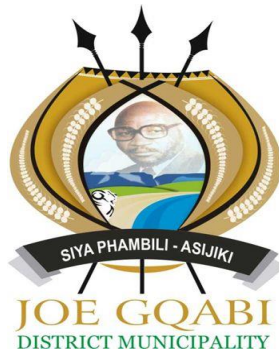


JOE GQABI DISTRICT MUNICIPALITY



BID NO.: JGDM 2023/24-029

CONSTRUCTION OF ELUNDINI RURAL WATER PROGRAMME - ZONE 1 (A)

GRADE 8CE PE OR HIGHER

NAME OF BIDDER: _____

CIDB CRS NUMBER: _____

TENDERER CSD NUMBER: _____

TENDERER TCS PIN: _____

TENDER AMOUNT: _____

(Including VAT, Escalation and Contingencies)

CLOSING DATE: 14 March 2025

CLOSING TIME: 12H00

PREPARED BY:

JOE GQABI DISTRICT MUNICIPALITY
CNR COLE & GRAHAM STREETS
BARKLY EAST, 9786
TEL: 045 979 3000



EXPANDED PUBLIC WORKS PROGRAMME

CONTENTS

DESCRIPTION

(COLOUR)

(SANS 10403)

THE TENDER

Part T1: **Tendering Procedures**

T1.1	Tender Notice and Invitation to Tender	(White/Yellow)
T1.2	Tender data	(Pink)

Part T2: **Returnable Documents**

(Yellow)

T2.1	List of Returnable Documents
T2.2	Returnable Schedules

THE CONTRACT

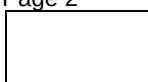
Part C1: **Agreement and Contract Data**

C1.1	Form of Offer and Acceptance	(White)
C1.2	Contract Data	(White)

Part C2: **Pricing Data**

C2.1	Pricing Instructions
C2.2	Pricing Schedule of Quantities

Part C3: **Scope of work**



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

CHECK-LIST FOR TENDER SUBMISSION

The Tenderer is to indicate in the check-boxes provided that he has completed the required section of the tender document. Completion of this check-list will assist the Tenderer in ensuring that he has attended to all the required items for submission with this tender.

Page	Description	Completed		For office use only		
		Yes	No	Yes	No	Comments
Cover	Name of Bidder					
	CIDB CRS Number					
	Tenderer's CSD Number					
	Tenderer's TCS Pin					
	Tender Amount					
Pg. 42	Authority to Sign Documents					
Pg. 43	Letter of Good Standing with Workmen's Compensation Commissioner					
Pg. 44	Certificate of compliance with Bargaining Council					
Pg. 45	Certified Copy of Certificate of Incorporation					
Pg. 46	Certificate of Authority for Joint Ventures (only if Tenderer is a JV)					
Pg. 47 – 48	Schedule of Work Experience of Tenderer					
Pg. 49	Current and Recent projects undertaken for JGDM					
Pg. 50 - 51	Schedule of Construction Plant					
Pg. 52	Schedule of Estimated Monthly Expenditure					
Pg. 53	Schedule of Subcontractors					
Pg. 54 - 56	Compulsory Enterprise Questionnaire					
Pg. 57 - 58	Adjudication of Tenders on Points Basis					

Page 3

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

Page	Description	Completed		For office use only		
		Yes	No	Yes	No	Comments
Pg. 59	Record of Addenda to Tender Documents					
Pg. 60	Proposed Key Personal					
Pg. 61	Financial Ability to Execute the Project					
Pg. 62 - 71	Joint Venture Disclosure Form (only if Tenderer is a JV)					
Pg. 72	Details of Alternative Tenders Submitted					
Pg. 73	Declaration of Validity of Information Provided					
Pg. 74	Register of Attendance list at the compulsory site clarification/inspection meeting.					
Pg. 75	VALID CIDB CRS NUMBER/GRADING CERTIFICATE					
Pg. 76	Latest 3 years Audited or Unaudited (for those companies that are not required by law to have their financial statements audited) Financial Statements.					
Pg. 77	MUNICIPAL LEVY CLEARANCE CERTIFICATE, NOT OLDER THAN THREE (3) MONTHS FROM MUNICIPALITY WHERE THE ENTITY OPERATES (LEASE AGREEMENTS AND SWORN STATEMENT / AFFIDAVITS ARE ALSO ACCEPTED)					
Pg. 78	SCHEDULE OF LOCAL LABOUR EMPLOYMENT					
Pg. 79 - 80	PART A: INVITATION TO BID					
Pg. 81 - 82	PART B: TERMS AND CONDITIONS FOR BIDDING					

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

Page	Description	Completed		For office use only		
		Yes	No	Yes	No	Comments
Pg. 83 - 88	MBD 2: TAX CLEARANCE REQUIREMENTS					
Pg. 89 - 91	MBD 4: DECLARATION OF INTEREST					
Pg. 92 - 93	MBD 5: DECLARATION FOR PROCUREMENT ABOVE R10 MILLION (ALL APPLICABLE TAXES INCLUDED)					
Pg. 94 - 98	MBD 6.1: PREFERENCE POINTS CLAIM FORM					
Pg. 99 - 101	MBD 7.2: CONTRACT FORM - RENDERING OF SERVICES					
Pg. 102 - 103	MBD 8: DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES					
Pg. 104 - 106	MBD 9: CERTIFICATE OF INDEPENDENT BID DETERMINATION					
Pg. 107	ANNEXURE A: PAST EXPERIENCE					
Pg. 108	ANNEXURE B: PAST EXPERIENCE – JOE GQABI DISTRICT MUNICIPALITY					
Pg. 110	ANNEXURE G: DECLARATION BY BIDDERS					

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

THE TENDER

- PART T1:

TENDERING PROCEDURES
- T1.1

Tender Notice and Invitation to Tender
- T1.2

Tender data

- PART T2:

RETURNABLE DOCUMENTS
- T2.1

List of Returnable Documents
- T2.2

Returnable Schedules

PART T1: TENDERING PROCEDURES**T1.1 TENDER NOTICE**

Tenders are hereby invited from suitably qualified and experienced Contractors for the Construction of Elundini Rural Water Programme (Zone 1A). It is estimated that tenderers must have a cidb contractor **grading of 8CE PE or higher**.

BID NUMBER	NAME AND DESCRIPTION	COMPULSORY BRIEFING DETAILS	CONTRACT PERIOD	CLOSING DATE
JGDM 2023/24-029	Construction of Zone 1 (A) for Elundini Rural Water Programme	Date: 11 February 2025 Time: 11H00 Venue: Nqanqarhu (Maclear) Town Hall	36 Months	14 March 2025

Detailed tender documents will be available from 04 February 2025 as follows:

Bid documents will be available from the www.etenders.gov.za and the Joe Gqabi District Municipality website www.jgdm.gov.za. Hard copies of the bid document will be made available from Joe Gqabi District Municipality SCM offices Corner of Cole and Graham Street Barkly East from 04 February 2025 upon payment of a non-refundable fee of R 1000.00 rand for each document (either in cash, EFT or direct bank deposit to ABSA, 2380000019) Please quote the company name and bid number as reference. Payments must be made at the Cashier's Office, which is situated at the ground floor, Cnr of Graham and Cole Streets, Barkly East between the hours of 08h00 and 15h00 prior to the collection of the bid documents. Proof of purchase must be attached to the original Tender Document.

A compulsory briefing session will be held on 11 February 2025 commencing at 11:00am in Nqanqarhu (Maclear) where the Employer's representatives shall take the prospective tenderers to the site of the works. Bidders should be mindful that roads leading to site inspection might not be in good condition.

Tenders in sealed envelopes endorsed "TENDER NO: JGDM 2023/24-029 Construction of Zone 1 (A) for Elundini Rural Water Programme must be placed in the formal Tender Box situated outside the Main Building – JOE GQABI DISTRICT MUNICIPALITY, Corner of Cole & Graham Streets, Barkly East before closing time of 12H00 on 14 March 2025, when tenders will be opened in public.

EVALUATION CRITERIA

Bids will be evaluated on the functionality criteria (Procurement Procedure PP2B) and bid that scores less than 76 out of 100 points will be considered non-responsive.

All responses (tenders and quotations) that will not meet the required minimum threshold for local content as stipulated in the specification and or less than will be disqualified.

The bids will be evaluated on the basis on the Preferential Procurement Policy Framework Act (Act No.5, 2000), and the regulations pertaining thereto (2022), as well as the Joe Gqabi District Municipality's Supply Chain Management Policy 90/10 preference point system will be used.

Page 7

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

T1.1.1 PRICE AND SPECIFIC GOALS

PRICE	90
SPECIFIC GOALS	10

It must be expressly understood that the Municipality disclaims any responsibility for seeing that Tenders sent by post or delivered in any other way, are lodged in the Tender Box. It is accordingly preferable for the Tenderer to personally ensure that the Tender is placed in the Tender Box by the Tenderer's own staff, or where appropriate, a courier appointed by the Tenderer.

BIDDERS SHALL TAKE NOTE OF THE FOLLOWING BID CONDITIONS:

- NB: No Tenders will be considered from persons in the service of the state.
- The Joe Gqabi District Municipality Supply Chain Management Policy will apply.
- The Joe Gqabi District Municipality does not bind itself to accept the lowest bid or any other bid and reserves the right to accept the whole or part of the bid and to award to more than one bidder.
- The standard tender conditions will apply.
- Bids which are late, incomplete, unsigned, or submitted by facsimile or electronically, will not be accepted.
- All pages must be signed where necessary.
- Additional annexure(s) is/are accepted only if cross referencing has been done and the page signed.
- Bids submitted are to hold good for a period of 120 days after the closing date.
- Bid documents must remain intact.
- Use of Tippex will render the bid non- responsive.
- Bidders must be registered on National Treasury's Central Supplier Database (CSD).
- SARS pin and Tax Reference Number to be declared in the bid (cover page of the bid document). In the case of a Trust, Joint Venture, or Consortium each party to a Trust/Joint Venture/Consortium should submit a separate Tax Clearance Certificate.
- The municipal rates and taxes or municipal charges owed by the preferred bidder or any of its directors, to the municipality or municipal entity, to any other municipality, or its entity, must not be in arrears for more than three months. Proof must be submitted in the form of a recent municipal account or letter of good standing.
- Declaration pages must be fully completed and signed.
- MBD 6.2 (Local Content) will be a requirement and the declarations must be completed by the Tenderer in annexure C, D and E as per DTI local content and production. The successful bidder will be required to submit a letter from the Manufacturer to confirm the local production of the steel = 100%.
- Joint Ventures/consortiums must provide signed copies of such agreements and all other returnable documents for each partner to the Joint Venture.

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CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

- Latest 3 consecutive years Audited Financial Statements for bidders that are registered as companies that are required by law to have audited financial statements must be submitted, for any other bidders latest 3 consecutive years Un-Audited financial statements must be submitted.
- Certificate of good standing for workmen's compensation to be submitted with the tender.
- Penalties will be applied both in respect of late completion of the Works and failure to meet the required targets.
- Canvassing of Councillors or municipal officials shall disqualify a Tender.
- Failure to complete all tender forms, data sheets and submit all supplementary information will lead to the tender being considered non-responsive.

The Council reserves the right to extend the Tender Period and/or alter Conditions of Tender during the Tender Period at its own discretion.

Technical enquiries should be directed to Mr. Lumanyano Wana (PMU Manager) by e-mail to lumanyano@jgdm.gov.za during normal office hours. (Between 08H00 to 16H00, Monday to Friday)

SCM-related enquiries should be directed to Mr. Thomas Maseko (SCM Practitioner) at Joe Gqabi District Municipality by email masekot@jgdm.gov.za during normal office hours. (Between 08H00 to 16H00, Monday to Friday)

Issued by

Mr. M. P Nonjola
Municipal Manager
Joe Gqabi District Municipality

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

T1.2 TENDER DATA

T1.2.1 Standard Conditions of Tender

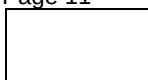
The conditions of tender are the Standard Conditions of Tender as contained in Annexure C of the CIDB Standard for Uniformity in Engineering and Construction Works contracts, Board Notice 423 of 2019, Government Gazette No. 42622 of 8 August 2019. (See www.cidb.org.za).

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.

Clause Number	Tender Data
C.1.1.1	The Employer is Joe Gqabi District Municipality
C.1.2	The Tender document issued by the Employer is comprised of the following: THE TENDER Part T1: Tendering procedures T1.1 - Tender notice and Invitation to bid T1.2 - -Tender data Part T2: Returnable Documents T2.1 - List of returnable documents T2.2 - -Returnable schedules THE CONTRACT Part C1: Agreements and Contract Data C1.1 - Form of Offer and acceptance C1.2 - Contract data Part C2: Pricing data C2.1 - Pricing Assumptions/Instructions C2.2 - Pricing Schedule Part C3: Scope of work C3.1 : Standard Specifications C3.2 : Project Specifications C3.3 : Particular Specifications Part C4: Site information C4.1 : Locality Plan
C 1.4	The Employer's Agents is: Name : Kufanikiwa Consulting t/a Vumesa (Pty) Ltd Address : 11 Derby Place, Derby Downs Office Park, Westville, 3630 Telephone : (031) 701 1038 E-Mail : sherwyn@kufanikiwa.co.za / lwazi.s@kufanikiwa.co.za

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

Clause Number	Tender Data
C 1.4	The language of communication is English
C.1.6.2	Competitive negotiation shall not apply.
C.1.6.2.2	Not applicable
C.1.6.3.	A two stage-system will not be used.
C.2.1	Eligibility
C.2.1.1	Only those tenderers who satisfy the following eligibility criteria and who provide the required evidence in their submissions are eligible to have their submissions evaluated: Experience in Civil Engineering Projects related to Water Reticulation and Water Infrastructure. A Tenderer will not be eligible to submit a tender if: (a) The Tenderer does not comply with the legal requirements stated in the Employer's procurement policy; (b) The tenderer is not 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. (c) The Tenderer cannot provide proof that he is in good standing with respect to duties, taxes, levies and contributions required in terms of legislation applicable to the work in the contract. (d) The Tenderer is unable to submit an original valid Tax Clearance Certificate issued by the South African Revenue Services (SARS) or has been unable to make arrangements to meet outstanding tax obligations or cannot provide proof that he is in good standing with SARS according to the Central Supplier Database. (e) The Tenderer is not registered and in good standing with the compensation fund or with a licensed compensation insurer. (f) The Tenderer fails to attend the compulsory site inspection. (g) The Tenderer fails to have "Form A19 signed Register of Attendance to Site Clarification/Inspection Meeting" in Part T2.2 - Returnable Schedules and Forms signed by the Employer, or his representative. (h) The minimum number of evaluation points for Quality is [76]. Only those tenderers who achieve the minimum number of Quality evaluation points (or greater) and who have achieved minimum points on each criteria will be eligible to have their tenders further evaluated. (i) The tenderer cannot demonstrate that they will have in their employ, management and supervisory staff satisfying the requirements of the scope of work for labour-intensive competencies for supervisory and management staff during the validity of the contract are eligible to submit tenders. (j) The tenderer cannot demonstrate that they have sufficient capacity in terms of workforce, plant and equipment to proceed with the contract. (k) The tenderer cannot provide details of personnel he intends to employ as per form A14. Only those tenderers who are registered with the Construction Industry Development Board or are capable of being so registered within 21 working days from the closing date for submission, in a contractor grading designation of 8 CE PE or higher, are eligible to have their submissions evaluated. Joint ventures are eligible to have their submissions evaluated provided that: i) every member of the joint venture is registered with the CIDB not later than 21 working days from the closing date for submissions; ii) the lead partner has a contractor grading designation in the 8 CE PE or higher of construction work; and iii) the combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than the required contractor grading.



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

Clause Number	Tender Data
C.2.13.4	The tenderer is required to submit with his tender the following: i) A Tax compliance PIN issued by SARS for the Municipality or the Agent to verify the Tenderer's Tax matters ii) Company Registration Certificate iii) An original current account in terms of water & electricity or rates & taxes obtainable from any Local Municipality or a Municipal Accounts clearance or Lease Agreement which states clearly who is responsible for rates between the Landlord and tenant. iv) Preferential points companies will have to claim for specific goals. v) Confirmation of financial standing (bank rating) from the tenderer's financial institution. vi) ORIGINAL CERTIFIED copies of identity Documents (IDs) of all shareholders /owner (s) / partners of the bidding companies must be submitted with the bid document. vii) Workman's Compensation Certificate viii) Joint venture agreements where applicable. ix) ORIGINAL CERTIFIED copies of qualifications and professional registrations with statutory bodies. x) CIDB Certificate
C.2.13.6	A two-envelope system will not be used.
C.2.13.9	Electronic, telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted.
C.2.15	The address and closing time for opening of tender offers is as stated in Section T1.1 Tender Notice and Invitation to Tender
C.2.15.1	The Employer's details and address for delivery of tender documents and identification details that are to be shown on each tender package are: Location of tender box: JOE GQABI DISTRICT MUNICIPALITY OFFICES (MAIN BUILDING) CNR. OF COLE AND GRAHAM STREETS, BARKLY EAST, 9786 Identification details: JGDM 2023/24-029: CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME
C.2.16.1	The tender offer validity period is 120 days. Add the following to the clause: If the tender validity expires on a Saturday, Sunday or public holiday, the tender shall remain valid and open for acceptance until the closure of business on the following working day.
C.2.16.3	The base Consumer Price Index (CPI) will be the month in which the tender close. (Tender closing month)
C.2.20	Submit securities, bonds, and policies: The tenderer is required to submit with his tender a letter of intent from an approved insurer undertaking to provide the Performance Bond to the format included in Part C1.3 of this procurement document
C.3.1	The Employer will respond to requests for clarification received up to 5 working days before the tender closing time.
C.3.2	The employer shall issue addenda until 3 working days before the tender closing time
C.3.4	Tenders will be opened immediately after the closing time receipt of tenders as stated in the Tender Notice and Invitation to Tender.
C.3.11.1	The procedure for evaluation of responsive tenders is Procurement Procedure PPE2B (where tenderer is evaluated on balance between the functionality, price and preference)

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

C.3.11.2

The quality criteria and maximum score in respect of each of the criteria are as follows:
The Bidder will be evaluated on functionality, the maximum points to be scored is **100 points** and minimum **76 points**: Should the Bidder score less than 76 points, it will be considered non-responsive and will not proceed to further evaluation. The Bidder will be evaluated for functionality on the following criteria and weight:

NB.: Tenderers will be required to score minimum points on each criterion in order to proceed to further evaluation

TECHNICAL / FUNCTIONALITY POINTS (100)			
1. Company Experience: (Experience track record) on previous contracts of a similar nature, scope, or complexity (over the last ten years):			
Pre-qualification Description	Deliverables	Points	
		Max	Min
Tenderers must provide details of their previous relevant experience in projects of similar nature as detailed under scope of works. The experience of Tenderers will be evaluated as detailed under deliverables	Construction Services Experience 5 Similar projects completed in past 10 years – 35pts 3 Similar projects completed in past 10 years – 25pts 1 Similar project completed in past 10 years – 15pts 0 Similar project completed in past 10 years – 0pts Points can only be claimed upon submission of Appointment Letters together with completion certificates in order to claim full points. Please file your POE appropriately for ease of Evaluation	35	25
2. Expertise of Key Personnel (Points will be scored on the following basis)			
Pre-qualification Description	Deliverables	Points	
		Max	Min
Tenderers must provide details of their Key Personnel CVs with experience in projects of similar nature as detailed under scope of works. The key personnel will be evaluated as detailed under deliverables. Should a successful tenderer change personnel after appointment has been made, the replacements should possess similar qualification and experience. The municipality reserves the right to terminate the contract should the successful tenderer fails to	1 x Contracts Manager (20 points) - BSc/B-Tech or higher in civil Engineering (5 pts) - Labour Intensive Construction (LIC) method NQF Level 5 (5 pts) - Valid Professional registration with SACPCMP (5 pts) - At Least 10 years' experience in Construction industry (5 pts) 1x Site Agents (15 points) - National Diploma Civil or higher in Civil Engineering (5 pts) - Labour-Intensive Construction (LIC) NQF Level 5 (5 pts) - At least 10 years' experience in construction industry (5 pts) Points can only be claimed upon submission of key personnel CVs. Certified qualifications and registrations MUST be attached. The experience of the Key Personnel must be stated clearly in the CV. Please file your POE appropriately for ease of Evaluation	35	35

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

	provide personnel that meets the requirements of this criteria.			
3. Methodology: Construction Services: Methodology of how construction will be undertaken by the Main Contractor. Methodology should also detail how the local SMMEs will be involved during construction.				
Pre-qualification Description	Deliverables	Points		
Methodology will be evaluated as detailed under deliverables.		Max	Min	
		20	10	
	Scoring	Pts	Comments	
	Comprehensive	20	Methodology address is exceptional and main scope tasks are approached in an innovative and efficient way. (Gantt chart with planned machinery and personnel)	
	Good	15	Methodology is specifically tailored to address the specific project objectives and methods of work.	
	Fair	10	Methodology is generic and not tailored to address the specific project objectives. Does not adequately deal with the critical characteristics of the project	
	Poor	0	Methodology is poor / unlikely to satisfy project objectives. Bidder may have misunderstood certain aspects of the scope of works.	
4. Financial Viability: Confirmation of financial standing (bank rating) from the Tenderer's financial institution.				
Pre-qualification Description	Deliverables	Points		
Financial Viability Attach Company banking rating letter		Max	Min	
		10	6	
	Grading	Points		
	A	10		
	B	8		
	C	6		
	D	4		
	E	0		
Total Possible score for quality		100	76	

Contractor

Witness 1

Witness 2

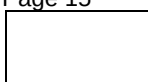
Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

C.3.13	All respondents who submit responsive submissions and: a) do not have any of their 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; b) have not abused the Employer's Supply Chain Management System or have failed to perform on any previous contract and have been given a written notice to this effect; c) have completed the Compulsory Declaration and who are considered by the Employer not to have any conflicts of interest which may impact on their ability to perform the proposed contract in the best interests of the Employer or potentially compromise the tender process and are free of persons in the state who are not permitted to submit tenders or to participate in the contract; d) 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. e) In the opinion of the Employer can as necessarily demonstrate that they possess the necessary 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; will be invited to submit tender offers. Lack of compliance with the above listed terms will lead to immediate disqualification.
C.3.17	The number of paper copies of the signed contract to be provided by the employer is ONE



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

Additional Conditions of Tender	
	Tenderers will be considered non-responsive if, inter alia,; 1) The Tenderer does not comply with the required criteria as specified in 4.1 above; 2) The Tenderer failed to submit one Offer per tendering entity; 3) The Tenderer failed to submit additional information by the due date; 4) The Tenderer failed to complete or sign the Form of Offer bound into this tender document; 5) The tender is not completed in non-erasable ink; 6) The tender contained material qualifications or deviations that affected the scope, quality, or performance of the works, significantly changed the parties' risk and responsibilities affected the competitive position of other Tenderers if they were to be rectified
	1) Tenderers will be evaluated according to Joe Gqabi District Municipality's SCM Policy 2) The lowest, the highest or any tender will not necessarily be accepted, and the Council reserves the right to accept any tender wholly or partially or to withdraw the tender 3) All copies of certificates submitted with the tender must be certified originals by the commissioner of Oaths. 4) Tenders which are late, incomplete, unsigned, completed in pencil, submitted by facsimile or electronically, will not be accepted; 5) Tenderers with any municipal account outstanding for more than 90 days will be rejected.
	Joe Gqabi District Municipality intends to appoint a Civil Engineering Contractor for the Construction of Zone 1 (A) for Elundini Rural Water Programme

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

As published in Annexure C of the CIDB Standard for Uniformity in Engineering and Construction Works contracts, Board Notice 423 of 2019, Government Gazette No. 42622 of 8 August 2019.

ANNEX C STANDARD CONDITIONS OF TENDER

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.

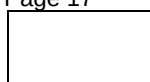
Note: 1) A conflict of interest may arise due to a conflict of roles which might provide an incentive for improper acts in some circumstances. A conflict of interest can create an appearance of impropriety that can undermine confidence in the ability of that person to act properly in his or her position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

Note 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 fulfil 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 utilised 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

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.

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.

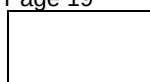
C.1.6.2.3 At the conclusion of each round of negotiations, tenderers shall be invited by the employer to revise their tender offer based on the same evaluation criteria, with or without adjusted weightings. Tenderers shall be advised when they are to submit their best and final offer.

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.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 procurement process 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 complies 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, **General Conditions of Contract for Construction works (Third Edition (2015)) [GCC (2015)]** 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 GCC (2015) 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 GCC (2015) identified in the contract data.

C.2.10.4 State the rates and prices in Rand unless instructed otherwise in the tender data. The GCC (2015) 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.

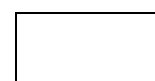
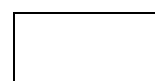
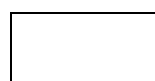
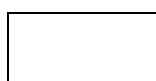
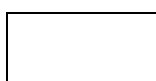
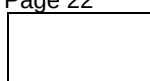
C.2.13.2 Return all returnable documents to the employer after completing them in their entirety, either electronically (if they were issued in electronic format) or by writing legibly in non-erasable ink.

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), preferencing 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 GCC (2015) 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

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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 BBBEE status level 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 on B-BBEE status level. 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.

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.

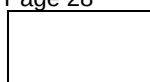
The CIDB Standard Conditions of Tender are based on a procurement system that satisfies the following system requirements:	
Requirement	Qualitative interpretation of goal
Fair	The process of offer and acceptance is conducted impartially without bias, providing simultaneous and timely access to participating 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

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 GCC (2015) 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 CIBD 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.

C3.19 Alpha-numeric associated with the Contractor Grading Designations**Table C (i): Contractor grading designations and associated parameters (2023)**

Contractor Grading Designation	Tender Value Range designation	Maximum Value of Contract that a Contractor is considered capable of performing (R)
2 (class of construction works)	2	1 000 000
3 (class of construction works)	3	3 000 000
4 (class of construction works)	4	6 000 000
5 (class of construction works)	5	10 000 000
6 (class of construction works)	6	20 000 000
7 (class of construction works)	7	60 000 000
8 (class of construction works)	8	200 000 000
9 (class of construction works)	9	No limit

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

T1.2.2 ADDITIONAL CONDITIONS OF TENDER

The additional conditions of tender are:

- T1.2.2.1 Compliance with Occupational Health and Safety Act
- T1.2.2.2 Eligibility with Respect to Expanded Public Works Programme
- T1.2.2.3 Claims Arising after Submission of Tender
- T1.2.2.4 Add the following new clause: Requests for contract documents, or parts thereof, in electronic format
- T1.2.2.5 Imbalance in Tendered Rates
- T1.2.2.6 Community Liaison Officer
- T1.2.2.7 Labour Intensive Construction/Use of Local Labour
- T1.2.2.8 Scope of Subcontract Works
- T1.2.2.9 Invalid Tenders
- T1.2.2.10 Price Variations
- T1.2.2.11 Negotiations with Preferred Tenderers
- T1.2.2.12 Combating Abuse of the Supply Chain Management Policy
- T1.2.2.13 UIF Payments
- T1.2.2.14 Registration with Bargaining Council
- T1.2.2.15 Workmen's Compensation Act (COIDA)

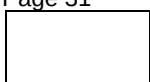
T1.2.2.1 COMPLIANCE WITH OCCUPATIONAL HEALTH AND SAFETY ACT

The Tenderers are to note the requirements of the Occupational Health and Safety Act No. 85 of 1993 as amended and the Construction Regulations 2014, issued in terms of Section 43 of the Act. The Tenderers shall be deemed to have read and fully understood the requirements of the above Act and Regulations; and to have allowed for all costs in compliance therewith.

In this regard the Tenderer shall submit a detailed Health and Safety Plan in respect of the Works, within 14 days after the Commencement Date of the contract, in order to demonstrate the necessary competencies and resources to perform the construction work, all in accordance with the Act and Regulations. Such Health and Safety Plan shall cover inter-alia the following details:

1. Management Structure, Site Supervision and Responsible Persons including a succession plan.
2. Contractor's Induction Training Programme for employees, Sub-Contractors and visitors to the site.
3. Health and safety precautions and procedures to be adhered to in order to ensure compliance with the Act, Regulations and Safety Specifications.
4. Regular monitoring procedures to be performed.
5. Regular liaison, consultation, and review meetings with all parties.
6. Site security, welfare facilities and first aid.
7. Site rules, as well as fire and emergency procedures.

The Tenderers are to note that the Contractor is required to ensure that all Sub-Contractors or others engaged in the performance of the contract also comply with the above requirements.



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

The Contractor shall prepare and maintain a Health and Safety File in respect of the project, which shall be available for inspection on Site at all times and handed over to the Employer on Final Completion of the project.

The Contractor is required to submit to the Employer the Occupational Health and Safety Agreement (included in the Contract Document); and a letter of good standing from the Compensation Commissioner (or a licensed compensation insurer), within 14 days after the Commencement Date of the contract.

All PPE provided to local labour working on the Expanded Public Works Programme shall be branded in accordance with the EPWP Cooperate Identity Manual. Typical elements which shall be branded include:

- (a) Compulsory PPE issued to all EPWP workers for use during general work activities:
- Protective overalls (two sets), orange in colour, with EPWP branding;
 - Lime green reflective safety vest with EPWP branding;
 - Protective footwear; and
 - Protective gloves.

The rate for local labour shall include for the supply of EPWP branded PPE in accordance with the Cooperate Identity Manual. The rate shall include the additional cost of the specified colours for the PPE and branding in accordance with Cooperate Identity Manual

THE TENDERED RATE SHALL INCLUDE FULL COMPENSATION FOR BRANDING THE PPE AS DETERMINED IN THE RISK ASSESSMENTS AND AS REQUIRED FOR FULL DURATION OF THE CONTRACT.

T1.2.2.2 ELIGIBILITY WITH RESPECT TO EXPANDED PUBLIC WORKS PROGRAMME

Only those tenderers who can demonstrate that they will have in their employ, management and supervisory staff satisfying the requirements of the scope of work for labour-intensive competencies for supervisory and management staff during the validity of the contract are eligible to submit tenders.

Tender Qualification: Labour Intensive Contracts

To qualify for award of the Contract, tenderers shall meet the following minimum qualifying criteria:

- a) Having participated in and graduated with fully satisfactory results from the relevant national qualification framework training organized under E.P.W.P (or

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

- other similar project) and applying trained supervisory staff on a full-time basis for the execution of the works. LIC NQF Level 5.
- b) Liquid assets/or credit facilities covering the expected expenditures for two full work months.
 - c) Proposals for timely acquisition (own, lease, hire, etc.) of the essential minimum equipment.
 - d) The contractor will carry out the works using labour-based work methods as described in the Special Conditions of Contract

The tenderer must submit to the Employer, names of all management and supervisory staff that will be employed to supervise the labour-intensive portion of the works together with satisfactory evidence that such staff members satisfy the eligibility requirement. The contractor shall ensure that the minimum supervisor to worker ratio of 1:100 for effective supervision of Labour-intensive works for all LI activities.

T1.2.2.3 CLAIMS ARISING AFTER SUBMISSION OF TENDER

No claim for any extras arising out of any doubt or obscurity as to the true intent and meaning of anything shown on the Contract Drawings, or contained in the Conditions of Contract, Scope of Work and Pricing Data, will be admitted by the Employer / Employer's Agent after the submission of any tender.

The Tenderer shall be deemed to have:

- 1) inspected the Contract Drawings, read and fully understood the Conditions of Contract.
- 2) read and fully understood the whole text of the Scope of Work and Pricing Data; and thoroughly acquainted himself with the nature of the Works proposed; and generally, of all matters which may influence the Contract.
- 3) visited the site of the proposed Works; carefully examined existing conditions, the means of access to the site, assessed the conditions under which the Work is to be done; acquainted himself with any limitations or restrictions that may be imposed by the Municipal or other Authorities in regard to access and transport of materials and plant to and from the site; and made the necessary provisions for any additional costs involved thereby.
- 4) requested the Employer or the Employer's Agent to make clear the actual requirements of anything shown on the Contract Drawings or anything contained in the Scope of Work and Pricing Data, the exact meaning or interpretation of which is not clearly intelligible to the Tenderer.

Before submission of any tender, the Tenderer should check the number of pages; and if any are found to be missing or duplicated; or the figures or writing indistinct; or if the Pricing Data contain any obvious errors; the Tenderer must apply to the Employer / Employer's

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Agent at once to have the same rectified, as no liability will be admitted by the Employer / Employer's Agent in respect of errors in any tender due to the foregoing.

T1.2.2.4 ADD THE FOLLOWING NEW CLAUSE

Requests for contract documents in electronic format

An electronic version of the issued tender documents will be available to the Tenderer, via e-tender portal and the Municipalities website (<https://www.jdgm.gov.za>). Documents must be printed by the tenderer subject to the following:

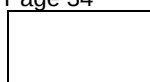
- (a) The Employer shall not accept tenders submitted in electronic format. Tenderers are also forbidden from completing the document electronically and submitting a printed copy of the electronic version of the tender document or part thereof. Tenderers are compelled to print the electronic retrieved tender document, and then complete it in permanent black ink.
- (b) The Employer accepts no responsibility or liability arising from any reliance on or use of the electronic version provided in terms of this clause. The Employer further does not guarantee that the electronic version (MS Word, Excel etc.) corresponds with the issued tender documents in all respects. Tenderers are alerted to the fact that electronic versions of the tender documents may not reflect any notices or addenda that amend the tender document.
- (c) Any non-compliance with these provisions, including effecting any unauthorised alterations to the tender document as contemplated in C.2.11, shall render the tender invalid. The Employer reserves the right to take any action against such Tenderer allowed in law, including in circumstances where the tender had already been awarded, the right to cancel the contract.
- (d) Pages must be printed on coloured paper according to the following:

Colour coding component documents

The Standard for Uniformity in Construction Procurement has no requirement for colour coding component documents. Any colour identification of component documents must be undertaken in accordance with the provisions of SANS 10403.

SANS 10403 suggests that for ease of identification of the various sections, each section may be printed on different coloured paper or be separated with coloured paper. Where this is done, the colours for each subcomponent should be as indicated below.

Colour of pages	Document	
	Number	Heading
White	T1.1	Tender Notice and Invitation to Tender
Pink	T1.2	Tender Data
Yellow	T2.1	List of Returnable Documents
Yellow	T2.2	Returnable Schedules



CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

Yellow	C1.1	Form of Offer and Acceptance
Yellow	C1.2	Contract Data
White	C1.3	Forms of Securities
White	C1.4	Forms for Adjudicators Appointment
Yellow	C2.1	Pricing Instruction
Yellow	C2.2	Activity Schedule / Bill of Quantities
Blue	C3	Scope of Work
Green	C4	Site Information

Tenderer is deemed to have read, understood, and accepted all of the above conditions.

T1.2.2.5 IMBALANCE IN TENDERED RATES

In the event of tendered rates or lump sums being declared by the Employer to be unacceptable because they are either excessively low or high or not in proper balance with other rates or lump sums; the Tenderer may be required to produce evidence and advance arguments in support of the tendered rates or lump sums objected to. If, after submission of such evidence and any further evidence requested, the Employer is still not satisfied with the tendered rates or lump sums objected to, may request the Tenderer to amend these rates and lump sums along the lines indicated.

The Tenderer will then have the option to alter and / or amend the rates and lump sums objected to and such other related amounts as are agreed on by the Employer. These amendments shall be done without altering the Contract Price.

Should the Tenderer fail to amend the tender in a manner acceptable to the Employer, the Employer may reject the tender.

T1.2.2.6 COMMUNITY LIAISON OFFICER

The contractor or his appointed agent will appoint a Community Liaison Officer (CLO) after consultation with the local communities, the engineer and the employer. The contractor shall direct all his liaison efforts with the local communities through the appointed officer. The contractor shall, however, accept the appointed CLO as part of his management personnel.

T1.2.2.7 LABOUR INTENSIVE CONSTRUCTION / USE OF LOCAL LABOUR

The Contractor shall be required to participate in job creation (employment of local labour) by executing various portions of the Works using local labour (unskilled or semi-skilled), recruited from the local community, who are South African Citizens or foreigners in possession of a work visa issued by the Department of Home Affairs (only one such foreigner may be employed on any project). Proof of citizenship or work visa may be audited during the contract period.

The creation of one job shall mean the temporary employment, for any period of time, of one such unskilled or semi-skilled labourers from the local community.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

The Tenderer shall note the requirements for Job Creation Reporting for E.P.W.P as set out in the Requirements of the Expanded Public Works Programme (E.P.W.P) of the project specifications.

The number of jobs to be created using such local labour is inclusive of the local labour employed to execute various portions of the Works by both the main Contractor and any subcontractors, including the small development subcontractors.

The number of jobs to be created using such local labour shall include for a minimum percentage allocation to the following individual targeted groups:

- 60% Women;
- 55% Youth; and
- 2% Disabled.

The minimum required content of such local labour for this project shall be calculated as follows:

Minimum required content of such local labour (%)

$$= \frac{(100 \times \text{amount spent on wages for such local labour (excluding VAT)})}{(\text{total value of the project (excluding VAT)})}$$

For purposes of completing the table below containing the Tenderer's planning with respect to participation in job creation using local labour, the total value of the project shall be the amount of the Tender Offer.

The Tenderer shall complete the table provided in returnable documents B4 reflecting the anticipated local labour force to be employed on this contract, including such local labour employed by subcontractors.

A penalty shall be applied to any shortfall in the local labour content achieved, as set out in the Requirements of the Expanded Public Works Programme (E.P.W.P) of the project specifications. The penalty shall not apply to shortfalls in the allocations to the individual target groups (i.e., Women/Youth/Disabled), only to shortfalls in the total local labour content achieved.

T1.2.2.8 SCOPE OF SUBCONTRACT WORKS

The Joe Gqabi District Municipality is committed in ensuring the development of Small, Medium and Micro Enterprises (SMME's) within the district. The Contractor is encouraged to provide work packages for SMME's. The National Treasury's Preferential Procurement Regulations of 2017 require that a minimum of 30% of public procurement contracts be subcontracted to designated groups. This policy applies to tenders valued at more than R30 million.

T1.2.2.9 INVALID TENDERS

Tenders shall be considered invalid and shall be endorsed and recorded as such in the tender opening record, by the responsible official who opened the tender, in the following circumstances:

- (a) if the tender offer is not submitted on the Form of Offer and Acceptance, bound into this tender document in C1.1 FORM OF OFFER AND ACCEPTANCE;
- (b) if the tender is not completed in non-erasable ink;
- (c) if the offer has not been signed;
- (d) if the offer is signed, but the name of the Tenderer is not stated or is indecipherable.

T1.2.2.10 PRICE VARIATIONS

Applicable (Refer to Clause 6.8.2 of the Contract Data).

T1.2.2.11 NEGOTIATIONS WITH PREFERRED TENDERERS

The Employer may negotiate the final terms of a contract with Tenderers identified through a competitive tendering process, as preferred Tenderers, provided that such negotiation:

- (a) does not allow any preferred Tenderer a second or unfair opportunity;
- (b) is not to the detriment of any other Tenderer ; and
- (c) shall not lead to a higher price than the tender as submitted.

Minutes of any such negotiations shall be kept for record purposes.

T1.2.2.12 COMBATING ABUSE OF THE SUPPLY CHAIN MANAGEMENT POLICY**The accounting officer must:**

- (a) Take all reasonable steps to prevent abuse of the supply chain management system.
- (b) Investigate any allegations against an official or other role player of fraud, corruption, favouritism, unfair or irregular practices or failure to comply with this Policy, and when justified:
 - (i) Take appropriate steps against such official or other role player; or
 - (ii) Report any alleged criminal conduct to the South African Police Service.
- (c) Check the National Treasury's database prior to awarding any contract to ensure that no recommended Tenderer, or any of its directors, is listed as a person prohibited from doing business with the public sector.
- (d) Reject any tender from a Tenderer:
 - (i) If any municipal rates and taxes or municipality service charges owed by that Tenderer or any of its directors to the municipality, or to any other municipality entity, are in arrears for more than three months; or
 - (ii) Who during the last five years has failed to perform satisfactorily on a previous contract with the municipality or any other organ of state, after written notice was given to that Tenderer that performance was unsatisfactory.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

- (e) Reject a recommendation for the award of a contract if the recommended Tenderer, or any of its directors, has committed a corrupt or fraudulent act in competing for the particular contract.
- (f) Cancel a contract awarded to a person if:
- (i) The person committed any corrupt or fraudulent act during the Tendering process or the execution of the contract; or
 - (ii) An official or other role player committed any corrupt or fraudulent act during the Tendering process or the execution of the contract that benefited that person.
- (g) Reject the tender of any Tenderer if that Tenderer or any of its directors,
- (i) Has abused the supply chain management system of the municipality or has committed any improper conduct in relation to such system;
 - (ii) Has been convicted for fraud or corruption during the past five years;
 - (iii) Has wilfully neglected, reneged on or failed to comply with any government, municipality or other public sector contract during the past five years; or
 - (iv) Has been listed in the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (no 12 of 2004).
 - (v) The accounting officer must inform the National Treasury and relevant provincial treasury in writing of any actions taken in terms of subparagraphs 37(1)(b)(ii), (e) or (f) of this policy.

T1.2.2.13 UIF PAYMENTS

The Tenderer shall submit to the Employer a letter from the Department of Labour indicating his/her good standing with regard to UIF payments, upon being requested to do so.

T1.2.2.14 REGISTRATION WITH BARGAINING COUNCIL

Tenderers must be registered with a relevant Bargaining Council (if such be in place) and provide the applicable Certificate of Compliance in terms of the relevant Government Gazette.

T.2.2.15 WORKMEN'S COMPENSATION ACT (COIDA)

All labour employed on the site shall be covered by the Compensation for Occupational Injuries and Diseases Act (COIDA), 1993, as amended. The Contractor shall pay in full, including the payment of the necessary levies, such amounts as are due in terms of the Act. These amounts shall not be included in the wage rates and shall be payments allowed for by the contractor in addition to the wages paid to labour. The manner in which compensation in terms of this Act shall be handled shall be resolved by the Contractor at the commencement of the contract.

