope of Work.
10. Descriptions in the Bills of Quantities are abbreviated and comply generally with those in the SABS 1200 Standardized Specifications.

C 2.2

Bill of Quantities

SCMU8-25/26-0024
 BILL OF QUANTITIES
 VIVI AM IRRIGATION

VIVIAM IRRIGATION

SECTION A: PRELIMINARY AND GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
	SANS 1200 AA	SECTION A: PRELIMINARY AND GENERAL					
A .1	8.3	FIXED-CHARGE ITEMS					
A .1.1	8.3.1	Contractual Requirements	Sum	=====	=====		
	8.3.2	Establish Facilities on the Site:					
		a) Facilities for Contractor					
A.1.2		Offices and storage sheds	Sum	=====	=====		
A.1.3		Ablution and latrine facilities	Sum	=====	=====		
A.1.4		General responsibilities and other fixed-charge obligations	Sum	=====	=====		
A.1.5	8.3.4	Remove Engineer's and Contractor's Site establishment on completion	Sum	=====	=====		
A.2	8.4	TIME-RELATED ITEMS					
A.2.1	8.4.1	Contractual Requirements	Sum	=====	=====		
A.2.2	8.4.2	Operate and maintain facilities on the Site:					
A.2.2.1	8.4.2.1	a) Facilities for Contractor for duration of construction, except where otherwise stated	Sum	=====	=====		
A.2.3	8.4.5	General responsibilities and other time-related obligations	Sum	=====	=====		
Total Carried Forward							

SCMU8-25/26-0024
 BILL OF QUANTITIES
 VIVI AM IRRIGATION

VIVIAM IRRIGATION

SECTION A: PRELIMINARY AND GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
Brought Forward							
A.3	8.5	SUMS STATED PROVISIONALLY BY ENGINEER					
	8.5	For work to be done by Contractor					
A.3.1		a) Allow for provisional sum for repairs to damaged services which could have been reasonably foreseen	Prov. Sum	10,000.00	=====	10,000	00
A.3.2		b) Overheads, charges and profit on item A.3.1	%	10,000.00			
A.3.3		Remuneration of Community Liaison Officer and remuneration of PSC member	Prov. Sum	25,000.00	=====	25,000	00
A.3.4		Overheads, charges and profit on items A.3.3	%	25,000.00			
A.4	PAM	OCCUPATIONAL HELATH AND SAFETY ACT					
A.4.1	PAM 8.2.1	All costs and obligations to comply with the OHS Act Construction Regulations	Sum	=====	=====		
A.4.2	PAM 8.2.1	Time related obligations to comply with the OHS Act Construction Regulations	Sum	=====	=====		
A.5	8.5	SUMS STATED PROVISIONALLY BY ENGINEER					
A.5.1	8.5	For work to be done by Contractor					
A.5.1.1		a) Allow for provisional sum for the pump house construction	Prov. Sum	80,000.00	=====	80,000	00
A.5.1.2		b) Overheads, charges and profit on item A.5.1.1	%	80,000.00			
Total Carried Forward To Summary							

SCMU8-25/26-0024
 BILL OF QUANTITIES
 VIVI AM IRRIGATION

VIVIAM IRRIGATION

SECTION B: IRRIGATION SYSTEM

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
2		SECTION B: IRRIGATION SYSTEM					
		Earthworks: Solid set Sub-main, Block Controls Feeder and Laterals					
B.1	SABS 1200DB	EARTHWORKS (PIPE TRENCHES)					
	8.3.2	Excavate all materials for trenches, backfill, compact and dispose of surplus materials for pipes					
B.1.1		Trench depth of 1m and width of 0.6m(990m)	m ³	594.0			
B.1.2	8.3.2	Trench depth 0.6m and width of 0.6m (7440m)	m ³	2,678.4			
B.1.3		Extra- over items B.1.1 TO B1.2 above for hard rock	m ³	10.0			
B.1.4	8.3.3	Excavation Ancillaries					
B.1.5		Make up deficiency in back-fill material(provisional)	m ³	10.0			
Total Carried Forward							

SCMU8-25/26-0024
BILL OF QUANTITIES
VIVI AM IRRIGATION

VIVIAM IRRIGATION

SECTION B: IRRIGATION SYSTEM

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
Brought Forward							
B.2	SABS 1200L	MEDIUM PRESSURE PIPELINES					
B.2.1	PPS S18.2	Supply, lay, bed test and disinfect pipes complete with couplings for:					
B.2.2.1	PPS S18.1	125mm uPVC Class 6	m	222.0			
B.2.1.2	PPS S18.1	110mm uPVC Class 6	m	288.0			
B.2.1.3	PPS S18.1	90mm uPVC Class 6	m	288.0			
B.2.1.4	PPS S18.1	75mm uPVC Class 6	m	288.0			
B.2.1.5	PPS S18.1	50mm uPVC Class 6	m	7,440.0			
B.2.2	SANS 966	Supply and place pipes, Valves and Special fittings for Submain					
B.2.2.1	PPS S 18.1	75mm PVC Elbow GO1	No.	12.0			
B.2.2.2	PPS S18.1	125mm x 2" saddle with reinforcing ring	No.	14.0			
B.2.2.3	PPS S18.1	110mm x 2" saddle with reinforcing ring	No.	22.0			
B.2.2.4	PPS S18.1	90mm x 2" saddle with reinforcing ring	No.	22.0			
B.2.2.5	PPS S18.1	75mm x 2" saddle with reinforcing ring	No.	33.0			
B.2.2.6	PPS S18.1	50mm End Cap	No.	90.0			
B.2.2.7	PPS S18.1	AM3 50x63x2"	No.	90.0			
B.2.2.8	PPS S18.1	Reducing socket MR1 90mm x 75mm	No.	12.0			
B.2.2.9	PPS S18.1	Reducing socket MR1 110mm x 90mm	No.	12.0			
B.2.2.10	PPS S18.1	Reducing socket MR1 125mm x 110mm	No.	12.0			
Total Carried Forward							

SCMU8-25/26-0024
 BILL OF QUANTITIES
 VIVI AM IRRIGATION

VIVIAM IRRIGATION

SECTION B: IRRIGATION SYSTEM

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
Brought Forward							
B.3	SABS 1200L	SUBMAIN CONTROL VALVES					
B.3.1	PPS S18.3	Supply and place pipes, valves and special fittings to complete control Head					
B.3.1.1	PPS S18.1	160mm x 100mm Fabricated GMS Saddle with flanged outlet T/D	No.	2.0			
B.3.1.2	PPS S18.1	160mm PVC Stub QR1	No.	4.0			
B.3.1.3	PPS S18.1	160mm Galvanized backing ring T/D	No.	4.0			
B.3.1.4	PPS S18.1	160mm 90 degrees PVC Elbow GO1	No.	4.0			
B.3.1.5	PPS S18.1	150mm Wafer type Butterfly valve with splined shaft, lever operated, Ductile Iron body and SS disc	No.	2.0			
B.3.1.6	PPS S18.1	160mm x 2" Neoprene saddle with Reinforcing ring	No.	3.0			
B.3.1.7	PPS S18.1	50mm Polypropylene nipple	No.	3.0			
B.3.1.8	PPS S18.1	50mm Anti-Vacuum valve female	No.	3.0			
B.3.1.9	PPS S18.1	125mm uPVC Class 6	m	12.0			
3.2		MISCELLANEOUS					
B.2.1	PPS CC9.1	AHCHOR/TRUST BLOCKS AND PEDESTALS					
B.3.2.1		Concrete 25MPa/19mm	m ³	2.0			
B.3.2.2		Formwork	m ²	4.0			
Total Carried Forward							

SCMU8-25/26-0024
 BILL OF QUANTITIES
 VIVI AM IRRIGATION

VIVIAM IRRIGATION

SECTION B: IRRIGATION SYSTEM

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
Brought Forward							
B.4	SABS 1200L	BLOCK CONTROL AND FEEDFER LINES					
B.4.1	PPS S18.4	Supply and place pipes, valves and special fittings complete for Block Controls Feeder Lines					
B.4.1.1		125mm x 100mm fabricated GMS Steel saddle with flanged outlet T/D	No.	11.0			
B.4.1.2		110mm 90 degrees PVC Elbow GO1	No.	22.0			
B.4.1.3	PPS S18.4	100mm Bermad angle valve with 3-way valve, 24VAC Solenoid and pressure reducing pilot, 9 bar	No.	11.0			
B.4.1.4	PPS S18.1	110mm x 1" saddle with reinforcing ring	No.	11.0			
B.4.1.5	PPS S18.1	25mm polypropylene male/female elbow	No.	11.0			
B.4.1.6	PPS S18.1	25mm segev automatic air valve O.EA	No.	11.0			
B.4.1.7	PPS S18.1	110MM X 3/4 Saddle with reinforcing ring	No.	11.0			
B.4.1.8	PPS S18.1	20mm EMEK Vaccum valve O.E.A	No.	11.0			
B.4.1.9	PPS S18.1	8mm Pressure check point	No.	11.0			
B.4.1.10	PPS S18.1	110mm uPVC class 9	m	66.0			
B.4.1.11	PPS S18.1	110mm PVC Stub QR1	No.	22.0			
B.4.1.12	PPS S18.1	110mm Galvanised backing ring T/D	No.	22.0			
B.4.1.13	PPS S18.1	160mm Galvanised backing ring T/D	No.	11.0			
B.4.1.14	PPS S18.1	pvc Tee 110mm	No.	11.0			
Total Carried Forward							

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 VIVI AM IRRIGATION

VIVIAM IRRIGATION

SECTION B: IRRIGATION SYSTEM

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
Brought Forward							
B.5		SOLIDSET SPRINKLER SYSTEM					
B.5.1	PPS S18.11	4mm nozzle(0.858m³/h@2.8Bars) plastic smooth Rotator type non-Impact Sprinkler with 15mm Male BSP Connection	No.	715			
B.5.2	PPS S18.1	50mm x1" Saddle with reinforcing ring	No.	715			
B.5.3	PPS S18.1	PVC Riser 1000mm x 1" threaded both sides	No.	715			
B.5.4	PPS S18.1	Reducing Socket female 25mm x 20/15mm Emjay	No.	715			
B.6.0		MISCELLANEOUS					
B.6.1	PPS CC9.1	Anchor/Thrust Blocks and Pedestal					
B.6.1.1		Concrete 25MPa/19mm	m³	2.0			
B.6.1.2		Formwork	m²	3.0			
B.6.1.3	PPS S18.1	Pipe Cleaner	ℓ	5.0			
B.6.1.4	PPS S18.1	Tangit cement	ℓ	15.0			
B.6.1.5	PPS S18.1	Pipe Lubricant	ℓ	15.0			
B.6.1.6		PTFE Tape	No.	80.0			
Total Carried Forward							

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VIVIAM IRRIGATION

SECTION B: IRRIGATION SYSTEM

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
Brought Forward							
B.7		BULK RISING MAINLINE					
B.7.1	SABS 1200C	PIPELINE CLEARENCE					
B.7.1.1		Excavate in all materials for trenches backfill, compact and dispose of surplus material for: trench depth of 1.0m and width of 1.0m(976m)	m ³	976.0			
B.7.1.2		Extra -over 8.3.2(a) above for Hard rock	m ³	10.0			
B.7.1.3		Excavate and dispose of unsuitable material from trench bottom	m ³	10.0			
B.7.1.4		Excavation Ancillaries: make up deficiency in back filling material	m ³	25.0			
B.7.2		MEDIUM PRESSURE PIPELINES					
B.7.2.1		Supply, lay, bed test and disinfect pipes complete with couplings for: 160mm uPVC Class 9	m	976			
B.7.3.	SABS 1200LB	BEDDING FOR PIPES					
B.7.3.1	8.2.5	a) Selected Granular material	m ³	351.4			
B.7.3.2		b) Selected fill material	m ³	292.8			
B.7.3.3		c)Main fill	m ³	331.8			
Total Carried Forward							

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
Brought Forward							
B.8.1		PUMP AND FITTINGS					
B.8.1.1	PPS S17.8	Kirloskar diesel engine coupled with KSB Pump (provide the pump curve): Centrifugal Pump: to deliver 68m³/h @ 70m head which includes a safety factor at minimum efficiency of 70%(Electric start)	No.	1.0			
B.8.1.2		FENNER Coupling F80	No.	1.0			
B.8.2		SUCTION FITTINGS					
B.8.2.1	PPS S18.1	Flomax FOOTVALVE 159mm	No.	1.0			
B.8.2.2	PPS S18.1	Black Rubber Hose 12BAR	m	24.0			
B.8.2.3	PPS S18.1	Perrot Bend 159mm x 45 degrees	No.	1.0			
B.8.2.4	PPS S18.1	Perrot KMF 159mm x 65mm	No.	1.0			
B.8.2.5	PPS S18.1	Bolts/Nuts +l/R Rings	Sum	1.0	=====	=====	
B.8.3		DISCHARGE FITTINGS					
B.8.3.1	PPS S18.1	PERROT KMF 150mm x 65mm	No.	1.0			
B.8.3.2	PPS S18.1	Elbow FL 150mm x 90 DEGREES	No.	1.0			
B.8.3.3	PPS S18.1	Butterfly Valve 150mm	No.	1.0			
B.8.3.4	PPS S18.1	Perrot KMGn159x150mm	No.	1.0			
B.8.3.5	PPS S18.1	Flange 150	No.	1.0			
B.8.3.6	PPS S18.1	Perrot KMG 159mm x 150mm	No.	1.0			
B.8.3.7	PPS S18.1	Perrot KVS 159mm	No.	1.0			
B.8.3.8	PPS S18.1	Perrot Bend 159mm x 90 degrees	No.	1.0			
B.8.3.9	PPS S18.1	Rubber pipe 150mm x 6m	No.	1.0			
B.8.3.10	PPS S18.1	28mm poly copper pipe x 2m	No.	1.0			
B.8.3.11	PPS S18.1	PVC Elbow 160mm	No.	1.0			
B.8.3.12	PPS S18.1	Non-Return Valve 200mm	No.	1.0			
B.8.3.13	PPS S18.1	PVC Stub + 200mm	No.	2.0			
B.8.3.14	PPS S18.1	Reducing Bush 200mm x 160 PVC	No.	2.0			
B.8.3.15	PPS S18.1	Heavy Duty clamps 150mm	No.	4.0			
B.8.3.16	PPS S18.1	Bolts/Nuts +l/R Rings	Sum	1.0	=====	=====	
B.8.3.17	PPS S18.1	Manual Priming Pump	No.	1.0			
B.8.3.18	PPS S18.1	Funnel	No.	1.0			
Total Carried Forward							