T2 RETURNABLE DOCUMENTS

T2.1 LIST OF RETURNABLE DOCUMENTS

The Tenderer must complete and return the documents listed below as part of his/her tender submission:

SCHEDULE	DESCRIPTION
	Returnable documents required for tender evaluation purposes
A1	Authority to Sign Documents
A2	Letter of Good Standing with Workmen's Compensation Commissioner
A3	Certificate of compliance with Bargaining Council
A4	Certified Copy of Certificate of Incorporation
A5	Certificate of Authority for Joint Ventures (only if Tenderer is a JV)
A6	Schedule of Work Experience of Tenderer
A7	Current and Recent projects undertaken for JGDM
A8	Schedule of Construction Plant
A9	Schedule of Estimated Monthly Expenditure
A10	Schedule of Subcontractors
A11	Compulsory Enterprise Questionnaire
A12	Adjudication of Tenders on Points Basis
A13	Record of Addenda to Tender Documents
A14	Proposed Key Personal
A15	Financial Ability to Execute the Project
A16	Joint Venture Disclosure Form (only if Tenderer is a JV)
A17	Details of Alternative Tenders Submitted
A18	Declaration of Validity of Information Provided
A19	Register of Attendance list at the compulsory site clarification/inspection meeting.
B1	VALID CIDB CRS NUMBER/GRADING CERTIFICATE
B2	Latest 3 years Audited or Unaudited (<i>for those companies that are not required by law to have their financial statements audited</i>) Financial Statements.
B3	MUNICIPAL LEVY CLEARANCE CERTIFICATE, NOT OLDER THAN THREE (3) MONTHS FROM MUNICIPALITY WHERE THE ENTITY OPERATES (LEASE AGREEMENTS AND SWORN STATEMENT / AFFIDAVITS ARE ALSO ACCEPTED)
B4	SCHEDULE OF LOCAL LABOUR EMPLOYMENT
	PART A: INVITATION TO BID
	PART B: TERMS AND CONDITIONS FOR BIDDING
	MBD 2: TAX CLEARANCE REQUIREMENTS
	MBD 4: DECLARATION OF INTEREST

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

SCHEDULE	DESCRIPTION
	Returnable documents required for tender evaluation purposes
	MBD 5: DECLARATION FOR PROCUREMENT ABOVE R10 MILLION (ALL APPLICABLE TAXES INCLUDED)
	MBD 6.1: PREFERENCE POINTS CLAIM FORM
	MBD 7.2: CONTRACT FORM - RENDERING OF SERVICES
	MBD 8: DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES
	MBD 9: CERTIFICATE OF INDEPENDENT BID DETERMINATION
	ANNEXURE A: PAST EXPERIENCE
	ANNEXURE B: PAST EXPERIENCE – JOE GQABI DISTRICT MUNICIPALITY
	ANNEXURE G: DECLARATION BY BIDDERS

NB: TENDERER MUST COMPLETE THESE DOCUMENTS / DATA SHEETS / FORMS IN BLACK INK

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

T2.2 RETURNABLE SCHEDULES

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Contractor

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Witness 1

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Witness 2

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Employer

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Witness 1

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Witness 2

**A1: AUTHORITY TO SIGN DOCUMENTS (OR ATTACH A
RESOLUTION LETTER)**

I/We* (the undersigned), am/are*
duly authorised to sign the form of tender on behalf
of.....

by virtue of the Articles of Association / Resolution of the Board of Directors*, of which a
certified copy is attached, or.....

*Delete whichever is inapplicable

1.

NAME

SIGNATURE

DATE

2.

NAME

SIGNATURE

DATE

WITNESSES:

1.

NAME

SIGNATURE

DATE

2.

NAME

SIGNATURE

DATE

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**A2: LETTER OF GOOD STANDING WITH WORKMEN'S
COMPENSATION COMMISSIONER (ATTACH A VALID LETTER)**

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

A3: CERTIFICATE OF COMPLIANCE WITH BARGAINING COUNCIL

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

A4: CERTIFIED COPY OF CERTIFICATE OF INCORPORATION

(if Tenderer is a company)

OR **Certified copy** of founding statement (if Tenderer is a closed corporation)

OR **Certified copy** of partnership agreement (if Tenderer is a partnership)

OR **Certified copy** of identity document (if Tenderer is a one-man concern)

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

A5: CERTIFICATE OF AUTHORITY FOR JOINT VENTURES

This Returnable Schedule is to be completed only if Tenderer is a Joint Venture.

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorize

Mr./Ms. authorised signatory of the company, close corporation or partnership 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 :

Note: A copy of the Joint Venture Agreement showing clearly the percentage contribution of each partner to the Joint Venture shall be appended to this Schedule.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

A6: SCHEDULE OF WORK EXPERIENCE OF TENDERER

Tenderer shall insert in the Schedule hereunder details of work successfully carried out by them, of a similar nature to that for which their tender is submitted. Completion certificates from Clients to be included. Failure to complete this Schedule will be taken to indicate that the Tenderer has no experience in this class of work. Value of work to be given to the nearest R 0.5 million.

COMPLETED CONTRACTS				
Employer (Name, Tel, Fax, Email)	Employer's Agent (Name, Tel, Fax, Email)	Nature of Work	Value of Work R (M)	Date Completed
Name :				
Tel :				
Fax :				
Email :				
Name :				
Tel :				
Fax :				
Email :				
Name :				
Tel :				
Fax :				
Email :				
Name :				
Tel :				
Fax :				
Email :				

SIGNED BY/ON BEHALF OF TENDERER:

NAME

SIGNATURE

DATE

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CURRENT CONTRACTS				
Employer (Name, Tel, Fax, Email)	Employer's Agent (Name, Tel, Fax, Email)	Nature of Work	Value of Work R(M)	Anticipated Completion Date
Name :				
Tel :				
Fax :				
Email :				
Name :				
Tel :				
Fax :				
Email :				
Name :				
Tel :				
Fax :				
Email :				
Name :				
Tel :				
Fax :				
Email :				

If there is insufficient space above, the Tenderer may append additional sheets.

Number of additional sheets appended by the Tenderer to this Schedule (If nil, enter NIL)

SIGNED BY/ON BEHALF OF TENDERER:

NAME

SIGNATURE

DATE

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

A7. CURRENT AND RECENT PROJECTS UNDERTAKEN FOR JGDM

Tenderer must furnish hereunder details of similar works / service, which they have satisfactorily completed in the past 5 years. The information shall include a description of the Works, the Contract value, the Contract start date and completion date.

CURRENT PROJECTS			
PROJECT NAME	AWARDED AMOUNT	CONTRACT START DATE	ANTICIPATED / ACTUAL COMPLETION DATE
TOTAL AMOUNT OF PROJECTS CURRENTLY UNDERTAKEN FOR JGDM			R

SIGNED BY/ON BEHALF OF TENDERER:

NAME

SIGNATURE

DATE

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Tenderer shall state below what construction plant will be available for this Contract. The Tenderer shall differentiate, if applicable, between construction plant immediately available and construction plant which will become available by virtue of outstanding orders, and indicate what further construction plant will be acquired, or hired for the Work, should the Tenderer be awarded the Contract.

[illegible]

Witness 2

A9: SCHEDULE OF ESTIMATED MONTHLY EXPENDITURE

The Tenderer shall state his estimated expenditure indicating the values of each monthly claim in terms of Clause 6.10 of the GCC (2015), which he / she estimates will arise based on his / her preliminary programme and tendered rates, in the table below. The Tenderer will correlate this with his selected construction duration on the "Form of Offer and Acceptance". *The total of the monthly amounts shall be equal to the tender sum.*

MONTH	VALUE
1	R
2	R
3	R
4	R
5	R
6	R
7	R
8	R
9	R
10	R
11	R
12	R
13	R
14	R
15	R
16	R
17	R
18	R
19	R
20	R
SUBTOTAL	R
ADD CONTINGENCIES (10.00% per year)	R
SUBTOTAL	R
ADD ESCALATION (7.00% per year)	R
SUBTOTAL	R
VAT (15 %)	R
TOTAL (INCLUDING VAT @ 15 %)	R

SIGNED BY/ON BEHALF OF TENDERER:

NAME

SIGNATURE

DATE

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

A10: SCHEDULE OF SUBCONTRACTORS

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

SUBCONTRACTORS			
Category / type	Subcontractor Name / Address / Contact Person. / Phone / Fax / Details of Organization / Firm / Experience	Items of work (pay items) to be undertaken by the Subcontractor	Estimated Cost of Work (Rand)
TOTAL (Excluding VAT)			

If there is insufficient space above, the Tenderer may append additional sheets.

Number of additional sheets appended by the Tenderer to this Schedule (If nil, enter NIL)

Acceptance of this tender shall not be construed as approval of all or any of the listed subcontractors. Should any of the subcontractors not be approved subsequent to acceptance of the tender, this shall in no way invalidate this tender, and the tendered unit rates for the various items of work shall remain final and binding, even in the event of a subcontractor not listed above being approved by the Employer or Employer's Agent.

SIGNED BY/ON BEHALF OF TENDERER:

NAME

SIGNATURE

DATE

Page 53

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

A11: 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:

Address of enterprise:

Section 2: VAT registration number, if any

Section 3: CIDB registration number, if any

Section 4: Particulars of sole proprietors and partners in partnerships

Name*	Identity number*	Personal income tax number*

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

Section 5: Particulars of companies and close corporations

Company registration number:

Close corporation number:

Tax reference number:

Section 6: Record of service of the state

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

- ☐ a member of any municipal council
- ☐ a member of any provincial legislature
- ☐ a member of the National Assembly or the National Council of Province
- ☐ a member of the board of directors of any municipal entity
- ☐ an official of any municipality or municipal entity

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

☐ an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act (Act 1 of 1999)

☐ a member of an accounting authority of any national or provincial public entity

☐ an employee of Parliament or a provincial legislature

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

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

* insert separate page if necessary

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

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

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

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

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

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

*Insert separate page if necessary

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

- i) authorizes the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;
- ii) confirms that neither the name of the enterprise nor the name of any partner, manager, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise, appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004;
- iii) confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise, has within the last five years been convicted of fraud or corruption;
- iv) confirms that I/we are not associated, linked or involved with any other tendering entities submitting 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;
- 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:

ENTERPRISE NAME

DATE

NAME

POSITION

SIGNATURE

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

A12: ADJUDICATION OF TENDERS ON POINTS BASIS

The information provided should be as comprehensive as possible as the Tenderer's approach to this subject will be an important criterion in the tender adjudication process. Failure to provide the information could prejudice a tender.

Responsive tenders will be adjudicated on the following basis (see Amended CIDB Conditions of Tender):

Responsive tenders will be evaluated in terms of the Supply Chain Management policy of the JOE GQABI DISTRICT MUNICIPALITY. The Tender Committees, Tender Evaluation Committee, Tender Adjudication and Accounting Officer will work on the evaluation of the tender. The lowest tender will not necessarily be accepted; and the right to accept the whole or part of any tender; or not to consider any tender not suitably endorsed, is fully reserved by the JOE GQABI DISTRICT MUNICIPALITY.

The tender shall be scored on a 90/10-point system where 90 points will be for the price and 10 points is in terms of specific goals as determined in the tender documentation.

The tender obtaining the highest number of points will be awarded the Contract unless extenuating circumstances dictate otherwise. Points scored will be rounded off to two decimal places.

In the event of equal points scored, the tender will be awarded to the Tenderer scoring the highest points for B- Status.

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

The following preference point systems are applicable to all tenders:

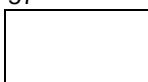
- the 80/20 system for requirements with a Rand value of up to R50 000 000; and
- the 90/10 system for requirements with a Rand value above R50 000 000.

The value of this tender is estimated to be above R50 000 000 and therefore the 90/10 system shall be applicable.

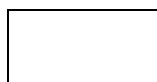
Preference points for this tender shall be awarded for specific goals.

THE POINTS FOR THIS TENDER ARE ALLOCATED AS FOLLOWS:

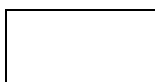
	BREAKDOWN	WEIGHT
1.	Price	90
2.	Specific goals	10
	Total	100



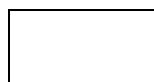
Contractor



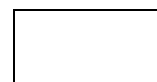
Witness 1



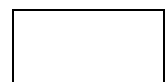
Witness 2



Employer



Witness 1



Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

The points awarded for Preference are based on specific goals of contributor is as follows:

Specific Goals	Number of points	Points Claimed	Evidence required
1. Historically Disadvantage Individual			
1.1 51% Black owned	3		• Attached certified copies of the director/s, • Central supplier database form and • Company registration documents.
1.2 51% Woman owned	1		
1.3 51 % Youth owned	0		
1.4 51 % Own by people with disability	1		
2. Locality			
2.1 Within the boundaries of the Joe Gqabi District Municipality	5		Attached proof of companies office address (Municipal account not older than 90 days or lease agreement or affidavit to proof address if you are in a village)
2.2 Within the boundaries of the Eastern Cape but outside of Joe Gqabi District Municipality	3		
2.3 Outside Eastern Cape	0		
TOTAL	10		

NB.: Failure on the part of a Tenderer to fill in and/or to sign this form may be interpreted to mean that preference points are not claimed.

The Employer reserves the right to require of a Tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim regarding Preferences, in any manner required by the Employer.

SIGNED BY/ON BEHALF OF TENDERER:

NAME

SIGNATURE

DATE

WITNESS 1:

NAME

SIGNATURE

DATE

WITNESS 2:

NAME

SIGNATURE

DATE

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

A13: RECORD OF ADDENDA TO TENDER DOCUMENTS

We confirm that the following communication received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer		
No.	Date	Title of Details

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

A14: PROPOSED KEY PERSONNEL

The Tenderer shall list below the key personnel whom he proposes to employ on the project should his Tender be accepted.

Please list the personnel that you intend to appoint on this contract.			
DESCRIPTION	Name of Full-time member	Staff to be appointed on this contract	
		No of Full-Time employment	No of Part Time employment
Contract Manager			
Site Agent			
Senior Foreman			
Construction Manager			
Quality Control Officer			
Safety Officer			
Clerk			
Foreman			
Material Technician			
Surveyor			
Operators			
Supervisor			
Other			
1.			
2.			
3.			

Provide two paged Curriculum Vitae (CV) of each Proposed Key Personnel to be used in this project. Each CV should give at least the following:

- Position in the firm and within the organization of this assignment.
- Proof of Educational qualifications.
- Relevant experience (actual duties performed, involvement and responsibility), including locations, dates and durations of assignments, starting with the latest;
- Language proficiency; and
- References (company name, individual name, position held, contact details).

ATTACH THE FOLLOWING DOCUMENTS HERETO:

- CV and attachments

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

A15: FINANCIAL ABILITY TO EXECUTE THE PROJECT

Current Bank Rating:

Provide details on the surety you will provide if the tender is awarded to you. The surety value must be 10% of the tender price amount

AMOUNT: R.....

Which of the following institutions will provide surety?

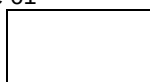
- Bank registered in terms of the Bank Act (Act 94 of 1990).
- Insurance Company registered in terms of the Short-Term Insurance Act (Act 53 of 1998).
- Cash.
-
- Provide the estimated cash flow on the project in terms of submissions of payment certificates or payment schedules to the Employer

Month no	Amount (VAT included)			
	a Received	b Payments made	a – b Net cash flow	Cumulative cash flow
1			d	j=d
2			e	j+e=k
3			f	k+f=l
4			g	l+g=m
5			h	m+h=n
6			Etc.	Etc.
7				
8				
9				
10				
11				
12				
Maximum negative cash flow: Take the largest negative number in the last column and write it in here → → → → → →				

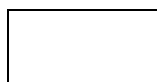
Notes:

- (i) Value added tax to be included in all amounts
- (ii) Assume payment of certificates within 30 days of approval of certificate

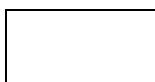
From what sources will you fund the above amount (e.g. Funds internally available, bank overdraft, loan, etc.)



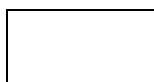
Contractor



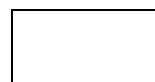
Witness 1



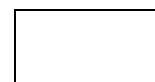
Witness 2



Employer



Witness 1



Witness 2

A16: JOINT VENTURE DISCLOSURE FORM**DEFINITIONS**

- a. **"Affirmable Joint Venture"** means Joint Venture Partner's share in the ownership, control, management responsibilities, risks and profits of the joint venture;
- b. **"Non affirmable Joint Venture"** means non-executive partner.

GENERAL

- i) All the information requested must be filled in the spaces provided. If additional space is required, additional sheets may be used and attached to the original documents.
- ii) All the information requested must be filled in the spaces provided. If additional space is required, additional sheets may be used and attached to the original documents.

A copy of the Joint Venture agreement must be attached to this form, in order to demonstrate the Affirmable, Joint Venture Partner's share in the ownership, control, management responsibilities, risks and profits of the Joint Venture, the proposed Joint Venture agreement must include specific details relating to:

- a. the contributions of capital and equipment
- b. work items to be performed by the Affirmable Joint Venture Partner's own forces.
- c. work items to be performed under the supervision of the Affirmable Joint Venture Partner.

Copies of all written agreements between partners concerning the contract must be attached to this form; including those which relate to ownership options, and to restrictions / limits regarding ownership and control.

ABE partners must complete ABE Declaration Affidavits.

The Joint Venture must be formalised. All pages of the Joint Venture agreement must be signed by all the parties concerned. A letter/ notice of intention to formalise a Joint Venture once the contract has been awarded will not be considered.

Should any of the above not be complied with, the Joint Venture will be deemed null and void and will be considered non-responsive.

1. JOINT VENTURE PARTICULARS

a)	Name	
b)	Postal address	
c)	Physical address	
d)	Telephone	
e)	E-mail	

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

2 IDENTITIES OF EACH NON-AFFIRMABLE JOINT VENTURE PARTNER

2.1

a)	Name of Firm	
b)	Postal address	
c)	Physical address	
d)	Telephone	
e)	E-mail	
f)	Contact person for matters pertaining to Joint Venture Participation Goal requirements:	

2.2

a)	Name of Firm	
b)	Postal address	
c)	Physical address	
d)	Telephone	
e)	E-mail	
f)	Contact person for matters pertaining to Joint Venture Participation Goal requirements:	

(Continue as required for further non-Affirmable Joint Venture Partners)

3 IDENTITIES OF EACH AFFIRMABLE JOINT VENTURE PARTNER

3.1

a)	Name of Firm	
b)	Postal address	
c)	Physical address	
d)	Telephone	

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

e)	E-mail	
f)	Contact person for matters pertaining to Joint Venture Participation Goal requirements:	

3.2

a)	Name of Firm	
b)	Postal address	
c)	Physical address	
d)	Telephone	
e)	E-mail	
f)	Contact person for matters pertaining to Joint Venture Participation Goal requirements:	

3.3

a)	Name of Firm	
b)	Postal address	
c)	Physical address	
d)	Telephone	
e)	E-mail	
f)	Contact person for matters pertaining to Joint Venture Participation Goal requirements:	

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BRIEF DESCRIPTION OF THE ROLES OF THE AFFIRMABLE JOINT VENTURE PARTNERS IN THE JOINT VENTURE

1. OWNERSHIP OF THE JOINT VENTURE

- a)** Affirmable Joint Venture Partner ownership percentage(s) %
- b)** Non-Affirmable Joint Venture Partner ownership percentage(s) %
- c)** Affirmable Joint Venture Partner percentages in respect of: *
- i)** Profit and loss sharing
 - ii)** Initial capital contribution in Rands

(*Brief descriptions and further particulars should be provided to clarify percentages).

- iii)** Anticipated on-going capital contributions in Rands
- iv)** Contributions of equipment (specify types, quality, and quantities of equipment) to be provided by each partner.

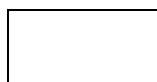
2. RECENT CONTRACTS EXECUTED BY PARTNERS IN THEIR OWN RIGHT AS PRIME CONTRACTORS OR AS PARTNERS IN OTHER JOINT VENTURES

	NON-AFFIRMABLE JOINT VENTURE PARTNERS	PARTNER NAME
a)		
b)		
c)		
d)		
e)		

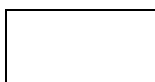
	AFFIRMABLE JOINT VENTURE PARTNERS	PARTNER NAME
a)		
b)		
c)		
d)		
e)		



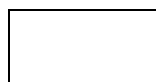
Contractor



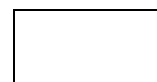
Witness 1



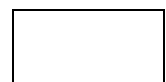
Witness 2



Employer



Witness 1



Witness 2

3. CONTROL AND PARTICIPATION IN THE JOINT VENTURE

(Identify by name and firm those individuals who are, or will be, responsible for, and have authority to engage in the relevant management functions and policy and decision making, indicating any limitations in their authority e.g., co-signature requirements and Rand limits).

a) Joint venture cheque signing

b) Authority to enter into contracts on behalf of the Joint Venture

c) Signing, co-signing and / or collateralizing of loans

d) Acquisition of lines of credit

e) Acquisition of performance bonds

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

f) Negotiating and signing labour agreements

4. MANAGEMENT OF CONTRACT PERFORMANCE

(Fill in the name and firm of the responsible person).

a) Supervision of field operations

b) Major purchasing

c) Estimating

d) Technical management

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

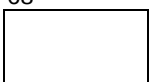
5. MANAGEMENT AND CONTROL OF JOINT VENTURE

a) Identify the “managing partner”, if any,

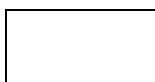
b) What authority does each partner have to commit or obligate the other to financial institutions, insurance companies, suppliers, subcontractors and/or other parties participating in the execution of the contemplated works?

c) Describe the management structure for the Joint Venture’s work under the contract.

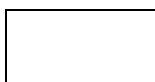
MANAGEMENT DESIGNATION	FUNCTION /	NAME	PARTNER*



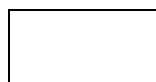
Contractor



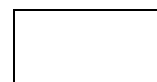
Witness 1



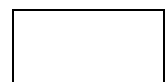
Witness 2



Employer



Witness 1



Witness 2

6. PERSONNEL

- a)** State the approximate number of operative personnel (by trade/function/discipline) needed to perform the Joint Venture work under the Contract.

TRADE/FUNCTION/ DISCIPLINE	NUMBER EX AFFIRMABLE JOINT VENTURE PARTNERS	NUMBER EX NON-AFFIRMABLE JOINT VENTURE PARTNERS

(Fill in "ex Affirmable Joint Venture Partner" or "ex non-Affirmable Joint Venture Partner").

- b)** Number of operative personnel to be employed on the Contract, who are currently in the employ of partners.

(i) Number currently employed by Affirmable Joint Venture Partners

(ii) Number currently employed by the Joint Venture

- c)** Number of operative personnel who are not currently in the employ of the respective partner and will be engaged on the project by the Joint Venture

- d)** Name of individual(s) who will be responsible for hiring Joint Venture employees.

- e)** Name of partner who will be responsible for the preparation of Joint Venture payrolls.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

7. CONTROL AND STRUCTURE OF THE JOINT VENTURE

Briefly describe the manner in which the Joint Venture is structured and controlled.

The undersigned warrants that he/she is duly authorised to sign this Joint Venture Disclosure Form and affirms that the foregoing statements are true and correct and include all material information necessary to identify and explain the terms and operations of the Joint Venture and the intended participation of each partner in the undertaking.

The undersigned further covenants and agrees to provide the Employer with complete and accurate information regarding actual Joint Venture work and the payment therefore, and any proposed changes in any provisions of the Joint Venture agreement, and to permit the audit and examination of the books, records and files of the Joint Venture, or those of each partner relevant to the Joint Venture, by duly authorised representatives of the Employer.

Signature:	
Duly authorised to sign on behalf of:	
Name:	
Address:	
Telephone:	
Date:	

Signature:	
Duly authorised to sign on behalf of:	
Name:	
Address:	
Telephone:	
Date:	

Signature:	
Duly authorised to sign on behalf of:	
Name:	
Address:	

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CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

Telephone:	
Date:	

Signature:	
Duly authorised to sign on behalf of:	
Name:	
Address:	
Telephone:	
Date:	

If there is insufficient space above, the Tenderer may append additional sheets.

Number of additional sheets appended by the Tenderer to this Schedule (If nil, enter NIL)

--

Contractor

--

Witness 1

--

Witness 2

--

Employer

--

Witness 1

--

Witness 2

A17: DETAILS OF ALTERNATIVE TENDERS SUBMITTED

DESCRIPTION

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

A18: DECLARATION OF VALIDITY OF INFORMATION PROVIDED

I/We, the undersigned:

- a) tender to supply and deliver to the JOE GQABI DISTRICT MUNICIPALITY (hereafter "JGDM") all or any of the supplies and to render all or any of the articles, goods, materials, services or the like described both in this and the other Schedules to this Contract;
- b) Agree that we will be bound by the specifications, prices, terms and conditions stipulated in those Schedules attached to this tender document, regarding delivery and execution;
- c) further agree to be bound by those conditions, set out in, "PARTS T1; T2; C1; C2; C3 and C4", attached hereto, should this tender be accepted in whole or in part;
- d) confirm that this tender may only be accepted by the JGDM by way of a duly authorised Letter of Acceptance;
- e) declare that we are fully acquainted with the tender document and Schedules, and the contents thereof and that we have signed the Bill of Quantities and completed the Returnable Schedules and declarations, attached hereto;
- f) declare that all amendments to the tender document have been initialled by the relevant authorised person and that the document constitutes a proper contract between the JGDM and the undersigned;
- g) certify that the item/s mentioned in the tender document, qualifies/qualify for the preference(s) shown;
- h) acknowledge that the information furnished is true and correct;
- i) accept that in the event of the contract being awarded as a result of preference claimed in this tender document, I may be required to furnish documentary proof to the satisfaction of the JGDM that the claims are correct. If the claims are found to be inflated, the JGDM may, in addition to any other remedy it may have, recover from me all cost, losses or damages incurred or sustained by the JGDM as a result of the award of the contract and/or cancel the contract and claim any damages which the JGDM may suffer by having to make less favourable arrangements after such cancellation.
- j) declare that no municipal rates and taxes or municipal service charges owed by the Tenderer or any of its directors to the municipality, or to any other municipality or municipal entity, are in arrears for more than three (3) months; and
- k) declare that I have not failed to perform satisfactorily during the last five (5) years on a previous contract with the Municipality, Municipal entity or any other organ of state, after written notice was given to me that my performance was unsatisfactory.
- l) the signatory to the tender document is duly authorised; and
- m) documentary +proof regarding any tendering issue will, when required, be submitted to the satisfaction of the JGDM.

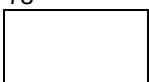
Signed at _____ this _____ day of 20_____

Name of Authorised Person: _____

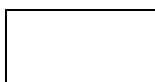
Authorised Signature: _____

Name of Tendering Entity: _____

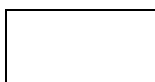
Date: _____



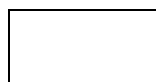
Contractor



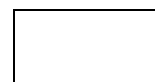
Witness 1



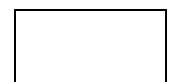
Witness 2



Employer



Witness 1



Witness 2

**A19: REGISTER OF ATTENDANCE AT COMPULSORY SITE
CLARIFICATION/INSPECTION MEETING.**

Tenderer shall attach hereunder a copy of the signed register of attendance to the compulsory site clarification/inspection meeting.

SIGNED BY/ON BEHALF OF TENDERER:

NAME

SIGNATURE

DATE

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

B1. CIDB CONTRACTOR REGISTRATION CERTIFICATE

A Certificate of Contractor’s Registration issued by the Construction Industry Development Board (CIDB) shall be attached to this page.

Where a Tenderer satisfies CIDB Contractor grading designation requirements through Joint Venture formation, such Tenderer must submit the Certificates of Contractor Registration in respect of each Joint Venture partner.

SIGNED BY/ON BEHALF OF TENDERER:

NAME

SIGNATURE

DATE

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

B2. LATEST 3 YEARS AUDITED OR UNAUDITED (FOR THOSE COMPANIES THAT ARE NOT REQUIRED BY LAW TO HAVE THEIR FINANCIAL STATEMENTS AUDITED) FINANCIAL STATEMENTS FOR CONTRACTS OVER THE VALUE OF R 10 MILLION.

The latest 3 year-financial statements should be signed by both the compiler/independent reviewer and the director of the company. Companies are required by law to compile their annual financial statements within six months after the end of their financial year. Latest Annual Financial Statement should therefore NOT be older than six (6) after the end of the entity's financial year.

Each party to a Consortium / Joint Venture MUST submit separate valid latest 3 year audited or unaudited annual financial statements,

SIGNED BY/ON BEHALF OF TENDERER:

NAME

SIGNATURE

DATE

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

B3. MUNICIPAL LEVY CLEARANCE CERTIFICATE, NOT OLDER THAN THREE (3) MONTHS FROM MUNICIPALITY WHERE THE ENTITY OPERATES (LEASE AGREEMENTS AND SWORN STATEMENT / AFFIDAVITS ARE ALSO ACCEPTED)

Details of Municipal Levy Clearance Certificate shall be appended to this Schedule.

Number of sheets appended by the Tenderer to this Schedule: (If nil, enter NIL)

NB.: Each party to a Consortium / Joint Venture shall submit a separate set of valid documents.

SIGNED BY/ON BEHALF OF TENDERER:

NAME

SIGNATURE

DATE

Page 77

Contractor

Witness 1

Witness 2

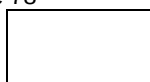
Employer

Witness 1

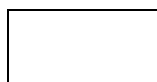
Witness 2

B4. SCHEDULE OF LOCAL LABOUR EMPLOYMENT

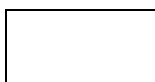
Local labour comprising unskilled or semi-skilled labourers recruited from the local community	Anticipated number of jobs to be created	Total number of person-days anticipated	Wage rate per person-day (excluding VAT) (Rand)	Total wage cost (excluding VAT) (Rand)
Contractor's local labour content				
Subcontractors' local labour content				
Total anticipated wage cost of local labour content (excluding VAT)				R
Tender Offer (excluding VAT)				R
Hence anticipated local labour content expressed as a percentage of the Tender Offer (excluding VAT)				%



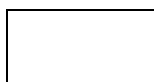
Contractor



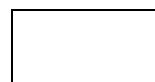
Witness 1



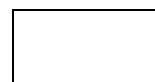
Witness 2



Employer



Witness 1



Witness 2

PART A

INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF JOE GQABI DISTRICT MUNICIPALITY

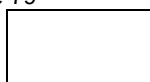
BID NUMBER:	JGDM 2023/24-029	CLOSING DATE:	14 March 2025	CLOSING TIME:	12H00
DESCRIPTION	CONSTRUCTION OF ZONE 1 FOR ELUNDINI RURAL WATER PROGRAMME				
THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (MBD 7).					

BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)

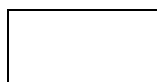
JGDM Offices, Cnr. Cole & Graham Streets, Barkly East, 9786

SUPPLIER INFORMATION

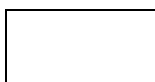
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELL PHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
TAX COMPLIANCE STATUS	TCS PIN:		OR	CSD No:	
Are you the accredited representative in South Africa for the goods /services /works offered?	☐ yes ☐ no [if yes enclose proof]		Are you a foreign based supplier for the goods /services /works offered?		☐ yes ☐ no [if yes, answer part b:3]
TOTAL NUMBER OF ITEMS OFFERED			TOTAL BID PRICE		R
SIGNATURE OF BIDDER			DATE		
CAPACITY UNDER WHICH THIS BID IS SIGNED					



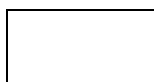
Contractor



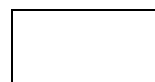
Witness 1



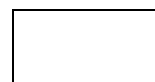
Witness 2



Employer



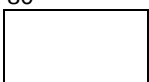
Witness 1



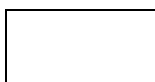
Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

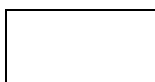
	BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:	TECHNICAL INFORMATION MAY BE DIRECTED TO:
DEPARTMENT	Budget & Treasury Office	Technical Services
CONTACT PERSON	Ms. K Seboko	Mr. L Wana
TELEPHONE NUMBER	045 979 3160	045 979 3061
E-MAIL ADDRESS	keitu@jgdm.gov.za	lumanyano@jgdm.gov.za



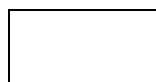
Contractor



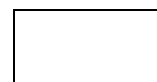
Witness 1



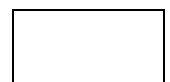
Witness 2



Employer



Witness 1



Witness 2

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 ONLINE
1.3.	THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2022. THE GENERAL CONDITIONS OF CONTRACT FOR CONSTRUCTION WORKS, THIRD EDITION (2015) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
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 VIEW THE TAXPAYER'S PROFILE AND TAX STATUS.
2.3	APPLICATION FOR THE TAX COMPLIANCE STATUS (TCS) CERTIFICATE OR PIN MAY ALSO BE MADE VIA E-FILING. IN ORDER TO USE THIS PROVISION, TAXPAYERS WILL NEED TO REGISTER WITH SARS AS E-FILERS THROUGH THE WEBSITE WWW.SARS.GOV.ZA.
2.4	FOREIGN SUPPLIERS MUST COMPLETE THE PRE-AWARD QUESTIONNAIRE IN PART B:3.
2.5	BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
2.6	IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
2.7	WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
3.	QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS
3.1.	IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)? ☐ YES ☐ NO
3.2.	DOES THE ENTITY HAVE A BRANCH IN THE RSA? ☐ YES ☐ NO
3.3.	DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA? ☐ YES ☐ NO
3.4.	DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA? ☐ YES ☐ NO
3.5.	IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION? ☐ YES ☐ NO
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 ABOVE.	

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

NB: FAILURE TO PROVIDE ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID. NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE.

SIGNATURE OF BIDDER: DATE:

CAPACITY UNDER WHICH THIS BID IS SIGNED:

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

MBD 2 TAX CLEARANCE REQUIREMENTS

It is a condition of bid that the taxes of the successful bidder must be in order, or that satisfactory arrangements have been made with South African Revenue Service (SARS) to meet the bidder's tax obligations.

1. In order to meet this requirement bidders are required to complete in full the form TCC 001 "Application for a Tax Clearance Certificate" and submit it to any SARS branch office nationally. The Tax Clearance Certificate Requirements are also applicable to foreign bidders / individuals who wish to submit bids.
2. SARS will then furnish the bidder with a Tax Clearance Certificate that will be valid for a period of 1 (one) year from the date of approval.
3. The original Tax Clearance Certificate must be submitted together with the bid. Failure to submit the original and valid Tax Clearance Certificate will result in the invalidation of the bid. Certified copies of the Tax Clearance Certificate will not be acceptable. Alternatively a tax compliance verification pin must accompany a copy of a Tax Clearance Certificate.
4. In bids where Consortia / Joint Ventures / Sub-contractors are involved, each party must submit a separate Tax Clearance Certificate.
5. Copies of the TCC 001 "Application for a Tax Clearance Certificate" form are available from any SARS branch office nationally or on the website www.sars.gov.za.
6. Applications for the Tax Clearance Certificates may also be made via eFiling. In order to use this provision, taxpayers will need to register with SARS as eFilers through the website www.sars.gov.za.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

COMPULSORY ENTERPRISE QUESTIONNAIRE

(ALL CONSORTIUM / JV MEMBERS / PARTNERS MUST COMPLETE)

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

Section 1: Name of enterprise:

Section 2: VAT registration number, if any:

Section 3: CIDB registration number, if any:

Section 4: Particulars of sole proprietors and partners in partnerships

Name*	Identity number*	Personal Income Tax number*

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

Section 5: Particulars of companies and close corporations

Company registration number:

Close corporation number:

Tax reference number:

Section 6: Record in the service of the state

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

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

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

Name of sole proprietor, partner, director, manager, principal shareholder or stakeholder	Name of institution, public office, board or organ of state and position held
---	---

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

*insert separate page if necessary

Section 7: Record of spouses, children and parents in the service of the state. Indicate by marking the relevant boxes with a cross, if any spouse, child or parent of a sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months been in the service of any of the following:

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

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

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

authorizes the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order.

confirms that neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004;

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convicted of fraud or corruption;

confirms that I / we are not associated, linked or involved with any other tendering 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

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

Name

Enterprise Name

*Insert separate page if necessary

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

TENDERERS FINANCIAL STANDING AND CONFIRMATION OF COMPANY BANK DETAILS (AN ORIGINAL LETTER FOR FINANCIAL BANK RATING CODE STAMPED BY YOUR BANK IS TO BE ATTACHED TO THIS FORM.)**COMPANY DETAILS**

The following company details schedule must be completed to ensure that the prerequisite requirements to bidding are met.

Registered Company Name: _____

Company Registration Number: _____

VAT Number: _____

Professional Registration Details: _____

Professional Indemnity Details: _____

COMPANY BANK DETAILS

Bank Name: _____

Branch: _____

Account Type: _____

Bank Account Number: _____

Contact Person: _____

Tel No: _____

E-mail address: _____

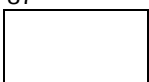
Address: _____

BIDDER'S REPRESENTATIVE:

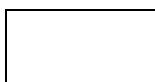
Signature of bidder's representative: _____

Date: _____

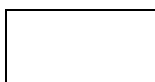
AFFIX COMPANY STAMP HERE



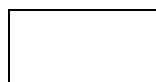
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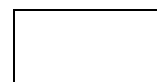
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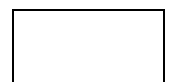
Witness 2



Employer



Witness 1



Witness 2

COMPANY COMPOSITION**GENERAL**

All information must be filled in spaces provided. If additional space is required, additional sheets may be attached. The onus is on the bidder to fill in all the information. The full company composition is required, the ownership must accumulate to 100%.

NAME AND SURNAME	ID NUMBER	CITIZENSHIP	DATE OF OWNERSHIP	% OWNED	VOTING %

ALL CONSORTIUM / JV MEMBERS / PARTNERS MUST COMPLETE THE FOLLOWING MBD 4 FORM

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

MBD 4 DECLARATION OF INTEREST

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

3.1 Full Name of bidder or his or her representative:

3.2 Identity Number:

3.3 Position occupied in the Company (director, trustee, hareholder²)

3.4 Company Registration Number:

3.5 Tax Reference Number:

3.6 VAT Registration Number:.....

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

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

3.8.1 If yes, furnish particulars.....

.....

.....

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

- (a) a member of –
 - (i) any municipal council;
 - (ii) any provincial legislature; or
 - (iii) the national Assembly or the national Council of provinces;
- (b) a member of the board of directors of any municipal entity;
- (c) an official of any municipality or municipal entity;
- (d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999);

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

- (e) an executive member of the accounting authority of any national or provincial public entity;
or
(f) an employee of Parliament or a provincial legislature.

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

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

3.9.1 If yes, furnish particulars:.....

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

3.10.1 If yes, furnish particulars:.....

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

3.11.1 If yes, furnish particulars.....

.....

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

3.12.1 If yes, furnish particulars.....

.....

.....

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

3.13.1 If yes, furnish particulars.....

.....

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

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

3.14.1 If yes, furnish particulars:

.....

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

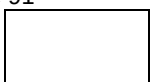
Full Name	Identity Number	State Employee Number

Signature

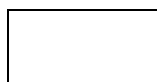
Date

Capacity

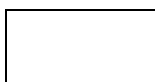
Name of Bidder



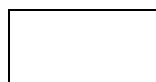
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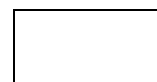
Witness 1



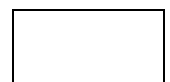
Witness 2



Employer



Witness 1



Witness 2

**MBD 5 DECLARATION FOR PROCUREMENT ABOVE R10 MILLION
(ALL APPLICABLE TAXES INCLUDED)**

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

- 1 Are you by law required to prepare annual financial statements for auditing?... YES / NO
- 1.1 If YES, submit audited annual financial statements for the past three years or since the date of establishment if established during the past three years.
- 2 Do you have any outstanding undisputed commitments for municipal services towards any municipality for more than three months or any other service provider in respect of which payment is overdue for more than 30 days? YES / NO
- 2.1 If NO, this serves to certify that the bidder has no undisputed commitments for municipal services towards any municipality for more than three months or other service provider in respect of which payment is overdue for more than 30 days.
- 2.2 If yes, furnish particulars.....
.....
- 3 Has any contract been awarded to you by an organ of state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract? YES / NO
- 3.1 If yes, furnish particulars.....
.....
- 4 Will any portion of goods or services be sourced from outside the Republic, and, if so, what portion and whether any portion of payment from the municipality / municipal entity is expected to be transferred out of the Republic? YES / NO
- 4.1 If yes, furnish particulars.....
.....

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CERTIFICATION

I, THE UNDERSIGNED (NAME).....
CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS TRUE
AND CORRECT. I ACCEPT THAT THE STATE MAY ACT AGAINST ME SHOULD THIS
DECLARATION PROVE TO BE FALSE.

Signature

Date

Capacity

Name of Bidder

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

MBD 6.1 PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Specific Goals.

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF SPECIFIC GOALS, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2022.

1 GENERAL CONDITIONS

1.2. The following preference point systems are applicable to all bids:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.3. The applicable preference point system for this tender is the 90/10 preference point system.

1.4. 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

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

	POINTS
PRICE	90
Specific Goals	10
Total points for Price and Specific Goals	100

1.6. Failure on the part of a bidder to submit for evidence for points claimed for specific goals together with the bid, will be interpreted to mean that the points for specific goals are not claimed.

1.7. The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

2 DEFINITIONS

- c. **“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;

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

- d. **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- e. **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- f. **“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
- g. **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3 FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

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

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

80/20

or

90/10

$$P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right) \quad \text{or} \quad P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

Where

P_s	=	Points scored for price of bid under consideration
P_t	=	Price of bid 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:

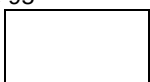
80/20 or

90/10

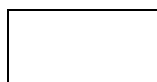
$$P_s = 80 \left(1 + \frac{P_t - P_{\max}}{P_{\max}} \right) \quad \text{or} \quad P_s = 90 \left(1 + \frac{P_t - P_{\max}}{P_{\max}} \right)$$

Where

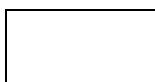
P_s	=	Points scored for price of bid under consideration
P_t	=	Price of bid under consideration
$P_{\max}$	=	Price of Highest acceptable bid



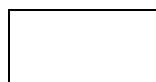
Contractor



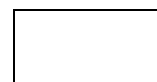
Witness 1



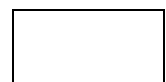
Witness 2



Employer



Witness 1



Witness 2

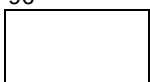
4 POINTS AWARDED FOR SPECIFIC GOALS

- 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—
- 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
 - 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.

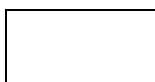
Table 1: Specific goals for the tender and points claimed are indicated per the table below.

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

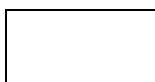
Specific Goals	Number of points	Points Claimed	Evidence required
Historically Disadvantage Individual (HDI)			
1.1 51% Black owned	3		- Attached certified copies of the director/s, - Central supplier database form and - Company registration documents.
1.2 51% Woman owned	1		
1.3 51 % Youth owned	0		
1.4 51 % Own by people with disability	1		
Locality			
2.1 Within the boundaries of the Joe Gqabi District Municipality	5		Attached proof of companies office address (Municipal account not older than 90 days or lease agreement or affidavit to proof address if you are in a village)
2.2 Within the boundaries of the Eastern Cape but outside of Joe Gqabi District Municipality	3		
2.3 Outside Eastern Cape	0		
TOTAL	10		



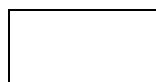
Contractor



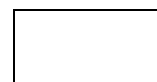
Witness 1



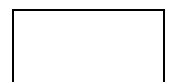
Witness 2



Employer



Witness 1



Witness 2

DECLARATION WITH REGARD TO COMPANY/FIRM

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

4.4. VAT registration number:.....

4.5. Company registration number:.....

4.6. TYPE OF COMPANY/ FIRM

- ☐ One person business/sole propriety
☐ Close corporation
☐ Company
☐ (Pty) Limited
[Tick applicable box]

4.7. 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.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

.....
SIGNATURE(S) OF TENDERER(S)

SURNAME AND NAME:

DATE:

ADDRESS:
.....
.....
.....

MBD 7.2

CONTRACT FORM - RENDERING OF SERVICES

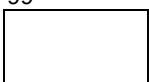
THIS FORM MUST BE FILLED IN DUPLICATE BY BOTH THE SERVICE PROVIDER (PART 1) AND THE PURCHASER (PART 2). BOTH FORMS MUST BE SIGNED IN THE ORIGINAL SO THAT THE SERVICE PROVIDER AND THE PURCHASER WOULD BE IN POSSESSION OF ORIGINALLY SIGNED CONTRACTS FOR THEIR RESPECTIVE RECORDS.