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VIVIAM IRRIGATION

SECTION B: IRRIGATION SYSTEM

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
Brought Forward							
B.8.3.19	PPS S18.1	Bl-pass	No.	1.0			
B.8.3.20	PPS S18.1	160mm x 1" Saddle	No.	2.0			
B.8.3.21	PPS S18.1	28mm Copper to copper bend	No.	1.0			
B.8.3.22	PPS S18.1	25mm Lever type ball valve	No.	1.0			
B.9	PPS S18.12	PUMP TRAILER					
B.9.1		Pump to be mounted on a two wheeled trailer with roof & tyres (roof full length and width of trailer). all steelwork to be treated against rust and paint with a rust resistant paint, easy to move with tractor or small truck in flood situation	Sum	1.0	=====	=====	
Total Carried Forward							

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 BILL OF QUANTITIES
 VIVI AM IRRIGATION

VIVIAM IRRIGATION

SECTION B: IRRIGATION SYSTEM

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	C
Brought Forward							
B.10	SABS 1200L	AIRVALVES					
B.10.1	PPS S18.6	Supply and place Pipes, Valves and Special fittings: 150mm x 150mm Fabricated GMS	No.	2.0			
B.10.2		Air trap Tee Flanged T/D as per Detail	No.	2.0			
B.10.3		PVC COUPLING 160mm	No.	2.0			
B.10.4		160mm PVC Stub QR1	No.	4.0			
B.10.5		160mm Galvanized backing Ring T/D	No.	4.0			
B.10.6		100mm DOUBLE ORIFICE AIR RELEASE AND VACUUM BREAKER (VENT-O-MAT RBX SERIES O.E.A)	No.	2.0			
B.11		MISCELLANEOUS					
B.11.1	PPS CC9.1	Concrete / Thrust blocks and pedestals: Concrete 25MPa/19mm	m ³	2.0			
B.11.2	PPS CC9.1	FORMWORK	m ²	3.0			
B.11.3	PPS CC9.2	Supply, install & paint precast type Route Markers	No.	12.0			
B.12		IRRIGATION SYSTEM TESTING AND OWNER MANAGEMENT TRAINING					
B.12.1		TESTING AND COMMISSIONING OF IRRIGATION SYSTEM					
B.12.1.1	PPS S18.15	Training of Farmer on operation and Maintenance of Pump for period not less than three hours	Sum	1.0	=====	=====	
B.13		PRECAST ROUTE MARKERS					
B.13.1.1	PPS CC9.2	Supply, install & paint precast type Route Markers	No	12			
Total Carried Forward							

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BILL OF QUANTITIES
 VIVI AM IRRIGATION

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	SECTION A: PRELIMINARY AND GENERAL
2	SECTION B: IRRIGATION SYSTEM
SUBTOTAL		_____
5 % Contingencies		_____
SUBTOTAL		_____
15% VAT		_____
Total Carried Forward to Form of Offer		_____

C 3.1

Scope of Work

EASTERN CAPE PROVINCIAL GOVERNMENT

DEPARTMENT OF AGRICULTURE

THE SUPPLY, DELIVERY AND INSTALLATION OF A 11 HA SOLIDSET SPRINKLER IRRIGATION AT VIVI AM PROJECT FARM IN THE MHLONTLO LM OF THE OR TAMBO DISTRICT

C3.1 Scope of Work

1. Scope of Work and Management

TOPIC	SUB TOPIC
DESCRIPTION OF THE WORKS	
Employer's objective	To appoint a contractor for the Supply, Delivery and Installation of Sprinkler Irrigation System in the VIVI AM Farm in Mhlontlo Local Municipality in the OR Tambo.
Overview and extent of works	<p>This contract entails the Supply, Delivery and Installation of Sprinkler Irrigation System with an electrical pump and motor.</p> <p>The installation works shall include the following:</p> <p>Solidset Irrigation System</p> <ul style="list-style-type: none"> • Excavation and trenching for mainline and sub-main lines • Supply, delivery and installation of mainline, sub-main lines, laterals and sprinklers • Supply, delivery and installation of electrical pump and motor • Demonstration of irrigation system
Location of the works	Mdeni village in the Mhlontlo local municipality. Refer to locality drawings for co-ordinates. 30°58'56.57"S 28°50'16.04"E
ENGINEERING	
Design + Drawings + Specifications	Done + Will be issued + Compiled by the division Engineering Services of DOA
PROCUREMENT	
Preferential procurement procedures	Method 1 – Price Preference
Sub-contracting	Sub-contracting will be allowed. The Contractor must however indicate at tender stage which portions of the work will be sub-contracted and to whom.
CONSTRUCTION	
Works specifications	<ol style="list-style-type: none"> 1. The standards specifications will apply, as stated in: "Specifications of Construction Materials and methods to be used for Agricultural on-farm Infrastructure", Second Edition, April 2022, Revision "DRDAR SCMM-02/2022". 2. Applicable SANS 1200 standards for the building works. 3. Attached Project Particular Specifications will apply.
Plant and materials	<ol style="list-style-type: none"> 1. The Employer will not provide any plant or material. 2. The Contractor shall inform the Engineer in good time, to inspect and approve the plant and materials that will be used before construction commences or on arrival of material on site.
Construction equipment	<ol style="list-style-type: none"> 1. The Employer will not provide any equipment. 2. The Contractor shall provide all suitable construction equipment necessary to complete the project.
Existing services	Care should be taken by the contractor not to damage any existing services. The Engineer shall show the position of all existing infrastructure both above ground and below ground to the Contractor and the contractor are to ensure that no excavations shall commence without consent of the Engineer.
Site establishment	<ol style="list-style-type: none"> 1. The Employer will not provide any facilities on site. 2. The Contractor shall provide an office, storage shed, toilets, security, vehicles, labour and accommodation.

Site usage	The Contractor shall not utilize the site for any other purpose than the construction of the agreed works.
Permits and way leaves	The Contractor will negotiate all necessary permits and way leaves with the local community.
Survey control and Setting out works	The Contractor will be responsible for the survey and setting out of all construction levels. After setting out the levels the Contractor will inform the Engineer to inspect the levels before any excavation work or construction work may commence.
MANAGEMENT	
Management of works	<ol style="list-style-type: none"> 1. Applicable SANS 1200, SANS 10400 standards will apply. 2. Attached generic standards will apply. 3. The standards specifications will apply, as stated in: "Specifications of Construction Materials and methods to be used for Agricultural on-farm Infrastructure", Second Edition, April 2022, Revision "DRDAR SCMM-02/2022", will apply. 4. Drawings and specifications will be provided by the Employer and shall be the only acceptable drawings for the agreed works. 5. The Engineer will be available to perform inspections every day on request, but will perform at least one scheduled inspection per week. 6. The Contract type is measured where payments to the Contractor will be made after measurement of the work done by the Engineer according to the following payment schedule. <ol style="list-style-type: none"> 6.1. The Contractor shall submit invoices according to the agreed claims and the Engineer will recommend the payment. 6.2. The Engineer will inspect the work at the Contractor's request to measure the progress and determine the part payment that is due when both parties are in agreement about the claim. 6.3. All payments can include materials that are secured on site under control of the Contractor. Materials on site which are not yet built into the works will be compensated at 80% of the value as per the invoice from the material suppliers. 6.4. The Employer allows for monthly interim payments for the project that can be used, 1 practical and 1 final payment. 6.5. The practical completion of the construction work implies the work is complete and the beneficiaries can use the infrastructure. 6.6. The final and last payment is the retention money that will be paid after a predetermined period after all construction work is done. This is the defects liability period. 6.7. Certificates of Completion and Final Approval will be issued by the Engineer for practical and final construction completion. 7. The Contractor shall provide the Engineer with proof that Insurance has been obtained for the contract period. 8. The Contractor shall keep a daily record of all labour related matters, weather occurrences, all incidents that influenced construction. 9. Communications between the Employer and Contractor will be in writing with copies to all stakeholders. 10. The Contractor shall be responsible for testing the works after completion to ensure compliance with the Employer's requirements. 11. The Employer will commission the works during a public handing over ceremony. 12. The Contractor shall repair all defects of workmanship and materials during the liability period.
Health and safety	<ol style="list-style-type: none"> 1. Attached Generic Occupational Health and Safety Specifications will apply. 2. Applicable SANS 1200, SANS 10400 and 10142 standards will apply; 3. Occupational Health and Safety Act (Act No. 85 of 1993) will apply; 4. The Contractor shall appoint a person that will be responsible for health and safety issues on site and provide the Engineer with the name and credentials of this person. This person must also be trained in First Aid and must have a comprehensive First Aid Kit on site. 5. The Contractor shall be responsible to design and apply measures to prevent accidents or injury to any person or property during construction.

C 3.2

Specifications

PARTICULAR / GENERIC SPECIFICATIONS

PROJECT SPECIFICATIONS FOR BID FOR THE SUPPLY, DELIVERY AND INSTALLATION OF A 11 HA SOLIDSET SPRINKLER IRRIGATION AT VIVI AM FARM IN THE MHLONTLO LM OF THE OR TAMBO DISTRICT

SCOPE

PS SCOPE

THIS BID FOR THE SUPPLY, DELIVERY AND INSTALLATION OF A 11HA SOLIDSETSPRINKLER IRRIGATION AT VIVI AM FARM IN THE MHLONTLO LM OF THE OR TAMBO DISTRICT.

PS 1 DISCLAIMER

The information regarding subsurface conditions, materials on site and site information supplied, is provided in good faith for the contractor's convenience as an indication of conditions likely to be encountered. No responsibility will be accepted for, and there is no guarantee of the information being representative of the whole area of the works or materials.

The information provided will not be regarded as in way limiting. The contractor will be held to have satisfied himself of all conditions to be encountered on site and to allow accordingly in his tendered rates.

PS 2 APPLICABLE STANDARDS

The South African Bureau of Standards, Standard Specifications for Civil Engineering Construction (SABS 1200). It shall however be noted that reference is made in certain of the specifications to other standardized specifications which may or may not be included in this document. Where such specifications are not included, they shall however be deemed to be included in the Contract documents.

The Contractor shall have available for reference on site at all times a full set of the above specifications, together with any other to which they refer. These specifications shall remain the property of the Contractor but shall be made available to the Engineer whenever required throughout the duration of the Contract.

The South African Bureau of Standards, Standard Specifications for Civil Engineering Construction (SABS 1200) shall apply to this Contract together with additional amendments as set out herein

PS 3 PLANT AND MATERIALS

The Employer will not be providing any plant or supplying any materials for use by the Contractor in executing the works. The Contractor must provide all plant and materials of whatever nature necessary to enable him to undertake the works as specified.

The Contractor must provide all necessary samples and copies of the relevant test results required to prove compliance with the specifications, prior to utilisation of any material within the works.

PS 3.1 Construction Equipment

The provision of all tools and equipment of whatever nature, required for execution of the scheduled items, must be the responsibility of the Contractor, and the cost thereof must be included in the rates for the respective items of work.

PS 4 EXISTING SERVICES

The Contractor will be issued with drawings showing the position of existing services in the vicinity of his working area. The Contractor must contact the service authorities concerned (i.e. Water, Sanitation, Electricity and Telecommunications) to confirm the position of existing services, and must apply for the Construction Permit for work programmed within the road reserve when required.

The Contractor is required to undertake work in proximity to existing services and he must take all necessary precautions to prevent any damage to these services. In this regard, the Contractor must excavate by hand to expose and confirm the location and depth of each existing service prior to carrying out any construction over or around the service.

Should his operations result in any damage to existing services, he must immediately notify the Engineer and the local authority, who will inspect the damage and determine what further action is required. The Contractor must be responsible for the cost of all repairs or reinstatement necessary, whether these are carried out with his own resources or by a third party.

PS 5 SITE ESTABLISHMENT

PS 5.1 Services and Facilities Provided by the Employer

The Employer will not provide any facilities or services.

PS 5.2 Facilities Provided by the Contractor

Due to the extremely constricted nature of the site, the Contractor must be required to determine the most convenient location for his camp site in consultation with the Community/Owner such that this will cause the least disruption and interference with his activities. Dependent on his actual space requirement, different components of the camp could be located in different areas.

Should the Contractor elect to locate any or all of his facilities in one area for a certain duration, and then relocate them later, any associated costs must be solely for his account, and no claims of any nature for additional costs will be entertained.

The Contractor will be required to provide certain facilities for the exclusive use of the Engineer and his staff, all as defined in SABS 1200 AB, and as amended by any variations / additions in clause C3.4.1.6.

PS 5.3 Storage and Laboratory Facilities

The employer has no specific requirements for any storage or laboratory facilities, and the Contractor should provide whatever he deems to be necessary to support his activities.

PS 5.4 Other Facilities and Services

Should the Contractor require a supply of municipal water to enable him to undertake any of his activities on the site then he must make his own arrangements with the Community/Owner or Municipality for a suitable point of supply. The Contractor must agree the details of both the position and the size of connection required with the relevant officials, and must be responsible for the cost of the connection, the cost of water used, and the cost of removal and reinstatement on completion.

Should the Contractor require an electrical connection to his campsite then he must submit an application to the Community/Owner, Municipality's electricity department or Eskom as might be applicable to obtain a supply with the necessary capacity at a suitable position. The Contractor must be responsible for the cost of the connection, the cost of electricity used, and the cost of removal and reinstatement on completion.

The Contractor must:

- i) make his own arrangements for whatever telephone and facsimile services he may require.
- ii) provide sufficient serviced, portable toilets at convenient locations for the use of his staff during their time spent on site.
- iii) supply a first aid kit to be available at the site office, and re-stock the contents as and when necessary.
- iv) make available a list of emergency contact numbers for ambulance, police and fire services.
- v) provide the necessary facilities on site to temporarily store refuse, and make arrangements with the Municipality for regular refuse removals. Refuse storage facilities must make allowance for waste separation, re-cycling and re-use wherever possible

All costs associated with any of the above aspects must be included in the relevant preliminary and general items.

PS 5.5 Vehicles and Equipment

No vehicles or specialised equipment is required for the employer and his agents.

PS 5.6 Advertising Rights

No advertising of any kind will be allowed on the site.

PS 5.7 Notice Boards

Two project notice boards will be required in accordance with SABS 1200 AB, and as amended by any variations/additions in clause C3.4.1.6.

PS 6 SITE USAGE

The Contractor must restrict his operations to the boundaries of the site and he must not be allowed to occupy or impact on any other adjacent areas.

PS 7 PERMITS AND WAY LEAVES

The Contractor will be required to provide copies of permits for any borrow pits or quarries from which he intends to obtain bedding material or aggregate.

The Contractor must be responsible for obtaining all of the necessary way leaves, permissions or permits applicable to working near any existing services or other infrastructure on Site, and must ensure that any way leaves, permissions or permits obtained by the Employer's Agent prior to the award of the Contract are transferred into the Contractor's name. (Refer also to clause C3.4.4 above.)

The Contractor must abide by any conditions imposed by such way leaves, permissions or permits.

The Contractor must ensure that all way leaves, permissions and permits are kept on site and are available for inspection by the relevant service authorities on demand.

PS 8 ALTERATION, ADDITIONS, EXTENSIONS AND MODIFICATIONS TO EXISTING WORKS

Wherever the Contractor is required to carry out construction to lines and levels based on or tying into existing infrastructure, he must first check that the information provided for the existing works is accurate and correct. Should there be any discrepancies as regards position, or defects in the quality of the existing work which may affect the proposed work, then the Contractor must report these to the Engineer and request clarification prior to proceeding with the new construction.

PS 9 INSPECTION OF ADJOINING PROPERTIES

The Contractor and the Engineer must together inspect and record the condition of all adjoining properties or existing services, prior to the commencement of any work that may impact on these existing facilities in any way.

PS 10 WATER FOR CONSTRUCTION PURPOSES

The Contractor must make his own arrangements with the Community/Owner or Municipality to obtain water for construction purposes.

PS 11 SURVEY CONTROL AND SETTING OUT OF THE WORKS

The Contractor must be solely responsible for the setting out of his work, and will be provided with the necessary bench marks and co-ordinated pegs on which to base the setting out.

All other control points and benchmarks required for construction or computation of quantities must be set out by the Contractor in consultation with the Engineer. Points set out must be clearly marked and the position and all other relevant data placed on a site plan. A copy of the plan must be handed to the Engineer immediately, for control purposes.

Any existing beacons disturbed or removed during the course of the Contract will be replaced at the Contractor's cost. Only a land surveyor or the Engineer's Surveyor who originally installed the beacons will be allowed to replace them.

PS 12 MANAGEMENT

PS 12.1 Management of the Works

PS 12.1.1 Applicable SANS Standards

The applicable standards are listed in clause PPS 2.

PS 12.1.2 Particular / Generic Specifications

Particular or generic specifications are included for all parts of the work.

PS 12.1.3 Planning and Programming

Within 14 days of the Commencement Date the Contractor must prepare and submit to the Engineer for approval a fully detailed programme showing:

- the sequence and duration of all activities required to undertake the scheduled work.
- the linkage between activities deemed to be on the critical path.
- critical dates for receipt of information and drawings.
- milestone date for Completion of different sections of the work.

Whenever the work deviates significantly from the proposed programme for whatever reason, the Contractor must, following a request from the Engineer, must prepare a new programme that shows how the work will be re-scheduled so as to achieve the original Completion Date.

The Contractor must take cognisance of the exploration work which has to be executed prior repairing or replacing of existing pipelines.

PS 12.1.4 Sequence of the Works

The sequence of work must be carried out strictly in accordance with the approved programme as detailed above.

PS 12.1.5 Methods and Procedures

Prior to the commencement of any work on the Site the Contractor must submit method statements for each separate construction activity that he is required to undertake. The method statements must be submitted to the Engineer for approval at least 10 days prior to the scheduled start of the activity. The method statements must set out the technical procedures to be followed in carrying out the activity and must include details of compliance with both Occupational Health and Safety and Environmental aspects.

The Contractor must ensure that his staff and workers are properly trained in the safe and effective use of any equipment, plant or materials necessary to undertake the work.

PS 12.1.6 Quality Control

The Contractor must provide whatever samples of materials are required for approval prior to commencement, together with the applicable test results to prove compliance with the relevant specification. He must undertake all necessary tests that are stipulated in terms of the applicable specification to ensure that his workmanship meets the required standard.

PS 12.1.7 Environment

The Contractor must ensure that he is fully aware of the requirements of the CEMP and that he understands his responsibilities regarding both his management of the project and the actual construction activities on Site.

PS 12.1.8 Accommodation of Traffic

The Contractor is responsible for the safety of all vehicular and pedestrian traffic affected by his work and must provide all the necessary warning signs, barricading and lighting as necessary, fully in compliance with the requirements of the SADC Road Traffic Signs Manual and with the approval of the Traffic Department.

PS 12.1.9 Other Contractors

The Contractor has sole possession of the site and does not have to deal with other contractors.

PS 12.1.10 Testing, Completion, Commissioning

Each aspect of the work included in the Contract must be fully tested in accordance with the requirements of the relevant standard specification, as amended by the Specification Data as applicable, prior to completion of the works as a whole. All outstanding work must be completed and substandard work must be corrected prior to completion taking place.

PS 12.1.11 Recording of weather

The Contractor is required to keep a detailed record of daily weather conditions on the Site. The information must include rainfall, wind speed and direction, cloud cover and temperature. The format and

extent of detail required must be agreed with the Engineer prior to commencement. (Refer to clause PS 12.1.17) below). A summary of inclement weather shall be recorded in the minutes of site meetings.

PS 12.1.12 Format of Communications

All communication of whatever nature is through the Engineer. Only under circumstances that relate to health and safety can the Contractor act on instructions issued by any other party. These instructions must then be immediately communicated to the Engineer with a request for confirmation of the instruction.

The Contractor is required to provide a suitable triplicate book which is used for communication between the Engineer or his representative and the Contractor. The book may be used for the issue of site instructions, the request for information or inspections, or merely to record aspects of contractual importance.

PS 12.1.13 Key Personnel

Within 14 days of the Commencement Date and prior to commencement of any operations on site, the Contractor shall submit to the Employer's Agent detailed CV's of his key personnel together with their relevant contact details. Should the key personnel not be the same as those included in the tender submission, then the Contractor shall be required to provide personnel with equivalent or better qualifications and experience.

The Contractor keeps a site representative competent to administer and control the works continuously in the Working Areas during the execution of the works. The Contractor informs the Engineer of the name of the site representative, and any instruction given to the site representative by the Engineer is deemed to be given to the Contractor.

PS 12.1.14 Management Meetings

The Contractor is required to attend a monthly site meeting during which all aspects relating to the progress, scope, expenditure, OHS, environmental and general administration of the Contract is discussed. The Contractor must ensure that his representative at the meeting has the necessary understanding and authority to make decisions regarding these issues.

In addition, technical meetings are held on monthly, during which time aspects of a more technical nature relating to the actual construction process and quality of the work are addressed.

PS 12.1.15 Forms for Contract administration

The Contractor will keep all records as stated below as well as the following:

- EPWP forms to be submitted together with all Payment Certificates.
- Report on progress and labour at site meetings.

PS 12.1.16 Payments

All payments to the Contractor are by means of direct electronic transfer and the Contractor must provide his banking details to the Engineer together with the initial payment claim.

PS 12.1.17 Daily Records

The Contractor is required to maintain a daily record of all construction activities taking place on Site which includes details of plant, personnel, and visitors as well as other events such as weather conditions or any circumstances that may have a bearing on the nature and progress of his operations.

The Contractor is required to provide a detailed report at each site meeting. The report must be in a format to be agreed with the Engineer and contain the following:

- Details of actual progress versus programme for each construction activity.
- A daily record of rainfall and other weather events that could affect the work.
- Details of any delays that have occurred due to weather or any other cause.
- A record of resources (people, plant and equipment) present on Site.
- Details of any accidents or lost time incidents that have occurred.
- A list of information required.

PS 12.1.18 Payment Certificates

Payment Certificates shall be drawn up in an agreed format based on the bills of quantities and any variation orders authorised. The date for submission of each payment claim shall be agreed with the Employer's Agent. The procedure for preparation of Payment Certificates shall be as follows:

- The actual quantity for each item shall be agreed with the Employer's Agent or his representative based on the cumulative total of the previous monthly quantity and the additional work carried out during the month.
- The Contractor shall draw up and submit his claim using the agreed quantities.
- The Employer's Agent shall check the claim and confirm the amount to be paid.
- The Contractor shall provide a VAT invoice to the Employer's Agent for the agreed amount.
- The Employer's Agent shall prepare the payment certificate and submit the claim, accompanied by the VAT invoice.

PS 12.1.19 Proof of Compliance with the Law

The Contractor is required to comply with all regulations and laws of whatever nature which are applicable to his operations throughout the duration of the Contract, and produce documentary evidence when requested for all aspects, including, but not limited to:

- Valid proof of registration with the Compensation Commissioner.
- Proof of registration for income tax and VAT.
- Compliance with the Occupational Health and Safety Act and Construction Regulations.

PS 12.2 Health and Safety

The Contractor must comply with all relevant aspects of the Occupational Health and Safety Act together with the Regulations referred to therein, as applicable to the scope of his activities.

Particular attention must be paid to the issuing of the relevant Notices, appointment of responsible people, undertaking Hazard Identification and Risk Assessments, and preparation of a Health and Safety Plan. All necessary documentation must be prepared and submitted for comment and approval immediately after the Contract award.

Specific Health and Safety considerations applicable to this project are detailed in the Occupational Health and Safety Specification, attached to this document.

Method statements submitted for the Contractor's construction activities include details of compliance with Occupational Health and Safety, and must be submitted immediately after the Contract award and prior to commencement with any work on Site.

The Contractor must provide the necessary personal protective equipment and clothing to all staff as relevant for the type of work being carried out.

Whenever the Contractor's staff are subjected to hazardous substances, excessive dust or noise, he must arrange for pre and post-employment medical examinations on the affected employees.

No member of the Contractor's staff is allowed on Site while under the influence of alcohol or drugs. Any member of his staff who exhibit signs of alcohol or drug usage must be immediately removed from the premises.

The Contractor is responsible for the protection of the public in the areas in which he is working and must provide barricades and lighting as necessary to ensure their safety. He is also responsible for the safe control of traffic wherever his works impact on the existing roadways.

**PROJECT SPECIFICATIONS FOR BID FOR THE SUPPLY, DELIVERY AND INSTALLATION OF
A 11HA SOLIDSET SPRINKLER IRRIGATION AT VIVI AM FARM IN THE MHLONTLO LM OF
THE OR TAMBO DISTRICT**

ENVIRONMENTAL MANAGEMENT PLAN

PEM ENVIRONMENTAL MANAGEMENT PLAN

PEM.1 PURPOSE

The purpose of the EMP is to encourage good management practices through planning and commitment with respect to environmental issues, and to provide rational and practical environmental guidelines to minimise disturbance of the natural environment.

PEM.2 RESPONSIBILITIES FOR ENVIRONMENTAL MANAGEMENT

The contractor will be responsible for environmental control on site during construction and the maintenance period. The construction activities will be monitored by an independent environmental specialist and audited against the EMP.

PEM.3 TRAINING AND INDUCTION OF EMPLOYEES

The contractor has a responsibility to ensure that all those people involved in the project are aware of and familiar with the environmental requirements for the project (this includes sub-contractors, casual labour, etc.).

PEM.4 COMPLAINTS REGISTER AND ENVIRONMENTAL INCIDENT BOOK

Any complaints received by the project team from the community will be recorded. The complaint will be brought to the attention of the site manager.

All complaints received will be investigated and a response given to the complainant within 28 days.

All environmental incidents occurring on the site will also be recorded.

PEM.5 ENVIRONMENTAL SAFETY

The management of impacts associated with various categories of concern is discussed as separate topics, indicated below.

PEM.5.1 Soil

- (a) Topsoil should be temporarily stockpiled, separately from (clay) subsoil and rocky material, when areas are cleared. If mixed with clay sub-soil the usefulness of the topsoil for rehabilitation of the site will be lost.
- (b) Stockpiled topsoil should not be compacted and should be replaced as the final soil layer. No vehicles are allowed access onto the stockpiles after they have been placed.
- (c) Stockpiled soil should be protected by erosion-control berms if exposed for a period of greater than 14 days during the wet season. The need for such measures will be indicated in the site-specific report.
- (d) Topsoil stripped from different sites must be stockpiled separately and clearly identified as such. Topsoil obtained from sites with different soil types must not be mixed.
- (e) Topsoil stockpiles must not be contaminated with oil, diesel, petrol, waste or any other foreign matter, which may inhibit the later growth of vegetation and microorganisms in the soil.

- (f) Soil must not be stockpiled on drainage lines or near watercourses without prior consent from the Project Manager.
- (g) Soil should be exposed for the minimum time possible once cleared of invasive vegetation, that is the timing of clearing and grubbing should be co-ordinated as much as possible to avoid prolonged exposure of soils to wind and water erosion. Stockpiled topsoil must be either vegetated with indigenous grasses or covered with a suitable fabric to prevent erosion and invasion by weeds.
- (h) Limited vehicular access is allowed across rocky outcrops and ridges.
- (i) All cut and fill surfaces need to be stabilized with appropriate material or measures when major civil works are complete.
- (j) Erosion and donga crossings must be dealt with as river crossings. Appropriate soil erosion and control procedures must be applied to all embankments that are disturbed and de-stabilized.
- (k) All equipment must be inspected regularly for oil or fuel leaks before it is operated. Leakages must be repaired on mobile equipment or containment trays placed underneath immobile equipment until such leakage has been repaired.
- (l) Soil contaminated with oil must be appropriately treated and disposed of at a permitted landfill site or the soil can be regenerated using bio-remediation methods.
- (m) Runoff must be reduced by channeling water into existing surface drainage system.

PEM.5.2 Water

- (a) Adequate sedimentation control measures must be instituted at any river crossings when excavations or disturbance of a riverbanks or riverbeds takes place.
- (b) Adequate sedimentation control measures must be implemented where excavations or disturbance of drainage lines of a wetland may take place.
- (c) All fuel, chemical, oil, etc. spills must be confined to areas where the drainage of water can be controlled. Use appropriate structures and methods to confine spillages such as the construction of berms and pans, or through the application of surface treatments that neutralise the toxic effects prior to the entry into a watercourse.
- (d) Oil absorbent fibres must be used to contain oil spilt in water.
- (e) During construction through a wetland, the majority of the flow of the wetland should be allowed to pass downstream.
- (f) Vehicular traffic across wetland areas must be avoided.
- (g) No dumping of foreign material in streams, rivers and/or wetland areas is allowed.
- (h) The wetland area and/or river must not be drained, filled or altered in any way including alteration of a bed and/or, banks, without prior consent from the DWAF. The necessary licenses must be obtained in terms of Section 21 and 22 of the National Water Act, 36 of 1998 from DWAF.
- (i) No fires or open flames are allowed in the vicinity of the wetland, especially during the dry season.
- (j) No swimming, washing (including vehicles and equipment), fishing or related activity is permitted in a wetland or river without written permission from the Project Manager.
- (k) Disturbances to nesting, breeding and roaming sites of animals in or adjacent to wetland areas must be minimized.

PEM.5.3 Air

- (a) Speed limits must be implemented in all areas, including public roads and private property to limit the levels of dust pollution.