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

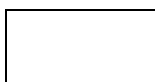
1. I hereby undertake to render services described in the attached bidding documents to (name of the institution)..... in accordance with the requirements and task directives / proposals specifications stipulated in Bid Number..... at the price/s quoted. My offer/s remain binding upon me and open for acceptance by the Purchaser during the validity period indicated and calculated from the closing date of the bid.
2. The following documents shall be deemed to form and be read and construed as part of this agreement:
 - (i) Bidding documents, viz
 - Invitation to bid;
 - Proof of tax compliance status;
 - Pricing schedule(s);
 - Filled in task directive/proposal;
 - Preference claim form for Preferential Procurement in terms of the Preferential Procurement Regulations;
 - Declaration of interest;
 - Declaration of Bidder's past SCM practices;
 - Certificate of Independent Bid Determination;
 - Special Conditions of Contract;
 - (ii) General Conditions of Contract; and
 - (iii) Other (specify)
3. I confirm that I have satisfied myself as to the correctness and validity of my bid; that the price(s) and rate(s) quoted cover all the services specified in the bidding documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.
4. I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this agreement as the principal liable for the due fulfilment of this contract.
5. I declare that I have no participation in any collusive practices with any bidder or any other person regarding this or any other bid.
6. I confirm that I am duly authorised to sign this contract.

NAME (PRINT)

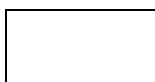
CAPACITY



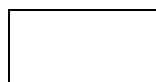
Contractor



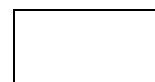
Witness 1



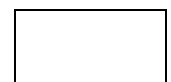
Witness 2



Employer



Witness 1



Witness 2

SIGNATURE

NAME OF FIRM

DATE

WITNESSES

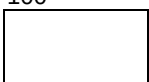
1

Signature:

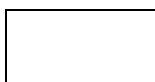
2

Signature:

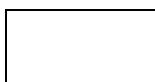
DATE:



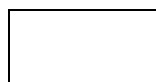
Contractor



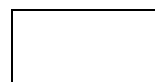
Witness 1



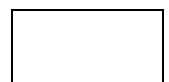
Witness 2



Employer



Witness 1



Witness 2

CONTRACT FORM - RENDERING OF SERVICES**PART 2 (TO BE FILLED IN BY THE PURCHASER)**

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

DESCRIPTION OF SERVICE	PRICE (ALL APPLICABLE TAXES INCLUDED)	COMPLETION DATE	TOTAL PREFERENCE POINTS CLAIMED	POINTS CLAIMED FOR EACH SPECIFIC GOAL

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

SIGNED AT ON THE DAY, OF.....20.....

NAME (PRINT)

SIGNATURE

OFFICIAL STAMP:

--

WITNESSES

1

2

DATE:

--

Contractor

--

Witness 1

--

Witness 2

--

Employer

--

Witness 1

--

Witness 2

MBD 8 DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

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

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

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

4.2.1	If so, furnish particulars:		
4.3	Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?	Yes ☐	No ☐
4.3.1	If so, furnish particulars:		
Item	Question	Yes	No
4.4	Is the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?	Yes ☐	No ☐
4.4.1	If so, furnish particulars:		
4.5	Was any contract between the bidder and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes ☐	No ☐
4.7.1	If so, furnish particulars:		

CERTIFICATION

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

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

.....
Signature Date

.....
Position Name of Bidder

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

MBD 9 CERTIFICATE OF INDEPENDENT BID DETERMINATION

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

I, the undersigned, in submitting the accompanying bid:

(Bid Number and Description) in response to the invitation for the bid made by:

(Name of Municipality / Municipal Entity)

³ Includes price quotations, advertised competitive bids, limited bids and proposals.

⁴ Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.

Contractor

Witness 1

Witness 2

Employer

Witness 1

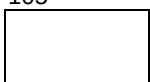
Witness 2

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

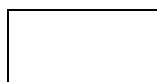
I certify, on behalf of: _____ that:
(Name of Bidder)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign, the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
 - (a) has been requested to submit a bid in response to this bid invitation;
 - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder
6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium⁵ will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices.
 - (b) geographical area where product or service will be rendered (market allocation)
 - (c) methods, factors or formulas used to calculate prices;
 - (d) the intention or decision to submit or not to submit, a bid;
 - (e) the submission of a bid which does not meet the specifications and conditions of the bid;
 or
 - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

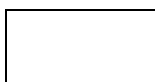
⁵ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.



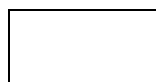
Contractor



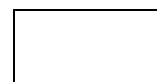
Witness 1



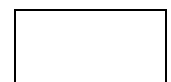
Witness 2



Employer



Witness 1



Witness 2

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

Signature

Date

Position

Name of Bidder

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

ANNEXURE A PAST EXPERIENCE

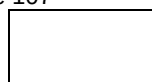
Bidders must furnish hereunder details of similar works/service, which they have satisfactorily completed in the past. The information shall include a description of the Works, the Contract value and name of Employer.

ATTACH REFERENCE LETTERS

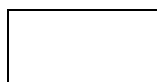
EMPLOYER	NATURE OF WORK	VALUE OF WORK	DURATION AND COMPLETION DATE	EMPLOYER CONTACT NO.

.....
DATE

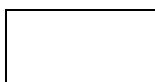
SIGNATURE OF BIDDER



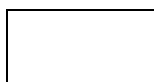
Contractor



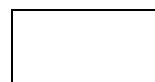
Witness 1



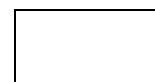
Witness 2



Employer



Witness 1



Witness 2

ANNEXURE B PAST EXPERIENCE – JOE GQABI DISTRICT MUNICIPALITY

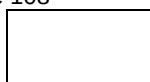
Bidders must furnish hereunder details of similar works/service, which they have satisfactorily completed in the past. The information shall include a description of the Works, the Contract value and name of Employer.

ATTACH REFERENCE LETTERS

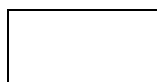
PREVIOUS AND/OR CURRENT PROJECTS UNDERTAKEN FOR JGDM			
PROJECT NAME	AWARDED AMOUNT	CONTRACT START DATE	ANTICIPATED / ACTUAL COMPLETION DATE

.....
DATE

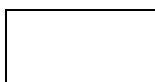
.....
SIGNATURE OF BIDDER



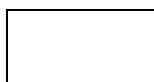
Contractor



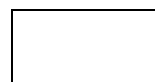
Witness 1



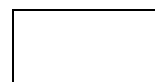
Witness 2



Employer



Witness 1



Witness 2

ANNEXURE C BID CHECK LIST

All JGDM Individuals bid documents will have the typical bid check list as an attachment. This list is to assist all bidders to submit complete bids.

Bidders are to check the following points before the submission of their bid:

- (a)** All pages of the bid document have been read by the bidder.
- (b)** All pages requiring information have been completed in black ink.
- (c)** The Schedule of Quantities has been checked for arithmetic correctness.
- (d)** Totals from each sub section of the Schedule of Quantities have been carried forward to the summary page.
- (e)** The total from the summary page has been carried forward to the Bid Form.
- (f)** Surety details have been included in the bid.
- (g)** All sections requiring information have been completed.
- (h)** The bidder has submitted the correct documentation, e.g. original and current certificates in terms of SARS and Levies, etc.
- (i)** The bid document is submitted before 12h00 on the due date at the designated bid box of the JGDM.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

ANNEXURE G DECLARATION BY BIDDERS

I / We acknowledge that I / we am / are fully acquainted with the contents of the conditions of tender of this quotation form and that I / we accept the conditions in all respects.

I / We agree that the laws of the Republic of South Africa shall be applicable to the contract resulting from the acceptance of *my / our quotation and that I / we elect domicillium citandi et executandi in the Republic at:

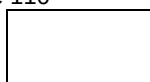
.....

.....

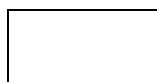
.....

I / We furthermore confirm I / we satisfied myself / ourselves as to the corrections and validity of my / our quotation: that the price quoted cover all the work items specification in the quotation documents and that the price cover all my / our obligations under a resulting contract and that I / we accept that any mistake(s) regarding price and calculations will be at my / our risk.

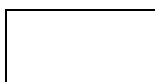
SIGNATURE	NAME (PRINT)
CAPACITY	DATE
NAME OF FIRM	
WITNESS 1	WITNESS 2



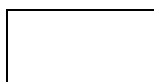
Contractor



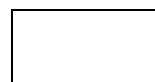
Witness 1



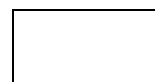
Witness 2



Employer



Witness 1



Witness 2

THE CONTRACT

PART C1: AGREEMENT AND CONTRACT DATA

- C1.1 Form of Offer and Acceptance
- C1.2 Contract Data

PART C2: PRICING DATA

- C2.1 Pricing Instructions
- C2.2 Pricing Schedule of Quantities

PART C3: SCOPE OF WORK

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PART C1: AGREEMENT AND CONTRACT DATA**C1.1 FORM OF OFFER AND ACCEPTANCE****C1.1.1 Offer**

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract in respect of the following works:

BID NO.: JGDM 2023/24 – 029: CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

The Tenderer, identified in the offer signature block below, has examined the documents listed in the tender data and addenda thereto (as listed in the Schedule of Returnable Documents), and by submitting this offer has accepted the conditions of tender.

By the representative of the Tenderer, deemed to be duly authorised, signing this part of this Form of Offer and Acceptance, the Tenderer offers to perform all of the obligations and liabilities of the Contractor under the Contract. Including compliance with all its terms and conditions, according to their true intent and meaning, for an amount to be determined in accordance with the GCC (2015), identified in the Contract Data.

The Contract shall be completed within weeks of the Commencement.

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

.....

..... RAND (in words);

R (in figures)

This offer may be accepted by the Employer, by signing the Acceptance part, of this Form of Offer and Acceptance. Thereafter the Employer will be 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 GCC(2015) identified in the Contract Data.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

SIGNED ON BEHALF OF/BY THE TENDERER:

NAME

SIGNATURE

Name and address of Organization:

SIGNED BY WITNESS:

NAME

SIGNATURE

DATE

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C1.1.2 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 GCC (2015) 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 and drawings and documents or parts thereof, which may be incorporated by reference into Parts C1 to C4 above.

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the Returnable Documents, as well as any changes to the terms of the Offer agreed by the Tenderer and the Employer during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Agreement. No amendments to or deviations from said documents are valid unless contained in this schedule which must be duly signed by the authorised representative(s) of both parties.

The Tenderer shall within two weeks of receiving a completed copy of this Agreement, including the Schedule of Deviations (if any), or just after this Agreement comes into effect; contact the Employer's Agent (whose details are given in the Contract Data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the GCC(2015) 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 days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this Agreement, this Agreement shall constitute a binding Contract between the parties.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

SIGNED ON BEHALF OF/BY THE EMPLOYER:

NAME

SIGNATURE

CAPACITY

DATE

SIGNED BY WITNESS:

NAME

SIGNATURE

DATE

Contractor

Witness 1

Witness 2

Employer

Witness 1

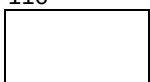
Witness 2

C1.2 CONTRACT DATA

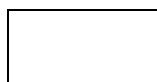
The Standard Conditions of Tender are the *Standard for Uniformity in Engineering and construction works contracts* (August 2019) published by the Construction Industry Development Board. Each item of data given below is cross-referenced to the clause in the *General Conditions of Contract third edition (2015)* of the above-mentioned *Standard for Uniformity in Engineering and construction works contracts* (August 2019) to which it mainly applies.

C1.2.1 PART 1: DATA PROVIDED BY THE EMPLOYER**1. GENERAL**

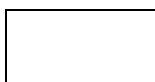
Clause	Description
1.1.1.13	The "Defects Liability Period" is 12 months.
1.1.1.14	The "Due Completion Date", or time for achieving Practical Completion is 36 months.
1.1.1.15	The "Employer" is the Joe Gqabi District Municipality.
1.1.1.16	The "Employer's Agent" is Kufanikiwa Consulting
1.1.1.26	The "Pricing Strategy" is re-measurement Contract.
1.2.1.2	The Employer's address for receipt of communications and notices is Name: Joe Gqabi District Municipality Address: Corner of Cole and Graham streets, Barkly East, 9786 Telephone: 045 979 3000 E-Mail: lumanyano@jgdm.gov.za The Employer's Agent address for receipt of communications and notices is: Name: Kufanikiwa Consulting Address: 11 Derby Place, Derby Downs Office Park, Westville, 3630 Telephone: (031) 701 1038 E-Mail: sherwyn@kufanikiwa.co.za / lwazi.s@kufanikiwa.co.za
3.2.3	The Employer's Agent is required to obtain the specific approval of the Employer for the following functions or duties: a) Approve extension of time for practical completion in terms of Clause 5.12.1; b) Approve imposition of penalty for delay in terms of Clause 5.13.1; c) Issue of a Variation Order in terms of Clause 6.3.2; and d) Approve the use of contingency funds.
5.1.1 and 5.8.1	The special non-working days are public holidays, Saturdays, Sundays and the days on which the contractor grants the majority of his permanent work force leave around the 15 th December and the first Monday of the subsequent year.
5.3.1	The Contractor shall submit within 14 calendar days from the Commencement Date the following documentation for approval by the Employer's Agent: a) Health and Safety Plan (Refer to Clause 4.3); b) Initial programme (Refer to Clause 5.6) and estimated cash flow; c) Security (Refer to Clause 6.2); d) Insurance (Refer to Clause 8.6); e) Proof of registration with the Workman's Compensation Commissioner. f) Valid original copy of Tax Clearance Certificate; and g) Written acceptance of appointment.



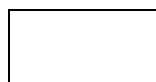
Contractor



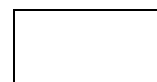
Witness 1



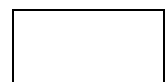
Witness 2



Employer



Witness 1

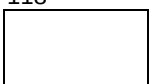


Witness 2

Clause	Description			
5.3.2	The time to submit the documentation required is 28 calendar days.			
5.4.1	The Site is located within inhabited areas, is generally accessible to the public and is not exclusive to the Contractor. The Contractor shall safeguard the public as statutorily required and shall coordinate assistance from the Community Liaison Officer (CLO) as nominated by the Employer.			
5.8.1	The non-working days are Sundays. The special non-working days are indicated under Clause 5.1 above.			
5.12	FORMULA FOR EXTENSION OF TIME IN RESPECT OF ABNORMAL RAINFALL Extension of time in terms of Clause 5.12 of the GCC(2015) in respect of abnormal rainfall shall be determined in terms of the method below for each calendar month or part thereof, unless the project specifications determine otherwise: $V = (N_w - N_n) + (R_w - R_n)/20$ Where: V: Extension of time in calendar days for the calendar month under consideration. N_w: Actual number of days during the calendar month under consideration on which a rainfall of 10 mm and more is recorded. R_w: Actual total rainfall in mm recorded during the calendar month under consideration. N_n: Average number of days, derived from rainfall records, on which a rainfall of 10 mm and more was recorded during the relevant calendar month as per the data tabulated hereinafter. R_n: Average total rainfall in mm for the relevant calendar month, derived from rainfall records, as tabulated hereinafter. Where the extension of time due to abnormal rainfall has to be calculated for portion of a calendar month, pro rata values shall be used. Should V be negative for any particular month, and should its absolute value exceed the corresponding value of N_n, then V shall be taken as being equal to minus N_n. The total extension of time to be granted shall be the algebraic sum of all the monthly extensions, provided that if this total is negative then the time for completion shall not be reduced due to subnormal rainfall. The Contractor shall, at its own cost, provide and erect on the Site at a location approved of by the Employer's Agent, an approved rain gauge, which shall be fenced off in a manner which will prevent any undue interference by workmen and others. The Contractor shall, at its own cost, arrange for the reading of the rain gauge on a daily basis for the duration of the Contract. The gauge readings, as well as the date and time at which the reading was taken shall be recorded in a separate record book provided by the Contractor for this purpose. All entries in the rainfall record books shall be signed by the person taking the reading and the gauge shall be properly emptied immediately after each reading has been taken. If required, the Employer's Agent shall be entitled to witness the reading of the gauge. The rainfall records applicable to this Contract are those recorded at Barkly East. The following values of N_n and R_n shall apply: <table border="1"> <thead> <tr> <th>MONTH</th><th>N_n (Days)</th><th>R_n (mm)</th></tr> </thead> </table>	MONTH	N _n (Days)	R _n (mm)
MONTH	N _n (Days)	R _n (mm)		

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

Clause	Description		
	January	14	89
	February	14	95
	March	14	92
	April	9	59
	May	5	28
	June	4	22
	July	4	15
	August	4	19
	September	6	30
	October	11	54
	November	11	72
	December	13	78
	Total	109	653
5.13.1	The penalty for failing to complete the Works is 0.05% of the contract amount per day, to a maximum of 5% of the contract amount.		
5.14.1	The requirements for achieving Practical Completion are set out in the Scope of Works Part C3.1.2.		
5.14.7	This contract does not contain multiple “Due Completion Dates”.		
5.16.3	The latent defects liability period for civil engineering works is 10 years.		
6.2.1	The type of security for the due performance of the Contract shall be a Fixed Performance Guarantee of 10% of the value of the Works (Excl. Contingencies and VAT). The Performance Guarantee shall follow the suggested wording according to the pro-forma included in Section C1.3 – Pro Forma Performance Guarantee.		
6.5.1.2.3	The percentage allowance on the net cost of workmen and materials actually used in the completed work is 15% .		
6.8.2	Add the following to Clause 6.8.2: Contract Price Adjustment will be allowed for this Contract. The tendered rates will be adjusted as follows: • All rates which are based on current market prices with a tendered mark-up will remain unchanged for the duration of the contract. • All other rates will be adjusted as follows: ○ The formula is as follows (rounded to 4 decimal places): $f_{CPA} = (1 - x) \left[a \left(\frac{Lt}{Lo} \right) + b \left(\frac{Pt}{Po} \right) + c \left(\frac{Mt}{Mo} \right) + d \left(\frac{Ft}{Fo} \right) - 1 \right]$ Where		



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

Clause	Description
	f_{CPA} = Contract Price Adjustment factor $x = 0.1$ L = Labour index (P0141 -CPI) P = Plant index (P01511 – Table 4) M = Material index (P01511 - CIPI) F = Fuel index (P0141 -CPI) Suffix “o” = denotes base indices at the tender closing date Suffix “t” = denotes the current indices a = 0.15 b = 0.20 c = 0.55 d = 0.10 If an index relevant to any particular monthly statement is unknown at the time when the monthly statement is prepared, the Contractor shall use the last known index. Any correction required, when the correct indices become known, shall be made by the Contractor in subsequent monthly statements.
6.8.3	Price adjustment in the cost of special materials shall be not applied to this Contract.
6.10.1.5	The percentage advance on materials not yet built into the Permanent Works is 80%. The percentage advance on Plant not yet supplied to Site 70% (if plant is fabricated or stored on other places than the Site).
6.10.3	The limit on retention is 10% of the Contract Price
8.6.1	The following insurances shall be effected and maintained in the joint names of the Employer and Contractor:
8.6.1.1	Insurance of the Works, Plant and materials for the period of Care of the Works for a sum insured that is the aggregate of:
8.6.1.1.1	The Contract Price (Excl. Contingencies and VAT);
8.6.1.1.2	The value of Plant and materials supplied by the Employer to be included in the insurance is R 0.00 (Excl. VAT); and
8.6.1.1.3	The amount to cover professional fees payable in respect of the repair or reinstatement of damage to the works or said movables is R 0.00 (Excl. VAT) .
8.6.1.2	The Contractor is responsible for Special Risks Insurance.
8.6.1.3	Liability insurance of at least R 5 000 000.00 with the number of events being unlimited.
8.6.5	The insurances shall be effected with an insurance company registered in South Africa.
10.5.2	Dispute resolution shall be by ad-hoc adjudication.
10.5.3	The number of Adjudication Board Members to be appointed is three.
10.7.1	In the event of disagreement with the Adjudication Board's decision the determination of disputes shall be by arbitration.
10.8.1	In the event of disagreement with the Arbitrator the determination of disputes shall be by court proceedings.



Contractor



Witness 1



Witness 2



Employer



Witness 1

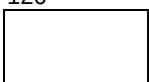


Witness 2

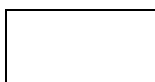
C1.2.2 PART 2: DATA PROVIDED BY THE CONTRACTOR

C1.2.2.1. GENERAL

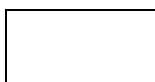
Clause	Description																
1.1.1.9	Name of the Contractor:																
1.2.1.2	Address of the Contractor: Physical:..... Postal: E-Mail: Telephone No: Cell No:.....																
6.2.1	<table border="1"> <thead> <tr> <th>Type of Security</th><th>Contractor's Choice. Indicate "Yes" or "No"</th></tr> </thead> <tbody> <tr> <td>Cash Deposit of 10% of the Contract Sum.</td><td></td></tr> <tr> <td>Fixed Performance Guarantee of 10% of the Contract Sum.</td><td></td></tr> <tr> <td>Variable Performance Guarantee of ...% of the Contract Sum for the first period and% of the Contract Sum for the second period.</td><td></td></tr> <tr> <td>Retention of 10% of the value of the Works.</td><td></td></tr> <tr> <td>Cash Deposit of 10% of the Contract Sum plus retention of 10% of the value of the Works.</td><td></td></tr> <tr> <td>Fixed Performance Guarantee of 10% of the Contract Sum plus retention of 10% of the value of the Works.</td><td></td></tr> <tr> <td>Variable Performance Guarantee of% of the Contract Sum for the first period and% of the Contract Sum for the second period plus retention of% of the value of the Works.</td><td></td></tr> </tbody> </table>	Type of Security	Contractor's Choice. Indicate "Yes" or "No"	Cash Deposit of 10% of the Contract Sum.		Fixed Performance Guarantee of 10% of the Contract Sum.		Variable Performance Guarantee of ...% of the Contract Sum for the first period and% of the Contract Sum for the second period.		Retention of 10% of the value of the Works.		Cash Deposit of 10% of the Contract Sum plus retention of 10% of the value of the Works.		Fixed Performance Guarantee of 10% of the Contract Sum plus retention of 10% of the value of the Works.		Variable Performance Guarantee of% of the Contract Sum for the first period and% of the Contract Sum for the second period plus retention of% of the value of the Works.	
Type of Security	Contractor's Choice. Indicate "Yes" or "No"																
Cash Deposit of 10% of the Contract Sum.																	
Fixed Performance Guarantee of 10% of the Contract Sum.																	
Variable Performance Guarantee of ...% of the Contract Sum for the first period and% of the Contract Sum for the second period.																	
Retention of 10% of the value of the Works.																	
Cash Deposit of 10% of the Contract Sum plus retention of 10% of the value of the Works.																	
Fixed Performance Guarantee of 10% of the Contract Sum plus retention of 10% of the value of the Works.																	
Variable Performance Guarantee of% of the Contract Sum for the first period and% of the Contract Sum for the second period plus retention of% of the value of the Works.																	



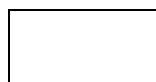
Contractor



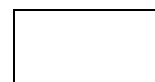
Witness 1



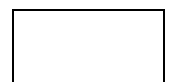
Witness 2



Employer



Witness 1



Witness 2

6.8.3 Variation in cost of special materials

The variation in cost of special materials is:

[illegible]

C1.2.2.2 PRO FORMA PERFORMANCE GUARANTEE**C1.2.2.2.1 Guarantor Details and Definitions**

“Guarantor” means: _____

Physical address: _____

“Employer” means: Joe Gqabi District Municipality

“Contractor” means: _____

“Employer's Agent” means: A Professional Registered with the Engineering Council of South Africa (ECSA) and is Mr M. A. Ndlovu Pr. Tech Eng No. 200970172 on behalf of Kufanikiwa Consulting

“Works” means: _____

“Site” means: _____

“Contract” means: The Agreement made in terms of the Form of Offer and Acceptance and such amendments or additions to the Contract as may be agreed in writing between the parties.

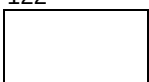
“Contract Sum” means: The accepted amount inclusive of tax of R_____

Amount in words: _____

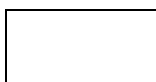
“Guaranteed Sum” means: The maximum aggregate amount of R_____

Amount in words: _____

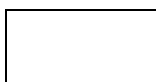
Type of Performance Guarantee: _____ *(Insert Variable or Fixed)*



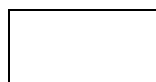
Contractor



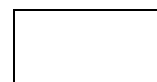
Witness 1



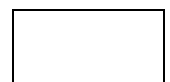
Witness 2



Employer



Witness 1



Witness 2

“Expiry Date” means: _____ (Give date)
or any other later date set by the Contractor and/or Employer provided such instruction is received prior to the Expiry Date as indicated here.

C1.2.2.2 Contract Details

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

1. VARIABLE PERFORMANCE GUARANTEE

1.1 Where a Variable Performance Guarantee has been selected, the Guarantor's liability shall be limited during the following periods to diminishing amounts of the Guaranteed Sum as follows:

1.1.1 From and including the date of signing the Performance Guarantee up to and including the date of the interim payment certificate certifying, for the first time, more than 50% of the Contract Sum:

R _____

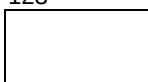
Amount in words _____

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

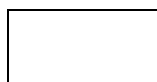
R _____

Amount in words _____

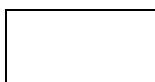
1.2 The Employer's Agent and/or the Employer shall advise the Guarantor in writing of the date on which the interim payment certificate certifying, for the first time, more than 50% of the Contract Sum, has been issued and the date on which the Certificate of Completion of the Works has been issue



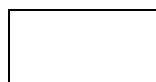
Contractor



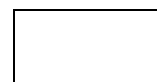
Witness 1



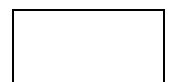
Witness 2



Employer



Witness 1



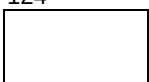
Witness 2

2. FIXED PERFORMANCE GUARANTEE

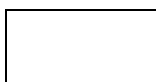
- 2.1 Where a Fixed Performance Guarantee has been selected, the Guarantor's liability shall be limited to the amount of the Guaranteed Sum.
- 2.2 The Guarantor's period of liability shall be from and including the date on which the Performance Guarantee is signed, up to and including the Expiry Date,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

3. CONDITIONS APPLICABLE TO VARIABLE AND FIXED PERFORMANCE GUARANTEES

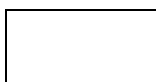
- 3.1 The Guarantor hereby acknowledges that:
- 3.1.1 Any reference in this Performance Guarantee to the Contract is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship.
- 3.1.2 Its obligation under this Performance Guarantee is restricted to the payment of money.
- 3.2 Subject to the Guarantor's maximum liability referred to in 1.1 or 2.1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 3.2.1 to 3.2.3:
- 3.2.1 A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Employer's Agent in an Interim or Final Payment Certificate has not been made in terms of the Contract and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 3.2.2;
- 3.2.2 A first written demand issued by the Employer to the Guarantor at the Guarantor's physical address with a copy to the Contractor stating that a period of seven (7) days has elapsed since the first written demand in terms of 3.2.1 and the sum certified has still not been paid;
- 3.2.3 A copy of the aforesaid payment certificate which entitles the Employer to receive payment in terms of the Contract of the sum certified in 3.2.
- 3.3 Subject to the Guarantor's maximum liability referred to in 1.1 or 2.1, the Guarantor undertakes to pay to the Employer the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand from the Employer to the Guarantor at the Guarantor's physical address calling up this Performance Guarantee, such demand stating that:
- 3.3.1 the Contract has been terminated due to the Contractor's default and that this Performance Guarantee is called up in terms of 3.3;



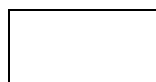
Contractor



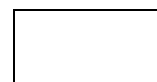
Witness 1



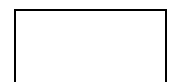
Witness 2



Employer

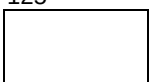


Witness 1

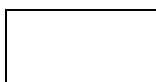


Witness 2

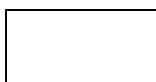
- 3.3.2** a provisional or final sequestration or liquidation court order has been granted against the Contractor and that the Performance Guarantee is called up in terms of 3.3; and
- 3.3.3** The aforesaid written demand is accompanied by a copy of the notice of termination and/or the provisional/final sequestration and/or the provisional liquidation court order.
- 3.4** It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 3.2 and 3.3 shall not exceed the Guarantor's maximum liability in terms of 1.1 or 2.1.
- 3.5** Where the Guarantor has made payment in terms of 3.3, the Employer shall upon the date of issue of the Final Payment Certificate submit an expense account to the Guarantor showing how all monies received in terms of this Performance Guarantee have been expended and shall refund to the Guarantor any resulting surplus. All monies refunded to the Guarantor in terms of this Performance Guarantee shall bear interest at the prime overdraft rate of the Employer's bank compounded monthly and calculated from the date payment was made by the Guarantor to the Employer until the date of refund.
- 3.6** Payment by the Guarantor in terms of 3.2 or 3.3 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.
- 3.7** Payment by the Guarantor in terms of 3.3 will only be made against the return of the original Performance Guarantee by the Employer.
- 3.8** The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer may consider fit and the Guarantor shall not have the right to claim his release from this Performance Guarantee on account of any conduct alleged to be prejudicial to the Guarantor.
- 3.9** The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith.
- 3.10** This Performance Guarantee is neither negotiable nor transferable and shall expire in terms of 1.1.2 or 2.2, where after no claims will be considered by the Guarantor. The original of this Guarantee shall be returned to the Guarantor after it has expired.
- 3.11** This Performance Guarantee, with the required demand notices in terms of 3.2 or 3.3, shall be regarded as a liquid document for the purposes of obtaining a court order.
- 3.12** Where this Performance Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrates' Courts Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court.



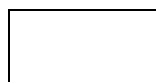
Contractor



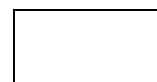
Witness 1



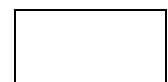
Witness 2



Employer



Witness 1



Witness 2

Signed at:

Date:

Guarantor's signatory (1):

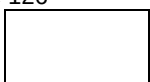
Capacity:

Guarantor's signatory (2):

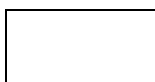
Capacity:

Witness signatory (1):

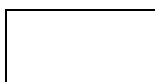
Witness signatory (2):



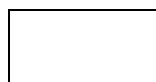
Contractor



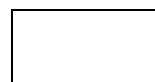
Witness 1



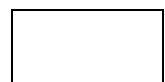
Witness 2



Employer



Witness 1



Witness 2

PART C2: PRICING SCHEDULE

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Contractor

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Witness 1

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Witness 2

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Employer

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Witness 1

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Witness 2

C2.1 PRICING ASSUMPTIONS / INSTRUCTION

Measurement and payment shall be in accordance with Clause 8 of the SANS 1200 Standardised Specifications for Civil Engineering Construction referred to in the Scope of Works, subject to the variations and amendments contained in the Section C3.5 Project Specifications.

Descriptions in the Bill of Quantities are abbreviated and comply generally with those in the Standardised Specifications. Clause 8 of each Standardised Specification, read together with the relevant clauses of Part C3: Scope of Work, set out what ancillary or associated activities are included in the rates for the operations specified.

Should any requirements of the measurement and payment clause of the applicable Standardised Specification, or the Scope of Work, conflict with the terms of the Bill of Quantities, the Employer's Agent shall direct the applicable requirements.

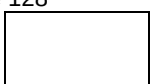
The clauses in a specification in which further information regarding the listed items in the Bill of Quantities can be obtained appear under "Payment Reference" column.

The reference clauses indicated are not necessarily the only sources of information in respect of billed items. Further information and set specifications may be found in Section C3.5 Project Specifications. Standardised Specifications are identified by the letter or letters which follow "SANS" in the SANS 1200 series of specifications, e.g., G for SANS 1200 G.

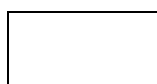
Unless otherwise stated, items are measured nett in accordance with the drawings and no allowance is made for waste. The quantities set out in the Bill of Quantities are approximate and do not necessarily represent the actual amount of work to be done. The quantities of work accepted and certified for payment will be used for determining payments due only.

The prices and rates to be inserted in the Bill of Quantities are to be the full inclusive prices for the work described under the various items. The prices and rates shall cover all costs and expenses that may be required in and for the execution of the work described, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the documents on which the tender is based, as well as overhead charges and profit. The prices will be used as a basis for assessment of payment for additional work that may have to be carried out.

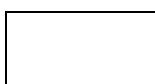
It will be assumed that prices included in these Bill of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders. (Refer to www.stanza.org or www.iso.org for information on standards).



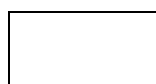
Contractor



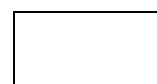
Witness 1



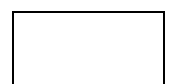
Witness 2



Employer



Witness 1



Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

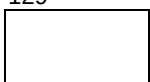
Where the Scope of Work requires detailed drawings and designs or other information to be provided, all costs associated therewith are deemed to have been provided for and included in the unit rates and sum amount tendered such items.

A price or rate is to be entered against each item in the Bill of Quantities, whether the quantities are stated or not. An item against which no price is entered will be considered to be covered by the other prices or rates in the Bill of Quantities and recorded as zero. A single lump sum will apply should a number of items be grouped together for pricing purposes.

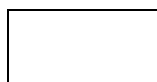
Except where rates only are required, the Tenderer shall insert all amounts to be included in his total tendered price in the "Amount" column and show the corresponding total tendered price.

The units of measurement described in the Bill of Quantities are metric units. Abbreviations used in the Bill of Quantities are as follows:

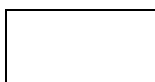
Ha	=	hectare
h	=	hour
kℓ	=	kilolitre
kg	=	kilogram
km	=	kilometre
kW	=	kilowatt
km-pass	=	kilometre pass
MN	=	Mega Newton
kPa	=	kilopascal
MN.m	=	Mega Newton-metre
ℓ	=	litre
%	=	percentage
m	=	metre
PC Sum	=	Prime Cost Sum
mm	=	millimetre
P Sum	=	Provisional Sum
PS/m	=	Provisional Sum per month
PS/d	=	Provisional Sum per day
Sum/wd	=	Sum per working day
m ²	=	square metre
No.	=	number
m ² .pass	=	square metre-pass
R/Only	=	Rate Only
m ³	=	cubic metre
Sum	=	lump sum
m ³ .km	=	cubic metre-kilometre
t	=	ton (1 000 kg)



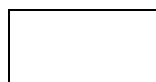
Contractor



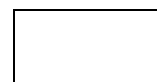
Witness 1



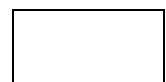
Witness 2



Employer



Witness 1



Witness 2

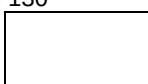
CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

MPa	=	Mega Pascal
W/day	=	Work day
%	=	percentage
nth	=	month

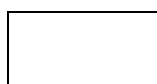
The parts of the contract to be constructed using labour-intensive methods have been marked in the Bill of Quantities with the letters LI in a separate column filled in against every item so designated.

The works, or parts of the works so designated, are to be constructed using labour-intensive methods only. The use of plant to provide such works, other than plant specifically provided for in the scope of work, is a variation to the contract. The items marked with the letters LI are not necessarily an exhaustive list of all the activities which must be done by hand, and this clause does not over-ride any of the requirements in the generic labour-intensive specification.

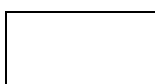
Payment for items which are designated to be constructed labour-intensively will not be made unless they are constructed using labour-intensive methods. Any unauthorised use of plant to carry out work which was to be done labour-intensively will not be condoned and any works so constructed will not be certified for payment.



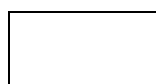
Contractor



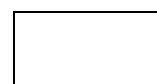
Witness 1



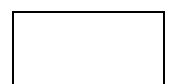
Witness 2



Employer



Witness 1



Witness 2

C2.2 BILL OF QUANTITIES

The Bill of Quantities is per village.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

SECTION 1 - PRELIMINARY AND GENERAL ITEMS						
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	AMOUNT
	SABS1200A		GENERAL ITEMS			
1	8.3		FIXED-CHARGE ITEMS			
1.1	8.3.1		Contractual Requirements.	Sum	1	R250 000.00
	8.3.2		Establish Facilities on the Site:			
	8.3.2.1		Facilities for Engineer:			
1.2			a) Furnished Offices	Sum	1	R150 000.00
1.3			b) Telephone	Sum	1	R10 000.00
1.4			c) Nameboards (30No.)	Sum	1	R240 000.00
	8.3.2.2		Facilities for Contractor:			
1.5			a) Offices and storage sheds.	Sum	1	
1.6			b) Workshops.	Sum	1	
1.7			c) Living Accommodation	Sum	1	
1.8			d) Ablution and latrine facilities	Sum	1	
1.9			e) Tools and equipment	Sum	1	
1.10			f) Water supplies, electric power, and communication.	Sum	1	
1.11			g) Dealing with water. (sub 5.5)	Sum	1	
1.12			h) Access. (sub-clause 5.8)	Sum	1	
1.13			i) Plant.	Sum	1	
1.14	8.3.3		Other fixed-charge obligations.	Sum	1	
1.15	8.3.4		Removal of Site Establishment	Sum	1	
	8.4		SCHEDULED TIME-RELATED ITEMS			
1.16	8.4.1		Contractual Requirements.	Months	36	
	8.4.2		Operation and Maintenance of Facilities on Site, for Duration of Construction, except where otherwise stated.			
	8.4.2.1		Facilities for Engineer:			
1.17			a) Furnished Offices	Months	36	
1.18			b) Telephone	Months	36	
1.19			c) Nameboards (30No.)	Months	36	
1.20			d) Survey Assistants and Materials	Months	36	
	8.4.2.2		Facilities for Contractor:			
1.21			a) Office and storage sheds.	Months	36	
1.22			b) Workshops.	Months	36	
1.23			c) Living Accommodation	Months	36	
1.24			d) Ablution and latrine facilities.	Months	36	
1.25			e) Tools and equipment.	Months	36	
1.26			f) Water supplies, electric power and communication.	Months	36	
1.27			g) Dealing with water (sub 5.5)	Months	36	
1.28			h) Access. (sub-clause 5.8)	Months	36	
1.31			i) Plant.	Months	36	
	8.4.2.3		The sum for the items in 8.4.2.1 and 8.4.2.2 shall cover the contractor's costs for the periods stated for site rentals, repairs to, and depreciation of buildings, furniture, tools and equipment.	Months	36	
1.32	8.4.3		Supervision for Duration of Construction	Months	36	
1.33	8.4.4		Company and Head Office overhead costs for the duration of contract.	Months	36	
1.34	8.4.5		Other time related obligations.	Months	36	
1.35	PSA 9.4		Implement Health and Safety including Covid 19 requirements based on approved H&S Plan and submit monthly reports as prescribed by SACPCMP by a registered CHSO	Months	36	
1.36	PSA 8.4.6.2		Security Services	Month	36	
1.37	PSA 8.4.6.3		Monthly EMP Obligations	Month	36	
1.38	PSA 8.2.2.1		Standing time due to riots outside the Contractors control.	Days	30	
1.39	PSA 8.8.2		Accommodation of Traffic. (Local - Within Construction Footprint)	Lump Sum	1	
1.40	PSA 8.3.5		Cost of Survey in terms of the Land Survey Act	Month	36	
	a)		Protecting clothing on a rotation of 3 months period	lump sum	1	
	b)		Extra over sub-item for branding of EPWP PPE	lump sum	1	
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

SECTION 1 - PRELIMINARY AND GENERAL ITEMS							
ITEM NO	PAYMENT REFERENCE	LI	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE							
	PSA 8.9		SUMS STATED PROVISIONALLY BY THE ENGINEER				
1.41			a) Labour, materials and plant to be used during execution of dayworks.	Prov Sum	1	R 300 000.00	R 300 000.00
1.42			b) Percentage allowance on cost on item No. 1.41 or Contractor's cost and profit.	%		R 300 000.00	
1.43			c) Employment of a Community Liaison Officer (CLO) to be identified by the Project Steering Committee (PSC) in consultation with the Ward Councillor and ISD Consultant.	Prov Sum	1	R 450 000.00	R 450 000.00
1.44			d) Percentage allowance on cost on item No. 1.43 for Contractor's cost and profit.	%		R 450 000.00	
1.45			e) Control tests by independent laboratory. Additional tests that may be required by the Engineer over and above normal quality control tests performed by the Contractor.	Prov Sum	1	R 500 000.00	R 500 000.00
1.46			f) Overheads, charges and profit on items 1.45	%		R 500 000.00	
1.47			g) Additional surveying requested by the Employers Agent.	Prov Sum	1	R 350 000.00	R 350 000.00
1.48			h) Overheads, charges and profit on items 1.47	%		R 350 000.00	
1.49			i) Provide indemnity for unused materials on site (bond cost)	Prov Sum	1	R 400 000.00	R 400 000.00
1.50			j) Overheads, charges and profit on items 1.49	%		R 400 000.00	
1.51			k) Relocation of existing services and fences where ordered	Prov Sum	1	R 800 000.00	R 800 000.00
1.52			l) Overheads and profits on item 1.51	%		R 800 000.00	
1.53			m) Inspection of materials by inspectors appointed by the Engineer	Prov Sum	1	R 800 000.00	R 800 000.00
1.54			n) Overheads and profits on item 1.53	%		R 800 000.00	
1.55			o) Allowance for 2 No local students for in-service training	Prov Sum	1	R 400 000.00	R 400 000.00
1.56			p) Overheads and profits on item 1.55	%		R 400 000.00	
1.57			q) Allowance for Environmental Control Officer (ECO) to inspect, monitor, assess construction site and prepare monthly site audit reports to the client and to be appointed under the Engineer	Prov Sum	1	R 1 440 000.00	R 1 440 000.00
1.58			r) Overheads and profits on item 1.57	%		R 1 440 000.00	
1.59			s) Allowance for SHE Officer to inspect, monitor, assess construction site and prepare monthly site audit reports to the client and to be appointed under the Engineer	Prov Sum	1	R 1 440 000.00	R 1 440 000.00
1.60			t) Overheads and profits on item 1.59	%		R 1 440 000.00	
1.61			u) Provisional Sum for procuring an ISD Consultant	Prov Sum	1	R 2 500 000.00	R 2 500 000.00
1.62			v) Overheads and profits on item 1.61	%		R 2 500 000.00	
1.63			w) Provisional Sum for paying Project Steering Committee members for monthly attending meetings	Prov Sum	1	R 350 000.00	R 350 000.00
1.64			x) Percentage charges and profit on item 1.63	%		R 350 000.00	
1.65			y) Provisional Sum for repair to unknown services by local authority/ service provider	Prov Sum	1	R 350 000.00	R 350 000.00
1.66			z) Overheads and profits on item 1.65	%		R 350 000.00	
1.67			aa) Provisional Sum for relocation of services by local authority/service provider as Directed by the Engineer	Prov Sum	1	R 800 000.00	R 800 000.00
1.68			ab) Overheads and profits on item 1.67	%		R 800 000.00	
1.69			ac) Provisional Sum for preparing and proving of pipe joint integrity	Prov Sum	1	R 250 000.00	R 250 000.00
1.70			ad) Overheads and profits on item 1.69	%		R 250 000.00	
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE							