- (b) Dust must be suppressed on access roads and construction sites during dry periods by the regular application of water or a biodegradable soil stabilisation agent. Water used for this purpose must be used in quantities that must not result in the generation of run-off.
- (c) The site-specific investigation will quantify the impact of dust on nearby wetlands, rivers and dams in terms of sedimentation. Mitigation measures identified during the site specific study must be implemented.
- (d) The Contractor must notify the Principal of all schools within 50m of the site of proposed activities. The Principal must in turn ensure that children with allergies and respiratory ailments take the necessary precautionary measures during the construction period. The Contractor must ensure that construction activities do not disturb school activities e.g. dust clouds may reduce visibility affecting sports activities.
- (e) Waste must be disposed of, as soon as possible at a municipal transfer station, skip or on a permitted landfill site. Waste must not be allowed to stand on site to decay, resulting in malodours.
- (f) Noise control measures must be implemented. All noise levels must be controlled at the source. All employees must be given the necessary ear protection gear. IAP's must be informed of the excessive noise factors.
- (g) The Contractor must inform all adjacent landowners of any after-hour construction activities and any other activity that could cause a nuisance e.g. the application of chemicals to the work surface. Normal working hours must be clearly indicated to adjacent land owners.
- (h) No loud music is allowed on site and in construction camps.
- (i) No fires are allowed if smoke from such fires will cause a nuisance to IAP's.

PEM.5.4 Social and Cultural

- (a) Access by non-construction people onto any construction sites must be restricted. The Contractors activities and movement of staff must be restricted to designated construction areas only.
- (b) The Contractors crew must be easily identifiable due to clothing, identification cards or other methods.
- (c) Rapid migration of job seekers could lead to squatting and social conflict with resident communities and increase in social pathologies if not properly addressed. The Contractor must ensure that signs indicating the availability of jobs are installed.
- (d) Criteria for selection and appointment (by the Contractor) of construction labour must be established to allow for preferential employment of local communities. The Local Authority must be actively involved in the process of appointing temporary labourers.
- (e) Sub-Contractors and their employees must comply with all the requirements of this document and supporting documents e.g. the Contract document that applies to the Contractor. Absence of specific reference to the sub-contractor in any specification does not imply that the sub-contractor is not bound by this document.
- (f) No member of the construction workforce is allowed to wander around private property, except within the immediate surroundings of the site.
- (g) The Contractor must provide suitable sanitation facilities for site staff. Sanitation provided during the construction phase should be managed so that it does not cause environmental health problems. The use of the surrounding fields or grounds for toilet purposes is not permitted under any circumstance.
- (h) The Contractor must arrange for all his employees and those of his sub-contractors to be informed of the findings of the environmental report before the commencement of construction to ensure:
 - A basic understanding of the key environmental features of the work site and environments, and
 - Familiarity with the requirements of this document and the site specific report.

- (i) Supervisory staff of the Contractor or his sub-contractors must not direct any person to undertake any activities which would place such person in contravention of the specifications of this document endanger his/her life or cause him/her to damage the environment.
- (j) The demand for construction materials and supplies will have an effect on the local economy. This impact can be optimised by sourcing and purchasing materials locally and regionally wherever possible, insofar as the material complies with the design specification.
- (k) The Contractor must maintain a detailed complaints register. This must be forwarded, together with solutions, to the authorities when requested.

PEM.5.5 Aesthetics

(a) Scenic Quality

Damage to the natural environment must be minimized.

Trees and tall woody shrubs must be protected from damage to provide a natural visual shield. Excavated material must not be placed on such plants and movement across them must not be allowed, as far as practical.

The clearing of all sites must be kept to a minimum and surrounding vegetation must, as far as possible, be left intact as a natural shield.

No painting or marking of natural features must be allowed.

- (b) All above ground structures could be treated or painted to blend in with the natural environment.
- (c) Cut and fill areas, river and stream crossings and other soil stabilisation works must be constructed to blend in with the natural environment.
- (d) Natural outcrops, rocky ridges and other natural linear features, must not be bisected. Vegetation on such features must, as far as possible, not be cut unless absolutely necessary for construction.
- (e) Excavated material must be flattened (not compacted) or removed from site. No heaps of spoil material must be left on site once the Contractor has moved off site either temporarily or permanently.
- (f) Any complaints from interest groups regarding the appearance of the construction site must be recorded and addressed promptly by the Contractor.

PEM.5.6 Archaeology and Cultural Sites

- a) All finds of human remains must be reported to the nearest police station.
- b) Human remains from the graves of victims of conflict, or any burial ground or part thereof which contains such graves and any other graves that are deemed to be of cultural significance may not be destroyed, damaged, altered, exhumed or removed from their original positions without a permit from the South African Heritage and Resource Agency (SAHRA).
- c) Work in areas where artefacts are found must cease immediately.
- d) Under no circumstances must the Contractor, his/her employees, his/her sub-contractors or his/her sub-contractors' employees remove, destroy or interfere with archaeological artefacts. Any person who causes intentional damage to archaeological or historical sites and/or artefacts could be penalised or legally prosecuted in terms of the National Heritage Resources Act, 25 of 1999.
- e) A fence at least 2 m outside the extremities of the site must be erected to protect archaeological sites.
- f) All known and identified archaeological and historical sites must be left untouched.
- g) Work in the area can only be resumed once the site has been completely investigated. The Project Manager will inform the Contractor when work can resume.

PEM.5.7 Flora

- a) All suitable and rare flora and seeds must be rescued and removed from the site. They must be suitably stored, for future use in rehabilitation.
- b) The felling and/or cutting of trees and clearing of bush must be minimised.
- c) Bush must only be cleared to provide essential access for construction purposes.
- d) The spread of alien vegetation must be minimized.
- e) Any incident of unauthorised removal of plant material, as well as accidental damage to priority plants, must be documented by the Contractor.
- f) Woody vegetative matter stripped during construction must either be spread randomly throughout the surrounding fields so as to provide biomass for other microorganisms and habitats for small mammals and birds, or it may be stockpiled for later redistribution over the reinstated top soiled surface. No vegetative matter must be burnt or removed for firewood other than those removed during the grubbing and clearing phase. Such vegetation can be made available to the local inhabitants to be used as firewood.
- g) No tree outside the footprint of the Works area must be damaged.

PEM.5.8 Fauna

- a) No species of animal may be poached, snared, hunted, captured or willfully damaged or destroyed.
- b) Snakes and other reptiles that may be encountered on the construction site must not be killed unless the animal endangers the life of an employee.
- c) Anthills and/or termite nests that occur must not be disturbed unless it is unavoidable for construction purposes.
- d) Disturbances to nesting sites of birds must be minimized.
- e) The Contractor must ensure that the work site is kept clean and free from rubbish, which could attract pests.

PEM.5.9 Infrastructure

- a) The relevant authorities must be notified of any interruptions of services, especially the District Municipality, Local Municipality, National Road Agency, Spoornet, TELKOM and ESKOM. In addition, care must be taken to avoid damaging major and minor pipelines and other services.
- b) The integrity of property fences must be maintained.
- c) No telephone lines must be dropped during the construction operations, except where prior agreement by relevant parties is obtained. All crossings must be protected, raised or relocated as necessary.
- d) All complaints and/or problems related to impacts on man-made facilities and activities must be promptly addressed by the Contractor and documented.
- e) Storage Facilities
 - Proper storage facilities should be provided for the storage of oils, grease, fuels, chemicals and hazardous materials.
 - The Contractor must ensure that accidental spillage does not pollute soil and water resources.
 - Fuel stock reconciliation must be done on all underground tanks to ensure no loss of oil, which could pollute groundwater resources.

- Cement must be stored and mixed on an impermeable substratum.

f) Traffic Control

All reasonable precautions must be taken during construction to avoid severely interrupting the traffic flow on existing roads, especially during peak periods.

Before any work can start the Local Traffic Department must be consulted about measures to be taken regarding pedestrian and vehicular traffic control.

g) Access Roads

The Contractor and the affected landowner must collaborate on the planning and construction of new access routes and the repair or upgrading of existing routes.

Access to the site must be controlled such that only vehicles and persons directly associated with the work gains access to the site.

Temporary access roads must not be opened until required and must be restored to its former state as soon as the road is no longer needed.

h) Batching Plants

Concrete must be mixed only in an area demarcated for this purpose. All concrete spilled outside this area, must be promptly removed by the Contractor and taken to a permitted waste disposal site. After all concrete mixing has been completed, all waste concrete must be removed from the batching area and disposed of at an approved dumpsite. Storm water must not be allowed to flow through the batching area. Water laden with cement must be collected in a retention area for evaporation and not allowed to escape the batching area. Operators must wear suitable safety clothing.

- i) Chemical toilet facilities should be managed and serviced by a qualified company. No disposal or leakage of sewerage should occur on or near the site.

j) Blasting

Blasting must not endanger public or private property.

Noise mufflers and/or soft explosives must be used to minimize the impact on animals.

All the provisions of the Explosives Act, 26 of 1956 and the Minerals Act, 50 of 1991 must be complied with.

The Contractor must take measures to limit fly rock.

PEM.5.10 Safety

- a) Measures must be taken to prevent any interference that could result in flashover of power lines due to breaching of clearances or the collapse of power lines due to collisions by vehicles and equipment.
- b) Measures must be taken during thunderstorms to protect workers and equipment from lightning strikes.
- c) All tall structures must be properly earthed and protected against lightning strikes.
- d) The process of excavation and back filling must be carried out as a sequential process following one another as quickly as possible. Excavations must only remain open for a minimum period of time and during this time they must be clearly demarcated. If excavations place the public at risk these sites must be fenced.
- e) The residents directly affected by open trenches must be notified of the dangers. This will be done during the site-specific phase.

PEM.5.11 Waste

PEM 5.11.1 Solid Waste

- (a) Littering on site and the surrounding areas is prohibited.
- (b) Clearly marked litterbins must be provided on site. The Contractor must monitor the presence of litter on the work sites as well as the construction campsite.
- (c) All bins must be cleaned of litter regularly.
- (d) All waste removed from site must be disposed at a municipal/permitted waste disposal site.
- (e) Excess concrete, building rubble or other material must be disposed of in areas designated specifically for this purpose and not indiscriminately over the construction site.
- (f) The entire works area and all construction sites must be swept of all pieces of wire, metal, wood or other material foreign to the natural environment.
- (g) Contaminated soil must be treated and disposed of at a permitted waste disposal site, or be removed and the area rehabilitated immediately.
- (h) Waste must be recycled wherever possible.

PEM 5.11.2 Liquid Waste

- (a) The Contractor must maintain mobile toilets on site.
- (b) The Contractor must provide adequate and approved facilities for the storage and recycling of used oil and contaminated hydrocarbons. Such facilities must be designed and sited with the intention of preventing pollution of the surrounding area and environment.
- (c) All vehicles must be regularly serviced in designated area within the Contractors camp such that they do not drip oil.
- (d) All chemical spills must be contained and cleaned up by the supplier or professional pollution control personnel. Run-off from wash bays must be intercepted.

PEM 5.11.3 Hazardous Waste

- (a) No hazardous materials must be disposed of in the field or anyplace other than a registered landfill for hazardous material. Hazardous waste must be stored in containers with tight lids that must be sealed and must be disposed at an appropriately permitted hazardous waste disposal site. Such containers must not be used for purposes other than those originally designed for.
- (b) The Contractor must maintain a hazardous material register.

PEM.5.12 Rehabilitation and Site clearance

- (a) When all major construction activities are completed, the site must be inspected to determine site-specific rehabilitation measures. This may be considered as unplanned work e.g. soil rehabilitation due to oil spills.
- (b) All temporary buildings and foundations, equipment, lumber, refuse, surplus materials, waste, construction rubble fencing and other materials foreign to the area must be removed.
- (c) If waste products cannot be recycled they must be disposed of at a permitted landfill site.
- (d) All drainage deficiencies including abandoned pit latrines and waste pits must be corrected.

- (e) Cut and fill areas must be restored and re-shaped.
- (f) The area must be restored to its natural vegetation condition using indigenous trees, shrubs and grasses as directed by a grassland and/or rehabilitation expert.
- (g) Borrow pits must be re-shaped into even slopes and surfaces to blend with the natural terrain and topsoil must be replaced.
- (h) The grass mix, shrubs and trees used for rehabilitation must be compatible with the species identified in the site-specific investigation.
- (i) Areas compacted by vehicles during construction must be scarified to allow penetration of plant roots and the regrowth of natural vegetation.

PEM.6 MEASUREMENTS AND PAYMENT

No additional payment will be made to the Contractor to comply with the above actions as it will be deemed to be included in the rates tendered.

PROJECT PARTICULAR SPECIFICATIONS FOR THE BID FOR THE SUPPLY, DELIVERY AND INSTALLATION OF A 11HA SOLIDSET SPRINKLER IRRIGATION AT VIVI AM FARM IN THE MHLONTLO LM OF THE OR TAMBO DISTRICT

The Department of AGRICULTURE, (DOA, hereinafter "The Department") OR District, requires a contractor for the Supply, Delivery and Installation of a solidset sprinkler irrigation system, electrical pump and motor, and pipeline at VIVI AM Farm in Mhlontlo Local Municipality. The Department's emphasis is **on using mainly local labour for the works** during the process in accordance with standards and norms of the Eastern Cape Department of AGRICULTURE/ Department of Agriculture.

PPS 1.2 Scope of Contract

EXTENT OF WORKS

Covers the installation of a sprinkler irrigation system.

The Contract for installation of solidset sprinkler irrigation system will include the following works:

- Supply and delivery of SABS and all pipe fittings,
- Supply, delivery of reliable a KIRLOSKAR Engine with delivery of 68 m³/h at a 70m pumping head and all necessary pump fittings
- Installation of electrical motor, VSD and all accessories
- Testing of the electrical pump and motor and commissioning, and
- Training the farmer and one Department's staff the operation and maintenance of the irrigation system.

PPS 2 DESCRIPTION OF SITES AND ACCESS

PSC 2.1 VIVI AM Farm is located 10km away from Qumbu . Access to the site is along the Qumbu main road(see attached Locality Map), Irrigation System Layout Plan will be available during Clarification/Briefing meeting and directions can be obtained from the Manager Coordination Mr S. Makalima (contact at on 083 262 2636).

The GPS co-ordinates are -

VIVI AM FARM: 30°58'56.57"S 28°50'16.04"E

PS 3 DISCLAIMER

The information regarding subsurface conditions, materials on site and site information supplied, is provided in good faith for the contractors' convenience as an indication of conditions likely to be encountered. No responsibility will be accepted for, and there is no guarantee of the information being representative of the whole area of the works or materials. The information provided will not be regarded as in way limiting. The contractor will be held to have satisfied themselves of all conditions to be encountered on site and to allow accordingly in his tendered rates.