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2		SECTION 2 : SITE CLEARANCE & EARTHWORKS (PIPE TRENCHES)				
2.1	SANS 1200 C	SITE CLEARANCE (PIPE TRENCHES)				
2.1.1	8.2.1	Clear and grub 2m wide strip along pipe route including trees of girth up to 1m and boulders up to 0.15m³. Cart material away and dispose to a designated spoil site	m	4400		
	8.2.2	Remove and grub trees and tree stumps of girth:				
2.1.2		a) Over 1m and up to and including 2m	No.	2		
2.1.3		b) Over 2m and up to and including 3m	No.	2		
2.1.4		c) Over 3m, in steps of 1m	No.	1		
2.1.5	8.2.4	Reclear surfaces (only if instructed by the engineer)	m	4400		
2.1.6	8.2.5	Take down existing fences and set aside for reuse	m	600		
2.1.7	PSD 8.2.5	Re-erect fences	m	600		
2.1.8	8.2.6	Clear hedge or fence or both	m	60		
2.1.9	8.2.7	Dismantle and remove pipelines, electricity transmission lines and cables (Provisional)	m	150		
2.1.10	8.2.8	Demolish and remove structures	Sum	2		
2.1.11	8.2.10	Remove topsoil to a nominal depth of 150mm, stockpile and maintain.	m³	1320		
2.2	SANS 1200 DB	EARTHWORKS (PIPE TRENCHES)				
	8.3.2	<u>Bulk Excavation</u>				
2.2.1		(a) Excavate in all materials and use for embankment or backfill, or dispose of or temporarily stockpile surplus material, as ordered:				
2.2.1.1		(1) Exceeding 0.0m but not exceeding 1.0m	m³	1060		
2.2.1.2		(2) Exceeding 1.0m but not exceeding 2.0m	m³	1240		
2.2.1.3		(3) Exceeding 2.0m but not exceeding 3.0m	m³	1240		
2.2.2		(b) Extra-over for:				
2.2.2.1		(1) intermediate excavation	m³	180		
2.2.2.2		(2) hard rock excavation	m³	180		
2.2.2.3		(3) boulders (all classes)	m³	90		
2.2.3		(c) Excavate and dispose of unsuitable material from trench bottom (provisional)	m³	57		
2.2.4	8.3.3.1	Make up deficiency in backfill material (provisional)				
2.2.4.1		(a) from other necessary excavations on site	m³	180.00		
2.2.4.2		(b) by importation from designated borrow pits	m³	180.00		
2.2.4.3		(c) by importation from commercial sources	m³	180.00		
2.2.5	SANS 1200 LG	Undertake pipe jacking or trenchless drilling (including drilling through hard rock) in consultation with the relevant stakeholders or parties in accordance with their specifications	Prov. Sum	0	R 250 000.00	R 250 000.00
2.2.6		a) Percentage allowance on cost on item No.2.2.5 for Contractor's cost and profit	%		R 250 000.00	
	8.3.6	<u>Finishing</u>				
2.2.7	8.3.6.1	Reinstate road surfaces complete with all courses				
2.2.7.1	PSD 8.3.6.1	(a) 150mm G2 material for gravel road crossings spread and compact to 95% MOD AASHTO	m³	50		
2.2.7.2	PSD 8.3.6.1	(b) 150mm G5 material for gravel road crossings, spread and compact to 95% MOD AASHTO	m³	50		
2.2.7.3	PSD 8.3.6.1	(c) 40mm thick asphalt	m³	0		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
3.3.1	8.2.13	<u>Air Valve Assembly PN 16</u>				
		Construct air valve chamber complete as detailed on drawing number 202. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.1.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.1.1.1		a) for depths between 1m and 2m	No.	1		
3.3.2	8.2.13	<u>Scour Valve Assembly PN 16</u>				
		Construct scour valve chamber complete as detailed on drawing number 210. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.2.1.1		a) for depths between 1m and 2m	No.	0		
3.3.3	8.2.13	<u>Isolation Valve Assembly PN 16</u>				
		Construct isolation valve chamber complete as detailed on drawing number 202. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.3.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.3.1.1		a) for depths between 0m and 1m	No.	3		
3.3.3.1.2		b) for depths between 1m and 2m	No.	3		
3.4		SUNDRY ITEMS				
	SANS 1200 LD	<u>Pipeline Markers</u>				
	8.2.9					
3.4.1		Supply and install concrete route markers 0.3m away from the pipe trench. Rate to include for all excavation, concrete works, painting of posts etc. As per Joe Gqabi District Municipality standards	No.	0		
	8.2.11	<u>Anchor/Thrust Blocks</u>				
3.4.2		a) 30 Mpa/19mm crushed stone (including formwork, curing, finishing, mixing etc.)	m³	19		
	SANS 1200 GA	<u>Headwalls</u>				
3.4.3		Construct concrete scour headwalls as detailed on drawing as per specification. The rate provided is to include for excavation, brick work, concrete, formwork, reinforcement etc.	No.	2		
		<u>Standpipe installation</u>				
3.4.4		Supply and install standpipes complete with fittings, valves and concrete drainage platform as per specification.	No.	7		
3.4.5		<u>Ancillary Infrastructure</u>				
3.4.5.1		Supply, Installation and/or construction of ancillary material where directed by the Engineer	Prov. Sum	1	R 25 000.00	R 25 000.00
3.4.5.2		Overheads and profit on item 3.4.5.1	%		R 25 000.00	
3.4.5.3		Supply and install subsoil drainage complete with 110mm dia perforated pipe, 19mm stone wrapped in A2 bidim, where instructed by engineer	m	400		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
4		SECTION 4: ELEVATED STORAGE TANK				
4.1	SANS 1200C	SITE CLEARANCE				
4.1.1	8.2.1	Clear and Grub Reservoir Site	m ²	1300.00		
	8.2.2	Remove and grub large trees and tree stumps of girth:				
4.1.2		a) over 1m and up to and including 2m	No	1		
4.1.3		b) over 2m and up to and including 3m	No	1		
4.1.4	PSC 8.2.5	Take down existing fences and set aside for reuse	m	0		
4.1.5	8.2.6	Clear Hedge	m	0		
4.1.6	8.2.10	Remove topsoil to a nominal depth of 150mm and stockpile	m ³	200		
4.2	SANS 1200 D	EARTHWORKS				
	8.3.2	Bulk excavation				
4.2.1		a) Excavate in all materials and use for embankment or backfill or dispose of as ordered for:				
4.2.1.1		i) Concrete footings	m ³	42		
4.2.1.2		ii) inlet and outlet chambers	m ³	40		
		b) Extra-over for:				
4.2.2		i) Intermediate excavation	m ³	10.0		
4.2.3		ii) Hard rock excavation	m ³	10.0		
4.2.4		iii) Boulder Excavation - Class A	m ³	10.0		
4.2.5		iv) Boulder Excavation - Class B	m ³	10.0		
4.2.6	8.3.4	Importation, placing and compaction of G7 gravel to grade level to 92% MOD AASHTO (at OMC) in layers in 150mm compacted to replace unsuitable material where directed by Engineer (Prov)	m ³	10		
4.2.7	8.3.4	Importation, placing and compaction of G6 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	10		
4.2.8	8.3.4	Importation, placing and compaction of G5 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	10		
	SANS 1200 ME	Subbase (Stabilization under structure) - Provisional				
	8.3.5	Process material by the following process, as relevant and use under structure on instruction by Engineer				
4.2.9		a) Screening	m ²	30		
4.2.10		b) Heavy grid rolling	m ²	30		
4.2.11		c) Stabilization (6% Cement)	m ²	30		
	8.3.8	Stabilising Agent				
4.2.12		a) Portland Cement	t	2.0		
4.3	SANS 1200 G	CONCRETE WORKS				
	8.4	Reinforced concrete for footings				
4.3.1	8.4.3 PSG 8.1.3	Strength concrete, Grade 30 MPa/19mm watertight concrete foundation	m ³	5		
4.3.2	8.4.3 PSG 8.1.4	Strength concrete, Grade 25 MPa/19mm watertight reinforced concrete platform	m ³	13		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOT						
		Concrete for base of inlet and outlet chambers and plinths				
4.3.3		Strength concrete, Grade 25 MPa/19mm watertight concrete foundation	m³	10		
4.3.4		Strength concrete, Grade 20 MPa/19mm for pedestals (to include neoprene rubber top finish)	m³	2		
4.3.5		Precast manhole rings DN2500mm x 1000mm including flexible reinforced waterproofing	No.	3		
4.3.6		DN 2500mm Precast cover slab 900mm opening, manhole cover with locking device and ventilation	No.	2		
		MASONARY				
4.3.7		230mm Thick to external walls	m²	0		
4.3.8		110mm Thick NFP Double BrickWall	m²	0		
	8.1.2; PSG 8.1.2	REINFORCEMENT				
4.3.9	8.3.1	High tensile reinforcement including cutting and bending to various codes	t	1		
4.3.10		Reinforcing Mesh Ref. 245 with a Cover of 50mm	m²	7		
4.4		Supply and install 32 kl effective volume, prefabricated square elevated steel tank, elevated to 10m High, complete with internal liner, all inlet, outlet, overflow and scour pipework, internal and external ladders, Water Level Indicators etc. Rate to be inclusive for all accessories	No.	1		
	PSA 8.10	FENCING				
4.5		Supply and install ripper wire fencing around elevated tank complete with vehicle access gates 5m wide complete with timber posts (3 quotes from local contractors to be arranged)	m	180		
4.6		E.O. for security access gate	No.	1		
4.7		Barbed tape concertina	m	180		
	8.2.2 8.2.3	SPECIALS AND FITTINGS FOR PRV, METER AND FLOW CONTROL CHAMBERS				
		Extra-over for supply, deliver, lay, bed and install specials and fittings (all flanges drilled to SANS1123, Table 16) suitable for:				
		<u>Outlet Meter Chamber</u>				
4.8		1. 50mm diameter ±730mm long puddle pipe with puddle flange located centrally, flanged one end and fitted with air valve as shown	No.	2		
4.9		2. 50mm diameter VJ Coupling	No.	2		
4.10		3. 50mm diameter flanged RSV Non-Rising Spindle Gate Valve	No.	1		
4.11		4. 80mmØ GMS straight, flanged both ends fitted with pressure gauge	No.	1		
4.12		5. Flow meter	%			
4.13		6. 75mm x 50mm diameter steel reducer flanged one end and the other end welded to a 150mm long spool piece as shown	No.	0		
4.14		7. 75mm diameter Flange Adaptor (HDPE to steel)	No.	0		
4.15		8. 50mm diameter Flange Adaptor (HDPE to steel)	No.	1		
4.16		9. GMS ladder to detail	No.	1		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5		SECTION 5:BOREHOLE				
		Supply, install, equip 2x Borehole Pumps per specification with manhole cover, control panel, electrical connection, and all applicable valves for pressure control, including isolation, non-return, and scour as per drawing titled, "BOREHOLE CHAMBER DETAILS":				
5.1		Item 1: HDPE 50mm Ø Flange Adaptor	No	2		
5.2		Item 2: GMS 50x65mm Ø F.B.E Reducer	No	0		
5.3		Item 3: GMS 50mm Ø 500mm Long spool pipe with central puddle flange, F.B.E	No	4		
5.4		Item 4: GMS 50mm Ø Equal Tee piece with 100m Spool pipe welded each end	No	2		
5.5		Item 5: GMS 50mm Ø 250mm Long spool pipe, F.O.E	No	4		
5.6		Item 6.: C.I 50mm Ø Flexible Flange Adaptor	No	4		
5.7		Item 7: GMS 50mm Ø PN16 Wedge Gate Valve F.B.E	No	4		
5.8		Item 8: GMS 50mm Ø PN16 Non Return Valve with external counterweight lever	No	2		
5.9		Item 9: GMS 50mm Ø 90 Degree Long Radius Bend	No	2		
5.10		Item 10: C.I 50mm Ø Flange Adaptor	No	2		
5.11		Construct concrete chamber complete with covers, calcamite steps, drain pipe and air vent as per drawing number 206	Sum	2		
5.12		Supply and install Stainless Steel Borehole Pump and casing and pipe up to depth of 100m below ground	Sum	2		
5.13		Supply, install, connect and test 14pc. 340W, 31° tilt solar panels including motor, inverters, cables and all accessories	Sum	1		
	SANS1200G	CONCRETE STRUCTURAL				
	8.2	Formwork				
	8.2.4	Special off form to:				
5.14		a) soffit to roof slab	m²	30		
5.15		b) pedestals	m²	3		
	8.2.6	Box out Holes/ Form Voids				
5.16		i) Circular - 600mm diameter opening	No.	8		
		ii) Rectangular - 1000mm x 600mm opening				
	8.3.1	Reinforcement				
5.17		a) mild steel	ton	1		
5.18		b) High tensile steel	ton	1		
	8.4	<u>Concrete</u>				
5.19		Screed - 1:3 Cement/ Sand	m³	28		
	8.4.3	Concrete, Grade 25MPa/ 19mm for:				
5.20		i) Chamber floor	m³	6		
5.21		ii) Chamber roof slab	m³	134.4		
		Concrete, Grade 15MPa/19mm for:				
		i) 50mm blinding				
		<u>Unformed surface finishes</u>				
5.22		a) Wood floated	m²	20		
5.23		b) Steel floated	m²	20		
		<u>Joints</u>				
		Construct construction joints for:				
5.24		Isolations joint at floor/wall junction	m	20		
5.25		Horizontal roof sliding joint on top of wall. Rate to include for two layers	m	20		
TOTAL SECTION 5 CARRIED FORWARD TO SUMMARY						

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Contract No.:	JGDM 2023/24-029	
Client:	JOE GQABI DISTRICT MUNICIPALITY	
Project Name:	ELUNDINI RURAL WATER PROGRAMME	
Village Name:	UMNGA	
	C1.2 Contract Data	
	11.2(8) The direct fee percentage is	
	11.2(8) The subcontracted fee percentage is	
	41 SSCC The percentage for people overheads is	
	21 SSCC The percentage for adjustment for equipment in the published list is	
SECTION	DESCRIPTION	AMOUNT (ZAR)
Section 2	Site Clearance and Earthworks (Pipe Trenches)	
Section 3	Medium Pressure Pipelines	
Section 4	Elevated Storage Tank	
Section 5	Borehole Chamber	
Section 6	Dayworks	
SUB-TOTAL : BILL OF QUANTITIES		
ADD 10% CONTINGENCIES SUB-TOTAL		
SUB-TOTAL A		
ADD 15% VAT TO SUB-TOTAL A		
TOTAL: BILL OF QUANTITIES		

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2		SECTION 2 : SITE CLEARANCE & EARTHWORKS (PIPE TRENCHES)				
2.1	SANS 1200 C	SITE CLEARANCE (PIPE TRENCHES)				
2.1.1	8.2.1	Clear and grub 2m wide strip along pipe route including trees of girth up to 1m and boulders up to 0.15m ³ . Cart material away and dispose to a designated spoil site	m	8290		
	8.2.2	Remove and grub trees and tree stumps of girth:				
2.1.2		a) Over 1m and up to and including 2m	No.	2		
2.1.3		b) Over 2m and up to and including 3m	No.	1		
2.1.4		c) Over 3m, in steps of 1m	No.	0		
2.1.5	8.2.4	Reclear surfaces (only if instructed by the engineer)	m	8290		
2.1.6	8.2.5	Take down existing fences and set aside for reuse	m	120		
2.1.7	PSD 8.2.5	Re-erect fences	m	120		
2.1.8	8.2.6	Clear hedge or fence or both	m	10		
2.1.9	8.2.7	Dismantle and remove pipelines, electricity transmission lines and cables (Provisional)	m	50		
2.1.10	8.2.8	Demolish and remove structures	Sum	0		
2.1.11	8.2.10	Remove topsoil to a nominal depth of 150mm, stockpile and maintain.	m ³	2490		
2.2	SANS 1200 DB	EARTHWORKS (PIPE TRENCHES)				
	8.3.2	<u>Bulk Excavation</u>				
2.2.1		(a) Excavate in all materials and use for embankment or backfill, or dispose of or temporarily stockpile surplus material, as ordered:				
2.2.1.1		(1) Exceeding 0.0m but not exceeding 1.0m	m ³	2000		
2.2.1.2		(2) Exceeding 1.0m but not exceeding 2.0m	m ³	2340		
2.2.1.3		(3) Exceeding 2.0m but not exceeding 3.0m	m ³	2340		
2.2.2		(b) Extra-over for:				
2.2.2.1		(1) intermediate excavation	m ³	340		
2.2.2.2		(2) hard rock excavation	m ³	340		
2.2.2.3		(3) boulders (all classes)	m ³	170		
2.2.3		(c) Excavate and dispose of unsuitable material from trench bottom (provisional)	m ³	108		
2.2.4	8.3.3.1	Make up deficiency in backfill material (provisional)				
2.2.4.1		(a) from other necessary excavations on site	m ³	340.00		
2.2.4.2		(b) by importation from designated borrow pits	m ³	340.00		
2.2.4.3		(c) by importation from commercial sources	m ³	340.00		
2.2.5	SANS 1200 LG	Undertake pipe jacking or trenchless drilling (including drilling through hard rock) in consultation with the relevant stakeholders or parties in accordance with their specifications	Prov. Sum	0	R 250 000.00	
2.2.6		a)Percentage allowance on cost on item No.2.2.5 for Contractor's cost and profit	%		R 250 000.00	
	8.3.6	<u>Finishing</u>				
2.2.7	8.3.6.1	Reinstate road surfaces complete with all courses				
2.2.7.1	PSD 8.3.6.1	(a) 150mm G2 material for gravel road crossings spread and compact to 95% MOD AASHTO	m ³	50		
2.2.7.2	PSD 8.3.6.1	(b)150mm G5 material for gravel road crossings, spread and compact to 95% MOD AASHTO	m ³	50		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
3.3	SANS 1200 L	VALVES AND CHAMBERS				
3.3.1	8.2.13	<u>Air Valve Assembly PN 16</u>				
		Construct air valve chamber complete as detailed on drawing number 201. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.1.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.1.1.1		a) for depths between 1m and 2m	No.	3		
3.3.2	8.2.13	<u>Scour Valve Assembly PN 16</u>				
		Construct scour valve chamber complete as detailed on drawing number 210. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.2.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.2.1.1		a) for depths between 1m and 2m	No.	0		
3.3.3	8.2.13	<u>Isolation Valve Assembly PN 16</u>				
		Construct isolation valve chamber complete as detailed on drawing number 202. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.3.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.3.1.1		a) for depths between 0m and 1m	No.	3		
3.3.3.1.2		b) for depths between 1m and 2m	No.	3		
3.4		SUNDRY ITEMS				
	SANS 1200 LD 8.2.9	<u>Pipeline Markers</u>				
3.4.1		Supply and install concrete route markers 0.3m away from the pipe trench. Rate to include for all excavation, concrete works, painting of posts etc. As per Joe Gqabi District Municipality standards	No.	30		
	8.2.11	<u>Anchor/Thrust Blocks</u>				
3.4.2		a) 30 Mpa/19mm crushed stone (including formwork, curing, finishing, mixing etc.)	m ³	7.5		
	SANS 1200 GA	<u>Headwalls</u>				
3.4.3		Construct concrete scour headwalls as per specification. The rate provided is to include for excavation, brick work, concrete, formwork, reinforcement etc.	No.	5		
		<u>Standpipe installation</u>				
3.4.4		Supply and install standpipes complete with fittings, valves and concrete drainage platform as per specification.	No.	10		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
		Concrete for base of inlet and outlet chambers and plinths				
4.3.3		Strength concrete, Grade 25 MPa/19mm watertight concrete foundation	m³	10		
4.3.4		Strength concrete, Grade 20 MPa/19mm for pedestals (to include neoprene rubber top finish)	m³	2		
4.3.5		Precast manhole rings DN2500mm x 1000mm including flexible reinforced waterproofing	No.	3		
4.3.6		DN 2500mm Precast cover slab 900mm opening, manhole cover with locking device and ventilation	No.	2		
		MASONARY				
		All bricks to be SABS Brick Classification NFX				
4.3.7		230mm Thick to external walls	m²	0		
4.3.8		110mm Thick NFP Double BrickWall	m²	0		
	8.1.2; PSG 8.1.2	REINFORCEMENT				
4.3.9	8.3.1	High tensile reinforcement including cutting and bending to various codes	t	1		
4.3.10		Reinforcing Mesh Ref. 245 with a Cover of 50mm	m²	7		
4.4		Supply and install 21 kl effective volume, prefabricated square elevated steel tank, elevated to 10m High, complete with internal liner, all inlet, outlet, overflow and scour pipework, internal and external ladders, Water Level Indicators etc. Rate to be inclusive for all accessories	No.	1		
	PSA 8.10	FENCING				
4.5		Supply and install ripper wire fencing around elevated tank complete with vehicle access gates 5m wide complete with timber posts (3 quotes from local contractors to be arranged)	m	150		
4.6		E.O. for security access gate	No.	1		
4.7		Barbed tape concertina	m	150		
	8.2.2 8.2.3	SPECIALS AND FITTINGS FOR PRV, METER AND FLOW CONTROL CHAMBERS				
		Extra-over for supply, deliver, lay, bed and install specials and fittings (all flanges drilled to SANS1123, Table 16) suitable for:				
		<u>Outlet Meter Chamber</u>				
4.8		1. 50mm diameter ±730mm long puddle pipe with puddle flange located centrally, flanged one end and fitted with air valve as shown	No.	2		
4.9		2. 50mm diameter VJ Coupling	No.	2		
4.10		3. 50mm diameter flanged RSV Non-Rising Spindle Gate Valve	No.	1		
4.11		4. 80mmØ GMS straight, flanged both ends fitted with pressure gauge	No.	1		
4.12		5. Flow meter	No.	1		
4.13		6. 75mm x 50mm diameter steel reducer flanged one end and the other end welded to a 150mm long spool piece as shown	No.	0		
4.14		7. 75mm diameter Flange Adaptor (HDPE to steel)	No.	0		
4.15		8. 50mm diameter Flange Adaptor (HDPE to steel)	No.	1		
4.16		9. GMS ladder to detail	No.	1		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6		SECTION 6: BOOSTER PUMPSTATION				
	SANS 1200C	<u>Site Clearance</u>				
6.1	8.2.1	Clear and Grub Pump station site	m ²	470		
	8.2.2	Remove and grub large trees and tree stumps of girth:				
6.2		a) over 1m and up to and including 2m	No.	2		
6.3		b) over 2m and up to and including 3m	No.	0		
6.4	8.2.5	Take down existing fences	km	0		
6.5	8.2.10	Remove topsoil to a nominal depth of 150mm and stockpile	m ³	85		
	SANS1200D	<u>Earthworks</u>				
	8.3.2	Bulk Excavation				
		a) Excavate in all materials and use for embankment or backfill or				
6.6		i) For pump station and Guardhouse platform	m ³	125		
		b) Extra- over for				
6.7		i) Intermediate excavation	m ³	62.5		
6.8		ii) Hard rock excavation	m ³	62.5		
	8.3.3	Restricted Excavation				
		a) Excavate for restricted foundations, footings, and pipe trenches in				
6.9		i) Pump station	m ³	60		
	8.3.8	Existing Services				
6.10		c) Excavate by hand in soft material to expose underground services	m ³	20		
6.11	8.3.4	Importation, placing and compaction of G7 gravel to grade level to 92% MOD AASHTO (at OMC) in layers in 150mm compacted to replace unsuitable material where directed by Engineer (Prov)	m ³	30		
6.12	8.3.4	Importation, placing and compaction of G6 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	30		
6.13	8.3.4	Importation, placing and compaction of G5 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	30		
	SANS1200G	<u>CONCRETE STRUCTURAL</u>				
	8.2	Formwork				
	8.2.4	Special off form to:				
6.14		a) soffit to roof slab	m ²	108		
6.15		b) pump station plinths	m ²	4		
6.16		c) 20 x10 drip to roof pump station and guardhouse	m	70		
	8.2.5	Narrow widths up to 300mm wide				
6.17		a) Pump station foundations	m	90		
	8.2.6	Box out Holes/ Form Voids				
		a) Small circular, of diameter up to and including 0,35m				
6.18		i) 250mm diameter	No.	5		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
	8.3.1	Reinforcement				
6.19		a) mild steel	ton	0.3		
6.20		b) High tensile steel	ton	2.5		
	8.4	Concrete				
6.21		Screed - 1:3 Cement/ Sand	m³	15		
6.22		No fines Concrete to underdrain system	m³	20		
6.23		15MPa concrete to platforms, aprons, steps, pipe supports etc.	m³	12		
	8.4.3	Concrete, Grade 25MPa/ 19mm for:				
6.24		i) Pump station footings	m³	17		
6.25		ii) Pump station floor	m³	17		
6.26		iii) Pump station roof	m³	0		
		Unformed surface finishes				
6.27		a) Wood floated	m²	70		
6.28		b) Steel floated	m²	70		
		Joints				
		Construct construction joints for:				
6.29		Isolations joint at floor/wall junction	m	70		
6.30		Horizontal roof sliding joint on top of wall. Rate to include for two layers	m	70		
6.31		Roof water proofing	m	70		
6.32		Construct Road access to Pump Station				
6.33		150mm G5 compacted to 95% Mod AASHTO	m²	200		
6.34		150mm G7 compacted to 95% Mod AASHTO	m²	200		
6.35		150mm insitu material compacted to 95% Mod AASHTO	m²	200		
		<u>Sundry Items</u>				
6.36		110mm dia. uPVC sleeves long radius 90 degree	No.	10		
		<u>Building Work</u>				
6.37		230mm thick external Facebrick Wall - Corobrick " Firelight Satin" or	m²	275		
6.38		Pump stations double doors	Sum	0		
6.39		Pump station single doors	Sum	2		
6.40		Screed to pump station roof slab	m³	0		
6.41		Windows to pump station as per drawing	No	5		
6.42		Airbricks to pump station building and chambers	No.	35		
	SANS 1200HA	Structural steel work (Sundry Items)				
6.43		Supply and install expanded metal grid including angled frames with	Prov Sum	2	R 120 000.00	R 240 000.00
		Site Drainage				
		Supply and lay "Kaymat U14 or similar approved geotextile, including				
6.44		a) Beneath 1m wide gravel apron	m²	200		
		Supply and lay to fall as indicated, drainage pipes, including all couplings cuttings and waste				
6.45		a) 110mm Ø uPVC pipe for stormwater drainage for pump station	m	90		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
		Fencing				
		Supply and erect new fencing material for pump station site				
6.46		i) Supply and Install 2.4m high, 40MPa Concrete Palisade Fence. Rate	m	250		
6.47		ii) Gates (double leaf)	No.	1		
6.48		iii) Barbed tape concertina	m	250		
	SANS 1200L	Medium Pressure Pipelines				
	8.2.5	Supply and install pipe fittings complete with all jointing materials such				
		Pumpstation As Shown. All internal pipework to be epoxy coated and				
6.49		a) 75NB steel pipe,F.O.E length=2500mm	No.	1		
6.50		b) 75mm 90 degree LR,steel bend,F.B.E	No.	6		
6.51		c) 75NB spool piece, Length = 1450mm, F.B.E	No.	1		
6.52		d) 75mm dia x 45° sweep tee F.B.E	No.	2		
6.53		e) 75NB spool pieces,length 350mm F.B.E	No.	2		
6.54		f) 75mm VJ Coupling	No.	2		
6.55		h) 75NB x 50NB reducer	No.	2		
6.56		i) 75 NB mm dia flange adaptor for steel pipe	No.	4		
6.57		j) 75NB spool pieces,length = 800mm F.O.E	No.	1		
6.58		k) 75NB spool pieces, length 1605mm. F.B.E	No.	2		
6.59		p) 75NB bermard control valve or similar approved model	No.	2		
6.6		q) 75NB spool pieces,length 1500mm. F.B.E	No.	1		
6.61		r) 75NB x 50NB reducer	No.	1		
6.62		s) 50mm air valve to detail	No.	1		
6.63		t) 50mm isolation valve to detail	No.	1		
6.64		t) 75mm isolation valve to detail	No.	4		
6.65		u) 75NB steel tee,f.b.e	No.	2		
		<u>Pumpsets</u>				
		Potable water pumps, to meet 3 litres per second at 58,72 head, together with 3,05kw motor				
6.67		a) Supply pump set complete with baseplate, motor, pump and instrumentation	No	2		
		Motor for Pumps				
6.68		b) Supply holding down bolts and grouting	set	4		
6.69		c) Pump tests (Factory Acceptance Testing)	set	2		
6.70		d) Pump tests (Site Acceptance Testing)	set	2		
		Supply and install 356 x 171 x 46 UB crawl beam complete as detailed:				
6.71		11,9m long (rate to include complete with u-bolt plate and welding in accordance	m	20		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7		SECTION 7:BOREHOLE				
		Supply, install, equip Borehole Pump per specification with manhole cover, control panel, electrical connection, and all applicable valves for pressure control, including isolation, non-return, and scour as per drawing titled, "BOREHOLE CHAMBER DETAILS":				
7.1		Item 1: HDPE 50mm Ø Flange Adaptor	No	1		
7.2		Item 2: GMS 50x65mm Ø F.B.E Reducer	No	0		
7.3		Item 3: GMS 50mm Ø 500mm Long spool pipe with central puddle flange, F.B.E	No	2		
7.4		Item 4: GMS 50mm Ø Equal Tee piece with 100m Spool pipe welded each end	No	1		
7.5		Item 5: GMS 50mm Ø 250mm Long spool pipe, F.O.E	No	2		
7.6		Item 6.: C.I 50mm Ø Flexible Flange Adaptor	No	2		
7.7		Item 7: GMS 50mm Ø PN16 Wedge Gate Valve F.B.E	No	2		
7.8		Item 8: GMS 50mm Ø PN16 Non Return Valve with external counterweight lever	No	1		
7.9		Item 9: GMS 50mm Ø 90 Degree Long Radius Bend	No	1		
7.10		Item 10: C.I 50mm Ø Flange Adaptor	No	1		
7.11		Construct concrete chamber complete with covers, calcamite steps, drain pipe and air vent as per drawing number 206	Sum	1		
7.12		Supply and install Stainless Steel Borehole Pump and casing and pipe up to depth of 100m below ground	Sum	1		
7.13		Supply, install, connect and test 5pc, 340W, 31° tilt solar panels including motor, inverters, cables and all other accessories	Sum.	1		
	SANS1200G	CONCRETE STRUCTURAL				
	8.2	Formwork				
	8.2.4	Special off form to:				
7.14		a) soffit to roof slab	m²	15		
7.15		b) pedestals	m²	1.5		
	8.2.6	Box out Holes/ Form Voids				
7.16		i) Circular - 600mm diameter opening	No.	4		
		ii) Rectangular - 1000mm x 600mm opening				
	8.3.1	Reinforcement				
7.17		a) mild steel	ton	0.5		
7.18		b) High tensile steel	ton	0.5		
	8.4	<u>Concrete</u>				
7.19		Screed - 1:3 Cement/ Sand	m³	14		
	8.4.3	Concrete, Grade 25MPa/ 19mm for:				
7.2		i) Chamber floor	m³	3		
7.21		ii) Chamber roof slab	m³	67.2		
		Concrete, Grade 15MPa/19mm for:				
		i) 50mm blinding				
		<u>Unformed surface finishes</u>				
7.22		a) Wood floated	m²	10		
7.23		b) Steel floated	m²	10		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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Contract No.:	JGDM 2023/24-029	
Client:	JOE GQABI DISTRICT MUNICIPALITY	
Project Name:	ELUNDINI RURAL WATER PROGRAMME	
Village Name:	PHALISA	
	C1.2 Contract Data	
	11.2(8) The direct fee percentage is	
	11.2(8) The subcontracted fee percentage is	
	41 SSCC The percentage for people overheads is	
	21 SSCC The percentage for adjustment for equipment in the published list is	
SECTION	DESCRIPTION	AMOUNT (ZAR)
Section 2	Site Clearance and Earthworks (Pipe Trenches)	
Section 3	Medium Pressure Pipelines	
Section 4	Elevated Storage Tank	
Section 5	Break-pressure Tank	
Section 6	Pump Station	
Section 7	Borehole Chamber	
Section 8	Spring Protection	
Section 9	Dayworks	
SUB-TOTAL : BILL OF QUANTITIES		
ADD 10% CONTINGENCIES SUB-TOTAL		
SUB-TOTAL A		
ADD 15% VAT TO SUB-TOTAL A		
TOTAL: BILL OF QUANTITIES		

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
3.3	SANS 1200 L	VALVES AND CHAMBERS				
3.3.1	8.2.13	<u>Air Valve Assembly PN 16</u>				
		Construct air valve chamber complete as detailed on drawing number 202. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.1.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.1.1.1		a) for depths between 1m and 2m	No.	2		
3.3.2	8.2.13	<u>Scour Valve Assembly PN 16</u>				
		Construct scour valve chamber complete as detailed on drawing number 210. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.2.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.2.1.1		a) for depths between 1m and 2m	No.	0		
3.3.3	8.2.13	<u>Isolation Valve Assembly PN 16</u>				
		Construct isolation valve chamber complete as detailed on drawing number 202. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.3.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.3.1.1		a) for depths between 0m and 1m	No.	2		
3.3.3.1.2		b) for depths between 1m and 2m	No.	2		
3.4		SUNDRY ITEMS				
	SANS 1200 LD 8.2.9	<u>Pipeline Markers</u>				
3.4.1		Supply and install concrete route markers 0.3m away from the pipe trench. Rate to include for all excavation, concrete works, painting of posts etc. As per Joe Gqabi District Municipality standards	No.	15		
	8.2.11	<u>Anchor/Thrust Blocks</u>				
3.4.2		a) 30 Mpa/19mm crushed stone (including formwork, curing, finishing, mixing etc.)	m ³	8		
	SANS 1200 GA	<u>Headwalls</u>				
3.4.3		Construct concrete scour headwalls as per specification The rate provided is to include for excavation, brick work, concrete, formwork, reinforcement etc.	No.	1		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
4		SECTION 4: ELEVATED STORAGE TANK				
4.1	SANS 1200C	SITE CLEARANCE				
4.1.1	8.2.1	Clear and Grub Reservoir Site	m²	1200.00		
	8.2.2	Remove and grub large trees and tree stumps of girth:				
4.1.2		a) over 1m and up to and including 2m	No	1		
4.1.3		b) over 2m and up to and including 3m	No	1		
4.1.4	PSC 8.2.5	Take down existing fences and set aside for reuse	m	0		
4.1.5	8.2.6	Clear Hedge	m	0		
4.1.6	8.2.10	Remove topsoil to a nominal depth of 150mm and stockpile	m³	180		
4.2	SANS 1200 D	EARTHWORKS				
	8.3.2	Bulk excavation				
4.2.1		a) Excavate in all materials and use for embankment or backfill or dispose of as ordered for:				
4.2.1.1		i) Concrete footings	m³	25		
4.2.1.2		ii) inlet and outlet chambers	m³	40		
		b) Extra-over for:				
4.2.2		i) Intermediate excavation	m³	10		
4.2.3		ii) Hard rock excavation	m³	10		
4.2.4		iii) Boulder Excavation - Class A	m³	10		
4.2.5		iv) Boulder Excavation - Class B	m³	10		
4.2.6	8.3.4	Importation, placing and compaction of G7 gravel to grade level to 92% MOD AASHTO (at OMC) in layers in 150mm compacted to replace unsuitable material where directed by Engineer (Prov)	m³	5		
4.2.7	8.3.4	Importation, placing and compaction of G6 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m³	5		
4.2.8	8.3.4	Importation, placing and compaction of G5 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m³	5		
	SANS 1200 ME	Subbase (Stabilization under structure) - Provisional				
	8.3.5	Process material by the following process, as relevant and use under structure on instruction by Engineer				
4.2.9		a) Screening	m²	15		
4.2.10		b) Heavy grid rolling	m²	15		
4.2.11		c) Stabilization (6% Cement)	m²	15		
	8.3.8	Stabilising Agent				
4.2.12		a) Portland Cement	t	0.5		
4.3	SANS 1200 G	CONCRETE WORKS				
	8.4	Reinforced concrete for footings				
4.3.1	8.4.3 PSG 8.1.3	Strength concrete, Grade 30 MPa/19mm watertight concrete foundation	m³	3		
4.3.2	8.4.3 PSG 8.1.4	Strength concrete, Grade 25 MPa/19mm watertight reinforced concrete platform	m³	14		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
		Concrete for base of inlet and outlet chambers and plinths				
4.3.3		Strength concrete, Grade 25 MPa/19mm watertight concrete foundation	m³	10		
4.3.4		Strength concrete, Grade 20 MPa/19mm for pedestals (to include neoprene rubber top finish)	m³	2		
4.3.5		Precast manhole rings DN2500mm x 1000mm including flexible reinforced waterproofing	No.	3		
4.3.6		DN 2500mm Precast cover slab 900mm opening, manhole cover with locking device and ventilation	No.	2		
		MASONARY				
		All bricks to be SABS Brick Classification NFX				
4.3.7		230mm Thick to external walls	m²	0		
4.3.8		110mm Thick NFP Double BrickWall	m²	0		
	8.1.2; PSG 8.1.2	REINFORCEMENT				
4.3.9	8.3.1	High tensile reinforcement including cutting and bending to various codes	t	1		
4.3.10		Reinforcing Mesh Ref. 245 with a Cover of 50mm	m²	7		
4.4		Supply and install 32 kl effective volume, prefabricated square elevated steel tank, elevated to 10m High, complete with internal liner, all inlet, outlet, overflow and scour pipework, internal and external ladders, Water Level Indicators etc. Rate to be inclusive for all accessories	No.	1		
	PSA 8.10	FENCING				
4.5		Supply and install ripper wire fencing around elevated tank complete with vehicle access gates 5m wide complete with timber posts (3 quotes from local contractors to be arranged)	m	155		
4.6		E.O. for security access gate	No.	1		
4.7		Barbed tape concertina	m	155		
	8.2.2 8.2.3	SPECIALS AND FITTINGS FOR PRV, METER AND FLOW CONTROL CHAMBERS				
		Extra-over for supply, deliver, lay, bed and install specials and fittings (all flanges drilled to SANS1123, Table 16) suitable for:				
		<u>Outlet Meter Chamber</u>				
4.8		1. 50mm diameter ±730mm long puddle pipe with puddle flange located centrally, flanged one end and fitted with air valve as shown	No.	2		
4.9		2. 50mm diameter VJ Coupling	No.	2		
4.10		3. 50mm diameter flanged RSV Non-Rising Spindle Gate Valve	No.	1		
4.11		4. 80mmØ GMS straight, flanged both ends fitted with pressure gauge	No.	1		
4.12		5. Flow meter	No.	1		
4.13		6. 75mm x 50mm diameter steel reducer flanged one end and the other end welded to a 150mm long spool piece as shown	No.	0		
4.14		7. 75mm diameter Flange Adaptor (HDPE to steel)	No.	0		
4.15		8. 50mm diameter Flange Adaptor (HDPE to steel)	No.	1		
4.16		9. GMS ladder to detail	No.	1		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7		SECTION 6:BOREHOLE				
		Supply, install, equip Borehole Pump per specification with manhole cover, control panel, electrical connection, and all applicable valves for pressure control, including isolation, non-return, and scour as per drawing titled, "BOREHOLE CHAMBER DETAILS":				
7.1		Item 1: HDPE 50mm Ø Flange Adaptor	No	2		
7.2		Item 2: GMS 50x65mm Ø F.B.E Reducer	No	0		
7.3		Item 3: GMS 50mm Ø 500mm Long spool pipe with central puddle flange, F.B.E	No	4		
7.4		Item 4: GMS 50mm Ø Equal Tee piece with 100m Spool pipe welded each end	No	2		
7.5		Item 5: GMS 50mm Ø 250mm Long spool pipe, F.O.E	No	4		
7.6		Item 6.: C.I 50mm Ø Flexible Flange Adaptor	No	4		
7.7		Item 7: GMS 50mm Ø PN16 Wedge Gate Valve F.B.E	No	4		
7.8		Item 8: GMS 50mm Ø PN16 Non Return Valve with external counterweight lever	No	2		
7.9		Item 9: GMS 50mm Ø 90 Degree Long Radius Bend	No	2		
7.10		Item 10: C.I 50mm Ø Flange Adaptor	No	2		
7.11		Construct concrete chamber complete with covers, calcamite steps, drain pipe and air vent as per drawing number 206	Sum	2		
7.12		Supply and install Stainless Steel Borehole Pump and casing and pipe up to depth of 100m below ground	Sum	1		
7.13		Supply, install, connect and test 5pc. 340W, 31° tilt solar panels including motor, inverters, cables and all accessories	Sum	1		
	SANS1200G	CONCRETE STRUCTURAL				
	8.2	Formwork				
	8.2.4	Special off form to:				
7.14		a) soffit to roof slab	m²	15		
7.15		b) pedestals	m²	1.5		
	8.2.6	Box out Holes/ Form Voids				
7.16		i) Circular - 600mm diameter opening	No.	4		
		ii) Rectangular - 1000mm x 600mm opening				
	8.3.1	Reinforcement				
7.17		a) mild steel	ton	0.5		
7.18		b) High tensile steel	ton	0.5		
	8.4	<u>Concrete</u>				
7.19		Screed - 1:3 Cement/ Sand	m³	14		
	8.4.3	Concrete, Grade 25MPa/ 19mm for:				
7.20		i) Chamber floor	m³	3		
7.21		ii) Chamber roof slab	m³	67.2		
		Concrete, Grade 15MPa/19mm for:				
		i) 50mm blinding				
		<u>Unformed surface finishes</u>				
7.22		a) Wood floated	m²	10		
7.23		b) Steel floated	m²	10		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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Contract No.:	JGDM 2023/24-029	
Client:	JOE GQABI DISTRICT MUNICIPALITY	
Project Name:	ELUNDINI RURAL WATER PROGRAMME	
Village Name:	DALUXOLO	
	C1.2 Contract Data	
	11.2(8) The direct fee percentage is	
	11.2(8) The subcontracted fee percentage is	
	41 SSCC The percentage for people overheads is	
	21 SSCC The percentage for adjustment for equipment in the published list is	
SECTION	DESCRIPTION	AMOUNT (ZAR)
Section 2	Site Clearance and Earthworks (Pipe Trenches)	
Section 3	Medium Pressure Pipelines	
Section 4	Elevated Storage Tank	
Section 5	Break-pressure Tank	
Section 6	Borehole Chamber	
Section 7	Dayworks	
SUB-TOTAL : BILL OF QUANTITIES		
ADD 10% CONTINGENCIES SUB-TOTAL		
SUB-TOTAL A		
ADD 15% VAT TO SUB-TOTAL A		
TOTAL: BILL OF QUANTITIES		

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2		SECTION 2 : SITE CLEARANCE & EARTHWORKS (PIPE TRENCHES)				
2.1	SANS 1200 C	SITE CLEARANCE (PIPE TRENCHES)				
2.1.1	8.2.1	Clear and grub 2m wide strip along pipe route including trees of girth up to 1m and boulders up to 0.15m³. Cart material away and dispose to a designated spoil site	m	10100		
	8.2.2	Remove and grub trees and tree stumps of girth:				
2.1.2		a) Over 1m and up to and including 2m	No.	10		
2.1.3		b) Over 2m and up to and including 3m	No.	10		
2.1.4		c) Over 3m, in steps of 1m	No.	0		
2.1.5	8.2.4	Reclear surfaces 2m wide strip (only if instructed by the engineer)	m	10100		
2.1.6	8.2.5	Take down existing fences and set aside for reuse	m	500		
2.1.7	PSD 8.2.5	Re-erect fences	m	500		
2.1.8	8.2.6	Clear hedge or fence or both	m	100		
2.1.9	8.2.7	Dismantle and remove pipelines, electricity transmission lines and cables (Provisional)	m	100		
2.1.10	8.2.8	Demolish and remove structures	Sum	3		
2.1.11	8.2.10	Remove topsoil to a nominal depth of 150mm, stockpile and maintain.	m³	3030		
2.2	SANS 1200 DB	EARTHWORKS (PIPE TRENCHES)				
	8.3.2	<u>Bulk Excavation</u>				
2.2.1		(a) Excavate in all materials and use for embankment or backfill, or dispose of or temporarily stockpile surplus material, as ordered:				
2.2.1.1		(1) Exceeding 0.0m but not exceeding 1.0m	m³	2410		
2.2.1.2		(2) Exceeding 1.0m but not exceeding 2.0m	m³	2810		
2.2.1.3		(3) Exceeding 2.0m but not exceeding 3.0m	m³	2810		
2.2.2		(b) Extra-over for:				
2.2.2.1		(1) intermediate excavation	m³	410		
2.2.2.2		(2) hard rock excavation	m³	410		
2.2.2.3		(3) boulders (all classes)	m³	210		
2.2.3		(c) Excavate and dispose of unsuitable material from trench bottom (provisional)	m³	131		
2.2.4	8.3.3.1	Make up deficiency in backfill material (provisional)				
2.2.4.1		(a) from other necessary excavations on site	m³	194.50		
2.2.4.2		(b) by importation from designated borrow pits	m³	194.50		
2.2.4.3		(c) by importation from commercial sources	m³	194.50		
2.2.5	SANS 1200 LG	Undertake pipe jacking or trenchless drilling (including drilling through hard rock) in consultation with the relevant stakeholders or parties in accordance with their specifications	Prov. Sum	0	R 250 000.00	
2.2.6		a)Percentage allowance on cost on item No.2.2.5 for Contractor's cost and profit	%			
	8.3.6	<u>Finishing</u>				
2.2.7	8.3.6.1	Reinstate road surfaces complete with all courses				
2.2.7.1	PSD 8.3.6.1	(a) 150mm G2 material for gravel road crossings spread and compact to 95% MOD AASHTO	m³	110		
2.2.7.2	PSD 8.3.6.1	(b)150mm G5 material for gravel road crossings, spread and compact to 95% MOD AASHTO	m³	110		
2.2.7.3	PSD 8.3.6.1	(c) 40mm thick asphalt	m³	0		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
3.3	SANS 1200 L	VALVES AND CHAMBERS				
3.3.1	8.2.13	<u>Air Valve Assembly PN 16</u>				
		Construct air valve chamber complete as detailed on drawing number 202. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.1.1		<u>j) for Ø50mm HDPE Pipe</u>				
3.3.1.1.1		a) for depths between 1m and 2m	No.	5		
3.3.2	8.2.13	<u>Scour Valve Assembly PN 16</u>				
		Construct scour valve chamber complete as detailed on drawing number 210. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.2.1		<u>j) for Ø50mm HDPE Pipe</u>				
3.3.2.1.1		a) for depths between 1m and 2m	No.	0		
3.3.3	8.2.13	<u>Isolation Valve Assembly PN 16</u>				
		Construct isolation valve chamber complete as detailed on drawing number 202. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.3.1		<u>j) for Ø50mm HDPE Pipe</u>				
3.3.3.1.1		a) for depths between 0m and 1m	No.	8		
3.3.3.1.2		b) for depths between 1m and 2m	No.	8		
3.4		SUNDRY ITEMS				
	SANS 1200 LD 8.2.9	<u>Pipeline Markers</u>				
3.4.1		Supply and install concrete route markers 0.3m away from the pipe trench. Rate to include for all excavation, concrete works, painting of posts etc. As per Joe Gqabi District Municipality standards	No.	40		
	8.2.11	<u>Anchor/Thrust Blocks</u>				
3.4.2		a) 30 Mpa/19mm crushed stone (including formwork, curing, finishing, mixing etc.)	m³	8		
	SANS 1200 GA	<u>Headwalls</u>				
3.4.3		Construct concrete scour headwalls as per specification. The rate provided is to include for excavation, brick work, concrete, formwork, reinforcement etc.	No.	1		
		<u>Standpipe installation</u>				
3.4.4		Supply and install standpipes complete with fittings, valves and concrete drainage platform as per specification.	No.	21		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
		Concrete for base of inlet and outlet chambers and plinths				
4.3.3		Strength concrete, Grade 25 MPa/19mm watertight concrete foundation	m³	10		
4.3.4		Strength concrete, Grade 20 MPa/19mm for pedestals (to include neoprene rubber top finish)	m³	2		
4.3.5		Precast manhole rings DN2500mm x 1000mm including flexible reinforced waterproofing	No.	3		
4.3.6		DN 2500mm Precast cover slab 900mm opening, manhole cover with locking device and ventilation	No.	2		
		MASONARY				
		All bricks to be SABS Brick Classification NFX				
4.3.7		230mm Thick to external walls	m²	0		
4.3.8		110mm Thick NFP Double BrickWall	m²	0		
	8.1.2; PSG 8.1.2	REINFORCEMENT				
4.3.9	8.3.1	High tensile reinforcement including cutting and bending to various codes	t	1		
4.3.10		Reinforcing Mesh Ref. 245 with a Cover of 50mm	m²	7		
4.4		Supply and install 32 kl effective volume, prefabricated square elevated steel tank, elevated to 5m High, complete with internal liner, all inlet, outlet, overflow and scour pipework, internal and external ladders, Water Level Indicators etc. Rate to be inclusive for all accessories	No.	1		
	PSA 8.10	FENCING				
4.5		Supply and install ripper wire fencing around elevated tank complete with vehicle access gates 5m wide complete with timber posts (3 quotes from local contractors to be arranged)	m	201		
4.6		E.O. for security access gate	No.	1		
4.7		Barbed tape concertina	m	201		
	8.2.2 8.2.3	SPECIALS AND FITTINGS FOR PRV, METER AND FLOW CONTROL CHAMBERS				
		Extra-over for supply, deliver, lay, bed and install specials and fittings (all flanges drilled to SANS1123, Table 16) suitable for:				
		Outlet Meter Chamber				
4.8		1. 50mm diameter ±730mm long puddle pipe with puddle flange located centrally, flanged one end and fitted with air valve as shown	No.	2		
4.9		2. 50mm diameter VJ Coupling	No.	2		
4.10		3. 50mm diameter flanged RSV Non-Rising Spindle Gate Valve	No.	1		
4.11		4. 80mmØ GMS straight, flanged both ends fitted with pressure gauge	No.	1		
4.12		5. Flow meter	No.	1		
4.13		6. 75mm x 50mm diameter steel reducer flanged one end and the other end welded to a 150mm long spool piece as shown	No.	0		
4.14		7. 75mm diameter Flange Adaptor (HDPE to steel)	No.	0		
4.15		8. 50mm diameter Flange Adaptor (HDPE to steel)	No.	1		
4.16		9. GMS ladder to detail	No.	1		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
		Inlet Meter Chamber				
4.17		1. 50mm diameter Flange Adaptor (HDPE to steel)	No.	1		
4.18		2. 75mm diameter Flange Adaptor (HDPE to steel)	No.	0		
4.19		3. 75mm x 50mm diameter steel reducer flanged one end and the other end welded to a 150mm long spool piece as shown	No.	0		
4.20		4. 50mm diameter ±730mm long puddle pipe with puddle flange located centrally flanged one end.	No.	2		
4.21		5. 50mm diameter VJ coupling	No.	2		
4.22		6. 50mm diameter flanged RSV Non-Rising Spindle Gate Valve	No.	1		
4.23		7. 50mm diameter Spool Piece ±185mm Long Flanged both ends	No.	2		
4.24		8. 50mm diameter strainer flanged both ends	No.	1		
4.25		9. GMS ladder to detail	No.	1		
TOTAL SECTION 4 CARRIED FORWARD TO SUMMARY						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6		SECTION 6: BOOSTER PUMPSTATION				
	SANS 1200C	<u>Site Clearance</u>				
6.1	8.2.1	Clear and Grub Pump station site	m ²	470		
	8.2.2	Remove and grub large trees and tree stumps of girth:				
6.2		a) over 1m and up to and including 2m	No.	2		
6.3		b) over 2m and up to and including 3m	No.	0		
6.4	8.2.5	Take down existing fences	km	0		
6.5	8.2.10	Remove topsoil to a nominal depth of 150mm and stockpile	m ³	85		
	SANS1200D	<u>Earthworks</u>				
	8.3.2	Bulk Excavation				
		a) Excavate in all materials and use for embankment or backfill or				
6.6		i) For pump station and Guardhouse platform	m ³	125		
		b) Extra- over for				
6.7		i) Intermediate excavation	m ³	62.5		
6.8		ii) Hard rock excavation	m ³	62.5		
	8.3.3	Restricted Excavation				
		a) Excavate for restricted foundations, footings, and pipe trenches in				
6.9		i) Pump station	m ³	60		
	8.3.8	Existing Services				
6.10		c) Excavate by hand in soft material to expose underground services	m ³	20		
6.11	8.3.4	Importation, placing and compaction of G7 gravel to grade level to 92% MOD AASHTO (at OMC) in layers in 150mm compacted to replace unsuitable material where directed by Engineer (Prov)	m ³	30		
6.12	8.3.4	Importation, placing and compaction of G6 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	30		
6.13	8.3.4	Importation, placing and compaction of G5 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	30		
	SANS1200G	<u>CONCRETE STRUCTURAL</u>				
	8.2	Formwork				
	8.2.4	Special off form to:				
6.14		a) soffit to roof slab	m ²	108		
6.15		b) pump station plinths	m ²	4		
6.16		c) 20 x10 drip to roof pump station and guardhouse	m	70		
	8.2.5	Narrow widths up to 300mm wide				
6.17		a) Pump station foundations	m	90		
	8.2.6	Box out Holes/ Form Voids				
		a) Small circular, of diameter up to and including 0,35m				
6.18		i) 250mm diameter	No.	5		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
	8.3.1	Reinforcement				
6.19		a) mild steel	ton	0.3		
6.20		b) High tensile steel	ton	2.5		
	8.4	Concrete				
6.21		Screed - 1:3 Cement/ Sand	m³	15		
6.22		No fines Concrete to underdrain system	m³	20		
6.23		15MPa concrete to platforms, aprons, steps, pipe supports etc.	m³	12		
	8.4.3	Concrete, Grade 25MPa/ 19mm for:				
6.24		i) Pump station footings	m³	17		
6.25		ii) Pump station floor	m³	17		
6.26		iii) Pump station roof	m³	0		
		Unformed surface finishes				
6.27		a) Wood floated	m²	70		
6.28		b) Steel floated	m²	70		
		Joints				
		Construct construction joints for:				
6.29		Isolations joint at floor/wall junction	m	70		
6.30		Horizontal roof sliding joint on top of wall. Rate to include for two layers	m	70		
6.31		Roof water proofing	m	70		
6.32		Construct Road access to Pump Station				
6.33		150mm G5 compacted to 95% Mod AASHTO	m²	200		
6.34		150mm G7 compacted to 95% Mod AASHTO	m²	200		
6.35		150mm insitu material compacted to 95% Mod AASHTO	m²	200		
		<u>Sundry Items</u>				
6.36		110mm dia. uPVC sleeves long radius 90 degree	No.	10		
		<u>Building Work</u>				
6.37		230mm thick external Facebrick Wall - Corobrick "Firelight Satin" or	m²	275		
6.38		Pump stations double doors	Sum	0		
6.39		Pump station single doors	Sum	2		
6.40		Screed to pump station roof slab	m³	0		
6.41		Windows to pump station as per drawing	No	5		
6.42		Airbricks to pump station building and chambers	No.	35		
	SANS 1200HA	Structural steel work (Sundry Items)				
6.43		Supply and install expanded metal grid including angled frames with	Prov Sum	2	R 120 000.00	R 240 000.00
		Site Drainage				
		Supply and lay "Kaymat U14 or similar approved geotextile, including				
6.44		a) Beneath 1m wide gravel apron	m²	200		
		Supply and lay to fall as indicated, drainage pipes, including all couplings cuttings and waste				
6.45		a) 110mm Ø uPVC pipe for stormwater drainage for pump station	m	90		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
		Fencing				
		Supply and erect new fencing material for pump station site				
6.46		i) Supply and Install 2.4m high, 40MPa Concrete Palisade Fence. Rate	m	250		
6.47		ii) Gates (double leaf)	No.	1		
6.48		iii) Barbed tape concertina	m	250		
	SANS 1200L	Medium Pressure Pipelines				
	8.2.5	Supply and install pipe fittings complete with all jointing materials such				
		Pumpstation As Shown. All internal pipework to be epoxy coated and				
6.49		a) 75NB steel pipe,F.O.E length=2500mm	No.	1		
6.50		b) 75mm 90 degree LR,steel bend,F.B.E	No.	6		
6.51		c) 75NB spool piece, Length = 1450mm, F.B.E	No.	1		
6.52		d) 75mm dia x 45° sweep tee F.B.E	No.	2		
6.53		e) 75NB spool pieces,length 350mm F.B.E	No.	2		
6.54		f) 75mm VJ Coupling	No.	2		
6.55		h) 75NB x 50NB reducer	No.	2		
6.56		i) 75 NB mm dia flange adaptor for steel pipe	No.	4		
6.57		j) 75NB spool pieces,length = 800mm F.O.E	No.	1		
6.58		k) 75NB spool pieces, length 1605mm. F.B.E	No.	2		
6.59		p) 75NB bermard control valve or similar approved model	No.	2		
6.6		q) 75NB spool pieces,length 1500mm. F.B.E	No.	1		
6.61		r) 75NB x 50NB reducer	No.	1		
6.62		s) 50mm air valve to detail	No.	1		
6.63		t) 50mm isolation valve to detail	No.	1		
6.64		t) 75mm isolation valve to detail	No.	4		
6.65		u) 75NB steel tee,f.b.e	No.	2		
		<u>Pumpsets</u>				
		Potable water pumps, to meet 1.4 litres per second at 72.31 head, together with 2.007kW motor				
6.67		a) Supply pump set complete with baseplate, motor, pump and instrumentation	No	2		
		Motor for Pumps				
6.68		b) Supply holding down bolts and grouting	set	4		
6.69		c) Pump tests (Factory Acceptance Testing)	set	2		
6.70		d) Pump tests (Site Acceptance Testing)	set	2		
		Supply and install 356 x 171 x 46 UB crawl beam complete as detailed:				
6.71		11,9m long (rate to include complete with u-bolt plate and welding in accordance	m	20		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7		SECTION 7:BOREHOLE				
		Supply, install, equip 2x Borehole Pump per specification with manhole cover, control panel, electrical connection, and all applicable valves for pressure control, including isolation, non-return, and scour as per drawing titled, "BOREHOLE CHAMBER DETAILS":				
7.1		Item 1: HDPE 50mm Ø Flange Adaptor	No	2		
7.2		Item 2: GMS 50x65mm Ø F.B.E Reducer	No	0		
7.3		Item 3: GMS 50mm Ø 500mm Long spool pipe with central puddle flange, F.B.E	No	4		
7.4		Item 4: GMS 50mm Ø Equal Tee piece with 100m Spool pipe welded each end	No	2		
7.5		Item 5: GMS 50mm Ø 250mm Long spool pipe, F.O.E	No	4		
7.6		Item 6.: C.I 50mm Ø Flexible Flange Adaptor	No	4		
7.7		Item 7: GMS 50mm Ø PN16 Wedge Gate Valve F.B.E	No	4		
7.8		Item 8: GMS 50mm Ø PN16 Non Return Valve with external counterweight lever	No	2		
7.9		Item 9: GMS 50mm Ø 90 Degree Long Radius Bend	No	2		
7.10		Item 10: C.I 50mm Ø Flange Adaptor	No	2		
7.11		Construct concrete chamber complete with covers, calcamite steps, drain pipe and air vent as per drawing number 206	Sum	2		
7.12		Supply, install, connect and test 8pc, 340W, 31° tilt solar panels including motor, inverters, cables and all other accessories	Sum	2		
7.13		Supply, install, connect and test 16pc. 340W, 31° tilt solar panels including motor cables and all accessories	Sum	1		
7.14		Supply, install, connect and test 24pc. 340W, 31° tilt solar panels including motor cables and all accessories	No.	24		
	SANS1200G	CONCRETE STRUCTURAL				
	8.2	Formwork				
	8.2.4	Special off form to:				
7.15		a) soffit to roof slab	m²	15		
7.16		b) pedestals	m²	1.5		
	8.2.6	Box out Holes/ Form Voids				
7.17		i) Circular - 600mm diameter opening	No.	4		
		ii) Rectangular - 1000mm x 600mm opening				
	8.3.1	Reinforcement				
7.18		a) mild steel	ton	0.5		
7.19		b) High tensile steel	ton	0.5		
	8.4	Concrete				
7.20		Screed - 1:3 Cement/ Sand	m³	14		
	8.4.3	Concrete, Grade 25MPa/ 19mm for:				
7.21		i) Chamber floor	m³	3		
7.22		ii) Chamber roof slab	m³	67.2		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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Contract No.:	JGDM 2023/24-029	
Client:	JOE GQABI DISTRICT MUNICIPALITY	
Project Name:	ELUNDINI RURAL WATER PROGRAMME	
Village Name:	ELALINI	
	C1.2 Contract Data	
	11.2(8) The direct fee percentage is	
	11.2(8) The subcontracted fee percentage is	
	41 SSCC The percentage for people overheads is	
	21 SSCC The percentage for adjustment for equipment in the published list is	
SECTION	DESCRIPTION	AMOUNT (ZAR)
Section 2	Site Clearance and Earthworks (Pipe Trenches)	
Section 3	Medium Pressure Pipelines	
Section 4	Elevated Storage Tank	
Section 5	Break-pressure Tank	
Section 6	Pump Station	
Section 7	Borehole Chamber	
Section 8	Dayworks	
SUB-TOTAL : BILL OF QUANTITIES		
ADD 10% CONTINGENCIES SUB-TOTAL		
SUB-TOTAL A		
ADD 15% VAT TO SUB-TOTAL A		
TOTAL: BILL OF QUANTITIES		

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2		SECTION 2 : SITE CLEARANCE & EARTHWORKS (PIPE TRENCHES)				
2.1	SANS 1200 C	SITE CLEARANCE (PIPE TRENCHES)				
2.1.1	8.2.1	Clear and grub 2m wide strip along pipe route including trees of girth up to 1m and boulders up to 0.15m³. Cart material away and dispose to a designated spoil site	m	14450		
	8.2.2	Remove and grub trees and tree stumps of girth:				
2.1.2		a) Over 1m and up to and including 2m	No.	10		
2.1.3		b) Over 2m and up to and including 3m	No.	10		
2.1.4		c) Over 3m, in steps of 1m	No.	0		
2.1.5	8.2.4	Reclear surfaces 2m wide strip (only if instructed by the engineer)	m	14450		
2.1.6	8.2.5	Take down existing fences and set aside for reuse	m	500		
2.1.7	PSD 8.2.5	Re-erect fences	m	500		
2.1.8	8.2.6	Clear hedge or fence or both	m	100		
2.1.9	8.2.7	Dismantle and remove pipelines, electricity transmission lines and cables (Provisional)	m	100		
2.1.10	8.2.8	Demolish and remove structures	Sum	4		
2.1.11	8.2.10	Remove topsoil to a nominal depth of 150mm, stockpile and maintain.	m³	4340		
2.2	SANS 1200 DB	EARTHWORKS (PIPE TRENCHES)				
	8.3.2	<u>Bulk Excavation</u>				
2.2.1		(a) Excavate in all materials and use for embankment or backfill, or dispose of or temporarily stockpile surplus material, as ordered:				
2.2.1.1		(1) Exceeding 0.0m but not exceeding 1.0m	m³	3480		
2.2.1.2		(2) Exceeding 1.0m but not exceeding 2.0m	m³	4060		
2.2.1.3		(3) Exceeding 2.0m but not exceeding 3.0m	m³	4060		
2.2.2		(b) Extra-over for:				
2.2.2.1		(1) intermediate excavation	m³	580		
2.2.2.2		(2) hard rock excavation	m³	580		
2.2.2.3		(3) boulders (all classes)	m³	290		
2.2.3		(c) Excavate and dispose of unsuitable material from trench bottom (provisional)	m³	188		
2.2.4	8.3.3.1	Make up deficiency in backfill material (provisional)				
2.2.4.1		(a) from other necessary excavations on site	m³	279.50		
2.2.4.2		(b) by importation from designated borrow pits	m³	279.50		
2.2.4.3		(c) by importation from commercial sources	m³	279.50		
2.2.5	SANS 1200 LG	Undertake pipe jacking or trenchless drilling (including drilling through hard rock) in consultation with the relevant stakeholders or parties in accordance with their specifications	Prov. Sum	0	R 250 000.00	
2.2.6		a)Percentage allowance on cost on item No.2.2.5 for Contractor's cost and profit	%			
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
3.3	SANS 1200 L	VALVES AND CHAMBERS				
3.3.1	8.2.13	<u>Air Valve Assembly PN 16</u>				
		Construct air valve chamber complete as detailed on drawing number 202. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.1.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.1.1.1		a) for depths between 1m and 2m	No.	12		
3.3.2	8.2.13	<u>Scour Valve Assembly PN 16</u>				
		Construct scour valve chamber complete as detailed on drawing number 210. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.2.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.2.1.1		a) for depths between 1m and 2m	No.	0		
3.3.3	8.2.13	<u>Isolation Valve Assembly PN 16</u>				
		Construct isolation valve chamber complete as detailed on drawing number 202. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.3.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.3.1.1		a) for depths between 0m and 1m	No.	10		
3.3.3.1.2		b) for depths between 1m and 2m	No.	10		
3.4		SUNDRY ITEMS				
	SANS 1200 LD 8.2.9	<u>Pipeline Markers</u>				
3.4.1		Supply and install concrete route markers 0.3m away from the pipe trench. Rate to include for all excavation, concrete works, painting of posts etc. As per Joe Gqabi District Municipality standards	No.	70		
	8.2.11	<u>Anchor/Thrust Blocks</u>				
3.4.2		a) 30 Mpa/19mm crushed stone (including formwork, curing, finishing, mixing etc.)	m ³	10		
	SANS 1200 GA	<u>Headwalls</u>				
3.4.3		Construct concrete scour headwalls as per specification. The rate provided is to include for excavation, brick work, concrete, formwork, reinforcement etc.	No.	2		
		<u>Standpipe installation</u>				
3.4.4		Supply and install standpipes complete with fittings, valves and concrete drainage platform as per specification.	No.	26		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
		Concrete for base of inlet and outlet chambers and plinths				
4.3.3		Strength concrete, Grade 25 MPa/19mm watertight concrete foundation	m³	10		
4.3.4		Strength concrete, Grade 20 MPa/19mm for pedestals (to include neoprene rubber top finish)	m³	2		
4.3.5		Precast manhole rings DN2500mm x 1000mm including flexible reinforced waterproofing	No.	3		
4.3.6		DN 2500mm Precast cover slab 900mm opening, manhole cover with locking device and ventilation	No.	2		
		MASONARY				
		All bricks to be SABS Brick Classification NFX				
4.3.7		230mm Thick to external walls	m²	0		
4.3.8		110mm Thick NFP Double BrickWall	m²	0		
	8.1.2; PSG 8.1.2	REINFORCEMENT				
4.3.9	8.3.1	High tensile reinforcement including cutting and bending to various codes	t	1		
4.3.10		Reinforcing Mesh Ref. 245 with a Cover of 50mm	m²	7		
4.4		Supply and install 21 kl effective volume, prefabricated square elevated steel tank, elevated to 15m High, complete with internal liner, all inlet, outlet, overflow and scour pipework, internal and external ladders, Water Level Indicators etc. Rate to be inclusive for all accessories	No.	1		
	PSA 8.10	FENCING				
4.5		Supply and install ripper wire fencing around elevated tank complete with vehicle access gates 5m wide complete with timber posts (3 quotes from local contractors to be arranged)	m	140		
4.6		E.O. for security access gate	No.	1		
4.7		Barbed tape concertina	m	140		
	8.2.2 8.2.3	SPECIALS AND FITTINGS FOR PRV, METER AND FLOW CONTROL CHAMBERS				
		Extra-over for supply, deliver, lay, bed and install specials and fittings (all flanges drilled to SANS1123, Table 16) suitable for:				
		<u>Outlet Meter Chamber</u>				
4.8		1. 50mm diameter ±730mm long puddle pipe with puddle flange located centrally, flanged one end and fitted with air valve as shown	No.	2		
4.9		2. 50mm diameter VJ Coupling	No.	2		
4.10		3. 50mm diameter flanged RSV Non-Rising Spindle Gate Valve	No.	1		
4.11		4. 80mmØ GMS straight, flanged both ends fitted with pressure gauge	No.	1		
4.12		5. Flow meter	No.	1		
4.13		6. 75mm x 50mm diameter steel reducer flanged one end and the other end welded to a 150mm long spool piece as shown	No.	0		
4.14		7. 75mm diameter Flange Adaptor (HDPE to steel)	No.	0		
4.15		8. 50mm diameter Flange Adaptor (HDPE to steel)	No.	1		
4.16		9. GMS ladder to detail	No.	1		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6		SECTION 6: BOOSTER PUMP STATION 1				
	SANS 1200C	<u>Site Clearance</u>				
6.1	8.2.1	Clear and Grub Pump station site	m ²	470		
	8.2.2	Remove and grub large trees and tree stumps of girth:				
6.2		a) over 1m and up to and including 2m	No.	2		
6.3		b) over 2m and up to and including 3m	No.	0		
6.4	8.2.5	Take down existing fences	km	0		
6.5	8.2.10	Remove topsoil to a nominal depth of 150mm and stockpile	m ³	85		
	SANS1200D	<u>Earthworks</u>				
	8.3.2	Bulk Excavation				
		a) Excavate in all materials and use for embankment or backfill or				
6.6		i) For pump station and Guardhouse platform	m ³	125		
		b) Extra- over for				
6.7		i) Intermediate excavation	m ³	62.5		
6.8		ii) Hard rock excavation	m ³	62.5		
	8.3.3	Restricted Excavation				
		a) Excavate for restricted foundations, footings, and pipe trenches in				
6.9		i) Pump station	m ³	60		
	8.3.8	Existing Services				
6.10		c) Excavate by hand in soft material to expose underground services	m ³	20		
6.11	8.3.4	Importation, placing and compaction of G7 gravel to grade level to 92% MOD AASHTO (at OMC) in layers in 150mm compacted to replace unsuitable material where directed by Engineer (Prov)	m ³	30		
6.12	8.3.4	Importation, placing and compaction of G6 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	30		
6.13	8.3.4	Importation, placing and compaction of G5 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	30		
	SANS1200G	<u>CONCRETE STRUCTURAL</u>				
	8.2	Formwork				
	8.2.4	Special off form to:				
6.14		a) soffit to roof slab	m ²	108		
6.15		b) pump station plinths	m ²	4		
6.16		c) 20 x10 drip to roof pump station and guardhouse	m	70		
	8.2.5	Narrow widths up to 300mm wide				
6.17		a) Pump station foundations	m	90		
	8.2.6	Box out Holes/ Form Voids				
		a) Small circular, of diameter up to and including 0,35m				
6.18		i) 250mm diameter	No.	5		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
	8.3.1	Reinforcement				
6.19		a) mild steel	ton	0.3		
6.20		b) High tensile steel	ton	2.5		
	8.4	Concrete				
6.21		Screed - 1:3 Cement/ Sand	m³	15		
6.22		No fines Concrete to underdrain system	m³	20		
6.23		15MPa concrete to platforms, aprons, steps, pipe supports etc.	m³	12		
	8.4.3	Concrete, Grade 25MPa/ 19mm for:				
6.24		i) Pump station footings	m³	17		
6.25		ii) Pump station floor	m³	17		
6.26		iii) Pump station roof	m³	0		
		Unformed surface finishes				
6.27		a) Wood floated	m²	70		
6.28		b) Steel floated	m²	70		
		Joints				
		Construct construction joints for:				
6.29		Isolations joint at floor/wall junction	m	70		
6.30		Horizontal roof sliding joint on top of wall. Rate to include for two layers	m	70		
6.31		Roof water proofing	m	70		
6.32		Construct Road access to Pump Station				
6.33		150mm G5 compacted to 95% Mod AASHTO	m²	200		
6.34		150mm G7 compacted to 95% Mod AASHTO	m²	200		
6.35		150mm insitu material compacted to 95% Mod AASHTO	m²	200		
		<u>Sundry Items</u>				
6.36		110mm dia. uPVC sleeves long radius 90 degree	No.	10		
		<u>Building Work</u>				
6.37		230mm thick external Facebrick Wall - Corobrick " Firelight Satin" or	m²	275		
6.38		Pump stations double doors	Sum	0		
6.39		Pump station single doors	Sum	2		
6.40		Screed to pump station roof slab	m³	0		
6.41		Windows to pump station as per drawing	No	5		
6.42		Airbricks to pump station building and chambers	No.	35		
	SANS 1200HA	Structural steel work (Sundry Items)				
6.43		Supply and install expanded metal grid including angled frames with	Prov Sum	2	R 120 000.00	R 240 000.00
		Site Drainage				
		Supply and lay "Kaymat U14 or similar approved geotextile, including				
6.44		a) Beneath 1m wide gravel apron	m²	200		
		Supply and lay to fall as indicated, drainage pipes, including all				
		couplings cuttings and waste				
6.45		a) 110mm Ø uPVC pipe for stormwater drainage for pump station	m	90		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
		Fencing				
		Supply and erect new fencing material for pump station site				
6.46		i) Supply and install 2.4m high, 40MPa Concrete Palisade Fence. Rate	m	250		
6.47		ii) Gates (double leaf)	No.	1		
6.48		iii) Barbed tape concertina	m	250		
	SANS 1200L	Medium Pressure Pipelines				
	8.2.5	Supply and install pipe fittings complete with all jointing materials such				
		Pumpstation As Shown. All internal pipework to be epoxy coated and				
6.49		a) 75NB steel pipe,F.O.E length=2500mm	No.	1		
6.50		b) 75mm 90 degree LR,steel bend,F.B.E	No.	6		
6.51		c) 75NB spool piece, Length = 1450mm, F.B.E	No.	1		
6.52		d) 75mm dia x 45° sweep tee F.B.E	No.	2		
6.53		e) 75NB spool pieces,length 350mm F.B.E	No.	2		
6.54		f) 75mm VJ Coupling	No.	2		
6.55		h) 75NB x 50NB reducer	No.	2		
6.56		i) 75 NB mm dia flange adaptor for steel pipe	No.	4		
6.57		j) 75NB spool pieces,length = 800mm F.O.E	No.	1		
6.58		k) 75NB spool pieces, length 1605mm. F.B.E	No.	2		
6.59		p) 75NB bermard control valve or similar approved model	No.	2		
6.6		q) 75NB spool pieces,length 1500mm. F.B.E	No.	1		
6.61		r) 75NB x 50NB reducer	No.	1		
6.62		s) 50mm air valve to detail	No.	1		
6.63		t) 50mm isolation valve to detail	No.	1		
6.64		t) 75mm isolation valve to detail	No.	4		
6.65		u) 75NB steel tee,f.b.e	No.	2		
		<u>Pumpsets</u>				
		Potable water pumps, to meet 0.2 litre per second at 85.67m head, together with 0.614 kw motor				
6.67		a) Supply pump set complete with baseplate, motor, pump and instrumentation	No	2		
		Motor for Pumps				
6.68		b) Supply holding down bolts and grouting	set	4		
6.69		c) Pump tests (Factory Acceptance Testing)	set	2		
6.70		d) Pump tests (Site Acceptance Testing)	set	2		
		Supply and install 356 x 171 x 46 UB crawl beam complete as detailed:				
6.71		11,9m long (rate to include complete with u-bolt plate and welding in accordance	m	20		
6.72		Supply and install fixed aluminium louvre ventilation panel 660mm high x 2200mm wide. Allow for all sealing and fixing	No.	2		
6.73		Supply and lay 50mmø HDPE drain pipe complete with 45° bend	m	8		
6.74		Supply and lay 50mmø HDPE drainage pipe complete with 50mmø equal tee and 90° bend.	m	20		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6		SECTION 7: BOOSTER PUMP STATION 2				
	SANS 1200C	<u>Site Clearance</u>				
6.1	8.2.1	Clear and Grub Pump station site	m ²	470		
	8.2.2	Remove and grub large trees and tree stumps of girth:				
6.2		a) over 1m and up to and including 2m	No.	2		
6.3		b) over 2m and up to and including 3m	No.	0		
6.4	8.2.5	Take down existing fences	km	0		
6.5	8.2.10	Remove topsoil to a nominal depth of 150mm and stockpile	m ³	85		
	SANS1200D	<u>Earthworks</u>				
	8.3.2	Bulk Excavation				
		a) Excavate in all materials and use for embankment or backfill or				
6.6		i) For pump station and Guardhouse platform	m ³	125		
		b) Extra- over for				
6.7		i) Intermediate excavation	m ³	62.5		
6.8		ii) Hard rock excavation	m ³	62.5		
	8.3.3	Restricted Excavation				
		a) Excavate for restricted foundations, footings, and pipe trenches in				
6.9		i) Pump station	m ³	60		
	8.3.8	Existing Services				
6.10		c) Excavate by hand in soft material to expose underground services	m ³	20		
6.11	8.3.4	Importation, placing and compaction of G7 gravel to grade level to 92% MOD AASHTO (at OMC) in layers in 150mm compacted to replace unsuitable material where directed by Engineer (Prov)	m ³	30		
6.12	8.3.4	Importation, placing and compaction of G6 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	30		
6.13	8.3.4	Importation, placing and compaction of G5 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	30		
	SANS1200G	<u>CONCRETE STRUCTURAL</u>				
	8.2	Formwork				
	8.2.4	Special off form to:				
6.14		a) soffit to roof slab	m ²	108		
6.15		b) pump station plinths	m ²	4		
6.16		c) 20 x10 drip to roof pump station and guardhouse	m	70		
	8.2.5	Narrow widths up to 300mm wide				
6.17		a) Pump station foundations	m	90		
	8.2.6	Box out Holes/ Form Voids				
		a) Small circular, of diameter up to and including 0,35m				
6.18		i) 250mm diameter	No.	5		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
	8.3.1	Reinforcement				
6.19		a) mild steel	ton	0.3		
6.20		b) High tensile steel	ton	2.5		
	8.4	Concrete				
6.21		Screed - 1:3 Cement/ Sand	m³	15		
6.22		No fines Concrete to underdrain system	m³	20		
6.23		15MPa concrete to platforms, aprons, steps, pipe supports etc.	m³	12		
	8.4.3	Concrete, Grade 25MPa/ 19mm for:				
6.24		i) Pump station footings	m³	17		
6.25		ii) Pump station floor	m³	17		
6.26		iii) Pump station roof	m³	0		
		Unformed surface finishes				
6.27		a) Wood floated	m²	70		
6.28		b) Steel floated	m²	70		
		Joints				
		Construct construction joints for:				
6.29		Isolations joint at floor/wall junction	m	70		
6.30		Horizontal roof sliding joint on top of wall. Rate to include for two layers	m	70		
6.31		Roof water proofing	m	70		
6.32		Construct Road access to Pump Station				
6.33		150mm G5 compacted to 95% Mod AASHTO	m²	200		
6.34		150mm G7 compacted to 95% Mod AASHTO	m²	200		
6.35		150mm insitu material compacted to 95% Mod AASHTO	m²	200		
		<u>Sundry Items</u>				
6.36		110mm dia. uPVC sleeves long radius 90 degree	No.	10		
		<u>Building Work</u>				
6.37		230mm thick external Facebrick Wall - Corobrick " Firelight Satin" or	m²	275		
6.38		Pump stations double doors	Sum	0		
6.39		Pump station single doors	Sum	2		
6.40		Screed to pump station roof slab	m³	0		
6.41		Windows to pump station as per drawing	No	5		
6.42		Airbricks to pump station building and chambers	No.	35		
	SANS 1200HA	Structural steel work (Sundry Items)				
6.43		Supply and install expanded metal grid including angled frames with	Prov Sum	2	R 120 000.00	R 240 000.00
		Site Drainage				
		Supply and lay "Kaymat U14 or similar approved geotextile, including				
6.44		a) Beneath 1m wide gravel apron	m²	200		
		Supply and lay to fall as indicated, drainage pipes, including all				
		couplings cuttings and waste				
6.45		a) 110mm Ø uPVC pipe for stormwater drainage for pump station	m	90		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
		Fencing				
		Supply and erect new fencing material for pump station site				
6.46		i) Supply and install 2.4m high, 40MPa Concrete Palisade Fence. Rate	m	250		
6.47		ii) Gates (double leaf)	No.	1		
6.48		iii) Barbed tape concertina	m	250		
	SANS 1200L	Medium Pressure Pipelines				
	8.2.5	Supply and install pipe fittings complete with all jointing materials such				
		Pumpstation As Shown. All internal pipework to be epoxy coated and				
6.49		a) 75NB steel pipe,F.O.E length=2500mm	No.	1		
6.50		b) 75mm 90 degree LR,steel bend,F.B.E	No.	6		
6.51		c) 75NB spool piece, Length = 1450mm, F.B.E	No.	1		
6.52		d) 75mm dia x 45° sweep tee F.B.E	No.	2		
6.53		e) 75NB spool pieces,length 350mm F.B.E	No.	2		
6.54		f) 75mm VJ Coupling	No.	2		
6.55		h) 75NB x 50NB reducer	No.	2		
6.56		i) 75 NB mm dia flange adaptor for steel pipe	No.	4		
6.57		j) 75NB spool pieces,length = 800mm F.O.E	No.	1		
6.58		k) 75NB spool pieces, length 1605mm. F.B.E	No.	2		
6.59		p) 75NB bermard control valve or similar approved model	No.	2		
6.6		q) 75NB spool pieces,length 1500mm. F.B.E	No.	1		
6.61		r) 75NB x 50NB reducer	No.	1		
6.62		s) 50mm air valve to detail	No.	1		
6.63		t) 50mm isolation valve to detail	No.	1		
6.64		t) 75mm isolation valve to detail	No.	4		
6.65		u) 75NB steel tee,f.b.e	No.	2		
		<u>Pumpsets</u>				
		Potable water pumps, to meet 0.5 litre per second at 100.03m head, together with 1.088 kW motor				
6.67		a) Supply pump set complete with baseplate, motor, pump and instrumentation	No	2		
		Motor for Pumps				
6.68		b) Supply holding down bolts and grouting	set	4		
6.69		c) Pump tests (Factory Acceptance Testing)	set	2		
6.70		d) Pump tests (Site Acceptance Testing)	set	2		
		Supply and install 356 x 171 x 46 UB crawl beam complete as detailed:				
6.71		11,9m long (rate to include complete with u-bolt plate and welding in accordance	m	20		
6.72		Supply and install fixed aluminium louvre ventilation panel 660mm high x 2200mm wide. Allow for all sealing and fixing	No.	2		
6.73		Supply and lay 50mmø HDPE drain pipe complete with 45° bend	m	8		
6.74		Supply and lay 50mmø HDPE drainage pipe complete with 50mmø equal tee and 90° bend.	m	20		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7		SECTION 8: BOREHOLE				
		Supply, install, equip 2x Borehole Pump per specification with manhole cover, control panel, electrical connection, and all applicable valves for pressure control, including isolation, non-return, and scour as per drawing titled, "BOREHOLE CHAMBER DETAILS":				
7.1		Item 1: HDPE 50mm Ø Flange Adaptor	No	2		
7.2		Item 2: GMS 50x65mm Ø F.B.E Reducer	No	0		
7.3		Item 3: GMS 50mm Ø 500mm Long spool pipe with central puddle flange, F.B.E	No	4		
7.4		Item 4: GMS 50mm Ø Equal Tee piece with 100m Spool pipe welded each end	No	2		
7.5		Item 5: GMS 50mm Ø 250mm Long spool pipe, F.O.E	No	4		
7.6		Item 6.: C.I 50mm Ø Flexible Flange Adaptor	No	4		
7.7		Item 7: GMS 50mm Ø PN16 Wedge Gate Valve F.B.E	No	4		
7.8		Item 8: GMS 50mm Ø PN16 Non Return Valve with external counterweight lever	No	2		
7.9		Item 9: GMS 50mm Ø 90 Degree Long Radius Bend	No	2		
7.10		Item 10: C.I 50mm Ø Flange Adaptor	No	2		
7.11		Construct concrete chamber complete with covers, calcamite steps, drain pipe and air vent as per drawing number 206	Sum	2		
7.12		Supply and install Stainless Steel Borehole Pump and casing and pipe up to depth of 100m below ground	Sum	2		
7.13		Supply, install, connect and test 5 pc. 340W, 31° tilt solar panels including motor cables and all accessories	Sum	2		
	SANS1200G	CONCRETE STRUCTURAL				
	8.2	Formwork				
	8.2.4	Special off form to:				
7.14		a) soffit to roof slab	m²	30		
7.15		b) pedestals	m²	3		
	8.2.6	Box out Holes/ Form Voids				
7.16		i) Circular - 600mm diameter opening	No.	8		
		ii) Rectangular - 1000mm x 600mm opening				
	8.3.1	Reinforcement				
7.17		a) mild steel	ton	1		
7.19		b) High tensile steel	ton	1		
	8.4	<u>Concrete</u>				
7.18		Screed - 1:3 Cement/ Sand	m³	28		
	8.4.3	Concrete, Grade 25MPa/ 19mm for:				
7.19		i) Chamber floor	m³	6		
7.20		ii) Chamber roof slab	m³	134.4		
		Concrete, Grade 15MPa/19mm for:				
		i) 50mm blinding				
		<u>Unformed surface finishes</u>				
7.21		a) Wood floated	m²	20		
7.22		b) Steel floated	m²	20		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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Contract No.:	JGDM 2023/24-029	
Client:	JOE GQABI DISTRICT MUNICIPALITY	
Project Name:	ELUNDINI RURAL WATER PROGRAMME	
Village Name:	KWAJOSEPHU	
	C1.2 Contract Data	
	11.2(8) The direct fee percentage is	
	11.2(8) The subcontracted fee percentage is	
	41 SSCC The percentage for people overheads is	
	21 SSCC The percentage for adjustment for equipment in the published list is	
SECTION	DESCRIPTION	AMOUNT (ZAR)
Section 2	Site Clearance and Earthworks (Pipe Trenches)	
Section 3	Medium Pressure Pipelines	
Section 4	Elevated Storage Tank	
Section 5	Break-pressure Tank	
Section 6	Pump Station 1	
Section 7	Pump Station 2	
Section 8	Borehole Chamber	
Section 9	Dayworks	
SUB-TOTAL : BILL OF QUANTITIES		
ADD 10% CONTINGENCIES SUB-TOTAL		
SUB-TOTAL A		
ADD 15% VAT TO SUB-TOTAL A		
TOTAL: BILL OF QUANTITIES		