PPS4 CONDITIONS APPLICABLE TO ALL PARTICULAR SPECIFICATIONS

USE OF LOCALLY MANUFACTURED MATERIALS AND PRODUCTS:

Materials and products manufactured in South Africa shall be used in carrying out the work to which this specification refers, unless an imported product is prescribed specifically, or when no suitable locally manufactured product for the specific use is available.

APPLICATION OF CLAUSES:

All clauses in this specification which describe the materials and methods to be used in carrying out the work specified in the specification of work to be done, or indicated on the drawings, or included in the bills of quantities, or in any detail drawings, or instructions issued by the Engineer to the Contractor during the progress of the work, shall be considered as applying to the performance of the contract.

SAMPLES:

The Tender
Reference no: SCMU8-25/26-0024

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The Contractor shall furnish without delay, such samples and/or certificates as called for or may be called for by the Engineer. Materials and/or workmanship not corresponding with approved samples may be rejected.

WATER:

Clean, fresh water free from vegetable or organic matter, earth, clay, acid or alkaline substances either in suspension or in solution, other than those used for purification thereof by the responsible authority, shall be used through-out. Where there is any reason to suspect the presence of impurities, the Engineer may require the Contractor to obtain a chemical analysis of the water by a competent analyst at his own cost. Should the water prove unsuitable for use the Contractor must procure water of an approved source.

STANDARD DETAIL DRAWINGS:

All standard detail drawings applying to a particular service and referred to in this document, in the specification or in the bills of quantities, may be seen by Tenderers at the office of the Engineer for the carrying out of the work.

SCALE:

The scale to which the drawings are prepared is only to be made use of when no figured dimensions are given, either on the drawings or in the specification. Figured dimensions are always to be followed though they may not coincide with the scale of the drawings. Where possible dimensions are to be taken from all relevant existing buildings.

UNITS OF MEASUREMENTS:

Units of measurements have been standardized in accordance with "Système International d'Unites" (SI).

INTERPRETATION OF DRAWINGS ETC.:

Should any part of the drawings, specification or bills of quantities not be clearly intelligible to the Contractor or that the materials or articles to be used in the execution of the works be considered insufficiently described, the Engineer shall be requested in writing, to make clear, also in writing, his requirements, failing which the Contractor shall be liable to make, at his own expense, any alterations or substitutions rendered necessary through incorrect interpretation of such drawings, specification or bills of quantities.

DETAILS:

Upon receipt of detail drawings for any work the Contractor shall, before putting that work in hand, ascertain that the dimensions given on the Detail Drawings correspond with the dimensions of any work already built which governs the sizes of the work for which the detail is given. In the event of the detail drawings not agreeing with the work already built, the drawings shall be at once returned for alterations as no claim for extra work will be entertained in this respect.

PS5. SOUTH AFRICAN STANDARD SPECIFICATIONS AND CODES OF PRACTICE:

STANDARD SPECIFICATIONS:

SABS 135 ISO metric black bolts, screws, and nuts (hexagon and square)

SANS 966 Pipes, Valves and Specials (Pipeworks)

SABS 471 Portland Cement (ordinary, rapid hardening and sulphate- resisting)

SABS 763 Hot-dip (Galvanised) Zinc Coatings other than on continuously zinc-coated sheet and wire

SABS 1200 Standardized Specifications for Civil Engineering Construction

SANS 1305 Sealing surround for the building industry, one-component Silicone-rubber based

SANS 2001-BE1 Construction Works. Part BE1: Earthworks (general)

SANS 2001-CC2 Construction Works. Part CC2: Concrete Works (Minor Works)

SABS 1200DB Earthworks (Pipe Trenches)

SABS 1200L Medium Pressure Pipeline

CODES OF PRACTICE:

SABS 0155 Accuracy in building

SABS 0040 The application of the National Building Regulations

SANS 0160 General procedures and loadings to be adopted for the design of buildings

SABS-ISO 9000 Series Quality management systems

STANDARD TEST METHODS:

STM 861 Sampling of freshly mixed concrete

STM 862 Slump of freshly mixed concrete

STM 863 Compressive strength of concrete

(IN ALL CASES THE LATEST PUBLICATION OR REVISION SHALL APPLY.)

ACCURACY IN BUILDING WORK:

The method of measurement and accuracy of dimensions required for the setting out of structures and for completed building work shall be as described in SABS Code of Practice 0155, unless otherwise specified in this document.

PPS 5 UNITS, SYMBOLS, MEANING OF TERMS

The units of measurement are metric units as standardized by the “Système International d’Unités” (SI). The following unit symbols are used in this document:

°C	degree Celsius	L	Litre
g	Gram	m	Metre
Hz	Hertz	m ²	square metre
h	Hour	m ³	cubic metre
d	Day		
kN	Kilonewton	mm	Millimeter
kPa	Kilopascal	MPa	Megapascal
kW	Kilowatt	t	Tonne

Meaning of terms

The following terms are explained as follows:

according to manufacturer’s instructions: the manufacturer’s instructions at the time of tender

applicable standard : a national recognized standard applicable to the works, implying that the relevant standard is a contract document, a copy of which has to be kept in the site office for reference

as specified : as specified in the Particular Specification or in the drawings or in the scope of work

coastal area : area between the coastline and an imaginary line 30 km inland, including the entire area of jurisdiction of any local authority falling within this region

competent person : person who is qualified by virtue of his education, training, experience and contextual knowledge to make a determination regarding the performance of a building or part thereof in relation to a functional regulation or to undertake such duties as may be assigned to him in terms of these regulations, as further defined in SANS 10400

comply : meet specified standards

drawings : the drawings forming part of the contract documents, and any modification thereof or additions thereto delivered to the contractor during the execution of the works; drawings include schedules

MOD AASHTO: An internationally accepted test to determine the density of compacted material like soil filling, expressed as a percentage of the maximum compaction of the filling at various moisture contents as determined in a laboratory

NBR: National Building Regulations

SABS: South African Bureau of Standards

SANS: South African National Standard

specification data: data required by SANS 2001 Construction Works standards without which the specification is incomplete. Specification data listed in PW371 is simplified and generally accepts default values or requirements – consult Annex A of the relevant SANS 2001 standard for the complete list

suitable: capable of fulfilling or having fulfilled the intended function, or fit for its intended purpose

PPS EARTHWORKS

PPS BE1 SITE CLEARANCE

Areas to be cleared and grubbed. Both borrow areas and the portions of the site on which excavations are to be carried out and the shed constructed, shall be cleared or grubbed, or both, the Contractor shall excavate the top 150mm of topsoil including all of the smaller vegetation (grass and shrubs, bushes) and stockpile it. The contractor shall not commence with clearing and grubbing until the Engineer has designated, in writing and in detail, the exact areas to be stripped of topsoil and the time at which the work to be started.

Cutting of trees. The contractor shall take the necessary precautions to prevent injury to persons and animals and damage to structures and other private and public property. Where necessary, trees shall be cut in sections from the top downwards.

Branches overhanging boundaries. The branches of trees to be left standing shall be so trimmed as not to encroach upon the space (of height at least 7m) vertically above any carriageway, railway formation, or other designated area.

Preservation of trees. No tree shall be cut down until the engineer has given written authorization for such work to commence.

Clearing. Clearing shall consist of:

The removal of all trees, rubbish, fences, and all other material that may interfere with the construction of the work.

The disposal of all material resulting from clearing.

The removal of rocks and boulders of size up to 0.15m³ that are lying on the surface to be cleared or exposed during the clearing operations.

Where fences have to be taken down, sorting, coiling, and stacking of the material.

The removal and stacking of other reusable materials as scheduled.

The moving of a certain amount soil or gravel may be inherent in or unavoidable during the process of clearing. No extra payment will be made for the removal such soil or gravel.

Grubbing. All stumps and roots larger than 75mm in diameter shall be removed to a depth of at least 600mm below the finished level and at least 100mm below the original ground level. Where the area has to be compacted, all stumps and roots including matted roots shall be removed to a depth of at least 200mm below the cleared surface.

Except in borrow areas, cavities resulting from grubbing shall be backfilled with approved material and compacted to a density at least equal to that of the surrounding ground.

Re-clearing of vegetation. If during the contract period vegetation should again grow on any portion of the site, borrow areas, or the areas that have been cleared in accordance with the specification, the Engineer may, if considers it necessary, order that such area be re-cleared.

Such re-clearing shall include the removal and disposal of grass, shrubs, and other vegetation, as in the first clearing operation.

Conservation of topsoil. The terms of Sub-clause 5.2.2 of SANS 1200DA: 1988 shall apply.

EXCAVATION

The permissible degree of accuracy for all excavations shall be of accuracy III (Table 2).

Table 1: Permissible deviations: excavations

	Permissible Deviation (PD)
	Degree of Accuracy III
	mm
<u>Position on plan.</u> Permissible deviation, PD in plan of any point measured from the nearest grid line.	±50
<u>Dimensions on plan.</u> PD from the design dimensions	±75
<u>Footing level.</u> PD in level of surface of excavation trimmed to receive concrete.	±75
<u>Level.</u> PD from designated level with reference to the nearest transferred bench mark of any floor slab	±20

After the topsoil has been removed, excavation shall be carried out first to any general levels to which the ground has to be reduced and after that to the depths indicated on the drawings or to such greater depths as may be ordered or approved to ensure satisfactory foundation levels.

The excavated surfaces for shall be trimmed to function as the formwork for the floor slabs and the column foundations to the dimensions as indicated on the drawing.

Immediately before any permanent construction is commenced, the bottom of each excavation shall be cleaned of all loose material and soft material shall be rammed to the level as indicated on the drawings.

Should the Contractor excavate to dimensions in excess of those stipulated or permitted, he shall fill in the excess at his own expense in the manner specified or approved by the Engineer.

Topsoil shall be stockpiled temporarily and returned to be spread over the surrounding site.

The Contractor properly deals with and disposes of water to ensure that the works are kept sufficiently dry for their proper execution. His responsibility will be held to include the provision of adequate protection against flooding and damage by storm water, flow from springs, and seepage, and to include provision for the repair, at his expense, any of the damage to the works that may arise as a result of the inadequacy of the protection provided by him. Except where the use of tremies has been approved, foundation and floor excavations shall be kept free from water at all times until they have been inspected and approved and the concrete have been cast.

The Contractor/Bidder shall drain borrow areas to prevent pools forming.

PPS BE2 MEASUREMENT AND PAYMENT: SITE CLEARANCE

Basic principles.

The items scheduled for clearance will be classified according to the nature of the materials involved and the methods of their disposal.

Only those areas designated to be cleared will be measured for payment.

The removal of topsoil from the specified area will be measured as excavation and no payment will be made for it under clearing and grubbing.

Scheduled items.

Clear and grub.....m²

The area designated by the Engineer and cleared and grubbed will be measured to the nearest 0.1m². The rate shall cover the cost of removing boulders of size up to 0.15m³, grubbing of trees and tree stumps, cutting of trunks and branches exceeding 0.5m in girth into transportable lengths, backfilling of cavities, removing, transporting, and disposing of material thus cleared, grubbed and cut. Boulders over 0.15m³ will be dealt with as excavation in terms of the items scheduled for bulk excavations. The rate is for the shed, handling facilities and toilet.

<u>Remove and grub large trees and tree stumps of girth:</u>	
Over 1m and up to and including 2m.....	No.
Over 2m and up to and including 3m.....	No.
Over 3m, in steps of 1m.....	No.

The girth of a tree or stump will be measured at the narrowest point of the tree or stump in the first meter of its length above the ground level. Trees and stumps of girth exceeding 1m will be measured individually and classified according to the size in increments of 1m as indicated above.

The unit of measuring the site clearance will be in number as indicated.

The rate shall cover the cost of clearing and grubbing trees and stumps of all sizes, cutting branches, backfilling holes, and removing, transporting, and disposing of all such trees, stumps, and branches and associated material.

PPS BE3

MEASUREMENT AND PAYMENT: EXCAVATION

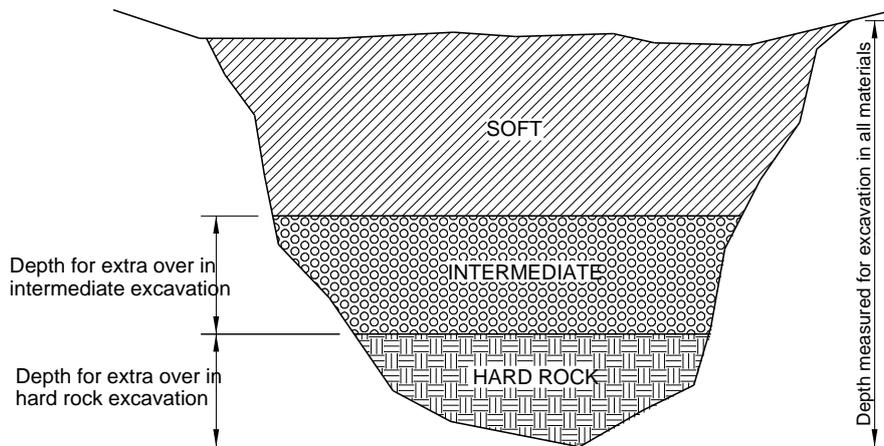


Figure 1: Classes of Excavation: Measurement and Payment

Basic principles

The basic principles for measurement and payment for all earthworks are that the rates tendered for excavation shall cover the cost of excavating and re-use of the material in backfilling and required slopes for the floor and furrow, and the cost of disposal of surplus and unsuitable material within the free haul distance of 500m. Separate additional payment will be made for filling excess excavation, forming banks or terraces, disposing of surplus material, or any other contingent work, only where specifically prescribed and scheduled.

Excavations which are required to be backfilled will be measured as if taken out with vertical sides regardless of whether they have been taken out with sloping sides. They will be measured from the net plan of the finished concrete footing except that, in the case of conical or other such structures, the volume will be measured from the finished outline of the concrete as shown on the drawings.

Where extra excavation for outside formwork or working space is specified or ordered prior to the start of bulk excavation for a structure, such excavation will be measured as part of the bulk excavation.

Computation of quantities

Earthworks will be measured by volume once only, in excavation. Measurements will be to finished shapes, sections and profiles as shown on the drawings or ordered, and no excavation outside the specified lines and levels will be included in the measurements unless such extra work has been done on the written instructions of the Engineer.

The volumes of material handled will be computed from plan dimensions and the total depth excavations. Volumes removed incidentally will be disregarded in excavation quantities but the volumes (computed from areas and depths) moved in excavation of stated depth of topsoil will be added to the scheduled "Remove topsoil" volume.

Scheduled items.