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2		SECTION 2 : SITE CLEARANCE & EARTHWORKS (PIPE TRENCHES)				
2.1	SANS 1200 C	SITE CLEARANCE (PIPE TRENCHES)				
2.1.1	8.2.1	Clear and grub 2m wide strip along pipe route including trees of girth up to 1m and boulders up to 0.15m³. Cart material away and dispose to a designated spoil site	m	3340		
	8.2.2	Remove and grub trees and tree stumps of girth:				
2.1.2		a) Over 1m and up to and including 2m	No.	3		
2.1.3		b) Over 2m and up to and including 3m	No.	3		
2.1.4		c) Over 3m, in steps of 1m	No.	0		
2.1.5	8.2.4	Reclear surfaces 2m wide strip (only if instructed by the engineer)	m	3340		
2.1.6	8.2.5	Take down existing fences and set aside for reuse	m	200		
2.1.7	PSD 8.2.5	Re-erect fences	m	200		
2.1.8	8.2.6	Clear hedge or fence or both	m	25		
2.1.9	8.2.7	Dismantle and remove pipelines, electricity transmission lines and cables (Provisional)	m	50		
2.1.10	8.2.8	Demolish and remove structures	Sum	2		
2.1.11	8.2.10	Remove topsoil to a nominal depth of 150mm, stockpile and maintain.	m³	1010		
2.2	SANS 1200 DB	EARTHWORKS (PIPE TRENCHES)				
	8.3.2	<u>Bulk Excavation</u>				
2.2.1		(a) Excavate in all materials and use for embankment or backfill, or dispose of or temporarily stockpile surplus material, as ordered:				
2.2.1.1		(1) Exceeding 0.0m but not exceeding 1.0m	m³	800		
2.2.1.2		(2) Exceeding 1.0m but not exceeding 2.0m	m³	930		
2.2.1.3		(3) Exceeding 2.0m but not exceeding 3.0m	m³	930		
2.2.2		(b) Extra-over for:				
2.2.2.1		(1) intermediate excavation	m³	140		
2.2.2.2		(2) hard rock excavation	m³	140		
2.2.2.3		(3) boulders (all classes)	m³	70		
2.2.3		(c) Excavate and dispose of unsuitable material from trench bottom (provisional)	m³	43		
2.2.4	8.3.3.1	Make up deficiency in backfill material (provisional)				
2.2.4.1		(a) from other necessary excavations on site	m³	64.00		
2.2.4.2		(b) by importation from designated borrow pits	m³	64.00		
2.2.4.3		(c) by importation from commercial sources	m³	64.00		
2.2.5	SANS 1200 LG	Undertake pipe jacking or trenchless drilling (including drilling through hard rock) in consultation with the relevant stakeholders or parties in accordance with their specifications	Prov. Sum	0	R 250 000.00	
2.2.6		a)Percentage allowance on cost on item No.2.2.5 for Contractor's cost and profit	%			
	8.3.6	<u>Finishing</u>				
2.2.7	8.3.6.1	Reinstate road surfaces complete with all courses				
2.2.7.1	PSD 8.3.6.1	(a) 150mm G2 material for gravel road crossings spread and compact to 95% MOD AASHTO	m³	30		
2.2.7.2	PSD 8.3.6.1	(b)150mm G5 material for gravel road crossings, spread and compact to 95% MOD AASHTO	m³	30		
2.2.7.3	PSD 8.3.6.1	(c) 40mm thick asphalt	m3	0		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
3.3	SANS 1200 L	VALVES AND CHAMBERS				
3.3.1	8.2.13	<u>Air Valve Assembly PN 16</u>				
		Construct air valve chamber complete as detailed on drawing number 202. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, fomwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.1.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.1.1.1		a) for depths between 1m and 2m	No.	2		
3.3.2	8.2.13	<u>Scour Valve Assembly PN 16</u>				
		Construct scour valve chamber complete as detailed on drawing number 210. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, fomwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.2.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.2.1.1		a) for depths between 1m and 2m	No.	0		
3.3.3	8.2.13	<u>Isolation Valve Assembly PN 16</u>				
		Construct isolation valve chamber complete as detailed on drawing number 202. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, fomwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.3.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.3.1.1		a) for depths between 0m and 1m	No.	2		
3.3.3.1.2		b) for depths between 1m and 2m	No.	2		
3.4		SUNDRY ITEMS				
	SANS 1200 LD 8.2.9	<u>Pipeline Markers</u>				
3.4.1		Supply and install concrete route markers 0.3m away from the pipe trench. Rate to include for all excavation, concrete works, painting of posts etc. As per Joe Gqabi District Municipality standards	No.	15		
	8.2.11	<u>Anchor/Thrust Blocks</u>				
3.4.2		a) 30 Mpa/19mm crushed stone (including formwork, curing, finishing, mixing etc.)	m³	10		
	SANS 1200 GA	<u>Headwalls</u>				
3.4.3		Construct concrete scour headwalls as per specification. The rate provided is to include for excavation, brick work, concrete, formwork, reinforcement etc.	No.	2		
		<u>Standpipe installation</u>				
3.4.4		Supply and install standpipes complete with fittings, valves and concrete drainage platform as per specification.	No.	8		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
		Concrete for base of inlet and outlet chambers and plinths				
4.3.3		Strength concrete, Grade 25 MPa/19mm watertight concrete foundation	m³	10		
4.3.4		Strength concrete, Grade 20 MPa/19mm for pedestals (to include neoprene rubber top finish)	m³	2		
4.3.5		Precast manhole rings DN2500mm x 1000mm including flexible reinforced waterproofing	No.	3		
4.3.6		DN 2500mm Precast cover slab 900mm opening, manhole cover with locking device and ventilation	No.	2		
		MASONARY				
		All bricks to be SABS Brick Classification NFX				
4.3.7		230mm Thick to external walls	m²	0		
4.3.8		110mm Thick NFP Double BrickWall	m²	0		
	8.1.2; PSG 8.1.2	REINFORCEMENT				
4.3.9	8.3.1	High tensile reinforcement including cutting and bending to various codes	t	1		
4.3.10		Reinforcing Mesh Ref. 245 with a Cover of 50mm	m²	7		
4.4		Supply and install 16 kl effective volume, prefabricated square elevated steel tank, elevated to 5m High, complete with internal liner, all inlet, outlet, overflow and scour pipework, internal and external ladders, Water Level Indicators etc. Rate to be inclusive for all accessories	No.	1		
	PSA 8.10	FENCING				
4.5		Supply and install ripper wire fencing around elevated tank complete with vehicle access gates 5m wide complete with timber posts (3 quotes from local contractors to be arranged)	m	155		
4.6		E.O. for security access gate	No.	1		
4.7		Barbed tape concertina	m	155		
	8.2.2 8.2.3	SPECIALS AND FITTINGS FOR PRV, METER AND FLOW CONTROL CHAMBERS				
		Extra-over for supply, deliver, lay, bed and install specials and fittings (all flanges drilled to SANS1123, Table 16) suitable for:				
		<u>Outlet Meter Chamber</u>				
4.8		1. 50mm diameter ±730mm long puddle pipe with puddle flange located centrally, flanged one end and fitted with air valve as shown	No.	2		
4.9		2. 50mm diameter VJ Coupling	No.	2		
4.10		3. 50mm diameter flanged RSV Non-Rising Spindle Gate Valve	No.	1		
4.11		4. 80mmØ GMS straight, flanged both ends fitted with pressure gauge	No.	1		
4.12		5. Flow meter	No.	1		
4.13		6. 75mm x 50mm diameter steel reducer flanged one end and the other end welded to a 150mm long spool piece as shown	No.	0		
4.14		7. 75mm diameter Flange Adaptor (HDPE to steel)	No.	0		
4.15		8. 50mm diameter Flange Adaptor (HDPE to steel)	No.	1		
4.16		9. GMS ladder to detail	No.	1		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6		SECTION 6:BOREHOLE				
		Supply, install, equip Borehole Pump per specification with manhole cover, control panel, electrical connection, and all applicable valves for pressure control, including isolation, non-return, and scour as per drawing titled, "BOREHOLE CHAMBER DETAILS":				
6.1		Item 1: HDPE 50mm Ø Flange Adaptor	No	1		
6.2		Item 2: GMS 50x65mm Ø F.B.E Reducer	No	2		
6.3		Item 3: GMS 50mm Ø 500mm Long spool pipe with central puddle flange, F.B.E	No	2		
6.4		Item 4: GMS 50mm Ø Equal Tee piece with 100m Spool pipe welded each end	No	1		
6.5		Item 5: GMS 50mm Ø 250mm Long spool pipe, F.O.E	No	2		
6.6		Item 6.: C.I 50mm Ø Flexible Flange Adaptor	No	2		
6.7		Item 7: GMS 50mm Ø PN16 Wedge Gate Valve F.B.E	No	2		
6.8		Item 8: GMS 50mm Ø PN16 Non Return Valve with external counterweight lever	No	1		
6.9		Item 9: GMS 50mm Ø 90 Degree Long Radius Bend	No	1		
6.10		Item 10: C.I 50mm Ø Flange Adaptor	No	1		
6.11		Construct concrete chamber complete with covers, calcamite steps, drain pipe and air vent as per drawing number 206	Sum	1		
6.12		Supply and install Stainless Steel Borehole Pump and casing and pipe up to depth of 100m below ground	Sum	1		
6.13		Supply, install, connect and test 4pc. 340W, 31° tilt solar panels including motor, inverters, cables and all accessories	Sum	1		
	SANS1200G	CONCRETE STRUCTURAL				
	8.2	Formwork				
	8.2.4	Special off form to:				
6.14		a) soffit to roof slab	m²	15		
6.15		b) pedestals	m²	1.5		
	8.2.6	Box out Holes/ Form Voids				
6.16		i) Circular - 600mm diameter opening	No.	4		
		ii) Rectangular - 1000mm x 600mm opening				
	8.3.1	Reinforcement				
6.17		a) mild steel	ton	0.5		
6.18		b) High tensile steel	ton	0.5		
	8.4	<u>Concrete</u>				
6.19		Screed - 1:3 Cement/ Sand	m³	14		
	8.4.3	Concrete, Grade 25MPa/ 19mm for:				
6.20		i) Chamber floor	m³	3		
6.21		ii) Chamber roof slab	m³	67		
		Concrete, Grade 15MPa/19mm for:				
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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Contract No.:	JGDM 2023/24-029	
Client:	JOE GQABI DISTRICT MUNICIPALITY	
Project Name:	ELUNDINI RURAL WATER PROGRAMME	
Village Name:	ESIHLEHLENI	
	C1.2 Contract Data	
	11.2(8) The direct fee percentage is	
	11.2(8) The subcontracted fee percentage is	
	41 SSCC The percentage for people overheads is	
	21 SSCC The percentage for adjustment for equipment in the published list is	
SECTION	DESCRIPTION	AMOUNT (ZAR)
Section 2	Site Clearance and Earthworks (Pipe Trenches)	
Section 3	Medium Pressure Pipelines	
Section 4	Elevated Storage Tank	
Section 5	Break-pressure Tank	
Section 6	Borehole Chamber	
Section 7	Dayworks	
SUB-TOTAL : BILL OF QUANTITIES		
ADD 10% CONTINGENCIES SUB-TOTAL		
SUB-TOTAL A		
ADD 15% VAT TO SUB-TOTAL A		
TOTAL: BILL OF QUANTITIES		

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2		SECTION 2 : SITE CLEARANCE & EARTHWORKS (PIPE TRENCHES)				
2.1	SANS 1200 C	SITE CLEARANCE (PIPE TRENCHES)				
2.1.1	8.2.1	Clear and grub 2m wide strip along pipe route including trees of girth up to 1m and boulders up to 0.15m ³ . Cart material away and dispose to a designated spoil site	m	8990		
	8.2.2	Remove and grub trees and tree stumps of girth:				
2.1.2		a) Over 1m and up to and including 2m	No.	5		
2.1.3		b) Over 2m and up to and including 3m	No.	5		
2.1.4		c) Over 3m, in steps of 1m	No.	0		
2.1.5	8.2.4	Reclear surfaces 2m wide strip (only if instructed by the engineer)	m	8990		
2.1.6	8.2.5	Take down existing fences and set aside for reuse	m	120		
2.1.7	PSD 8.2.5	Re-erect fences	m	120		
2.1.8	8.2.6	Clear hedge or fence or both	m	100		
2.1.9	8.2.7	Dismantle and remove pipelines, electricity transmission lines and cables (Provisional)	m	100		
2.1.10	8.2.8	Demolish and remove structures	Sum	2		
2.1.11	8.2.10	Remove topsoil to a nominal depth of 150mm, stockpile and maintain.	m ³	2700		
2.2	SANS 1200 DB	EARTHWORKS (PIPE TRENCHES)				
	8.3.2	<u>Bulk Excavation</u>				
2.2.1		(a) Excavate in all materials and use for embankment or backfill, or dispose of or temporarily stockpile surplus material, as ordered:				
2.2.1.1		(1) Exceeding 0.0m but not exceeding 1.0m	m ³	2150		
2.2.1.2		(2) Exceeding 1.0m but not exceeding 2.0m	m ³	2510		
2.2.1.3		(3) Exceeding 2.0m but not exceeding 3.0m	m ³	2510		
2.2.2		(b) Extra-over for:				
2.2.2.1		(1) intermediate excavation	m ³	360		
2.2.2.2		(2) hard rock excavation	m ³	360		
2.2.2.3		(3) boulders (all classes)	m ³	180		
2.2.3		(c) Excavate and dispose of unsuitable material from trench bottom (provisional)	m ³	117		
2.2.4	8.3.3.1	Make up deficiency in backfill material (provisional)				
2.2.4.1		(a) from other necessary excavations on site	m ³	173.00		
2.2.4.2		(b) by importation from designated borrow pits	m ³	173.00		
2.2.4.3		(c) by importation from commercial sources	m ³	173.00		
2.2.5	SANS 1200 LG	Undertake pipe jacking or trenchless drilling (including drilling through hard rock) in consultation with the relevant stakeholders or parties in accordance with their specifications	Prov. Sum	0	R 250 000.00	
2.2.6		a)Percentage allowance on cost on item No.2.2.5 for Contractor's cost and profit	%			
	8.3.6	<u>Finishing</u>				
2.2.7	8.3.6.1	Reinstate road surfaces complete with all courses				
2.2.7.1	PSD 8.3.6.1	(a) 150mm G2 material for gravel road crossings spread and compact to 95% MOD AASHTO	m ³	50		
2.2.7.2	PSD 8.3.6.1	(b)150mm G5 material for gravel road crossings, spread and compact to 95% MOD AASHTO	m ³	50		
2.2.7.3	PSD 8.3.6.1	(c) 40mm thick asphalt	m3	0		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
3.3	SANS 1200 L	VALVES AND CHAMBERS				
3.3.1	8.2.13	<u>Air Valve Assembly PN 16</u>				
		Construct air valve chamber complete as detailed on drawing number 202. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.1.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.1.1.1		a) for depths between 1m and 2m	No.	2		
3.3.2	8.2.13	<u>Scour Valve Assembly PN 16</u>				
		Construct scour valve chamber complete as detailed on drawing number 210. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.2.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.2.1.1		a) for depths between 1m and 2m	No.	0		
3.3.3	8.2.13	<u>Isolation Valve Assembly PN 16</u>				
		Construct isolation valve chamber complete as detailed on drawing number 202. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.3.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.3.1.1		a) for depths between 0m and 1m	No.	3		
3.3.3.1.2		b) for depths between 1m and 2m	No.	2		
3.4		SUNDRY ITEMS				
	SANS 1200 LD 8.2.9	<u>Pipeline Markers</u>				
3.4.1		Supply and install concrete route markers 0.3m away from the pipe trench. Rate to include for all excavation, concrete works, painting of posts etc. As per Joe Gqabi District Municipality standards	No.	40		
	8.2.11	<u>Anchor/Thrust Blocks</u>				
3.4.2		a) 30 Mpa/19mm crushed stone (including formwork, curing, finishing, mixing etc.)	m ³	10		
	SANS 1200 GA	<u>Headwalls</u>				
3.4.3		Construct concrete scour headwalls as per specification. The rate provided is to include for excavation, brick work, concrete, formwork, reinforcement etc.	No.	2		
		<u>Standpipe installation</u>				
3.4.4		Supply and install standpipes complete with fittings, valves and concrete drainage platform as per specification.	No.	17		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
4		SECTION 4: ELEVATED STORAGE TANK				
4.1	SANS 1200C	SITE CLEARANCE				
4.1.1	8.2.1	Clear and Grub Reservoir Site	m ²	1170.00		
	8.2.2	Remove and grub large trees and tree stumps of girth:				
4.1.2		a) over 1m and up to and including 2m	No	1		
4.1.3		b) over 2m and up to and including 3m	No	1		
4.1.4	PSC 8.2.5	Take down existing fences and set aside for reuse	m	0		
4.1.5	8.2.6	Clear Hedge	m	0		
4.1.6	8.2.10	Remove topsoil to a nominal depth of 150mm and stockpile	m ³	180		
4.2	SANS 1200 D	EARTHWORKS				
	8.3.2	Bulk excavation				
4.2.1		a) Excavate in all materials and use for embankment or backfill or dispose of as ordered for:				
4.2.1.1		i) Concrete footings	m ³	24		
4.2.1.2		ii) inlet and outlet chambers	m ³	40		
		b) Extra-over for:				
4.2.2		i) Intermediate excavation	m ³	10		
4.2.3		ii) Hard rock excavation	m ³	10		
4.2.4		iii) Boulder Excavation - Class A	m ³	10		
4.2.5		iv) Boulder Excavation - Class B	m ³	10		
4.2.6	8.3.4	Importation, placing and compaction of G7 gravel to grade level to 92% MOD AASHTO (at OMC) in layers in 150mm compacted to replace unsuitable material where directed by Engineer (Prov)	m ³	5		
4.2.7	8.3.4	Importation, placing and compaction of G6 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	5		
4.2.8	8.3.4	Importation, placing and compaction of G5 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	5		
	SANS 1200 ME	Subbase (Stabilization under structure) - Provisional				
	8.3.5	Process material by the following process, as relevant and use under structure on instruction by Engineer				
4.2.9		a) Screening	m ²	20		
4.2.10		b) Heavy grid rolling	m ²	20		
4.2.11		c) Stabilization (6% Cement)	m ²	20		
	8.3.8	Stabilising Agent				
4.2.12		a) Portland Cement	t	1.0		
4.3	SANS 1200 G	CONCRETE WORKS				
	8.4	Reinforced concrete for footings				
4.3.1	8.4.3 PSG 8.1.3	Strength concrete, Grade 30 MPa/19mm watertight concrete foundation	m ³	3		
4.3.2	8.4.3 PSG 8.1.4	Strength concrete, Grade 25 MPa/19mm watertight reinforced concrete platform	m ³	14		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
		Concrete for base of inlet and outlet chambers and plinths				
4.3.3		Strength concrete, Grade 25 MPa/19mm watertight concrete foundation	m³	10		
4.3.4		Strength concrete, Grade 20 MPa/19mm for pedestals (to include neoprene rubber top finish)	m³	2		
4.3.5		Precast manhole rings DN2500mm x 1000mm including flexible reinforced waterproofing	No.	3		
4.3.6		DN 2500mm Precast cover slab 900mm opening, manhole cover with locking device and ventilation	No.	2		
		MASONARY				
		All bricks to be SABS Brick Classification NFX				
4.3.7		230mm Thick to external walls	m²	0		
4.3.8		110mm Thick NFP Double BrickWall	m²	0		
	8.1.2; PSG 8.1.2	REINFORCEMENT				
4.3.9	8.3.1	High tensile reinforcement including cutting and bending to various codes	t	1		
4.3.10		Reinforcing Mesh Ref. 245 with a Cover of 50mm	m²	7		
4.4		Supply and install 16 kl effective volume, prefabricated square elevated steel tank, elevated to 5m High, complete with internal liner, all inlet, outlet, overflow and scour pipework, internal and external ladders, Water Level Indicators etc. Rate to be inclusive for all accessories	No.	1		
	PSA 8.10	FENCING				
4.5		Supply and install ripper wire fencing around elevated tank complete with vehicle access gates 5m wide complete with timber posts (3 quotes from local contractors to be arranged)	m	140		
4.6		E.O. for security access gate	No.	1		
4.7		Barbed tape concertina	m	140		
	8.2.2 8.2.3	SPECIALS AND FITTINGS FOR PRV, METER AND FLOW CONTROL CHAMBERS				
		Extra-over for supply, deliver, lay, bed and install specials and fittings (all flanges drilled to SANS1123, Table 16) suitable for:				
		Outlet Meter Chamber				
4.8		1. 50mm diameter ±730mm long puddle pipe with puddle flange located centrally, flanged one end and fitted with air valve as shown	No.	2		
4.9		2. 50mm diameter VJ Coupling	No.	2		
4.10		3. 50mm diameter flanged RSV Non-Rising Spindle Gate Valve	No.	1		
4.11		4. 80mmØ GMS straight, flanged both ends fitted with pressure gauge	No.	1		
4.12		5. Flow meter	No.	1		
4.13		6. 75mm x 50mm diameter steel reducer flanged one end and the other end welded to a 150mm long spool piece as shown	No.	0		
4.14		7. 75mm diameter Flange Adaptor (HDPE to steel)	No.	0		
4.15		8. 50mm diameter Flange Adaptor (HDPE to steel)	No.	1		
4.16		9. GMS ladder to detail	No.	1		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6		SECTION 6: BOOSTER PUMPSTATION				
	SANS 1200C	<u>Site Clearance</u>				
6.1	8.2.1	Clear and Grub Pump station site	m ²	470		
	8.2.2	Remove and grub large trees and tree stumps of girth:				
6.2		a) over 1m and up to and including 2m	No.	2		
6.3		b) over 2m and up to and including 3m	No.	0		
6.4	8.2.5	Take down existing fences	km	0		
6.5	8.2.10	Remove topsoil to a nominal depth of 150mm and stockpile	m ³	85		
	SANS1200D	<u>Earthworks</u>				
	8.3.2	Bulk Excavation				
		a) Excavate in all materials and use for embankment or backfill or				
6.6		i) For pump station and Guardhouse platform	m ³	125		
		b) Extra- over for				
6.7		i) Intermediate excavation	m ³	62.5		
6.8		ii) Hard rock excavation	m ³	62.5		
	8.3.3	Restricted Excavation				
		a) Excavate for restricted foundations, footings, and pipe trenches in				
6.9		i) Pump station	m ³	60		
	8.3.8	Existing Services				
6.10		c) Excavate by hand in soft material to expose underground services	m ³	20		
6.11	8.3.4	Importation, placing and compaction of G7 gravel to grade level to 92% MOD AASHTO (at OMC) in layers in 150mm compacted to replace unsuitable material where directed by Engineer (Prov)	m ³	30		
6.12	8.3.4	Importation, placing and compaction of G6 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	30		
6.13	8.3.4	Importation, placing and compaction of G5 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	30		
	SANS1200G	<u>CONCRETE STRUCTURAL</u>				
	8.2	Formwork				
	8.2.4	Special off form to:				
6.14		a) soffit to roof slab	m ²	108		
6.15		b) pump station plinths	m ²	4		
6.16		c) 20 x10 drip to roof pump station and guardhouse	m	70		
	8.2.5	Narrow widths up to 300mm wide				
6.17		a) Pump station foundations	m	90		
	8.2.6	Box out Holes/ Form Voids				
		a) Small circular, of diameter up to and including 0,35m				
6.18		i) 250mm diameter	No.	5		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
	8.3.1	Reinforcement				
6.19		a) mild steel	ton	0.3		
6.20		b) High tensile steel	ton	2.5		
	8.4	Concrete				
6.21		Screed - 1:3 Cement/ Sand	m³	15		
6.22		No fines Concrete to underdrain system	m³	20		
6.23		15MPa concrete to platforms, aprons, steps, pipe supports etc.	m³	12		
	8.4.3	Concrete, Grade 25MPa/ 19mm for:				
6.24		i) Pump station footings	m³	17		
6.25		ii) Pump station floor	m³	17		
6.26		iii) Pump station roof	m³	0		
		Unformed surface finishes				
6.27		a) Wood floated	m²	70		
6.28		b) Steel floated	m²	70		
		Joints				
		Construct construction joints for:				
6.29		Isolations joint at floor/wall junction	m	70		
6.30		Horizontal roof sliding joint on top of wall. Rate to include for two layers	m	70		
6.31		Roof water proofing	m	70		
6.32		Construct Road access to Pump Station				
6.33		150mm G5 compacted to 95% Mod AASHTO	m²	200		
6.34		150mm G7 compacted to 95% Mod AASHTO	m²	200		
6.35		150mm insitu material compacted to 95% Mod AASHTO	m²	200		
		<u>Sundry Items</u>				
6.36		110mm dia. uPVC sleeves long radius 90 degree	No.	10		
		<u>Building Work</u>				
6.37		230mm thick external Facebrick Wall - Corobrick "Firelight Satin" or	m²	275		
6.38		Pump stations double doors	Sum	0		
6.39		Pump station single doors	Sum	2		
6.40		Screed to pump station roof slab	m³	0		
6.41		Windows to pump station as per drawing	No	5		
6.42		Airbricks to pump station building and chambers	No.	35		
	SANS 1200HA	Structural steel work (Sundry Items)				
6.43		Supply and install expanded metal grid including angled frames with	Prov Sum	2	R 120 000.00	R 240 000.00
		Site Drainage				
		Supply and lay "Kaymat U14 or similar approved geotextile, including				
6.44		a) Beneath 1m wide gravel apron	m²	200		
		Supply and lay to fall as indicated, drainage pipes, including all couplings cuttings and waste				
6.45		a) 110mm Ø uPVC pipe for stormwater drainage for pump station	m	90		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
		Fencing				
		Supply and erect new fencing material for pump station site				
6.46		i) Supply and Install 2.4m high, 40MPa Concrete Palisade Fence. Rate	m	250		
6.47		ii) Gates (double leaf)	No.	1		
6.48		iii) Barbed tape concertina	m	250		
	SANS 1200L	Medium Pressure Pipelines				
	8.2.5	Supply and install pipe fittings complete with all jointing materials such				
		Pumpstation As Shown. All internal pipework to be epoxy coated and				
6.49		a) 75NB steel pipe,F.O.E length=2500mm	No.	1		
6.50		b) 75mm 90 degree LR,steel bend,F.B.E	No.	6		
6.51		c) 75NB spool piece, Length = 1450mm, F.B.E	No.	1		
6.52		d) 75mm dia x 45° sweep tee F.B.E	No.	2		
6.53		e) 75NB spool pieces,length 350mm F.B.E	No.	2		
6.54		f) 75mm VJ Coupling	No.	2		
6.55		h) 75NB x 50NB reducer	No.	2		
6.56		i) 75 NB mm dia flange adaptor for steel pipe	No.	4		
6.57		j) 75NB spool pieces,length = 800mm F.O.E	No.	1		
6.58		k) 75NB spool pieces, length 1605mm. F.B.E	No.	2		
6.59		p) 75NB bernard control valve or similar approved model	No.	2		
6.6		q) 75NB spool pieces,length 1500mm. F.B.E	No.	1		
6.61		r) 75NB x 50NB reducer	No.	1		
6.62		s) 50mm air valve to detail	No.	1		
6.63		t) 50mm isolation valve to detail	No.	1		
6.64		t) 75mm isolation valve to detail	No.	4		
6.65		u) 75NB steel tee,f.b.e	No.	2		
		<u>Pumpsets</u>				
		Potable water pumps, to meet 1 litre per second at 145,63 head, together with 2,996kW motor				
6.67		a) Supply pump set complete with baseplate, motor, pump and instrumentation	No	2		
		Motor for Pumps				
6.68		b) Supply holding down bolts and grouting	set	4		
6.69		c) Pump tests (Factory Acceptance Testing)	set	2		
6.70		d) Pump tests (Site Acceptance Testing)	set	2		
		Supply and install 356 x 171 x 46 UB crawl beam complete as detailed:				
6.71		11,9m long (rate to include complete with u-bolt plate and welding in accordance	m	20		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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Contract No.:	JGDM 2023/24-029	
Client:	JOE GQABI DISTRICT MUNICIPALITY	
Project Name:	ELUNDINI RURAL WATER PROGRAMME	
Village Name:	NAYIJELE	
	C1.2 Contract Data	
	11.2(8) The direct fee percentage is	
	11.2(8) The subcontracted fee percentage is	
	41 SSCC The percentage for people overheads is	
	21 SSCC The percentage for adjustment for equipment in the published list is	
SECTION	DESCRIPTION	AMOUNT (ZAR)
Section 2	Site Clearance and Earthworks (Pipe Trenches)	
Section 3	Medium Pressure Pipelines	
Section 4	Elevated Storage Tank	
Section 5	Break-pressure Tank	
Section 6	Pump Station	
Section 7	Borehole Chamber	
Section 8	Dayworks	
SUB-TOTAL : BILL OF QUANTITIES		
ADD 10% CONTINGENCIES SUB-TOTAL		
SUB-TOTAL A		
ADD 15% VAT TO SUB-TOTAL A		
TOTAL: BILL OF QUANTITIES		

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2		SECTION 2 : SITE CLEARANCE & EARTHWORKS (PIPE TRENCHES)				
2.1	SANS 1200 C	SITE CLEARANCE (PIPE TRENCHES)				
2.1.1	8.2.1	Clear and grub 2m wide strip along pipe route including trees of girth up to 1m and boulders up to 0.15m³. Cart material away and dispose to a designated spoil site	m	2920		
	8.2.2	Remove and grub trees and tree stumps of girth:				
2.1.2		a) Over 1m and up to and including 2m	No.	1		
2.1.3		b) Over 2m and up to and including 3m	No.	0		
2.1.4		c) Over 3m, in steps of 1m	No.	0		
2.1.5	8.2.4	Reclar surfaces (only if instructed by the engineer)	m	2920		
2.1.6	8.2.5	Take down existing fences and set aside for reuse	m	5		
2.1.7	PSD 8.2.5	Re-erect fences	m	5		
2.1.8	8.2.6	Clear hedge or fence or both	m	10		
2.1.9	8.2.7	Dismantle and remove pipelines, electricity transmission lines and cables (Provisional)	m	50		
2.1.10	8.2.8	Demolish and remove structures	Sum	0		
2.1.11	8.2.10	Remove topsoil to a nominal depth of 150mm, stockpile and maintain.	m³	880		
2.2	SANS 1200 DB	EARTHWORKS (PIPE TRENCHES)				
	8.3.2	<u>Bulk Excavation</u>				
2.2.1		(a) Excavate in all materials and use for embankment or backfill, or dispose of or temporarily stockpile surplus material, as ordered:				
2.2.1.1		(1) Exceeding 0.0m but not exceeding 1.0m	m³	710		
2.2.1.2		(2) Exceeding 1.0m but not exceeding 2.0m	m³	830		
2.2.1.3		(3) Exceeding 2.0m but not exceeding 3.0m	m³	830		
2.2.2		(b) Extra-over for:				
2.2.2.1		(1) intermediate excavation	m³	150		
2.2.2.2		(2) hard rock excavation	m³	150		
2.2.2.3		(3) boulders (all classes)	m³	80		
2.2.3		(c) Excavate and dispose of unsuitable material from trench bottom (provisional)	m³	38		
2.2.4	8.3.3.1	Make up deficiency in backfill material (provisional)				
2.2.4.1		(a) from other necessary excavations on site	m³	120		
2.2.4.2		(b) by importation from designated borrow pits	m³	120		
2.2.4.3		(c) by importation from commercial sources	m³	120		
2.2.5	SANS 1200 LG	Undertake pipe jacking or trenchless drilling (including drilling through hard rock) in consultation with the relevant stakeholders or parties in accordance with their specifications	Prov. Sum	0	R 250 000.00	
2.2.6		a)Percentage allowance on cost on item No.2.2.5 for Contractor's cost and profit	%			
	8.3.6	<u>Finishing</u>				
2.2.7	8.3.6.1	Reinstate road surfaces complete with all courses				
2.2.7.1	PSD 8.3.6.1	(a) 150mm G2 material for gravel road crossings spread and compact to 95% MOD AASHTO	m³	90		
2.2.7.2	PSD 8.3.6.1	(b)150mm G5 material for gravel road crossings, spread and compact to 95% MOD AASHTO	m³	90		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
3.3	SANS 1200 L	VALVES AND CHAMBERS				
3.3.1	8.2.13	<u>Air Valve Assembly PN 16</u>				
		Construct air valve chamber complete as detailed on drawing number 202. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.1.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.1.1.1		a) for depths between 1m and 2m	No.	5		
3.3.2	8.2.13	<u>Scour Valve Assembly PN 16</u>				
		Construct scour valve chamber complete as detailed on drawing number 210. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.2.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.2.1.1		a) for depths between 1m and 2m	No.	0		
3.3.3	8.2.13	<u>Isolation Valve Assembly PN 16</u>				
		Construct isolation valve chamber complete as detailed on drawing number 202. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.3.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.3.1.1		a) for depths between 0m and 1m	No.	5		
3.3.3.1.2		b) for depths between 1m and 2m	No.	2		
3.4		SUNDRY ITEMS				
	SANS 1200 LD 8.2.9	<u>Pipeline Markers</u>				
3.4.1		Supply and install concrete route markers 0.3m away from the pipe trench. Rate to include for all excavation, concrete works, painting of posts etc. As per Joe Gqabi District Municipality standards	No.	16		
	8.2.11	<u>Anchor/Thrust Blocks</u>				
3.4.2		a) 30 Mpa/19mm crushed stone (including formwork, curing, finishing, mixing etc.)	m ³	7.5		
	SANS 1200 GA	<u>Headwalls</u>				
3.4.3		Construct concrete scour headwalls as per specifications. The rate provided is to include for excavation, brick work, concrete, formwork, reinforcement etc.	No.	0		
		<u>Standpipe installation</u>				
3.4.4		Supply and install standpipes complete with fittings, valves and concrete drainage platform as per specification.	No.	6		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
		Concrete for base of inlet and outlet chambers and plinths				
4.3.3		Strength concrete, Grade 25 MPa/19mm watertight concrete foundation	m³	20		
4.3.4		Strength concrete, Grade 20 MPa/19mm for pedestals (to include neoprene rubber top finish)	m³	2		
4.3.5		Precast manhole rings DN2500mm x 1000mm including flexible reinforced waterproofing	No.	3		
4.3.6		DN 2500mm Precast cover slab 900mm opening, manhole cover with locking device and ventilation	No.	2		
		MASONARY				
		All bricks to be SABS Brick Classification NFX				
4.3.7		230mm Thick to external walls	m²	0		
4.3.8		110mm Thick NFP Double BrickWall	m²	0		
	8.1.2; PSG 8.1.2	REINFORCEMENT				
4.3.9	8.3.1	High tensile reinforcement including cutting and bending to various codes	t	0.5		
4.3.10		Reinforcing Mesh Ref. 245 with a Cover of 50mm	m²	7		
		Supply and install 16 kl effective volume, prefabricated square elevated steel tank, elevated to 15m High, complete with internal liner, all inlet, outlet, overflow and scour pipework, internal and external ladders, Water Level Indicators etc. Rate to be inclusive for all accessories	No.	1		
	PSA 8.10	FENCING				
4.5		Supply and install ripper wire fencing around elevated tank complete with vehicle access gates 5m wide complete with timber posts (3 quotes from local contractors to be arranged)	m	150		
4.6		E.O. for security access gate	No.	1		
4.7		Barbed tape concertina	m	150		
	8.2.2 8.2.3	SPECIALS AND FITTINGS FOR PRV, METER AND FLOW CONTROL CHAMBERS				
		Extra-over for supply, deliver, lay, bed and install specials and fittings (all flanges drilled to SANS1123, Table 16) suitable for:				
		<u>Outlet Meter Chamber</u>				
4.8		1. 50mm diameter ±730mm long puddle pipe with puddle flange located centrally, flanged one end and fitted with air valve as shown	No.	1		
4.9		2. 50mm diameter VJ Coupling	No.	1		
4.10		3. 50mm diameter flanged RSV Non-Rising Spindle Gate Valve	No.	1		
4.11		4. 80mmØ GMS straight, flanged both ends fitted with pressure gauge	No.	1		
4.12		5. Flow meter	No.	1		
4.13		6. 75mm x 50mm diameter steel reducer flanged one end and the other end welded to a 150mm long spool piece as shown	No.	0		
4.14		7. 75mm diameter Flange Adaptor (HDPE to steel)	No.	0		
4.15		8. 50mm diameter Flange Adaptor (HDPE to steel)	No.	1		
4.16		9. GMS ladder to detail	No.	1		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6		SECTION 6: BOOSTER PUMPSTATION 1				
	SANS 1200C	<u>Site Clearance</u>				
6.1	8.2.1	Clear and Grub Pump station site	m ²	470		
	8.2.2	Remove and grub large trees and tree stumps of girth:				
6.2		a) over 1m and up to and including 2m	No.	2		
6.3		b) over 2m and up to and including 3m	No.	0		
6.4	8.2.5	Take down existing fences	km	0		
6.5	8.2.10	Remove topsoil to a nominal depth of 150mm and stockpile	m ³	85		
	SANS1200D	<u>Earthworks</u>				
	8.3.2	Bulk Excavation				
		a) Excavate in all materials and use for embankment or backfill or				
6.6		i) For pump station and Guardhouse platform	m ³	125		
		b) Extra- over for				
6.7		i) Intermediate excavation	m ³	62.5		
6.8		ii) Hard rock excavation	m ³	62.5		
	8.3.3	Restricted Excavation				
		a) Excavate for restricted foundations, footings, and pipe trenches in				
6.9		i) Pump station	m ³	60		
	8.3.8	Existing Services				
6.10		c) Excavate by hand in soft material to expose underground services	m ³	20		
6.11	8.3.4	Importation, placing and compaction of G7 gravel to grade level to 92% MOD AASHTO (at OMC) in layers in 150mm compacted to replace unsuitable material where directed by Engineer (Prov)	m ³	30		
6.12	8.3.4	Importation, placing and compaction of G6 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	30		
6.13	8.3.4	Importation, placing and compaction of G5 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	30		
	SANS1200G	<u>CONCRETE STRUCTURAL</u>				
	8.2	Formwork				
	8.2.4	Special off form to:				
6.14		a) soffit to roof slab	m ²	108		
6.15		b) pump station plinths	m ²	4		
6.16		c) 20 x10 drip to roof pump station and guardhouse	m	70		
	8.2.5	Narrow widths up to 300mm wide				
6.17		a) Pump station foundations	m	90		
	8.2.6	Box out Holes/ Form Voids				
		a) Small circular, of diameter up to and including 0,35m				
6.18		i) 250mm diameter	No.	5		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
	8.3.1	Reinforcement				
6.19		a) mild steel	ton	0.3		
6.20		b) High tensile steel	ton	2.5		
	8.4	Concrete				
6.21		Screed - 1:3 Cement/ Sand	m³	15		
6.22		No fines Concrete to underdrain system	m³	20		
6.23		15MPa concrete to platforms, aprons, steps, pipe supports etc.	m³	12		
	8.4.3	Concrete, Grade 25MPa/ 19mm for:				
6.24		i) Pump station footings	m³	17		
6.25		ii) Pump station floor	m³	17		
6.26		iii) Pump station roof	m³	0		
		Unformed surface finishes				
6.27		a) Wood floated	m²	70		
6.28		b) Steel floated	m²	70		
		Joints				
		Construct construction joints for:				
6.29		Isolations joint at floor/wall junction	m	70		
6.30		Horizontal roof sliding joint on top of wall. Rate to include for two layers	m	70		
6.31		Roof water proofing	m	70		
6.32		Construct Road access to Pump Station				
6.33		150mm G5 compacted to 95% Mod AASHTO	m²	200		
6.34		150mm G7 compacted to 95% Mod AASHTO	m²	200		
6.35		150mm insitu material compacted to 95% Mod AASHTO	m²	200		
		<u>Sundry Items</u>				
6.36		110mm dia. uPVC sleeves long radius 90 degree	No.	10		
		<u>Building Work</u>				
6.37		230mm thick external Facebrick Wall - Corobrick " Firelight Satin" or	m²	275		
6.38		Pump stations double doors	Sum	0		
6.39		Pump station single doors	Sum	2		
6.40		Screed to pump station roof slab	m³	0		
6.41		Windows to pump station as per drawing	No	5		
6.42		Airbricks to pump station building and chambers	No.	35		
	SANS 1200HA	Structural steel work (Sundry Items)				
6.43		Supply and install expanded metal grid including angled frames with	Prov Sum	2	R 120 000.00	R 240 000.00
		Site Drainage				
		Supply and lay "Kaymat U14 or similar approved geotextile, including				
6.44		a) Beneath 1m wide gravel apron	m²	200		
		Supply and lay to fall as indicated, drainage pipes, including all				
		couplings cuttings and waste				
6.45		a) 110mm Ø uPVC pipe for stormwater drainage for pump station	m	90		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
		Fencing				
		Supply and erect new fencing material for pump station site				
6.46		i) Supply and Install 2.4m high, 40MPa Concrete Palisade Fence. Rate	m	250		
6.47		ii) Gates (double leaf)	No.	1		
6.48		iii) Barbed tape concertina	m	250		
	SANS 1200L	Medium Pressure Pipelines				
	8.2.5	Supply and install pipe fittings complete with all jointing materials such				
		Pumpstation As Shown. All internal pipework to be epoxy coated and				
6.49		a) 75NB steel pipe,F.O.E length=2500mm	No.	1		
6.50		b) 75mm 90 degree LR,steel bend,F.B.E	No.	6		
6.51		c) 75NB spool piece, Length = 1450mm, F.B.E	No.	1		
6.52		d) 75mm dia x 45° sweep tee F.B.E	No.	2		
6.53		e) 75NB spool pieces,length 350mm F.B.E	No.	2		
6.54		f) 75mm VJ Coupling	No.	2		
6.55		h) 75NB x 50NB reducer	No.	2		
6.56		i) 75 NB mm dia flange adaptor for steel pipe	No.	4		
6.57		j) 75NB spool pieces,length = 800mm F.O.E	No.	1		
6.58		k) 75NB spool pieces, length 1605mm. F.B.E	No.	2		
6.59		p) 75NB bermard control valve or similar approved model	No.	2		
6.6		q) 75NB spool pieces,length 1500mm. F.B.E	No.	1		
6.61		r) 75NB x 50NB reducer	No.	1		
6.62		s) 50mm air valve to detail	No.	1		
6.63		t) 50mm isolation valve to detail	No.	1		
6.64		t) 75mm isolation valve to detail	No.	4		
6.65		u) 75NB steel tee,f.b.e	No.	2		
		<u>Pumps</u>				
		Potable water pumps, to meet 0.35 litres per second at 77.83 head, together with 0.78kw motor				
6.67		a) Supply pump set complete with baseplate, motor, pump and	No	2		
		Motor for Pumps				
6.68		b) Supply holding down bolts and grouting	set	4		
6.69		c) Pump tests (Factory Acceptance Testing)	set	2		
6.70		d) Pump tests (Site Acceptance Testing)	set	2		
		Supply and install 356 x 171 x 46 UB crawl beam complete as detailed:				
6.71		11,9m long (rate to include complete with u-bolt plate and welding in accordance	m	20		
6.72		Supply and install fixed aluminium louvre ventilation panel 660mm high x 2200mm wide. Allow for all sealing and fixing	No.	2		
6.73		Supply and lay 50mmø HDPE drain pipe complete with 45° bend	m	8		
6.74		Supply and lay 50mmø HDPE drainage pipe complete with 50mmø equal tee and 90° bend.	m	20		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7		SECTION 7:BOREHOLE				
		Supply, install, equip Borehole Pump per specification with manhole cover, control panel, electrical connection, and all applicable valves for pressure control, including isolation, non-return, and scour as per drawing titled, "BOREHOLE CHAMBER DETAILS":				
7.1		Item 1: HDPE 50mm Ø Flange Adaptor	No	1		
7.2		Item 2: GMS 50x65mm Ø F.B.E Reducer	No	0		
7.3		Item 3: GMS 50mm Ø 500mm Long spool pipe with central puddle flange, F.B.E	No	2		
7.4		Item 4: GMS 50mm Ø Equal Tee piece with 100m Spool pipe welded each end	No	1		
7.5		Item 5: GMS 50mm Ø 250mm Long spool pipe, F.O.E	No	2		
7.6		Item 6.: C.I 50mm Ø Flexible Flange Adaptor	No	2		
7.7		Item 7: GMS 50mm Ø PN16 Wedge Gate Valve F.B.E	No	2		
7.8		Item 8: GMS 50mm Ø PN16 Non Return Valve with external counterweight lever	No	1		
7.9		Item 9: GMS 50mm Ø 90 Degree Long Radius Bend	No	1		
7.10		Item 10: C.I 50mm Ø Flange Adaptor	No	1		
7.11		Construct concrete chamber complete with covers, calcamite steps, drain pipe and air vent as per drawing number 206	Sum	1		
7.12		Supply and install Stainless Steel Borehole Pump and casing and pipe up to depth of 100m below ground	Sum	1		
7.13		Supply, install, connect and test 6pc. 340W, 31° tilt solar panels including motor, inverters, cables and all accessories	Sum	1		
	SANS1200G	CONCRETE STRUCTURAL				
8.2		Formwork				
8.2.4		Special off form to:				
7.14		a) soffit to roof slab	m²	15		
7.15		b) pedestals	m²	1.5		
8.2.6		Box out Holes/ Form Voids				
7.16		i) Circular - 600mm diameter opening	No.	4		
		ii) Rectangular - 1000mm x 600mm opening				
8.3.1		Reinforcement				
7.17		a) mild steel	ton	0.5		
7.18		b) High tensile steel	ton	0.5		
8.4		<u>Concrete</u>				
7.19		Screed - 1:3 Cement/ Sand	m³	14		
8.4.3		Concrete, Grade 25MPa/ 19mm for:				
7.20		i) Chamber floor	m³	3		
7.21		ii) Chamber roof slab	m³	67.2		
		Concrete, Grade 15MPa/19mm for:				
		i) 50mm blinding				
		<u>Unformed surface finishes</u>				
7.22		a) Wood floated	m²	10		
7.23		b) Steel floated	m²	10		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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Contract No.:	JGDM 2023/24-029	
Client:	JOE GQABI DISTRICT MUNICIPALITY	
Project Name:	ELUNDINI RURAL WATER PROGRAMME	
Village Name:	MAQANGULWENI	
	C1.2 Contract Data	
	11.2(8) The direct fee percentage is	
	11.2(8) The subcontracted fee percentage is	
	41 SSCC The percentage for people overheads is	
	21 SSCC The percentage for adjustment for equipment in the published list is	
SECTION	DESCRIPTION	AMOUNT (ZAR)
Section 2	Site Clearance and Earthworks (Pipe Trenches)	
Section 3	Medium Pressure Pipelines	
Section 4	Elevated Storage Tank	
Section 5	Break-pressure Tank	
Section 6	Pump Station	
Section 7	Borehole Chamber	
Section 8	Dayworks	
SUB-TOTAL : BILL OF QUANTITIES		
ADD 10% CONTINGENCIES SUB-TOTAL		
SUB-TOTAL A		
ADD 15% VAT TO SUB-TOTAL A		
TOTAL: BILL OF QUANTITIES		