Remove Topsoil and stockpile.....m²

The rate shall cover the cost of removing the topsoil to a depth of 150mm, together with such vegetation and small roots occur within the specified depth, and of stockpiling it on designated sites. The rate is for the shed, handling facilities and toilet.

Excavation

Excavate in all materials and use for floor slope preparation and backfill and dispose of excess as ordered.....m³

Separate items will be scheduled for each type of excavation and for each type or manner of disposal of excavated material.

The rate shall cover the cost of excavation, basic selection, loading, transportation within the free haul distance of 500m, offloading, spreading or backfilling, watering, compacting, final grading, complying with the requirements for tolerances, and disposal of soil, all in accordance with the requirements given on the drawings.

Extra over for

Intermediate excavation..... m³

Hard rock excavation..... m³

Boulder excavation, Class A..... m³

Boulder excavation, Class B..... m³

The rate shall cover the additional cost of the operations enumerated in “Excavate in all materials and use for floor slope preparation and backfill and dispose of excess as ordered” above for any portion of the excavation that is classified as intermediate, hard rock, boulder class A or boulder Class B, as applicable (Figure 2)

The unit of measuring the excavation will be in cubic meter when completed.

The rate tendered shall cover the cost for all excavations, handling and transporting of all materials, as specified on the drawings to include labour and hiring of plant.

PPS BE 4 EXCAVATIONS FOR PIPEWORK TRENCHES:

4.1 EXCAVATION

Excavations shall be deemed to be in “earth” unless otherwise described. Trenches for pipelines shall be excavated to a minimum depth of 800 mm, and trenches for the electric cable to a minimum depth of 800 mm. Trench widths shall be as shown or to a minimum width that will allow for labour intensive construction.

4.2 METHOD OF EXCAVATION

In order to produce material suitable for bedding, selective methods of excavation may be used, or the excavation material may be screened, washed or otherwise treated.

Excavated material that are material of granular, non-cohesive nature that is free-draining, has maximum aggregate size of 20mm and has a compaction fraction that does not exceed 0,3 shall not be wastefully disposed of. Positive steps shall be taken to avoid burying or contaminating materials that would otherwise be suitable for use as

- a) selected fill for the blanket or selected granular material for the cradle, unless other materials are specified, or
- b) topsoil.

When otherwise suitable material from a trench is contaminated, any shortfall may be made up by obtaining suitable material from other excavations on the site, or by opening up borrow pits, or by importing from commercial or other sources.

4.3 SIZE OF EXCAVATION

Trenches shall be excavated in suitable lengths, to widths of minimum 600mm with side allowances of 300mm. The sides of each trench from the bottom up shall be as vertical as possible for at least the height of the bedding.

4.4 MINIMUM BASE WIDTH

The widths of excavations shall be sufficient to allow the proper laying, bedding and backfilling of pipelines.

Unless otherwise specified the base width of the trench shall not be less than 600mm.

Where two or more pipes are to be placed in one trench, the base width of the trench shall be adjusted to allow a space of 100mm between each pipe.

4.5 MAXIMUM BASE WIDTH

The maximum base width shall not exceed the minimum base width specified in PPS BE 4.4 above by more than 50%.

4.6 TRENCH BOTTOM

The depth of the trench shall be as specified on the drawings and the trimming and grading of the bottom of the trench shall be such that the pipe can be uniformly supported over its full length, free at the joints, and at the correct grades and levels.

Material that is unsuitable as the bottom of a trench shall be excavated and the trench shall be filled with suitable material and compacted to 90% modified AASHTO dry density.

The bottom of the trenches shall be sufficiently straight (or true to alignment in the case of curved pipelines) to enable the pipelines to be laid without reduction of the side allowances.

The trench bottom shall be kept sufficiently free from water to enable the bedding to be placed.

Excavation work shall be so executed that material

excavated and that does not contain more than 10% rock or hard fragments retained on a sieve of nominal aperture size 50 mm shall be transported directly to its final position without being stockpiled, and if stockpiling is unavoidable, materials intended for re-use shall be stockpiled separately from the other excavated materials and materials from excavations shall be used in preference to materials from borrow pits or other sources.

After an area has been stripped, excavation of trenches for pipe works shall be excavated to the several lengths, widths and levels shown on drawings to which the ground has to be reduced to the depths as shown on the drawings or to such other depths as may be directed by the Engineers Representative to ensure a good pipe works and thrust blocks.

Bottoms of trenches and holes shall be level, with sides trimmed vertical for the full width from top to bottom. The bottoms of trenches shall be stepped as shown but if the stoppings are not shown on drawings or are not otherwise directed on site, the stepping shall be of at least the thickness specified for the concrete footings but shall be adjusted downwards to conform with an exact number of brick courses where necessary. Any excavations taken out to deep shall be made up to correct levels with approved fill material by the Engineers Representative and shall be capable of sufficient compaction to avoid settlement and shall be capable of placement without significant voids all at the Contractor's expense.

Before commencing any earthworks the Contractor shall satisfy himself as to the accuracy of any levels indicated on the drawings as no claim will be entertained at a later date for any alleged inaccuracy in such levels.

Degree of accuracy for excavations required is:

Position on plan:- pd in plan of any point measured from the nearest grid line ± 35 mm.

Dimensions on plan:- pd from the design dimensions ± 50 mm.

Foundation level (i.e. level of underside of concrete except floor slab):- pd in level of surface of excavation trimmed to receive concrete ± 50 mm.

Level:- pd from designed level with reference to the nearest transferred benchmark of any floor slab ± 15 mm.

Except where provision for working space has been made in the scope of work, each excavated surface on which, or against which, a permanent concrete structure will be placed shall be prepared by trimming to ensure that there is no projection outside the specific tolerance into the excavation profile. Such surface shall be cleaned by hand to remove all loose material.

Immediately before any permanent construction is commenced, the bottom of each excavation shall be cleaned of all loose material, and soft material shall be rammed or removed, as required.

PPS BE 5 BEDDING FOR PIPE LINES

Material for the bedding of uPVC and MPVC pipes shall be in strict accordance with SANS 1200LB-1983 bedding (pipes)

Bedding shall be a continuous layer of selected granular material and be carried out to the dimensions shown, as pipe laying proceeds, and shall be completed before the acceptance test is carried out.

Descriptions of excavations for working space shall be deemed to include any additional risk of collapse so incurred and the returning and compacting of the excavated material as described.

Granular material that is non-cohesive and free draining and graded between 0,6 and 13 mm shall be selected from the pipe trench excavations for placing underneath and around the pipelines. The material shall be free of stones and vegetation.

Flexible pipes shall be supported on a cradle of continuous bed of selected granular material of compacted depth of at least 100mm and that covers the full width of the trench.

The granular material shall be compacted to 90% modified AASHTO density. Additional selected granular material shall then be placed carefully and evenly between the sides of the trench and the pipeline, in layers of uncompacted thickness of approximately 100mm.

Each layer shall be compacted individually to 90% modified AASHTO density until a compacted layer of minimum 100mm thick are obtained above the pipeline. Particular care shall be exercised to prevent damage, deflection, or displacement of the pipeline.

After completion of the cradle, a 300mm thick selected fill blanket shall be placed carefully in layers of 100mm uncompacted thickness over the full width of the trench and shall be compacted to 90% modified AASHTO density up to the height of at least 300mm above the crown of the pipeline. Special care shall be taken when compacting over the pipeline.

PPS BE 6 BACKFILLING

6.1 GENERAL

Backfilling of trenches shall commence after the pipe has been laid and firmly bedded in the specified cradle and the blanket has been placed and suitably compacted.

Backfilling shall be carried out over the full extent of the actual trench excavation and to original ground level. No filling shall be placed in water.

6.2 MATERIAL FOR BACKFILLING

Material for backfilling above the bedding (cradle and blanket) shall be obtained from trench excavations. Hard material and rock material shall not be incorporated in the backfill unless suitably mixed with other backfill material.

6.3 DISPOSAL OF SOFT EXCAVATION MATERIAL

Excavation material from the trench, which is unsuitable or has become surplus, shall be disposed of along the trench servitude.

6.4 DISPOSAL OF HARD MATERIAL AND ROCK MATERIAL

Where the quantity of hard material or rock material exceeds that which can be or is required to be incorporated in the backfill, the surplus shall be disposed of as specified in PPS BE 5.3 above or removed to sites specified by the Engineers Representative.

6.5 COMPLETION OF BACKFILLING

Backfilling of trenches shall be completed expeditiously and in reasonable lengths.

PPS BE 7 MAINTENANCE OF EXCAVATIONS

7.1 Risk of collapse:

The Contractor shall maintain all excavated faces exceeding 1,5m deep in accordance with Government Regulations and all excavated faces not exceeding 1,5m deep affecting the safety of work and/or the workmen.

The Contractor shall carry the risk of collapse of excavated faces whether or not he takes any precautions, the nature of which shall be entirely at his own discretion.

7.2 WATER IN EXCAVATIONS

No water shall be allowed to accumulate in any portion of the excavations.

The excavations shall be protected against any water entering them whether by seepage, rains, storms, floods or any other means. Any water found in the excavations shall immediately be removed by pumping or baling.

It is the Contractor's responsibility to keep foundations and excavations water free and the Contractor must supply all pumps etc. that may be necessary for clearing out the water. Water must be cleared in such a way that it cannot seep or flow back into the excavations.

PPS BE 8 SURPLUS EARTH

All surplus earth, topsoil and/or other materials from excavations shall be deposited and levelled on the site, or carted away, as directed.

PPS BE 9 TOPSOILING

On completion of earthworks to the finished level and of backfilling of trenches, etc., the whole surface shall be graded, shaped and compacted to final grades and levels.

Topsoil shall be placed on level and slightly graded areas and shall be lightly compacted by wheeled vehicles or by tamping, and trimmed neatly to the required lines, grades and levels. The final thickness of the topsoil after compaction shall be at least 75 mm.

Where required or directed by the Engineers Representative, grass or other vegetation shall be planted after top soiling has been completed. On completion of planting, the planted area shall be neatly trimmed and well watered and not allowed to dry out until it is established.

PPS BE 10 MEASUREMENT AND PAYMENT

Item	Unit
PPS BE 10.1 Pipework line Clearing	metre (m)

The unit of measurement shall be the square metre for the area cleared before trenching could commence.

The tendered rates shall include full compensation for all labour and plant for the clearing of the pipeline trenches get it to an acceptable working terrain.

Item	Unit
PPS BE 10.2 Earthwork for trenches	metre (m)

The unit of measurement shall be the cubic metre for the excavation in earth for pipe trenches not exceeding 2000mm deep.

The tendered rates shall include full compensation for all labour and plant for the excavation of trenches and the re-use of excavated material for backfilling and the disposal of any surplus material along the routes of the pipeline and cable. Trench excavation will be measured in length, by meter (m), along the routes of the pipeline and cable to the specified depth as indicated on the drawings or as directed by the Engineers Representative as well as for keeping the excavations free from water.

Item

Unit

PPS BE 10.3 Bedding for pipelines m³

The unit of measurement shall be in m³, for the complete bedding for trenches.

The rates tendered for bedding shall include full compensation for all labour, material and plant cost of the provision alongside the trench, of bedding material selected from the trench excavation that complies with the relevant specification and disposing of displaced material within a freehaul distance of 0.5km.

CONCRETE WORKS

PPS CC CONCRETE

Structural Works

Applicable standard: SANS 2001 – Construction Works Part CC1: Concrete Works (structural).

Minor Works

Applicable standard: SANS 2001 – Construction Works Part CC2: Concrete Works (minor works).

Foundations

Applicable standard: SANS 2001 – Construction Works Part CM2: Strip footings, Pad footings and Slab-on-the-ground Foundations for Masonry Walling

NB: All in situ concrete work (mass and reinforced) shall comply with SABS Specification 1200G ("8. Measurement and Payment" is **not** applicable) supplemented by the clauses in this section. Where SABS Specification 1200G and the clauses in this section are in conflict the clauses in this section shall take precedence.

Where the term "plain concrete" appears in SABS Specification 1200G it shall be read as "mass concrete"

PPS CC 1 CEMENT

Cement shall be Portland cement complying with the requirements of SABS Specification 471 or PC15 complying with SABS Specification 831.

Samples of cement from any one, or from every consignment, may be required by the Representative/Agent for test purposes. Cement in any consignment from which a sample may have been taken for testing shall not be used until it has been approved. Allowance must be made for possible delay in that tests may take 10 days to carry out.

Bags of cement shall be stacked in a waterproof, solidly constructed shed with a central door and a floor rendered damp-proof with a tarpaulin. The bags of cement shall be closely stacked (but not against walls) in order to reduce air circulation in such a manner that the cement is used in the order in which it was received, i.e. first in first out.

Unless otherwise specified in the tender documents the use of ordinary Portland cement blended with ground granulated blast furnace slag complying with SABS Specification 1491, or ordinary Portland Cement blended with Pulverised Fly Ash complying with SABS Specification 1466 will be allowed in certain instances as an alternative, after acceptance of tender, but only with the approval of and at the sole discretion of **the Department**. If not so specified in the tender documents the Contractor must demonstrate a saving in favour of the Department together with his alternative tender. The saving offered will be adjudicated by the

Engineer/Quantity Surveyor for the service and acceptance of the alternative will be in accordance with the reasonableness thereof.

PPS CC 2 SAND (FINE AGGREGATE)

The fine aggregate shall comply with the requirements of SABS Specification 1083. Other aggregates may be approved if they have a satisfactory history and/or test results.

No aggregate may be used until it has been approved. Samples having a mass of 25 kg (16.5 litre) of the aggregate proposed to be used may be required by the Representative/Agent for test purposes. Samples having a mass of 25 kg shall be forwarded every 3 months during concreting work and also if the source of supply is changed. Allowance must be made for possible delay in that the tests may take 14 days to carry out.

PPS CC 3 STONE (COARSE AGGREGATE)

PPS CC 3.1

The coarse aggregate shall comply with the requirements of SABS Specification 1083.

No aggregate may be used until it has been approved. Samples having a mass of 25 kg (16.5 litre) of the aggregate it is proposed to use may be required by the Representative/Agent for test purposes. Samples shall be forwarded every three months during concreting work and also if the source of supply is changed. Allowance must be made for possible delay in that the tests may take 14 days to carry out.

NB: Certain fine grained sand and stone originating from the Beaufort Series and Karoo Systems which are known by reputation, local experience or tests, to exhibit excessive shrinkage when used in concrete, may be deemed unacceptable by the Representative/Agent.

PPS CC 3.2

A certificate of proof is required from the Contractor that the aggregates are not alkali reactive. The cost of testing and certification are to be borne by the Contractor.