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
3.3	SANS 1200 L	VALVES AND CHAMBERS				
3.3.1	8.2.13	<u>Air Valve Assembly PN 16</u>				
		Construct air valve chamber complete as detailed on drawing number 201. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.1.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.1.1.1		a) for depths between 1m and 2m	No.	7		
3.3.2	8.2.13	<u>Scour Valve Assembly PN 16</u>				
		Construct scour valve chamber complete as detailed on drawing number 202. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.2.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.2.1.1		a) for depths between 1m and 2m	No.	0		
3.3.3	8.2.13	<u>Isolation Valve Assembly PN 16</u>				
		Construct isolation valve chamber complete as detailed on drawing number 202. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.3.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.3.1.1		a) for depths between 0m and 1m	No.	7		
3.3.3.1.2		b) for depths between 1m and 2m	No.	2		
3.4		SUNDRY ITEMS				
	SANS 1200 LD	<u>Pipeline Markers</u>				
	8.2.9					
3.4.1		Supply and install concrete route markers 0.3m away from the pipe trench. Rate to include for all excavation, concrete works, painting of posts etc. As per Joe Gqabi District Municipality standards	No.	49		
	8.2.11	<u>Anchor/Thrust Blocks</u>				
3.4.2		a) 30 Mpa/19mm crushed stone (including formwork, curing, finishing, mixing etc.)	m³	7.5		
	SANS 1200 GA	<u>Headwalls</u>				
3.4.3		Construct concrete scour headwalls as per specifications. The rate provided is to include for excavation, brick work, concrete, formwork, reinforcement etc.	No.	0		
		<u>Standpipe installation</u>				
3.4.4		Supply and install standpipes complete with fittings, valves and concrete drainage platform as per specification	No.	17		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
		Concrete for base of inlet and outlet chambers and plinths				
4.3.3		Strength concrete, Grade 25 MPa/19mm watertight concrete foundation	m³	20		
4.3.4		Strength concrete, Grade 20 MPa/19mm for pedestals (to include neoprene rubber top finish)	m³	2		
4.3.5		Precast manhole rings DN2500mm x 1000mm including flexible reinforced waterproofing	No.	3		
4.3.6		DN 2500mm Precast cover slab 900mm opening, manhole cover with locking device and ventilation	No.	2		
		MASONARY				
		All bricks to be SABS Brick Classification NFX				
4.3.7		230mm Thick to external walls	m²	0		
4.3.8		110mm Thick NFP Double BrickWall	m²	0		
	8.1.2; PSG 8.1.2	REINFORCEMENT				
4.3.9	8.3.1	High tensile reinforcement including cutting and bending to various codes	t	0.5		
4.3.10		Reinforcing Mesh Ref. 245 with a Cover of 50mm	m²	7		
		Supply and install 115 kl effective volume, prefabricated square elevated steel tank, elevated to 15m High, complete with internal liner, all inlet, outlet, overflow and scour pipework, internal and external ladders, Water Level Indicators etc. Rate to be inclusive for all accessories	No.	1		
	PSA 8.10	FENCING				
4.5		Supply and install ripper wire fencing around elevated tank complete with vehicle access gates 5m wide complete with timber posts (3 quotes from local contractors to be arranged)	m	150		
4.6		E.O. for security access gate	No.	1		
4.7		Barbed tape concertina	m	150		
	8.2.2 8.2.3	SPECIALS AND FITTINGS FOR PRV, METER AND FLOW CONTROL CHAMBERS				
		Extra-over for supply, deliver, lay, bed and install specials and fittings (all flanges drilled to SANS1123, Table 16) suitable for:				
		Outlet Meter Chamber				
4.8		1. 50mm diameter ±730mm long puddle pipe with puddle flange located centrally, flanged one end and fitted with air valve as shown	No.	1		
4.9		2. 50mm diameter VJ Coupling	No.	1		
4.10		3. 50mm diameter flanged RSV Non-Rising Spindle Gate Valve	No.	1		
4.11		4. 80mmØ GMS straight, flanged both ends fitted with pressure gauge	No.	1		
4.12		5. Flow meter	No.	1		
4.13		6. 75mm x 50mm diameter steel reducer flanged one end and the other end welded to a 150mm long spool piece as shown	No.	0		
4.14		7. 75mm diameter Flange Adaptor (HDPE to steel)	No.	0		
4.15		8. 50mm diameter Flange Adaptor (HDPE to steel)	No.	1		
4.16		9. GMS ladder to detail	No.	1		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6		SECTION 6: BOOSTER PUMPSTATION 1				
	SANS 1200C	<u>Site Clearance</u>				
6.1	8.2.1	Clear and Grub Pump station site	m²	470		
	8.2.2	Remove and grub large trees and tree stumps of girth:				
6.2		a) over 1m and up to and including 2m	No.	2		
6.3		b) over 2m and up to and including 3m	No.	0		
6.4	8.2.5	Take down existing fences	km	0		
6.5	8.2.10	Remove topsoil to a nominal depth of 150mm and stockpile	m³	85		
	SANS1200D	<u>Earthworks</u>				
	8.3.2	Bulk Excavation				
		a) Excavate in all materials and use for embankment or backfill or				
6.6		i) For pump station and Guardhouse platform	m³	125		
		b) Extra- over for				
6.7		i) Intermediate excavation	m³	62.5		
6.8		ii) Hard rock excavation	m³	62.5		
	8.3.3	Restricted Excavation				
		a) Excavate for restricted foundations, footings, and pipe trenches in				
6.9		i) Pump station	m³	60		
	8.3.8	Existing Services				
6.10		c) Excavate by hand in soft material to expose underground services	m³	20		
6.11	8.3.4	Importation, placing and compaction of G7 gravel to grade level to 92% MOD AASHTO (at OMC) in layers in 150mm compacted to replace unsuitable material where directed by Engineer (Prov)	m³	30		
6.12	8.3.4	Importation, placing and compaction of G6 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m³	30		
6.13	8.3.4	Importation, placing and compaction of G5 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m³	30		
	SANS1200G	<u>CONCRETE STRUCTURAL</u>				
	8.2	Formwork				
	8.2.4	Special off form to:				
6.14		a) soffit to roof slab	m²	108		
6.15		b) pump station plinths	m²	4		
6.16		c) 20 x10 drip to roof pump station and guardhouse	m	70		
	8.2.5	Narrow widths up to 300mm wide				
6.17		a) Pump station foundations	m	90		
	8.2.6	Box out Holes/ Form Voids				
		a) Small circular, of diameter up to and including 0,35m				
6.18		i) 250mm diameter	No.	5		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
	8.3.1	Reinforcement				
6.19		a) mild steel	ton	0.3		
6.20		b) High tensile steel	ton	2.5		
	8.4	Concrete				
6.21		Screed - 1:3 Cement/ Sand	m³	15		
6.22		No fines Concrete to underdrain system	m³	20		
6.23		15MPa concrete to platforms, aprons, steps, pipe supports etc.	m³	12		
	8.4.3	Concrete, Grade 25MPa/ 19mm for:				
6.24		i) Pump station footings	m³	17		
6.25		ii) Pump station floor	m³	17		
6.26		iii) Pump station roof	m³	0		
		Unformed surface finishes				
6.27		a) Wood floated	m²	70		
6.28		b) Steel floated	m²	70		
		Joints				
		Construct construction joints for:				
6.29		Isolations joint at floor/wall junction	m	70		
6.30		Horizontal roof sliding joint on top of wall. Rate to include for two	m	70		
6.31		Roof water proofing	m	70		
6.32		Construct Road access to Pump Station				
6.33		150mm G5 compacted to 95% Mod AASHTO	m²	200		
6.34		150mm G7 compacted to 95% Mod AASHTO	m²	200		
6.35		150mm insitu material compacted to 95% Mod AASHTO	m²	200		
		<u>Sundry Items</u>				
6.36		110mm dia. uPVC sleeves long radius 90 degree	No.	10		
		<u>Building Work</u>				
6.37		230mm thick external Facebrick Wall - Corobrick " Firelight Satin" or	m²	275		
6.38		Pump stations double doors	Sum	0		
6.39		Pump station single doors	Sum	2		
6.40		Screed to pump station roof slab	m³	0		
6.41		Windows to pump station as per drawing	No	5		
6.42		Airbricks to pump station building and chambers	No.	35		
	SANS 1200HA	Structural steel work (Sundry Items)				
6.43		Supply and install expanded metal grid including angled frames with	Prov Sum	2	R 120 000.00	R 240 000.00
		Site Drainage				
		Supply and lay "Kaymat U14 or similar approved geotextile, including				
6.44		a) Beneath 1m wide gravel apron	m²	200		
		Supply and lay to fall as indicated, drainage pipes, including all				
		couplings cuttings and waste				
6.45		a) 110mm Ø uPVC pipe for stormwater drainage for pump station	m	90		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
		Fencing				
		Supply and erect new fencing material for pump station site				
6.46		i) Supply and Install 2.4m high, 40MPa Concrete Palisade Fence.	m	250		
6.47		ii) Gates (double leaf)	No.	1		
6.48		iii) Barbed tape concertina	m	250		
	SANS 1200L 8.2.5	Medium Pressure Pipelines				
		Supply and install pipe fittings complete with all jointing materials such				
		Pumpstation As Shown. All internal pipework to be epoxy coated and				
6.49		a) 75NB steel pipe,F.O.E length=2500mm	No.	1		
6.50		b) 75mm 90 degree LR,steel bend,F.B.E	No.	6		
6.51		c) 75NB spool piece, Length = 1450mm, F.B.E	No.	1		
6.52		d) 75mm dia x 45° sweep tee F.B.E	No.	2		
6.53		e) 75NB spool pieces,length 350mm F.B.E	No.	2		
6.54		f) 75mm VJ Coupling	No.	2		
6.55		h) 75NB x 50NB reducer	No.	2		
6.56		i) 75 NB mm dia flange adaptor for steel pipe	No.	4		
6.57		j) 75NB spool pieces,length = 800mm F.O.E	No.	1		
6.58		k) 75NB spool pieces, length 1605mm. F.B.E	No.	2		
6.59		p) 75NB bernard control valve or similar approved model	No.	2		
6.6		q) 75NB spool pieces,length 1500mm. F.B.E	No.	1		
6.61		r) 75NB x 50NB reducer	No.	1		
6.62		s) 50mm air valve to detail	No.	1		
6.63		t) 50mm isolation valve to detail	No.	1		
6.64		t) 75mm isolation valve to detail	No.	4		
6.65		u) 75NB steel tee,f.b.e	No.	2		
		Pumpsets				
		Potable water pumps, to meet 3 litres per second at 210.63 head, together with 1.95kw motor				
6.67		a) Supply pump set complete with baseplate, motor, pump and	No	2		
		Motor for Pumps				
6.68		b) Supply holding down bolts and grouting	set	4		
6.69		c) Pump tests (Factory Acceptance Testing)	set	2		
6.70		d) Pump tests (Site Acceptance Testing)	set	2		
		Supply and install 356 x 171 x 46 UB crawl beam complete as detailed:				
6.71		11.9m long (rate to include complete with u-bolt plate and welding in accordance	m	20		
6.72		Supply and install fixed aluminium louvre ventilation panel 660mm high x 2200mm wide. Allow for all sealing and fixing	No.	2		
6.73		Supply and lay 50mmø HDPE drain pipe complete with 45° bend	m	8		
6.74		Supply and lay 50mmø HDPE drainage pipe complete with 50mmø equal tee and 90° bend.	m	20		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6		SECTION 7: BOOSTER PUMPSTATION 2				
	SANS 1200C	<u>Site Clearance</u>				
6.1	8.2.1	Clear and Grub Pump station site	m ²	470		
	8.2.2	Remove and grub large trees and tree stumps of girth:				
6.2		a) over 1m and up to and including 2m	No.	2		
6.3		b) over 2m and up to and including 3m	No.	0		
6.4	8.2.5	Take down existing fences	km	0		
6.5	8.2.10	Remove topsoil to a nominal depth of 150mm and stockpile	m ³	85		
	SANS1200D	<u>Earthworks</u>				
	8.3.2	Bulk Excavation				
		a) Excavate in all materials and use for embankment or backfill or				
6.6		i) For pump station and Guardhouse platform	m ³	125		
		b) Extra- over for				
6.7		i) Intermediate excavation	m ³	62.5		
6.8		ii) Hard rock excavation	m ³	62.5		
	8.3.3	Restricted Excavation				
		a) Excavate for restricted foundations, footings, and pipe trenches in				
6.9		i) Pump station	m ³	60		
	8.3.8	Existing Services				
6.10		c) Excavate by hand in soft material to expose underground services	m ³	20		
6.11	8.3.4	Importation, placing and compaction of G7 gravel to grade level to 92% MOD AASHTO (at OMC) in layers in 150mm compacted to replace unsuitable material where directed by Engineer (Prov)	m ³	30		
6.12	8.3.4	Importation, placing and compaction of G6 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	30		
6.13	8.3.4	Importation, placing and compaction of G5 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	30		
	SANS1200G	<u>CONCRETE STRUCTURAL</u>				
	8.2	Formwork				
	8.2.4	Special off form to:				
6.14		a) soffit to roof slab	m ²	108		
6.15		b) pump station plinths	m ²	4		
6.16		c) 20 x10 drip to roof pump station and guardhouse	m	70		
	8.2.5	Narrow widths up to 300mm wide				
6.17		a) Pump station foundations	m	90		
	8.2.6	Box out Holes/ Form Voids				
		a) Small circular, of diameter up to and including 0,35m				
6.18		i) 250mm diameter	No.	5		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
	8.3.1	Reinforcement				
6.19		a) mild steel	ton	0.3		
6.20		b) High tensile steel	ton	2.5		
	8.4	Concrete				
6.21		Screed - 1:3 Cement/ Sand	m³	15		
6.22		No fines Concrete to underdrain system	m³	20		
6.23		15MPa concrete to platforms, aprons, steps, pipe supports etc.	m³	12		
	8.4.3	Concrete, Grade 25MPa/ 19mm for:				
6.24		i) Pump station footings	m³	17		
6.25		ii) Pump station floor	m³	17		
6.26		iii) Pump station roof	m³	0		
		Unformed surface finishes				
6.27		a) Wood floated	m²	70		
6.28		b) Steel floated	m²	70		
		Joints				
		Construct construction joints for:				
6.29		Isolations joint at floor/wall junction	m	70		
6.30		Horizontal roof sliding joint on top of wall. Rate to include for two layers	m	70		
6.31		Roof water proofing	m	70		
6.32		Construct Road access to Pump Station				
6.33		150mm G5 compacted to 95% Mod AASHTO	m²	200		
6.34		150mm G7 compacted to 95% Mod AASHTO	m²	200		
6.35		150mm insitu material compacted to 95% Mod AASHTO	m²	200		
		<u>Sundry Items</u>				
6.36		110mm dia. uPVC sleeves long radius 90 degree	No.	10		
		<u>Building Work</u>				
6.37		230mm thick external Facebrick Wall - Corobrick " Firelight Satin" or	m²	275		
6.38		Pump stations double doors	Sum	0		
6.39		Pump station single doors	Sum	2		
6.40		Screed to pump station roof slab	m³	0		
6.41		Windows to pump station as per drawing	No	5		
6.42		Airbricks to pump station building and chambers	No.	35		
	SANS 1200HA	Structural steel work (Sundry Items)				
6.43		Supply and install expanded metal grid including angled frames with	Prov Sum	2	R 120 000.00	R 240 000.00
		Site Drainage				
		Supply and lay "Kaymat U14 or similar approved geotextile, including				
6.44		a) Beneath 1m wide gravel apron	m²	200		
		Supply and lay to fall as indicated, drainage pipes, including all couplings cuttings and waste				
6.45		a) 110mm Ø uPVC pipe for stormwater drainage for pump station	m	90		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
		Fencing				
		Supply and erect new fencing material for pump station site				
6.46		i) Supply and Install 2.4m high, 40MPa Concrete Palisade Fence. Rate	m	250		
6.47		ii) Gates (double leaf)	No.	1		
6.48		iii) Barbed tape concertina	m	250		
	SANS 1200L	Medium Pressure Pipelines				
	8.2.5	Supply and install pipe fittings complete with all jointing materials such				
		Pumpstation As Shown. All internal pipework to be epoxy coated and				
6.49		a) 75NB steel pipe,F.O.E length=2500mm	No.	1		
6.50		b) 75mm 90 degree LR,steel bend,F.B.E	No.	6		
6.51		c) 75NB spool piece, Length = 1450mm, F.B.E	No.	1		
6.52		d) 75mm dia x 45° sweep tee F.B.E	No.	2		
6.53		e) 75NB spool pieces,length 350mm F.B.E	No.	2		
6.54		f) 75mm VJ Coupling	No.	2		
6.55		h) 75NB x 50NB reducer	No.	2		
6.56		i) 75 NB mm dia flange adaptor for steel pipe	No.	4		
6.57		j) 75NB spool pieces,length = 800mm F.O.E	No.	1		
6.58		k) 75NB spool pieces, length 1605mm. F.B.E	No.	2		
6.59		p) 75NB bermard control valve or similar approved model	No.	2		
6.6		q) 75NB spool pieces,length 1500mm. F.B.E	No.	1		
6.61		r) 75NB x 50NB reducer	No.	1		
6.62		s) 50mm air valve to detail	No.	1		
6.63		t) 50mm isolation valve to detail	No.	1		
6.64		t) 75mm isolation valve to detail	No.	4		
6.65		u) 75NB steel tee,f.b.e	No.	2		
		<u>Pumpsets</u>				
		Potable water pumps, to meet 1 litre per second at 56.95m head, together with 0.991 kw motor				
6.67		a) Supply pump set complete with baseplate, motor, pump and instrumentation	No	2		
		Motor for Pumps				
6.68		b) Supply holding down bolts and grouting	set	4		
6.69		c) Pump tests (Factory Acceptance Testing)	set	2		
6.70		d) Pump tests (Site Acceptance Testing)	set	2		
		Supply and install 356 x 171 x 46 UB crawl beam complete as detailed:				
6.71		11,9m long (rate to include complete with u-bolt plate and welding in accordance	m	20		
6.72		Supply and install fixed aluminium louvre ventilation panel 660mm high x 2200mm wide. Allow for all sealing and fixing	No.	2		
6.73		Supply and lay 50mmø HDPE drain pipe complete with 45° bend	m	8		
6.74		Supply and lay 50mmø HDPE drainage pipe complete with 50mmø equal tee and 90° bend.	m	20		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7		SECTION 8:BOREHOLE				
		Supply, install, equip 3x Borehole Pump per specification with manhole cover, control panel, electrical connection, and all applicable valves for pressure control, including isolation, non-return, and scour as per drawing titled, "BOREHOLE CHAMBER DETAILS":				
7.1		Item 1: HDPE 50mm Ø Flange Adaptor	No	6		
7.2		Item 2: GMS 50x65mm Ø F.B.E Reducer	No	0		
7.3		Item 3: GMS 50mm Ø 500mm Long spool pipe with central puddle flange, F.B.E	No	12		
7.4		Item 4: GMS 50mm Ø Equal Tee piece with 100m Spool pipe welded each end	No	6		
7.5		Item 5: GMS 50mm Ø 250mm Long spool pipe, F.O.E	No	12		
7.6		Item 6.: C.I 50mm Ø Flexible Flange Adaptor	No	12		
7.7		Item 7: GMS 50mm Ø PN16 Wedge Gate Valve F.B.E	No	12		
7.8		Item 8: GMS 50mm Ø PN16 Non Return Valve with external counterweight lever	No	6		
7.9		Item 9: GMS 50mm Ø 90 Degree Long Radius Bend	No	6		
7.10		Item 10: C.I 50mm Ø Flange Adaptor	No	6		
7.11		Construct concrete chamber complete with covers, calcamite steps, drain pipe and air vent as per drawing number 206	Sum	6		
7.12		Supply and install Stainless Steel Borehole Pump and casing and pipe up to depth of 100m below ground	Sum	2		
7.13		Supply, install, connect and test 5pc. 340W, 31° tilt solar panels including motor, inverters, cables and all accessories	Sum	2		
	SANS1200G	CONCRETE STRUCTURAL				
8.2		Formwork				
8.2.4		Special off form to:				
7.14		a) soffit to roof slab	m²	90		
7.15		b) pedestals	m²	9		
8.2.6		Box out Holes/ Form Voids				
7.16		i) Circular - 600mm diameter opening	No.	24		
		ii) Rectangular - 1000mm x 600mm opening				
8.3.1		Reinforcement				
7.17		a) mild steel	ton	3		
7.18		b) High tensile steel	ton	3		
8.4		<u>Concrete</u>				
7.19		Screed - 1:3 Cement/ Sand	m³	84		
8.4.3		Concrete, Grade 25MPa/ 19mm for:				
7.20		i) Chamber floor	m³	18		
7.21		ii) Chamber roof slab	m³	201.6		
		Concrete, Grade 15MPa/19mm for:				
		i) 50mm blinding				
		<u>Unformed surface finishes</u>				
7.22		a) Wood floated	m²	60		
7.23		b) Steel floated	m²	60		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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Contract No.:	JGDM 2023/24-029	
Client:	JOE GQABI DISTRICT MUNICIPALITY	
Project Name:	ELUNDINI RURAL WATER PROGRAMME	
Village Name:	GQAGQALA COMBINED	
	C1.2 Contract Data	
	11.2(8) The direct fee percentage is	
	11.2(8) The subcontracted fee percentage is	
	41 SSCC The percentage for people overheads is	
	21 SSCC The percentage for adjustment for equipment in the published list is	
SECTION	DESCRIPTION	AMOUNT (ZAR)
Section 2	Site Clearance and Earthworks (Pipe Trenches)	
Section 3	Medium Pressure Pipelines	
Section 4	Elevated Storage Tank	
Section 5	Break-pressure Tank	
Section 6	Pump Station 1	
Section 7	Pump Station 2	
Section 8	Borehole Chamber	
Section 9	Dayworks	
SUB-TOTAL : BILL OF QUANTITIES		
ADD 10% CONTINGENCIES SUB-TOTAL		
SUB-TOTAL A		
ADD 15% VAT TO SUB-TOTAL A		
TOTAL: BILL OF QUANTITIES		

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2		SECTION 2 : SITE CLEARANCE & EARTHWORKS (PIPE TRENCHES)				
2.1	SANS 1200 C	SITE CLEARANCE (PIPE TRENCHES)				
2.1.1	8.2.1	Clear and grub 2m wide strip along pipe route including trees of girth up to 1m and boulders up to 0.15m³. Cart material away and dispose to a designated spoil site	m	14140		
	8.2.2	Remove and grub trees and tree stumps of girth:				
2.1.2		a) Over 1m and up to and including 2m	No.	8		
2.1.3		b) Over 2m and up to and including 3m	No.	2		
2.1.4		c) Over 3m, in steps of 1m	No.	0		
2.1.5	8.2.4	Reclear surfaces (only if instructed by the engineer)	m	14140		
2.1.6	8.2.5	Take down existing fences and set aside for reuse	m	50		
2.1.7	PSD 8.2.5	Re-erect fences	m	50		
2.1.8	8.2.6	Clear hedge or fence or both	m	10		
2.1.9	8.2.7	Dismantle and remove pipelines, electricity transmission lines and cables (Provisional)	m	50		
2.1.10	8.2.8	Demolish and remove structures	Sum	0		
2.1.11	8.2.10	Remove topsoil to a nominal depth of 150mm, stockpile and maintain.	m³	4250		
2.2	SANS 1200 DB	EARTHWORKS (PIPE TRENCHES)				
	8.3.2	<u>Bulk Excavation</u>				
2.2.1		(a) Excavate in all materials and use for embankment or backfill, or dispose of or temporarily stockpile surplus material, as ordered:				
2.2.1.1		(1) Exceeding 0.0m but not exceeding 1.0m	m³	3390		
2.2.1.2		(2) Exceeding 1.0m but not exceeding 2.0m	m³	3960		
2.2.1.3		(3) Exceeding 2.0m but not exceeding 3.0m	m³	3960		
2.2.2		(b) Extra-over for:				
2.2.2.1		(1) intermediate excavation	m³	710		
2.2.2.2		(2) hard rock excavation	m³	710		
2.2.2.3		(3) boulders (all classes)	m³	360		
2.2.3		(c) Excavate and dispose of unsuitable material from trench bottom (provisional)	m³	184		
2.2.4	8.3.3.1	Make up deficiency in backfill material (provisional)				
2.2.4.1		(a) from other necessary excavations on site	m³	570		
2.2.4.2		(b) by importation from designated borrow pits	m³	570		
2.2.4.3		(c) by importation from commercial sources	m³	570		
2.2.5	SANS 1200 LG	Undertake pipe jacking or trenchless drilling (including drilling through hard rock) in consultation with the relevant stakeholders or parties in accordance with their specifications	Prov. Sum	0	R 250 000.00	
2.2.6		a)Percentage allowance on cost on item No.2.2.5 for Contractor's cost and profit	%		R 250 000.00	
	8.3.6	<u>Finishing</u>				
2.2.7	8.3.6.1	Reinstate road surfaces complete with all courses				
2.2.7.1	PSD 8.3.6.1	(a) 150mm G2 material for gravel road crossings spread and compact to 95% MOD AASHTO	m³	40		
2.2.7.2	PSD 8.3.6.1	(b)150mm G5 material for gravel road crossings, spread and compact to 95% MOD AASHTO	m³	40		
2.2.7.3	PSD 8.3.6.1	(c) 40mm thick asphalt	m³	0		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
3.3	SANS 1200 L	VALVES AND CHAMBERS				
3.3.1	8.2.13	<u>Air Valve Assembly PN 16</u>				
		Construct air valve chamber complete as detailed on drawing number 202. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.1.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.1.1.1		a) for depths between 1m and 2m	No.	7		
3.3.2	8.2.13	<u>Scour Valve Assembly PN 16</u>				
		Construct scour valve chamber complete as detailed on drawing number 210. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.2.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.2.1.1		a) for depths between 1m and 2m	No.	0		
3.3.3	8.2.13	<u>Isolation Valve Assembly PN 16</u>				
		Construct isolation valve chamber complete as detailed on drawing number 202. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.3.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.3.1.1		a) for depths between 0m and 1m	No.	7		
3.3.3.1.2		b) for depths between 1m and 2m	No.	2		
3.4		SUNDRY ITEMS				
	SANS 1200 LD 8.2.9	<u>Pipeline Markers</u>				
3.4.1		Supply and install concrete route markers 0.3m away from the pipe trench. Rate to include for all excavation, concrete works, painting of posts etc. As per Joe Gqabi District Municipality standards	No.	61		
	8.2.11	<u>Anchor/Thrust Blocks</u>				
3.4.2		a) 30 Mpa/19mm crushed stone (including formwork, curing, finishing, mixing etc.)	m ³	7.5		
	SANS 1200 GA	<u>Headwalls</u>				
3.4.3		Construct concrete scour headwalls as per specification. The rate provided is to include for excavation, brick work, concrete, formwork, reinforcement etc.	No.	0		
		<u>Standpipe installation</u>				
3.4.4		Supply and install standpipes complete with fittings, valves and concrete drainage platform as per specification.	No.	22		
3.4.5		<u>Ancillary Infrastructure</u>				
3.4.5.1		Supply, Installation and/or construction of ancillary material where directed by the Engineer	Prov. Sum	1	R 25 000.00	R 25 000.00
3.4.5.2		Overheads and profit on item 3.4.5.1	%		R 25 000.00	
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
		Concrete for base of inlet and outlet chambers and plinths				
4.3.3		Strength concrete, Grade 25 MPa/19mm watertight concrete foundation	m³	10		
4.3.4		Strength concrete, Grade 20 MPa/19mm for pedestals (to include neoprene rubber top finish)	m³	2		
4.3.5		Precast manhole rings DN2500mm x 1000mm including flexible reinforced waterproofing	No.	3		
4.3.6		DN 2500mm Precast cover slab 900mm opening, manhole cover with locking device and ventilation	No.	2		
		MASONARY				
		All bricks to be SABS Brick Classification NFX				
4.3.7		230mm Thick to external walls	m²	0		
4.3.8		110mm Thick NFP Double BrickWall	m²	0		
	8.1.2; PSG 8.1.2	REINFORCEMENT				
4.3.9	8.3.1	High tensile reinforcement including cutting and bending to various codes	t	1		
4.3.10		Reinforcing Mesh Ref. 245 with a Cover of 50mm	m²	7		
4.4		Supply and install 432 kl effective volume, prefabricated square elevated steel tank, elevated to 20m High, complete with internal liner, all inlet, outlet, overflow and scour pipework, internal and external ladders, Water Level Indicators etc. Rate to be inclusive for all accessories	No.	1		
	PSA 8.10	FENCING				
4.5		Supply and install ripper wire fencing around elevated tank complete with vehicle access gates 5m wide complete with timber posts (3 quotes from local contractors to be arranged)	m	150		
4.6		E.O. for security access gate	No.	1		
4.7		Barbed tape concertina	m	150		
	8.2.2 8.2.3	SPECIALS AND FITTINGS FOR PRV, METER AND FLOW CONTROL CHAMBERS				
		Extra-over for supply, deliver, lay, bed and install specials and fittings (all flanges drilled to SANS1123, Table 16) suitable for:				
		Outlet Meter Chamber				
4.8		1. 50mm diameter ±730mm long puddle pipe with puddle flange located centrally, flanged one end and fitted with air valve as shown	No.	2		
4.9		2. 50mm diameter VJ Coupling	No.	2		
4.10		3. 50mm diameter flanged RSV Non-Rising Spindle Gate Valve	No.	1		
4.11		4. 80mmØ GMS straight, flanged both ends fitted with pressure gauge	No.	1		
4.12		5. Flow meter	No.	1		
4.13		6. 75mm x 50mm diameter steel reducer flanged one end and the other end welded to a 150mm long spool piece as shown	No.	0		
4.14		7. 75mm diameter Flange Adaptor (HDPE to steel)	No.	0		
4.15		8. 50mm diameter Flange Adaptor (HDPE to steel)	No.	1		
4.16		9. GMS ladder to detail	No.	1		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6		SECTION 6: BOOSTER PUMPSTATION				
	SANS 1200C	<u>Site Clearance</u>				
6.1	8.2.1	Clear and Grub Pump station site	m ²	470		
	8.2.2	Remove and grub large trees and tree stumps of girth:				
6.2		a) over 1m and up to and including 2m	No.	2		
6.3		b) over 2m and up to and including 3m	No.	0		
6.4	8.2.5	Take down existing fences	km	0		
6.5	8.2.10	Remove topsoil to a nominal depth of 150mm and stockpile	m ³	85		
	SANS1200D	<u>Earthworks</u>				
	8.3.2	Bulk Excavation				
		a) Excavate in all materials and use for embankment or backfill or				
6.6		i) For pump station and Guardhouse platform	m ³	125		
		b) Extra- over for				
6.7		i) Intermediate excavation	m ³	62.5		
6.8		ii) Hard rock excavation	m ³	62.5		
	8.3.3	Restricted Excavation				
		a) Excavate for restricted foundations, footings, and pipe trenches in				
6.9		i) Pump station	m ³	60		
	8.3.8	Existing Services				
6.10		c) Excavate by hand in soft material to expose underground services	m ³	20		
6.11	8.3.4	Importation, placing and compaction of G7 gravel to grade level to 92% MOD AASHTO (at OMC) in layers in 150mm compacted to replace unsuitable material where directed by Engineer (Prov)	m ³	30		
6.12	8.3.4	Importation, placing and compaction of G6 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	30		
6.13	8.3.4	Importation, placing and compaction of G5 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	30		
	SANS1200G	<u>CONCRETE STRUCTURAL</u>				
	8.2	Formwork				
	8.2.4	Special off form to:				
6.14		a) soffit to roof slab	m ²	108		
6.15		b) pump station plinths	m ²	4		
6.16		c) 20 x10 drip to roof pump station and guardhouse	m	70		
	8.2.5	Narrow widths up to 300mm wide				
6.17		a) Pump station foundations	m	90		
	8.2.6	Box out Holes/ Form Voids				
		a) Small circular, of diameter up to and including 0,35m				
6.18		i) 250mm diameter	No.	5		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
	8.3.1	Reinforcement				
6.19		a) mild steel	ton	0.3		
6.20		b) High tensile steel	ton	2.5		
	8.4	Concrete				
6.21		Screed - 1:3 Cement/ Sand	m³	15		
6.22		No fines Concrete to underdrain system	m³	20		
6.23		15MPa concrete to platforms, aprons, steps, pipe supports etc.	m³	12		
	8.4.3	Concrete, Grade 25MPa/ 19mm for:				
6.24		i) Pump station footings	m³	17		
6.25		ii) Pump station floor	m³	17		
6.26		iii) Pump station roof	m³	0		
		Unformed surface finishes				
6.27		a) Wood floated	m²	70		
6.28		b) Steel floated	m²	70		
		Joints				
		Construct construction joints for:				
6.29		Isolations joint at floor/wall junction	m	70		
6.30		Horizontal roof sliding joint on top of wall. Rate to include for two layers	m	70		
6.31		Roof water proofing	m	70		
6.32		Construct Road access to Pump Station				
6.33		150mm G5 compacted to 95% Mod AASHTO	m²	200		
6.34		150mm G7 compacted to 95% Mod AASHTO	m²	200		
6.35		150mm insitu material compacted to 95% Mod AASHTO	m²	200		
		<u>Sundry Items</u>				
6.36		110mm dia. uPVC sleeves long radius 90 degree	No.	10		
		<u>Building Work</u>				
6.37		230mm thick external Facebrick Wall - Corobrick "Firelight Satin" or	m²	275		
6.38		Pump stations double doors	Sum	0		
6.39		Pump station single doors	Sum	2		
6.40		Screed to pump station roof slab	m³	0		
6.41		Windows to pump station as per drawing	No	5		
6.42		Airbricks to pump station building and chambers	No.	35		
	SANS 1200HA	Structural steel work (Sundry Items)				
6.43		Supply and install expanded metal grid including angled frames with	Prov Sum	2	R 120 000.00	R 240 000.00
		Site Drainage				
		Supply and lay "Kaymat U14 or similar approved geotextile, including				
6.44		a) Beneath 1m wide gravel apron	m²	200		
		Supply and lay to fall as indicated, drainage pipes, including all couplings cuttings and waste				
6.45		a) 110mm Ø uPVC pipe for stormwater drainage for pump station	m	90		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
		Fencing				
		Supply and erect new fencing material for pump station site				
6.46		i) Supply and Install 2.4m high, 40MPa Concrete Palisade Fence. Rate	m	250		
6.47		ii) Gates (double leaf)	No.	1		
6.48		iii) Barbed tape concertina	m	250		
	SANS 1200L	Medium Pressure Pipelines				
	8.2.5	Supply and install pipe fittings complete with all jointing materials such				
		Pumpstation As Shown. All internal pipework to be epoxy coated and				
6.49		a) 75NB steel pipe,F.O.E length=2500mm	No.	1		
6.50		b) 75mm 90 degree LR,steel bend,F.B.E	No.	6		
6.51		c) 75NB spool piece, Length = 1450mm, F.B.E	No.	1		
6.52		d) 75mm dia x 45° sweep tee F.B.E	No.	2		
6.53		e) 75NB spool pieces,length 350mm F.B.E	No.	2		
6.54		f) 75mm VJ Coupling	No.	2		
6.55		h) 75NB x 50NB reducer	No.	2		
6.56		i) 75 NB mm dia flange adaptor for steel pipe	No.	4		
6.57		j) 75NB spool pieces,length = 800mm F.O.E	No.	1		
6.58		k) 75NB spool pieces, length 1605mm. F.B.E	No.	2		
6.59		p) 75NB bermard control valve or similar approved model	No.	2		
6.6		q) 75NB spool pieces,length 1500mm. F.B.E	No.	1		
6.61		r) 75NB x 50NB reducer	No.	1		
6.62		s) 50mm air valve to detail	No.	1		
6.63		t) 50mm isolation valve to detail	No.	1		
6.64		t) 75mm isolation valve to detail	No.	4		
6.65		u) 75NB steel tee,f.b.e	No.	2		
		<u>Pumpsets</u>				
		Potable water pumps, to meet 3 litres per second at 182,47 head, together with 9.589kW motor				
6.67		a) Supply pump set complete with baseplate, motor, pump and instrumentation	No	2		
		Motor for Pumps				
6.68		b) Supply holding down bolts and grouting	set	4		
6.69		c) Pump tests (Factory Acceptance Testing)	set	2		
6.70		d) Pump tests (Site Acceptance Testing)	set	2		
		Supply and install 356 x 171 x 46 UB crawl beam complete as detailed:				
6.71		11,9m long (rate to include complete with u-bolt plate and welding in accordance	m	20		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7		SECTION 7:BOREHOLE				
		Supply, install, equip Borehole Pump per specification with manhole cover, control panel, electrical connection, and all applicable valves for pressure control, including isolation, non-return, and scour as per drawing titled, "BOREHOLE CHAMBER DETAILS":				
7.1		Item 1: HDPE 50mm Ø Flange Adaptor	No	1		
7.2		Item 2: GMS 50x65mm Ø F.B.E Reducer	No	0		
7.3		Item 3: GMS 50mm Ø 500mm Long spool pipe with central puddle flange, F.B.E	No	2		
7.4		Item 4: GMS 50mm Ø Equal Tee piece with 100m Spool pipe welded each end	No	1		
7.5		Item 5: GMS 50mm Ø 250mm Long spool pipe, F.O.E	No	2		
7.6		Item 6.: C.I 50mm Ø Flexible Flange Adaptor	No	2		
7.7		Item 7: GMS 50mm Ø PN16 Wedge Gate Valve F.B.E	No	2		
7.8		Item 8: GMS 50mm Ø PN16 Non Return Valve with external counterweight lever	No	1		
7.9		Item 9: GMS 50mm Ø 90 Degree Long Radius Bend	No	1		
7.10		Item 10: C.I 50mm Ø Flange Adaptor	No	1		
7.11		Construct concrete chamber complete with covers, calcamite steps, drain pipe and air vent as per drawing number 206	Sum	1		
7.12		Supply and install Stainless Steel Borehole Pump and casing and pipe up to depth of 100m below ground	Sum	1		
7.13		Supply, install, connect and test 15pc, 340W, 31° tilt solar panels including motor, inverters, cables and all other accessories	Sum	1		
	SANS1200G	CONCRETE STRUCTURAL				
	8.2	Formwork				
	8.2.4	Special off form to:				
7.14		a) soffit to roof slab	m²	15		
7.15		b) pedestals	m²	1.5		
	8.2.6	Box out Holes/ Form Voids				
7.16		i) Circular - 600mm diameter opening	No.	4		
		ii) Rectangular - 1000mm x 600mm opening				
	8.3.1	Reinforcement				
7.17		a) mild steel	ton	0.5		
7.18		b) High tensile steel	ton	0.5		
	8.4	<u>Concrete</u>				
7.19		Screed - 1:3 Cement/ Sand	m³	14		
	8.4.3	Concrete, Grade 25MPa/ 19mm for:				
7.20		i) Chamber floor	m³	3		
7.21		ii) Chamber roof slab	m³	67.2		
		Concrete, Grade 15MPa/19mm for:				
		i) 50mm blinding				
		<u>Unformed surface finishes</u>				
7.22		a) Wood floated	m²	10		
7.23		b) Steel floated	m²	10		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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Contract No.:	JGDM 2023/24-029	
Client:	JOE GQABI DISTRICT MUNICIPALITY	
Project Name:	ELUNDINI RURAL WATER PROGRAMME	
Village Name:	CICIRHA	
	C1.2 Contract Data	
	11.2(8) The direct fee percentage is	
	11.2(8) The subcontracted fee percentage is	
	41 SSCC The percentage for people overheads is	
	21 SSCC The percentage for adjustment for equipment in the published list is	
SECTION	DESCRIPTION	AMOUNT (ZAR)
Section 2	Site Clearance and Earthworks (Pipe Trenches)	
Section 3	Medium Pressure Pipelines	
Section 4	Elevated Storage Tank	
Section 5	Break-pressure Tank	
Section 6	Pump Station	
Section 7	Borehole Chamber	
Section 8	Dayworks	
SUB-TOTAL : BILL OF QUANTITIES		
ADD 10% CONTINGENCIES SUB-TOTAL		
SUB-TOTAL A		
ADD 15% VAT TO SUB-TOTAL A		
TOTAL: BILL OF QUANTITIES		