PPS CC 4 CONCRETE

Concrete shall be of the classes given in the following table. The proportions of the ingredients and the nominal size of the coarse aggregate for each class shall be as laid down therein, viz:

CLASS	CEMENT	AGGREGATES			STRENGTH (MPa)
	PART	FINE	COARSE	SIZE	
		PART	PART		
A	1	4	8	50	10
B	1	3	6	38	15
C	1	3	6	19	15
D	1	2	4	38	25
E	1	2	4	19	25
F	1	1½	3	19	30
G	1	1	2	19	40

The strength given in the above table shall be the minimum required at 28 days.

Unless otherwise specified. Class C concrete shall be used for mass concrete and Class E concrete for reinforced concrete.

Maximum concrete slumps acceptable for different types of construction concrete are as follows:

Vibrated reinforced concrete = 50 mm

Unvibrated reinforced concrete = 75 mm

Mass concrete = 75 mm

When so required by the Engineers Representative, and whilst concreting is in progress, the consistency of the mixture shall be ascertained by means of the slump test as later described herein.

PPS CC 5 VOLUME BATCHING

The coarse and fine aggregate shall be measured by volume and, unless otherwise directed, cement shall be measured by mass: the volume of a 50 kg bag of cement shall be taken as 33 litre. Suitable measuring boxes for the coarse and fine aggregates shall be provided to the approval of the Engineers Representative.

The proportions given above are approximate only, and should the Engineers Representative consider that the voids in the coarse aggregate require more or less matrix than is formed by the proportions specified, he may vary the quantities of coarse and fine aggregates to obtain the required density and workability of the concrete, provided that the proportion of cement to the total volume of the aggregate shall not be less than that specified.

When the sand is not completely dry, allowance must be made for bulking due to the moisture content. The amount of bulking shall be determined by the Contractor in the presence of the Engineers Representative.

The proportion of water used for mixing concrete shall be determined by the Engineers Representative and once the water-cement ratio has been fixed, it shall be rigidly adhered to. On no account shall the amount of water exceed 34 litres to every bag of cement used. This figure includes the water contained in the sand.

The length of time each batch shall be mixed in the mixing machine shall be decided by the Engineers Representative.

Effective screens shall be provided to protect the mixing of concrete during windy weather.

PPS CC CONCRETE

Structural Works

Applicable standard: SANS 2001 – Construction Works Part CC1: Concrete Works (structural).

Minor Works

Applicable standard: SANS 2001 – Construction Works Part CC2: Concrete Works (minor works).

Thrust Blocks

Applicable standard: SANS 2001 – Construction Works Part CM2: Strip footings, Pad footings and Slab-on-the-ground Foundations for Masonry Walling

NB: All in situ concrete work (mass and reinforced) shall comply with SABS Specification 1200G ("8. Measurement and Payment" is **not** applicable) supplemented by the clauses in this section. Where SABS Specification 1200G and the clauses in this section are in conflict the clauses in this section shall take precedence.

Where the term "plain concrete" appears in SABS Specification 1200G it shall be read as "mass concrete"

PPS CC 1 CEMENT

Cement shall be Portland cement complying with the requirements of SABS Specification 471 or PC15 complying with SABS Specification 831.

Samples of cement from any one, or from every consignment, may be required by the Representative/Agent for test purposes. Cement in any consignment from which a sample may have been taken for testing shall not be used until it has been approved. Allowance must be made for possible delay in that tests may take 10 days to carry out.

Bags of cement shall be stacked in a waterproof, solidly constructed shed with a central door and a floor rendered damp-proof with a tarpaulin. The bags of cement shall be closely stacked (but not against walls) in

order to reduce air circulation in such a manner that the cement is used in the order in which it was received, i.e. first in first out.

Unless otherwise specified in the tender documents the use of ordinary Portland cement blended with ground granulated blast furnace slag complying with SABS Specification 1491, or ordinary Portland Cement blended with Pulverised Fly Ash complying with SABS Specification 1466 will be allowed in certain instances as an alternative, after acceptance of tender, but only with the approval of and at the sole discretion of **the Department**. If not so specified in the tender documents the Contractor must demonstrate a saving in favour of the Department together with his alternative tender. The saving offered will be adjudicated by the Engineer/Quantity Surveyor for the service and acceptance of the alternative will be in accordance with the reasonableness thereof.

PPS CC 2 SAND (FINE AGGREGATE)

The fine aggregate shall comply with the requirements of SABS Specification 1083. Other aggregates may be approved if they have a satisfactory history and/or test results.

No aggregate may be used until it has been approved. Samples having a mass of 25 kg (16.5 litre) of the aggregate proposed to be used may be required by the Representative/Agent for test purposes. Samples having a mass of 25 kg shall be forwarded every 3 months during concreting work and also if the source of supply is changed. Allowance must be made for possible delay in that the tests may take 14 days to carry out.

PPS CC 3 STONE (COARSE AGGREGATE)

3.1 The coarse aggregate shall comply with the requirements of SABS Specification 1083.

No aggregate may be used until it has been approved. Samples having a mass of 25 kg (16.5 litre) of the aggregate it is proposed to use may be required by the Representative/Agent for test purposes. Samples shall be forwarded every three months during concreting work and also if the source of supply is changed. Allowance must be made for possible delay in that the tests may take 14 days to carry out.

NB: Certain fine grained sand and stone originating from the Beaufort Series and Karoo Systems which are known by reputation, local experience or tests, to exhibit excessive shrinkage when used in concrete, may be deemed unacceptable by the Representative/Agent.

3.2 A certificate of proof is required from the Contractor that the aggregates are not alkali reactive. The cost of testing and certification are to be borne by the Contractor.

PPS CC 4 CONCRETE

Concrete shall be of the classes given in the following table. The proportions of the ingredients and the nominal size of the coarse aggregate for each class shall be as laid down therein, viz:

CLASS	CEMENT	AGGREGATES			STRENGTH (MPa)
	PART	FINE	COARSE	SIZE	
		PART	PART		
A	1	4	8	50	10
B	1	3	6	38	15
C	1	3	6	19	15
D	1	2	4	38	25
E	1	2	4	19	25
F	1	1½	3	19	30
G	1	1	2	19	40

The strength given in the above table shall be the minimum required at 28 days.

Unless otherwise specified. Class C concrete shall be used for mass concrete and Class E concrete for reinforced concrete.

Maximum concrete slumps acceptable for different types of construction concrete are as follows:

Vibrated reinforced concrete = 50 mm

Unvibrated reinforced concrete = 75 mm

Mass concrete = 75 mm

When so required by the Engineers Representative, and whilst concreting is in progress, the consistency of the mixture shall be ascertained by means of the slump test as later described herein.

PPS CC 5 STRENGTH CONCRETE

The Contractor shall be responsible for the design of strength concrete and for the measurement of the constituent materials to produce concrete that complies with the specified requirements.

PPS CC 6 CONCRETE QUALITY

Should the Contractor dispute any results obtained from concrete test cubes, the concrete represented by the cubes will be considered acceptable if the Contractor, at his own cost, proves to the satisfaction of the Engineers Representative that the estimated actual strength of cores taken from the structure (by an approved independent testing laboratory and determined in accordance with SABS STM 865) is not less than the specified strength. If the concrete fails to meet the strength criteria stipulated, the Engineers Representative may at his sole discretion and in addition to the options listed in SABS Specification 1200G

PPS CC 7 CURING OF CONCRETE

After the concrete has been placed, all exposed surfaces shall be kept continuously damp for at least 10 days by methods as may be approved by the Engineer, such as covering with approved building paper, or by means of wet canvas, wet sacks, wet sand, by continuous hosing or ponding with water.

PPS CC 8 ANCHOR/THRUST BLOCKS

To resist the horizontal or downward thrust developed at a fitting, the thrust block should have a bearing surface large enough to enable the thrust to be distributed over an area of soil or rock that is capable of absorbing this pressure.

Pipe size	90° Bends A X B	45° Bends A X B	Tees A X B	End Caps Sluice Valves Reducers A X B
50 – 90mm	0,2 x 0,2	0,2 x 0,2	0,25 x 0,25	0,25 x 0,6
110mm	0,3 x 0,3	0,3 x 0,25	0,3 x 0,3	0,3 x 0,6
125 - 140mm	0,3 x 0,45	0,3 x 0,3	0,3 x 0,4	0,3 x 0,65
160mm	0,3 x 0,6	0,3 x 0,4	0,3 x 0,45	0,3 x 0,7
200mm	0,45 x 0,7	0,3 x 0,7	0,45 x 0,6	0,45 x 0,8
250mm	0,6 x 0,9	0,6 x 0,6	0,45 x 0,8	0,45 x 0,85
315mm	0,6 x 1,3	0,6 x 0,9	0,6 x 0,9	0,6 x 1,0
355mm	0,8 x 1,5	0,6 x 1,2	0,6 x 1,4	0,6 x 1,4
400mm	1,0 x 1,6	1,0 x 1,2	0,8 x 1,5	0,8 x 1,5

For vertical thrusts acting downward, the safe bearing loads of the various soils may be taken as twice those for horizontal thrusts.

In very soft ground, special measures should be taken in transmitting the thrusts by use of piles or rods to solid foundations or by replacement of the poor bearing soil with more stable materials.

For a vertical bend which induces a thrust acting upwards, the concrete block should be such that its mass is sufficient to counteract the thrust

PPS CC 9 MEASUREMENT AND PAYMENT

Item

Unit

PPS CC9.1 Miscellaneous: Anchor/Thrust Blocks.....
m³

The unit of measurement shall be in volume of concrete and formwork for constructing all anchor/thrust blocks of required size, for the complete anchor/thrust blocks.

The rates tendered for anchor/thrust blocks shall cover the full compensation for all labour, materials and plant/equipment for supplying and mixing of materials, placing of concrete, and screeding of top surfaces.

Item

Unit

PPS CC9.2 Miscellaneous: Precast Route Markers.....
number (No)

The unit of measurement shall be in number of standard precast concrete route markers of required size, for marking the route of main and submain pipelines.

The rates tendered for precast concrete route markers shall cover the full compensation for all labour, materials and plant/equipment for supplying and placing of route markers

PPS EI: LOW VOLTAGE RETICULATION AND DISTRIBUTION

Typical Requirements

Supply, delivery and installation of PVC, PVC-SWA, ECC PVC type cables, with stranded copper conductors and earth continuity conductors (Installation rate to include for installation in wireways, trays, ducts, trenches, etc. and for the provision of flameproof labels) (Excavations measured elsewhere).

Low Voltage Earthing

Allow for the bonding of the electrical installation

Earth Spikes

Supply, delivery and installation of earth spikes including all fastening materials, lugs, etc.

Electrical Distribution Board

Allow for the supply, delivery to site, installation of flush mounted sub-electrical distribution board unit, incl. fixing goods & lockable hinged doors.

Switches

Supply, delivery to site, installation of two (2) x two lever, two way light switches, including outlet boxes, covers and surrounds mounted to brick walls.

Socket Outlets

16 ampere, double socket outlet, including outlet box cover and surround, mounted to brick wall.

Earth Leakage Unit

Installation of earth leakage unit, including wiring.

Circuit Breakers

Installation of moulded case circuit breakers, including wiring to busbars / main circuit breaker for:

- a) Socket Outlets
- b) Luminaires (for each set of lights per side of the building, office and store room together)

Isolators

Installation isolators, including covers and surrounds, mounted to outlet boxes as per requirement for electrical installation.

Insulated Wiring

Installation of wiring, fixed onto steel structure with suitable securing / fastening material.

PPS.EI.1 Connection to ESKOM / Municipal electrical networkSum

The unit of measurement shall be the Sum for the Low Voltage electrical connection to the identified ESKOM / Municipal electrical network, including cabling and terminations of the installation. The tendered rate for the supply, delivery and installation of low voltage PVC, PVC SWA ECC PVC type cables, with stranded copper conductors and earth continuity conductors (Installation rate to include for installation in wire ways, trays, ducts, trenches (including excavations), cable terminations with all fastening materials, glands, shrouds, lugs, insulating materials etc. and for the provision of flameproof labels).

IRRIGATION SYSTEM EQUIPMENT AND MATERIALS

SCOPE

This section covers the installation of a main line for dragline sprinkler irrigation system complete and electrical installation as indicated on the drawings or as directed by the Engineer or his representative.

MATERIALS

PPS S1 PIPES

All distribution pipelines and laterals shall be of Unplasticised PVC with socket and socket joints containing an integral rubber ring seal, in accordance to SABS 966 part 1.

1.1 All PVC distribution pipes shall be in accordance with SANS 1200 L - 1983 (medium-pressure pipelines) section 3.7 para 3.7.1

1.2 Both uPVC and MPVC pipes shall further comply with the relevant requirements of SANS 966

1.3 Low density polyethylene pipes (LDPE) shall be manufactured to SANS 533 standards and shall be provided with a 12 year written warranty.

1.4 Steel piping at the filter in and outlet shall comply with the relevant requirements of SANS 1200L-1983 (medium pressure pipelines)

1.5 Piping at the filter in and outlet shall be 200mm black mild steel with a minimum wall thickness of 4.5mm

1.6 Steel piping and flanges at the filter in and outlet shall be hot dipped galvanized according to SANS 32 for heavy duty applications

PPS S2 SUBMAIN CONTROL VALVE

2.1 Wrench operated butterfly valves shall have cast iron bodies, SG iron discs and nitrile seats. The rated working pressure shall be PN10.

2.2 Butterfly valves shall be secured between two PVC serrated stubs of pressure rating PN10 and two galvanized backing rings.

2.3 PVC solvent weld elbows shall have a pressure rating of PN10.

2.4 The 80mm combination air and vacuum release valve shall have a cast iron body and pressure rating of PN10

PPS 3 BLOCK CLUSTER VALVES

PPS 3.1 Hydraulic Control Valve

3.1.1 The manually operated Y-pattern hydraulic control valves shall be of the glass filled nylon type. (Bermad 100 series or equivalent)

3.1.2 The diaphragm shall be nylon fabric reinforced.

3.1.3 The diaphragm springs and cover bolts shall be stainless steel.

3.1.4 The pressure rating shall be PN10 and the operating pressure 0.5 to 10 bar

3.1.5 End connections shall be male threaded for 20mm and female threaded for 25mm diameter control valves.

PPS 3.2 Pressure Reducing Pilot Valve

3.2.1 The 3 way pressure reducing servo (or equivalent) pilot valve shall reduce the upstream pressure to a constant downstream pressure at each block as indicated on drawing number DRW8

3.2.2 The valve body and cover shall be plastic. The end connections shall be female threaded.

3.2.3 The rated operating pressure shall be PN10.

PPS 3.3 Air Valve

3.3.1 The 50mm combination air and vacuum release valve shall have a plastic body and pressure rating of PN10

PPS S4 SPECIALS AND FITTINGS

4.1 All specials and fittings shall be in accordance with SANS 1200 L - 1983

(medium-pressure pipelines) section 3.7 para 3.8.3, 3.8.4 and 3.8.6. All uPVC injection moulded fittings shall be in accordance with SANS 966-

4.2 Sprinklers shall be of the non-Impact sprinkler type (or equivalent) with a flow controller capable of discharging a flow rate of 913 l.p.h at a pressure of 3.1 bar

4.3 Sprinklers shall be supplied with a saddle for attachment to the 50mm PVC laterals. .

4.4 Steel fittings for the filter shall be hot dipped galvanized according to SANS 32 for heavy duty applications.

4.5 All bolts, nuts and washers for the filter shall be hot dipped galvanized to SANS 763 after threading

PPS S5 AIR VALVE CHAMBERS

5.1 Infield valve chambers shall be of the circular prefabricated concrete type and 800mm in diameter. Each chamber shall be supplied with a prefabricated concrete cover.

5.2 The 50mm dual purpose air valve shall have a plastic body and pressure rating of PN10

5.3 The 80mm dual purpose air valve shall have a plastic body and pressure rating of PN10

5.4 The polypropylene valve saddle shall have a reinforcing ring and flat gasket and pressure rating of PN10

PPS S6 PRIME MOVER: KIRLOSKAR DIESEL ENGINE

The prime mover shall be a Kirloskar Diesel engine coupled KSD pump shall have a cast iron impellor. The duty point (safety allowance included) of the pump shall be 68m³/hr @ 70m. The efficiency of the pump at the given duty point shall be not less than 70%. A pump curve shall be attached to the tender document

PPS S7 DRIVER: ELECTRIC MOTOR AND SWITCHGEAR

7.1 The electric motor of 22kW rated capacity shall be of the cage induction type, totally enclosed, fan cooled, three phase, 400V, 2 pole with a rated speed of 2940 r.p.m

7.2 The electric motor shall be directly coupled to the pump by means of a flexible coupling.

7.3 25mm 2 trailing cable shall be supplied and connected between the circuit breaker and motor.

7.4 25mm 2 four (4) core armoured cable shall be supplied and connected between the ESKOM meter and circuit breaker.

7.5 A 80A circuit breaker shall be supplied and mounted in a weatherproof cubicle 1.50m above ground level.

7.6 The motor starter shall be of the VSD Starter type, 22kW and fitted with an ammeter. The starter shall be provided with overload, underload and phase loss protection.

7.7 A 80A quick couple type, surface mounted, mechanically interlocking switch socket with isolator shall be supplied and connected to the circuit breaker.

7.8 A 80A quick couple type plugtop shall be supplied and connected to the cabling and electric motor.

PPS S8 TRAILER

The pump, motor and starter shall be mounted on a steel frame trailer with solid rubber wheels and canopy covering the starter and motor. All steelwork shall be painted with a rust resistant paint. The trailer shall be fitted with a set of wheels and a tow-hitch compatible to that of a standard agricultural tractor.

All steel work are to be treated against corrosion and painted with a rust resistant paint.

PPS S9 ELECTRIC CABLE

The electric cable shall be to the total length and size as required, and in accordance to the relevant SABS- and ESKOM codes.

PPS S10 SUCTION ASSEMBLY

10.1 The suction pipes for the pump shall be 6 x 159mm black rubber hose pipe.

10.2 ONE (1) x 45-degree quick couple steel bends shall be supplied and fitted to the suction pipes to accommodate the river bank.

10.3 A 159mm x 80mm painted flanged quick couple eccentric reducer shall be supplied and fitted to the pump inlet.

10.4 One (1) x 150mm foot valve and strainers shall be supplied and fitted to the suction lines

PPS S11 DISCHARGE ASSEMBLY

11.1 The pump shall be provided with a 159mm x 65mm galvanized flanged concentric reducer.

11.2 The pump shall be provided with a 150 mm cast iron butterfly valve complete with gaskets, nuts and bolts. The valve pressure rating shall be PN10

11.3 A 150mm flanged, galvanized make-up piece, 150mm in length, shall be supplied and fitted between the flanged elbow and butterfly valve.

PPS 12 SCREEN FILTER

12.1 The screen filter shall be of the semi-automatic type.

12.2 The filtration unit shall be manufactured from polyester coated carbon steel.

12.3 The filtration grade of the unit shall be 800micron

12.4 The inlet and outlet connection diameters shall be 200mm

PPS S13 PIPELINES AND FITTINGS

Pipelines shall be laid and bedded centrally in the trench to even grades and to the depth required, with the manufacturer's markings visible from above.

Each pipe and each special/fitting shall be thoroughly cleaned and carefully examined for damage and defects immediately before laying. Should any damaged or defective pipe or fitting be laid, it shall be removed and replaced by the Contractor at his expense.

Every reasonable precaution shall be taken to prevent the entry of foreign matter or water into the pipes. During laying and jointing of pipes the trenches shall be kept reasonably dry.

Pipelines shall be jointed in accordance with the manufacturer's instructions and with their recommended jointing solvents.

All specials and fittings shall be correctly set, supported, and placed in position as the work proceeds, and shall be properly jointed to their respective pipes.

Anchor/thrust blocks where directed shall be constructed to dimensions shown, of strength 15 MPa/37.5 mm. The concrete shall be well punned round the pipe and against the undisturbed faces and bottom of the trench. Backfilling behind or under thrust faces is not permitted.

PPS S14 TESTING OF IRRIGATION SYSTEM AND COMMISSIONING

The irrigation system shall be tested for pipeline pressure tightness, pump high performance, functioning of water and pressure controls, sprinkler performance distribution uniformity. Commissioning and handing over to the beneficiaries in the presence of all stakeholders

Testing and commissioning of the system shall be carried out by the Contractor at his expense, in the presence of the engineer's representative.

Before carrying out the pressure test of water reticulation and pipelines the entire system must be filled with water and all air evacuated.

The test shall be carried out by pressurising the water in the system to one and a half times the expected working pressure that the installation is designed for, by means of a pump. The pressure shall be maintained at that level for a period of at least two hours during which time all pipes, joints and fittings are to be thoroughly inspected.

Any leakages that may appear must be repaired to the satisfaction of the Engineers Representative. When the system is connected to the main water supply and is operational a final inspection must be carried out under normal working pressure and any defects shall be rectified.

PPS S15 TRAINING ON OPERATION AND MAINTENANCE

The Contractor and/or Pumpset Supplier/Installer shall provide one-week hands-on training to at least two beneficiaries of the irrigation system and two Departmental staff (an Engineering Technician/Mechanic and Extension Officer. Training will for the operation and maintenance of the whole system. Farmer are trained on operation and maintenance including pump operation, taking soil moisture measurements, scheduling of the irrigation, trouble shoot and repair of minor sprinkle malfunction, fitting leakages

PPS S 16. VT Combo Automatic Weather Station or similar

The irrigation scheduling unit shall consist of an Irricom (GPRS communicator), a temperature and humidity (TH) sensor in a radiation shield, a continuous logging soil moisture probe in each irrigation block or zone of 1 ha, a 200mm diameter tipping bucket rain gauge with a resolution of 0.33mm/tip, a cup anemometer and a 2.7m x 50mm diameter aluminium pole.

PPS S17 PAYMENT AND GENERAL

The Contractor shall arrange with the engineer's representative for inspecting and measurement of the various items of work scheduled for measurement and payment. No work shall be covered before the inspections and measurement have been done and agreed upon. The Contractor shall be obliged to uncover any work not inspected and measured, at his expense, prior to the finalization of any payments.

The Contractor shall hand-over after completion a complete functional irrigation system as specified, installed from new materials and in mint condition. The site shall be left in the state it was at the start of the contract

PPS S18 MEASUREMENT AND PAYMENT

**Item
Unit**

PPS S18.1 Fittings and specials..... No

The unit of measurement shall be in number, for the complete pipe works.

The tendered rate shall cover the cost of the provision of the pipes, complete with couplings, the costs of the handling, inspecting, transporting, bedding, laying, jointing, cutting, painting and testing as well as extra over items for the supplying, laying, bedding of specials complete with couplings

PPS S18.2 PVC Pipes..... No

The unit of measurement shall be in number, for the complete PVC pipes.

The rates tender rate shall include full compensation for supplying and assembly of PVC pipes, jointing, jointing material, and testing each pipework.

PPS S18.3 SUBMAIN CONTROL VALVES..... No

The unit of measurement shall be in number, for the complete set of control valves.

The rates tendered for the Sub-main control valve assemblies shall cover the cost of supplying, assembling, jointing, jointing material, and testing each sub main unit complete. Measurement will be by number (no), for each item required as specified

PPS S18.4 BLOCK CONTROL VALVES..... No

The unit of measurement shall be in number, for the complete set of control valves at each block of irrigated lands.

The rates tendered for the Block control valve assemblies shall cover the cost of supplying, assembling, jointing, jointing material, and testing each block valve unit complete. Measurement will be by number (no), for each item required as specified

PPS S18.5 ISOLATION VALVES..... No

The unit of measurement shall be in number, for the complete set of isolation valves at each block of irrigated lands.

The rates tendered for the Isolation Valve assemblies shall cover the cost of supplying, assembling, jointing, jointing material, and testing each valve unit complete. Measurement will be by number (no), for each item required as specified

PPS S18.6 AIR VALVES..... No

The unit of measurement shall be in number, for the complete set of air valves at various points in block of irrigated lands.

The rates tendered for the Sub-main control valve assemblies shall cover the cost of supplying, assembling, jointing, jointing material, and testing each Air Valve unit complete. Measurement will be by number (no), for each item required as specified

PPS S18.7 ELECTRIC MOTOR AND SWITCHGEAR.....No

The unit of measurement shall be in number, for the complete motor and switchgear.

The tendered rate shall include full compensation for the supplying, handling, inspecting, transporting, assembling, mounting, assembling materials and commissioning the electric motor assembly as specified as well as all extra over item features and accessories as indicated

PPS S18.8 KIRLOSKAR ENGINE COUPLED WITH KSD PUMP AND FITTINGS No

The unit of measurement shall be in number, for the complete pump set with fittings.

The tendered rate shall include full compensation for the supplying, handling, inspecting, transporting, assembling, mounting, assembling materials and commissioning the pump assembly as specified as well as all extra over item suction and discharge pipes, valves, fittings and couplings.

The rate tendered shall cover the costs of supplying, handling, inspecting, transporting, assembling, mounting, assembling materials, and commissioning one (1) pump assembly as specified, complete with all suction- and delivery fittings as indicated.

PPS S18.9 Discharge Fittings No

The unit of measurement shall be in number, for the complete pump discharge fittings.

The rates tender rate shall include full compensation for supplying and assembly of the concentric reducers, elbow, butterfly valve, flange, Perrot KMVs, bends, pipes, adapter, elbow, Non-return valves, reducers, clamps, rubber delivery hose and accessories as specified.

PPS S19.10 Suction Fittings No

The unit of measurement shall be in number, for the complete pump suction fittings.

The rates tender rate shall include full compensation for supplying and assembly of the concentric reducers, elbow, foot valve, flange, bends, pipes, adapter, elbow, reducers, clamps and accessories as specified.

PPS S18.11 Solidset Sprinkler..... No

The unit of measurement shall be in number, for the complete set of sprinklers.

The rate tendered shall cover the costs of supplying, handling, assembling, mounting, Risers PVC stand, Reducing Bush, PVC Riser, sprinkler head, saddles, Tees, Elbows, Bush, Reducing socket, End caps, AM3 as specified.

PPS S18.12 Trailer for pump/motor assemble..... No

The unit of measurement shall be in number, for the complete trailer for the pump/motor assembly. The rate tendered for the trailer shall include all costs of supplying, installing and commissioning one (1) trailer complete with accessories as specified.

PPS S18.13 VT Combo Automatic Weather StationSum

The unit of measurement shall be in lump sum, for the complete irrigation scheduling unit, a combined weather station and soil moisture monitoring sensor installed and tested functional.

The rate tendered for the irrigation scheduling unit shall include all costs of supplying, installing and testing one (1) unit complete with continuous logging moisture probes in each 1 ha irrigation block or zone as specified by the manufacturer.

PPS S18.14 TESTING AND COMMISSIONING OF WHOLE SYSTEM.....Sum

The unit of measurement shall be lump sum.

Tendered rates shall cover labour, material and equipment for testing the system to full functionality and hand over to beneficiary

PPS S18.15 Training (Operation and Maintenance).....Days

The unit of measurement shall be training days.

Tendered rates shall cover training to the project beneficiary for four days spread within one month of the system operation in one production season.

PART C4 – SITE INFORMATION

**BID FOR THE SUPPLY, DELIVERY AND INSTALLATION OF A 11HA SOLIDSET
SPRINKLER IRRIGATION AT VIVI AM FARM IN THE MHLONTLO LM OF THE OR
TAMBO DISTRICT**

C4 Site Information

ITEM	DESCRIPTION
Site Location	Mdeni village is ±10km from Qumbu.
GPS co ordinates	Mdeni village co-ordinates – 30°58'56.57"S 28°50'16.04"E
General geography	Fair terrain
Road conditions	Fair gravel road
Site extent	9ha
Site clearance required	Yes
Site soil properties	Loam/Clay Loam
Site vegetation	Grass
Site fenced	No
Site access	Community / Employees of DRDAR / Animals
Services available	None
Accommodation	Provide own
Labour	Negotiate local labour with the community
Storage of materials	Provide own
Security	Provide own
Construction difficulty	Medium difficulty
Plant required	TLB for pipe trenches
Equipment / tools required for	Contractor to identify specific tools for various tasks
Transport required	For all materials For all plant, equipment and tools For contractor's personnel
Testing of works	Testing of pump and irrigation system
Commissioning of works	Commissioning of irrigation system

**BID FOR THE SUPPLY, DELIVERY AND INSTALLATION OF A 11HA SOLIDSET
SPRINKLER IRRIGATION AT VIVI AM FARM IN THE MHLONTLO LM OF THE OR
TAMBO DISTRICT**

C.4.2 Schedule of contract Drawings

The following drawings form part of this contract: **SCMU-25/26-0024**

SOLIDSET IRRIGATION:

DRAWING NUMBER	DESCRIPTION
DRW1	GOOGLE EARTH LOCALITY MAP
DRW2	IRRIGATION LAYOUT WITH CONTOURS
DRW3	IRRIGATION LAYOUT WITHOUT CONTOURS
DRW4	DETAILS OF AIR VALVE
DRW5	DETAILS OF THRUST BLOCKS ON PIPE FITTINGS
DRW6	DETAILS OF PIPE TRENCHES
DRW7	DETAILS OF PUMP DISCHARGE FITTINGS
DRW8	DETAILS OF PUMP SUCTION FITTINGS