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2		SECTION 2 : SITE CLEARANCE & EARTHWORKS (PIPE TRENCHES)				
2.1	SANS 1200 C	SITE CLEARANCE (PIPE TRENCHES)				
2.1.1	8.2.1	Clear and grub 2m wide strip along pipe route including trees of girth up to 1m and boulders up to 0.15m³. Cart material away and dispose to a designated spoil site	m	26120		
	8.2.2	Remove and grub trees and tree stumps of girth:				
2.1.2		a) Over 1m and up to and including 2m	No.	15		
2.1.3		b) Over 2m and up to and including 3m	No.	4		
2.1.4		c) Over 3m, in steps of 1m	No.	1		
2.1.5	8.2.4	Reclear surfaces (only if instructed by the engineer)	m	26120		
2.1.6	8.2.5	Take down existing fences and set aside for reuse	m	78		
2.1.7	PSD 8.2.5	Re-erect fences	m	78		
2.1.8	8.2.6	Clear hedge or fence or both	m	10		
2.1.9	8.2.7	Dismantle and remove pipelines, electricity transmission lines and cables (Provisional)	m	50		
2.1.10	8.2.8	Demolish and remove structures	Sum	0		
2.1.11	8.2.10	Remove topsoil to a nominal depth of 150mm, stockpile and maintain.	m³	7840		
2.2	SANS 1200 DB	EARTHWORKS (PIPE TRENCHES)				
	8.3.2	<u>Bulk Excavation</u>				
2.2.1		(a) Excavate in all materials and use for embankment or backfill, or dispose of or temporarily stockpile surplus material, as ordered:				
2.2.1.1		(1) Exceeding 0.0m but not exceeding 1.0m	m³	6230		
2.2.1.2		(2) Exceeding 1.0m but not exceeding 2.0m	m³	7270		
2.2.1.3		(3) Exceeding 2.0m but not exceeding 3.0m	m³	7270		
2.2.2		(b) Extra-over for:				
2.2.2.1		(1) intermediate excavation	m³	1310		
2.2.2.2		(2) hard rock excavation	m³	1310		
2.2.2.3		(3) boulders (all classes)	m³	660		
2.2.3		(c) Excavate and dispose of unsuitable material from trench bottom (provisional)	m³	340		
2.2.4	8.3.3.1	Make up deficiency in backfill material (provisional)				
2.2.4.1		(a) from other necessary excavations on site	m³	1040		
2.2.4.2		(b) by importation from designated borrow pits	m³	1040		
2.2.4.3		(c) by importation from commercial sources	m³	1040		
2.2.5	SANS 1200 LG	Undertake pipe jacking or trenchless drilling (including drilling through hard rock) in consultation with the relevant stakeholders or parties in accordance with their specifications	Prov. Sum	0	R 250 000.00	
2.2.6		a)Percentage allowance on cost on item No.2.2.5 for Contractor's cost and profit	%			
	8.3.6	<u>Finishing</u>				
2.2.7	8.3.6.1	Reinstate road surfaces complete with all courses				
2.2.7.1	PSD 8.3.6.1	(a) 150mm G2 material for gravel road crossings spread and compact to 95% MOD AASHTO	m³	70		
2.2.7.2	PSD 8.3.6.1	(b)150mm G5 material for gravel road crossings, spread and compact to 95% MOD AASHTO	m³	70		
2.2.7.3	PSD 8.3.6.1	(c) 40mm thick asphalt	m³	0		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3	SANS 1200 L	SECTION 3: WATER PIPELINES (MEDIUM PRESSURE PIPELINES)				
3.1	8.2.1	<u>Supply, deliver, handle, lay, bed, joint, test and disinfect to SABS ISO 4427: 1996 E.</u>				
3.1.1		i) 75mm diameter HDPE PN 25 (SABS ISO 4427)	m	0		
3.1.2		ii) 75mm diameter HDPE PN 16 (SABS ISO 4427)	m	0		
3.1.3		iii) 50mm diameter HDPE PN 25 (SABS ISO 4427)	m	16 350		
3.1.4		iv) 50mm diameter HDPE PN 16 (SABS ISO 4427)	m	0		
3.1.5		v) 25mm diameter HDPE PN 25 (SABS ISO 4427)	m	9 768		
3.1.6		xi) 25mm diameter HDPE PN 16 (SABS ISO 4427)	m	0		
3.2	8.2.2	<u>Supply with couplings, deliver, handle, lay, bed, joint, test and disinfect</u>				
3.2.1		<u>50mm diameter HDPE pressure bends up to class 25 as per applicable standards:</u>				
3.2.1.1		(i) 11.25 degrees bend - class 16	No	35		
3.2.1.2		(ii) 22.5 degrees bend - class 16	No	35		
3.2.1.3		(iii) 45 degrees bend - class 16	No	25		
3.2.1.4		(iv) 90 degrees bend - class 16	No	18		
3.2.2		<u>25mm diameter HDPE pressure bends up to class 25 as per applicable standards:</u>				
3.2.2.1		(i) 11.25 degrees bend - class 16	No	25		
3.2.2.2		(ii) 22.5 degrees bend - class 16	No	20		
3.2.2.3		(iii) 45 degrees bend - class 16	No	9		
3.2.2.4		(iv) 90 degrees bend - class 16	No	7		
3.2.3		<u>Fully Moulded HDPE Compression T-Pieces up to and including PN 25</u>				
3.2.3.1		i) 75mm x 75mm diameter equal tee - class 16	No.			
3.2.3.2		ii) 75mm x 50mm diameter unequal tee - class 16	No.			
3.2.3.3		iii) 50mm x 50mm diameter equal tee - class 16	No.			
3.2.3.4		iv) 50mm x 25mm diameter unequal tee - class 16	No.	35		
3.2.3.5		v) 25mm x 25mm diameter equal tee - class 16	No.	3		
3.2.4		<u>Concentric Compression Reducers for HDPE Pipes PN 16</u>				
3.2.4.1		i) 75mm x 50mm reducer - class 16	No.			
3.2.4.2		ii) 50mm x 25mm reducer - class 16	No.	30		
3.2.5		<u>Compression End Caps for HDPE Pipes PN 16</u>				
3.2.5.1		i) Ø160 mm	No.			
3.2.5.2		iii) Ø110 mm	No.	0		
3.2.5.3		iii) Ø75 mm	No.	0		
3.2.5.4		iv) Ø50 mm	No.	4		
3.2.6		<u>Compression Male Adaptors for HDPE Pipes PN 16</u>				
3.2.6.1		i) Ø50 mm x Ø2"	No.	50		
3.2.6.2		ii) Ø25 mm x Ø3/4"	No.	35		
3.2.7		<u>Polypropylene Clamp Saddle with Stainless Steel Reinforcing Ring Class 16</u>				
3.2.7.1		i) Ø50 mm x Ø2" Female	No.	5		
3.2.7.2		ii) Ø50mm x Ø3/4" Female	No.	5		
3.2.7.3		ii) Ø25 mm x Ø3/4" Female	No.	20		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
3.3	SANS 1200 L	VALVES AND CHAMBERS				
3.3.1	8.2.13	<u>Air Valve Assembly PN 16</u>				
		Construct air valve chamber complete as detailed on drawing number 202. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.1.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.1.1.1		a) for depths between 1m and 2m	No.	5		
3.3.2	8.2.13	<u>Scour Valve Assembly PN 16</u>				
		Construct scour valve chamber complete as detailed on drawing number 210. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.2.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.2.1.1		a) for depths between 1m and 2m	No.	0		
3.3.3	8.2.13	<u>Isolation Valve Assembly PN 16</u>				
		Construct isolation valve chamber complete as detailed on drawing number 202. The rate must include for excavation, precast concrete manhole rings, lockable heavy duty precast concrete manhole cover and frame, concrete, formwork, reinforcement, valves and associated fittings, drainage sump, concrete marker posts with lettering and painting etc. for the following pipe diameters and depths :				
3.3.3.1		<u>i) for Ø50mm HDPE Pipe</u>				
3.3.3.1.1		a) for depths between 0m and 1m	No.	5		
3.3.3.1.2		b) for depths between 1m and 2m	No.	2		
3.4		SUNDRY ITEMS				
	SANS 1200 LD 8.2.9	<u>Pipeline Markers</u>				
3.4.1		Supply and install concrete route markers 0.3m away from the pipe trench. Rate to include for all excavation, concrete works, painting of posts etc. As per Joe Gqabi District Municipality standards	No.	98		
	8.2.11	<u>Anchor/Thrust Blocks</u>				
3.4.2		a) 30 Mpa/19mm crushed stone (including formwork, curing, finishing, mixing etc.)	m ³	7.5		
	SANS 1200 GA	<u>Headwalls</u>				
3.4.3		Construct concrete scour headwalls as per specification. The rate provided is to include for excavation, brick work, concrete, formwork, reinforcement etc.	No.	0		
		<u>Standpipe installation</u>				
3.4.4		Supply and install standpipes complete with fittings, valves and concrete drainage platform as per specification.	No.	53		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
		Concrete for base of inlet and outlet chambers and plinths				
4.3.3		Strength concrete, Grade 25 MPa/19mm watertight concrete foundation	m³	10		
4.3.4		Strength concrete, Grade 20 MPa/19mm for pedestals (to include neoprene rubber top finish)	m³	2		
4.3.5		Precast manhole rings DN2500mm x 1000mm including flexible reinforced waterproofing	No.	3		
4.3.6		DN 2500mm Precast cover slab 900mm opening, manhole cover with locking device and ventilation	No.	2		
		MASONARY				
		All bricks to be SABS Brick Classification NFX				
4.3.7		230mm Thick to external walls	m²	0		
4.3.8		110mm Thick NFP Double BrickWall	m²	0		
	8.1.2; PSG 8.1.2	REINFORCEMENT				
4.3.9	8.3.1	High tensile reinforcement including cutting and bending to various codes	t	1		
4.3.10		Reinforcing Mesh Ref. 245 with a Cover of 50mm	m²	7		
4.4		Supply and install 64 kl effective volume, prefabricated square elevated steel tank, elevated to 20m High, complete with internal liner, all inlet, outlet, overflow and scour pipework, internal and external ladders, Water Level Indicators, etc. Rate to be inclusive for all accessories	No.	1		
	PSA 8.10	FENCING				
4.5		Supply and install ripper wire fencing around elevated tank complete with vehicle access gates 5m wide complete with timber posts (3 quotes from local contractors to be arranged)	m	150		
4.6		E.O. for security access gate	No.	1		
4.7		Barbed tape concertina	m	150		
	8.2.2 8.2.3	SPECIALS AND FITTINGS FOR PRV, METER AND FLOW CONTROL CHAMBERS				
		Extra-over for supply, deliver, lay, bed and install specials and fittings (all flanges drilled to SANS1123, Table 16) suitable for:				
		<u>Outlet Meter Chamber</u>				
4.8		1. 50mm diameter ±730mm long puddle pipe with puddle flange located centrally, flanged one end and fitted with air valve as shown	No.	2		
4.9		2. 50mm diameter VJ Coupling	No.	2		
4.10		3. 50mm diameter flanged RSV Non-Rising Spindle Gate Valve	No.	1		
4.11		4. 80mmØ GMS straight, flanged both ends fitted with pressure gauge	No.	1		
4.12		5. Flow meter	No.	1		
4.13		6. 75mm x 50mm diameter steel reducer flanged one end and the other end welded to a 150mm long spool piece as shown	No.	0		
4.14		7. 75mm diameter Flange Adaptor (HDPE to steel)	No.	0		
4.15		8. 50mm diameter Flange Adaptor (HDPE to steel)	No.	1		
4.16		9. GMS ladder to detail	No.	1		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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TOTAL SECTION 5 CARRIED FORWARD TO SUMMARY

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6		SECTION 6: BOOSTER PUMP STATION				
	SANS 1200C	<u>Site Clearance</u>				
6.1	8.2.1	Clear and Grub Pump station site	m ²	470		
	8.2.2	Remove and grub large trees and tree stumps of girth:				
6.2		a) over 1m and up to and including 2m	No.	2		
6.3		b) over 2m and up to and including 3m	No.	0		
6.4	8.2.5	Take down existing fences	km	0		
6.5	8.2.10	Remove topsoil to a nominal depth of 150mm and stockpile	m ³	85		
	SANS1200D	<u>Earthworks</u>				
	8.3.2	Bulk Excavation				
		a) Excavate in all materials and use for embankment or backfill or				
6.6		i) For pump station and Guardhouse platform	m ³	125		
		b) Extra- over for				
6.7		i) Intermediate excavation	m ³	62.5		
6.8		ii) Hard rock excavation	m ³	62.5		
	8.3.3	Restricted Excavation				
		a) Excavate for restricted foundations, footings, and pipe trenches in				
6.9		i) Pump station	m ³	60		
	8.3.8	Existing Services				
6.10		c) Excavate by hand in soft material to expose underground services	m ³	20		
6.11	8.3.4	Importation, placing and compaction of G7 gravel to grade level to 92% MOD AASHTO (at OMC) in layers in 150mm compacted to replace unsuitable material where directed by Engineer (Prov)	m ³	30		
6.12	8.3.4	Importation, placing and compaction of G6 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	30		
6.13	8.3.4	Importation, placing and compaction of G5 gravel to grade level to 98% MOD AASHTO (at OMC) in layers in 150mm compacted to 95% MOD AASHTO replace unsuitable material where directed by Engineer (Prov)	m ³	30		
	SANS1200G	<u>CONCRETE STRUCTURAL</u>				
	8.2	Formwork				
	8.2.4	Special off form to:				
6.14		a) soffit to roof slab	m ²	108		
6.15		b) pump station plinths	m ²	4		
6.16		c) 20 x10 drip to roof pump station and guardhouse	m	70		
	8.2.5	Narrow widths up to 300mm wide				
6.17		a) Pump station foundations	m	90		
	8.2.6	Box out Holes/ Form Voids				
		a) Small circular, of diameter up to and including 0,35m				
6.18		i) 250mm diameter	No.	5		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
	8.3.1	Reinforcement				
6.19		a) mild steel	ton	0.3		
6.20		b) High tensile steel	ton	2.5		
	8.4	Concrete				
6.21		Screed - 1:3 Cement/ Sand	m³	15		
6.22		No fines Concrete to underdrain system	m³	20		
6.23		15MPa concrete to platforms, aprons, steps, pipe supports etc.	m³	12		
	8.4.3	Concrete, Grade 25MPa/ 19mm for:				
6.24		i) Pump station footings	m³	17		
6.25		ii) Pump station floor	m³	17		
6.26		iii) Pump station roof	m³	0		
		Unformed surface finishes				
6.27		a) Wood floated	m²	70		
6.28		b) Steel floated	m²	70		
		Joints				
		Construct construction joints for:				
6.29		Isolations joint at floor/wall junction	m	70		
6.30		Horizontal roof sliding joint on top of wall. Rate to include for two layers	m	70		
6.31		Roof water proofing	m	70		
6.32		Construct Road access to Pump Station				
6.33		150mm G5 compacted to 95% Mod AASHTO	m²	200		
6.34		150mm G7 compacted to 95% Mod AASHTO	m²	200		
6.35		150mm insitu material compacted to 95% Mod AASHTO	m²	200		
		<u>Sundry Items</u>				
6.36		110mm dia. uPVC sleeves long radius 90 degree	No.	10		
		<u>Building Work</u>				
6.37		230mm thick external Facebrick Wall - Corobrick " Firelight Satin" or	m²	275		
6.38		Pump stations double doors	Sum	0		
6.39		Pump station single doors	Sum	2		
6.40		Screed to pump station roof slab	m³	0		
6.41		Windows to pump station as per drawing	No	5		
6.42		Airbricks to pump station building and chambers	No.	35		
	SANS 1200HA	Structural steel work (Sundry Items)				
6.43		Supply and install expanded metal grid including angled frames with	Prov Sum	2	R 120 000.00	R 240 000.00
		Site Drainage				
		Supply and lay "Kaymat U14 or similar approved geotextile, including				
6.44		a) Beneath 1m wide gravel apron	m²	200		
		Supply and lay to fall as indicated, drainage pipes, including all				
		couplings cuttings and waste				
6.45		a) 110mm Ø uPVC pipe for stormwater drainage for pump station	m	90		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SUB-TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE						
		Fencing				
		Supply and erect new fencing material for pump station site				
6.46		i) Supply and install 2.4m high, 40MPa Concrete Palisade Fence. Rate	m	250		
6.47		ii) Gates (double leaf)	No.	1		
6.48		iii) Barbed tape concertina	m	250		
	SANS 1200L	Medium Pressure Pipelines				
	8.2.5	Supply and install pipe fittings complete with all jointing materials such				
		Pumpstation As Shown. All internal pipework to be epoxy coated and				
6.49		a) 75NB steel pipe,F.O.E length=2500mm	No.	1		
6.50		b) 75mm 90 degree LR,steel bend,F.B.E	No.	6		
6.51		c) 75NB spool piece, Length = 1450mm, F.B.E	No.	1		
6.52		d) 75mm dia x 45° sweep tee F.B.E	No.	2		
6.53		e) 75NB spool pieces,length 350mm F.B.E	No.	2		
6.54		f) 75mm VJ Coupling	No.	2		
6.55		h) 75NB x 50NB reducer	No.	2		
6.56		i) 75 NB mm dia flange adaptor for steel pipe	No.	4		
6.57		j) 75NB spool pieces,length = 800mm F.O.E	No.	1		
6.58		k) 75NB spool pieces, length 1605mm. F.B.E	No.	2		
6.59		p) 75NB bermard control valve or similar approved model	No.	2		
6.6		q) 75NB spool pieces,length 1500mm. F.B.E	No.	1		
6.61		r) 75NB x 50NB reducer	No.	1		
6.62		s) 50mm air valve to detail	No.	1		
6.63		t) 50mm isolation valve to detail	No.	1		
6.64		t) 75mm isolation valve to detail	No.	4		
6.65		u) 75NB steel tee,f.b.e	No.	2		
		<u>Pumpsets</u>				
		Potable water pumps, to meet 3.33 litre per second at 212m head, together with 11.77 kw motor				
6.67		a) Supply pump set complete with baseplate, motor, pump and instrumentation	No	2		
		Motor for Pumps				
6.68		b) Supply holding down bolts and grouting	set	4		
6.69		c) Pump tests (Factory Acceptance Testing)	set	2		
6.70		d) Pump tests (Site Acceptance Testing)	set	2		
		Supply and install 356 x 171 x 46 UB crawl beam complete as detailed:				
6.71		11,9m long (rate to include complete with u-bolt plate and welding in accordance	m	20		
6.72		Supply and install fixed aluminium louvre ventilation panel 660mm high x 2200mm wide. Allow for all sealing and fixing	No.	2		
6.73		Supply and lay 50mmø HDPE drain pipe complete with 45° bend	m	8		
6.74		Supply and lay 50mmø HDPE drainage pipe complete with 50mmø equal tee and 90° bend.	m	20		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

ITEM	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7		SECTION 7:BOREHOLE				
		Supply, install, equip Borehole Pump per specification with manhole cover, control panel, electrical connection, and all applicable valves for pressure control, including isolation, non-return, and scour as per drawing titled, "BOREHOLE CHAMBER DETAILS":				
7.1		Item 1: HDPE 50mm Ø Flange Adaptor	No	1		
7.2		Item 2: GMS 50x65mm Ø F.B.E Reducer	No	0		
7.3		Item 3: GMS 50mm Ø 500mm Long spool pipe with central puddle flange, F.B.E	No	2		
7.4		Item 4: GMS 50mm Ø Equal Tee piece with 100m Spool pipe welded each end	No	1		
7.5		Item 5: GMS 50mm Ø 250mm Long spool pipe, F.O.E	No	2		
7.6		Item 6.: C.I 50mm Ø Flexible Flange Adaptor	No	2		
7.7		Item 7: GMS 50mm Ø PN16 Wedge Gate Valve F.B.E	No	2		
7.8		Item 8: GMS 50mm Ø PN16 Non Return Valve with external counterweight lever	No	1		
7.9		Item 9: GMS 50mm Ø 90 Degree Long Radius Bend	No	1		
7.10		Item 10: C.I 50mm Ø Flange Adaptor	No	1		
7.11		Construct concrete chamber complete with covers, calcamite steps, drain pipe and air vent as per drawing number 206	Sum	1		
7.12		Supply and install Stainless Steel Borehole Pump and casing and pipe up to depth of 100m below ground	Sum	1		
7.13		Supply, install, connect and test 10pc. 340W, 31° tilt solar panels including motor, inverters, cables and all accessories	Sum	1		
	SANS1200G	<u>CONCRETE STRUCTURAL</u>				
	8.2	Formwork				
	8.2.4	Special off form to:				
7.14		a) soffit to roof slab	m²	15		
7.15		b) pedestals	m²	1.5		
	8.2.6	Box out Holes/ Form Voids				
7.16		i) Circular - 600mm diameter opening	No.	4		
		ii) Rectangular - 1000mm x 600mm opening				
	8.3.1	Reinforcement				
7.17		a) mild steel	ton	0.5		
7.18		b) High tensile steel	ton	0.5		
	8.4	<u>Concrete</u>				
7.19		Screed - 1:3 Cement/ Sand	m³	14		
	8.4.3	Concrete, Grade 25MPa/ 19mm for:				
7.20		i) Chamber floor	m³	3		
7.21		ii) Chamber roof slab	m³	67.2		
		Concrete, Grade 15MPa/19mm for:				
		i) 50mm blinding				
		<u>Unformed surface finishes</u>				
7.22		a) Wood floated	m²	10		
7.23		b) Steel floated	m²	10		
SUB-TOTAL CARRIED FORWARD TO NEXT PAGE						

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Contract No.:	JGDM 2023/24-029	
Client:	JOE GQABI DISTRICT MUNICIPALITY	
Project Name:	ELUNDINI RURAL WATER PROGRAMME	
Village Name:	MBIDLANA COMBINED	
	C1.2 Contract Data	
	11.2(8) The direct fee percentage is	
	11.2(8) The subcontracted fee percentage is	
	41 SSCC The percentage for people overheads is	
	21 SSCC The percentage for adjustment for equipment in the published list is	
SECTION	DESCRIPTION	AMOUNT (ZAR)
Section 2	Site Clearance and Earthworks (Pipe Trenches)	
Section 3	Medium Pressure Pipelines	
Section 4	Elevated Storage Tank	
Section 5	Break-pressure Tank	
Section 6	Pump Station	
Section 7	Borehole Chamber	
Section 8	Dayworks	
SUB-TOTAL : BILL OF QUANTITIES		
ADD 10% CONTINGENCIES SUB-TOTAL		
SUB-TOTAL A		
ADD 15% VAT TO SUB-TOTAL A		
TOTAL: BILL OF QUANTITIES		

[illegible]

Contract No.:	JGDM 2023/24-029	
Client:	JOE GQABI DISTRICT MUNICIPALITY	
Project Name:	ELUNDINI RURAL WATER PROGRAMME	
Village Name:	MCWANGELE	
	C1.2 Contract Data	
	11.2(8) The direct fee percentage is	
	11.2(8) The subcontracted fee percentage is	
	41 SSCC The percentage for people overheads is	
	21 SSCC The percentage for adjustment for equipment in the published list is	
SECTION	DESCRIPTION	AMOUNT (ZAR)
Section 2	Rainwater Harvesting	
SUB-TOTAL : BILL OF QUANTITIES		
ADD 10% CONTINGENCIES SUB-TOTAL		
SUB-TOTAL A		
ADD 15% VAT TO SUB-TOTAL A		
TOTAL: BILL OF QUANTITIES		

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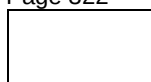
Contract No.:	JGDM 2023/24-029	
Client:	JOE GQABI DISTRICT MUNICIPALITY	
Project Name:	ELUNDINI RURAL WATER PROGRAMME	
Village Name:	SITHANA	
	C1.2 Contract Data	
	11.2(8) The direct fee percentage is	
	11.2(8) The subcontracted fee percentage is	
	41 SSCC The percentage for people overheads is	
	21 SSCC The percentage for adjustment for equipment in the published list is	
SECTION	DESCRIPTION	AMOUNT (ZAR)
Section 2	Equipping Hand pump	
Section 3	Rainwater Harvesting	
SUB-TOTAL : BILL OF QUANTITIES		
ADD 10% CONTINGENCIES SUB-TOTAL		
SUB-TOTAL A		
ADD 15% VAT TO SUB-TOTAL A		
TOTAL: BILL OF QUANTITIES		

SUMMARY OF SCHEDULE OF QUANTITIES

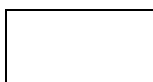
CALCULATION OF TENDER SUM	AMOUNT
SECTION 1 – PRELIMINARY AND GENERAL	
SECTION 2 – SITE CLEARANCE AND EARTHWORKS	
SECTION 3 – MEDIUM PRESSURE PIPELINES	
SECTION 4 – ELEVATED STORAGE TANKS	
SECTION 5 – BREAK-PRESSURE TANKS	
SECTION 6 – PUMP STATIONS	
SECTION 7 – BOREHOLE CHAMBERS	
SECTION 8 – SPRING PROTECTION	
SECTION 9 – DAYWORKS	
SECTION 10 – RAINWATER HARVESTING & HANDPUMPS	
SUBTOTAL A (SECTION 1-10)	
(ALLOWANCE FOR CONTINGENCIES) (10% OF SUBTOTAL A)	
SUBTOTAL B	
VALUE ADDED TAX (15% OF SUBTOTAL B)	
TOTAL AMOUNT OF FORM OF TENDER (to be transferred to Form of Offer and Acceptance and the Cover Page of the document)	

.....
SIGNED ON BEHALF OF TENDERER:

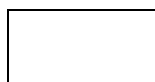
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DATE



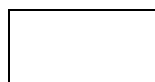
Contractor



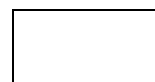
Witness 1



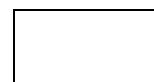
Witness 2



Employer



Witness 1



Witness 2

PART C3: SCOPE OF WORKS

C3.1 DESCRIPTION OF WORKS**C3.1.1 OVERVIEW OF THE WORKS**

Elundini Local Municipality is located within the Joe Gqabi District Municipality in the north-eastern portion of the Eastern Cape province. The Zone 1 supply area is the southernmost part of the Local Municipality consisting of Wards 1-6 and Ward 17.

The Water Services Authority (WSA), Joe Gqabi District Municipality (JGDM) commenced with the programme to construct water infrastructure within the Elundini Local Municipality jurisdiction. The Feasibility study of the Elundini Rural Water Programme was conducted by Sintec in year 2013 on behalf of Joe Gqabi District Municipality. The feasibility study identified the supply areas.

C3.1.2 EXTENT OF THE WORKS

The construction of bulk supply pipelines from underground sources such as springs and boreholes, which have been identified and assessed, to the end-user by means of communal standpipes as well as associated infrastructure such as high-lift pump stations, storage tanks and reservoirs, valve chambers, renewable energy infrastructure, spring protection and borehole chambers.

The supply area will cover a total of 15 villages, each to be provided with one or more of the following infrastructure:

- Boreholes, borehole chambers, pumps, pipework
- Communal standpipes supplying at 200m radii,
- Storage tanks
- Pumping/rising mains and gravity mains,
- Reticulation pipelines,
- Valves and valve chambers,
- Storage tanks, High-lift pump stations, electrical connection or solar panels,
- Springs and spring protection
- Reverse Osmosis plants and
- Rainwater harvesting and equipping of handpumps

C3.1.3 LOCATION (Coordinates)

Locality sketch for Zone 1 is shown Figure 1, below.

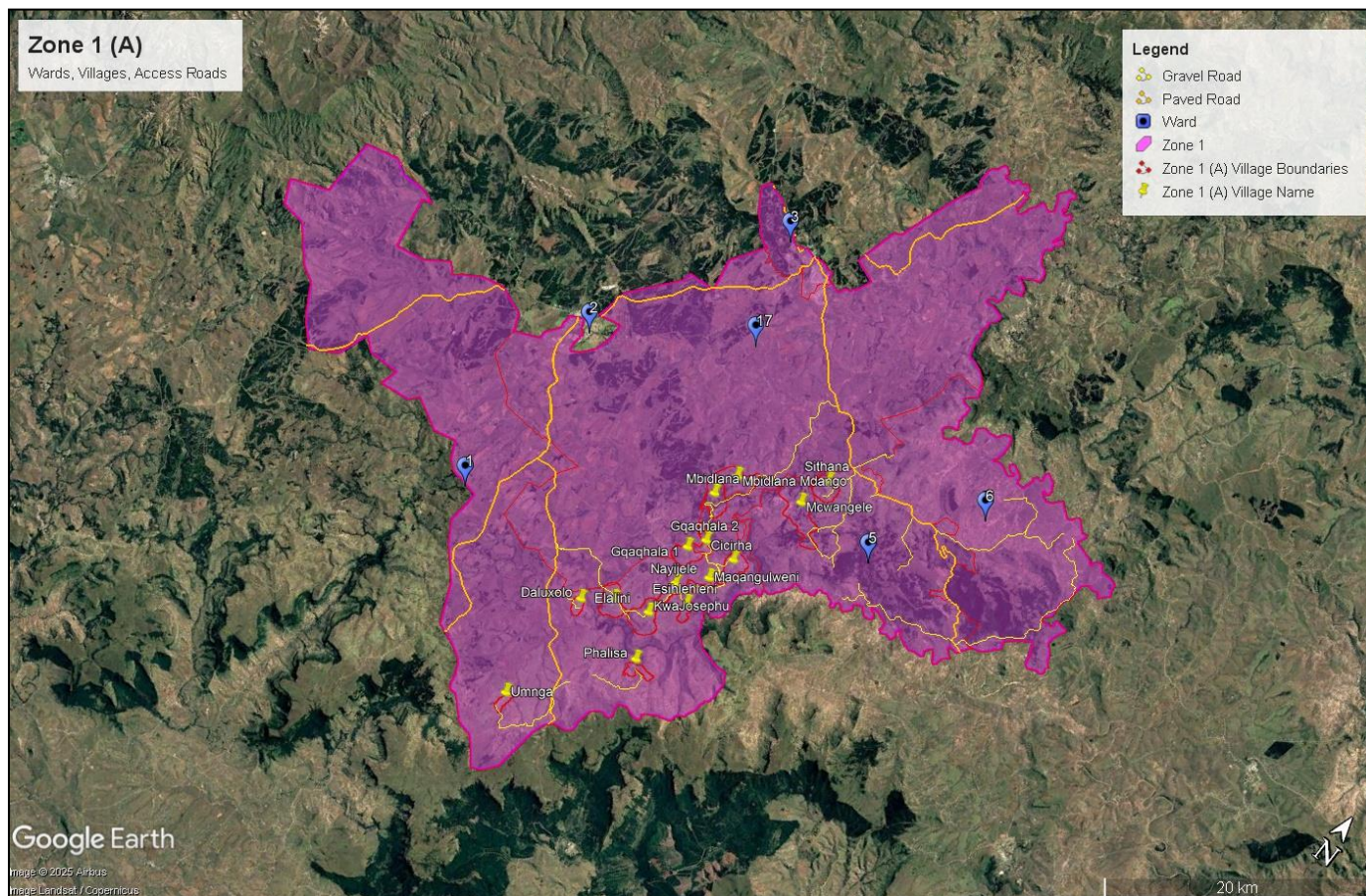


Figure 1: Location of Elundini Zone 1

The Contractor shall provide all equipment, labour, materials, hardware, software and services necessary to install and to ensure a fully functioning system as described by this specification. This requirement includes any permits, authorizations, inspections, licenses and/or other activities necessary to install and commission the project. Joe Gqabi District Municipality will reasonably assist the Contractor in obtaining the required clearances and approvals, but this will not absolve the Contractor from providing a complete and operational system that meets the requirements identified in this document. In conjunction with the

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Community Liaison Officer (CLO), the Contractor shall consult or liaise with all relevant project stakeholders in order to ensure authorization of activities and acquisition of various approval documentation (wayleaves, permits, licenses, etc.).

The objective of the Employer is to appoint experienced Contractors for the execution of the project, installation, commissioning and performance testing of civil, mechanical, electrical and instrumentation equipment, for the Works within time, cost and performance and quality standards. The following prerequisites apply for Contract Participation Goals:

- Unskilled local labourers shall be sourced from the project area. i.e. Joe Gqabi District Municipality, Elundini Local Municipality, Wards in proximity to Zone 1. **Where possible, skilled labour shall also be sourced from the same areas.**
- The full specification regarding contract participation goals is given in T1.2.1.

C3.1.4 LABOUR INTENSIVE CONSTRUCTION

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

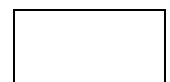
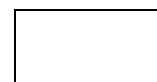
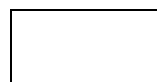
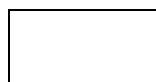
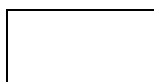
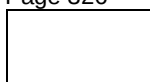
Appropriate portions of the Works included in the Contract shall be executed using Labour-Intensive Construction methods.

Except where the use of plant is essential, in the opinion of the Engineer, to meet the specified requirements by the Due Completion Date, the Contractor shall use only hand tools and equipment in the construction of those portion(s) of the Works that are required in terms of these Project Specifications to be constructed using Labour Intensive Construction methods.

These portions of the Works shall be constructed utilising only locally employed labour and/or the labour of local sub-contractors, supplemented to the extent necessary and unavoidable by the Contractors key personnel as provided for in sub-clause C3.1.3 unless otherwise instructed by the Engineer and in accordance with the further provisions of the relevant sections of Part C3 of the Scope of Works.

The portions of the works to be executed using Labour Intensive Construction methods are:

- Clearing and grubbing of the site,
- Hand proving for existing services detection,
- Preparation of bedding with specified material,
- Laying of the pipelines,
- Compaction around the pipelines,
- Mixing and placing of small concrete works, less than 3 m³,
- Any other works as instructed by the Engineer.



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

C3.1.5 SUB-CONTRACTING

C3.1.5.1 The Contractor shall appoint such authorities and/or specialist sub-contractors and suppliers as may be designated or nominated by the Employer or the Engineer.

C3.1.5.2 The Contractor shall sub-let to local small sub-contractors appropriate portions of the works.

C3.1.5.3 As required by Clause 4.4.5 of the GCC (2015), the Contractor shall be responsible for all work carried out by sub-contractors (whether nominated by the Employer or selected by the Contractor) on his behalf. The Engineer will not liaise directly with any such sub-contractor, nor will he become involved in any problems and/or disputes related to payments, programming, workmanship, etc. unless provided for in the GCC (2015). Such problems and/or disputes shall remain the sole concern of the Contractor and his sub-contractors.

C3.1.5.4 The Engineer may at his discretion, upon receipt of a written and fully motivated application from the Contractor, and where he deems the circumstances so warrant, and provided always that the Contractor has complied fully and in all respects with the provisions of the Contract pertaining to subletting to local sub-contractors or has utilised his best endeavours to comply therewith, authorise in writing that the Contractor may employ local residents with the sole intent of executing on-the-job training of such local residents to suitable levels of skill that will enable the Contractor to sub-let appropriate portions of the Works to such local residents.

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

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

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

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Contractor

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Should the Contractor, after suitable due endeavour, be unable to identify local residents suitable for and desiring to train as sub-contractors for portions of the Works the Contractor has designated for sub-contracting, then the Contractor shall be permitted to undertake the Works in question with his own, after approval by the Engineer.

The Engineer shall monitor progress achieved with sub-contractor training, and successful completion of this training shall be subject to his approval or instruction. The Contractor shall tender rates for the training of sub-contractors and labour.

As specified in Clause C3.1.4, the Contractor shall approach the Labour Desk /CLO that is established for purposes of the Contract for assistance and advice regarding conditions of employment, minimum wages, disputes and disciplinary procedures in respect of local sub-contractors.

C3.1.6 CONSTRUCTION AND MANAGEMENT REQUIREMENTS

C3.1.6.1 GENERAL

The Contractor is referred to SANS 1921: 2018 parts 1, 2, 3 and 5: Construction and Management Requirements for Works Contracts. These specifications shall be applicable to the contract under consideration and the Contractor shall comply with all requirements relevant to the project.

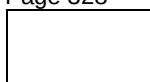
Certain aspects however require further attention as described hereafter.

C3.1.6.2 QUALITY ASSURANCE (QA) (READ WITH SANS 1921 – 1: 2018 CLAUSE 4.4)

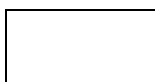
The Contractor will be solely responsible for the production of work that complies with the Specifications to the satisfaction of the Engineer. To this end it will be the full responsibility of the Contractor to institute an appropriate Quality Assurance (QA) system on site. The Engineer will audit the Contractor's quality assurance (QA) system on a regular basis to verify that adequate independent checks and tests are being carried out and to ensure that the Contractor's own control is sufficient to identify any possible quality problems, which could cause a delay or failure.

The Contractor shall ensure that efficient supervisory staff, the required transport, instruments, equipment and tools are available to control the quality of his own workmanship in accordance with his QA-system. His attention is drawn to the fact that it is not the duty of the Engineer or the Engineer's representative to act as foreman or surveyor.

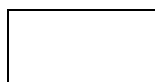
C3.1.6.3 MANAGEMENT AND DISPOSAL OF WATER (READ WITH SANS 1921 - 1: 2018 CLAUSE 4.6)



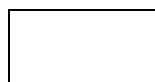
Contractor



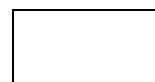
Witness 1



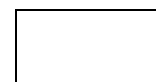
Witness 2



Employer



Witness 1



Witness 2

The Contractor shall pay special attention to the management and disposal of water and stormwater on the site. It is essential that all completed works or parts thereof are kept dry and properly drained. Claims for delay and for repair of damage caused to the works as a result of the Contractor's failure to properly manage rain and surface water, will not be considered. The works is in inhabited areas and the contractor will ensure that no stormwater damage to structures occur during the excavations and after completion of the works.

C3.1.6.4 DISPOSAL OF SPOIL OR SURPLUS MATERIAL (READ WITH SANS 1921 - 1: 2018 CLAUSE 4.10)

The Contractor shall dispose all surplus and unsuitable material at a legal and registered landfill sites within the Municipal area. He shall be responsible for all arrangements necessary to obtain such legal and registered landfill sites from the Municipality.

C3.1.6.5 TESTING (READ WITH SANS 1921 – 1: 2018 CLAUSE 4.11)

- Process Control

The Contractor shall arrange for all tests required for process control to be done by a laboratory acceptable to and approved by the Engineer.

The Contractor may establish his own laboratory on site or he may employ the services of an independent commercial laboratory. Whatever method is used, the Contractor must submit the results of tests carried out on materials and workmanship when submitting work for acceptance by the Engineer. The costs for these tests shall be deemed to be included in the relevant rates and no additional payment will be made for testing as required.

- Acceptance control

The process control test results submitted by the Contractor for approval of materials and workmanship may be used by the Engineer for acceptance control. However, before accepting any work, the Engineer may have further control tests carried out by a laboratory of his choice. The cost of such additional tests will be covered by a provisional sum provided in the schedule of quantities, but tests that failed to confirm compliance with the specifications, will be for the account of the Contractor.

C3.1.6.6 SURVEY BEACONS (READ WITH SANS 1921 - 1 : 2018 CLAUSE 4.15)

The Contractor shall take special precautions to protect all permanent survey beacons or pegs such as benchmarks, stand boundary pegs and trigonometrical beacons, regardless whether such beacons or pegs were placed before or during the execution of the Contract. If any such beacons or pegs have been disturbed by the Contractor or his employees, the Contractor shall have them replaced by a registered land surveyor at his own cost.

C3.1.6.7 EXISTING SERVICES (READ WITH SANS 1921 - 1 : 2018 CLAUSE 4.17)

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The Contractor shall make himself acquainted with the position of all existing services before any excavation or other work likely to affect the existing services is commenced.

The Contractor will be held responsible for any damage to known existing services caused by or arising out of his operations and any damage shall be made good at his own expense. Damage to unknown services shall be repaired as soon as possible and liability shall be determined on site when such damage should occur.

C3.1.7 PROGRAMME TO BE SUPPLIED BY THE CONTRACTOR

The Contractor's programme shall be essentially in accordance with the overall requirements of the project.

The programme shall not be in the form of a bar chart only but shall show clearly the anticipated quantities of work to be performed each month, together with the manner in which the listed plant and other resources are to be used, as well as the anticipated earnings for the various sections of work.

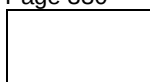
A network-based programme according to the precedence method shall be required by the Engineer. The programme shall be updated monthly in accordance with the progress made by the Contractor. The updated programme shall be submitted to the Engineer at least two working days prior to monthly meetings.

Failure to comply with these requirements will entitle the Engineer to use a programme based on his own assumptions for the purpose of evaluating claims for extension of time or additional payments.

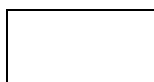
If, during the progress of the work, the quantities of work performed per month fall below those shown on the programme, or if the sequence of operations is altered or if the programme is deviated from in any other way, the Contractor shall, within one week of having been notified by the Engineer, submit a revised programme and network.

If the programme has to be revised by reason of the contractor falling behind his programme, he shall produce a revised programme showing how he intends to regain lost time in order to ensure completion of the Works within the time of completion as defined in Clause 5.7 of the GCC (2015) or any granted extension of time. Any proposal to increase the tempo of work must be accompanied by positive steps to increase production by providing more labour and plant on site, or by using the available labour and plant in a more efficient manner.

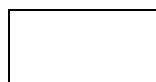
Failure on the part of the Contractor to submit the programme or to work according to the programme or revised programmes shall be sufficient reason for the Engineer to take steps as provided in Clause 9.2 of the GCC (2015).



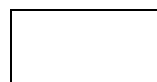
Contractor



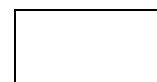
Witness 1



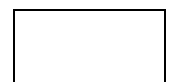
Witness 2



Employer



Witness 1



Witness 2

The approval by the engineer of any programme shall have no contractual significance other than the Engineer will be satisfied if the work is carried out according to such programme and that the Contractor undertakes to carry out the work in accordance with the programme. It shall not limit the right to the Engineer to instruct the Contractor to vary the programme if required by circumstances. The Contractor is also referred to Clause 5.6 of the GCC (2015) when drawing up his programme.

Progress in advance of the programme on certain portions or phases of the Works shall not be considered adequate reason for poor progress on another portion or phase.

C3.1.8 TRANSPORTATION

Free haul

"The free haul distance within which the Contractor will be required to move material without separate compensation shall be within a radius of 15,0 km of the centre of the Site. This will not be restricted to the site and may include the hauling of fill, selected material from the nearby quarry or designated borrow site and all haul within this radius will be regarded as free haul."

Overhaul

No payment will be made for overhaul on this contract unless provision is made therefore in specific items..

C3.1.9 SITE FACILITIES AVAILABLE

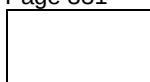
C3.1.9.1 LOCATION OF SITE AND DEPOT

The Contractor is responsible to provide a suitable site for his camp and to provide accommodation for his personnel and labourers. If the Employer can make any specific site available to the Contractor, such site will be pointed out to the Contractor. The Contractor must obtain written permission from the landowner and subsequently from the Engineer for the establishment of his camp.

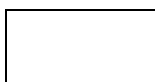
(a) Contractor's Camp Site/Store Yard

Any clearing of the site that is necessary and the making good after de-establishment will be the responsibility of the Contractor.

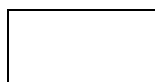
In addition to the requirements of SANS 1200A clause 8.3.2.2 the following conditions shall also apply:-



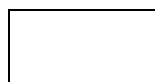
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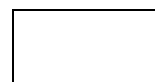
Witness 1



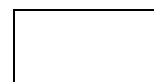
Witness 2



Employer



Witness 1



Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

- (i) None of the existing roads shall be damaged in any way.
- (ii) No waterborne sewerage facilities or potable water connection are available on the site. The Contractor shall make his own arrangements in this regard.
- (iii) It shall be the responsibility of the Contractor to make good any damage caused to the campsite area or any improvements on it, including services, and for reinstating it to its former condition when vacated. The standard of reinstatement must be to the satisfaction of the Engineer or the owner. Particular attention should be directed to these requirements and written clearances from the relevant Departments or other owners will be required.

C3.1.9.2 SOURCE OF WATER SUPPLY

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

The Contractor shall, subject to the approval of the Engineer, make any necessary arrangements with the relevant authority for the connection(s), and shall provide in his tender for the payment of all charges and costs that are associated with making water available for purposes of constructing the Works.

C3.1.9.3 SOURCE OF POWER SUPPLY

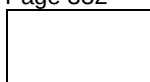
The Contractor shall be responsible under the Contract for the supply and distribution at his cost of all electricity that he may require for purposes of constructing the Works. Accordingly, the Contractor shall pay all connection and consumption charges, and at his cost provide all connections, transformers, consumption meters, cables, distribution boards and other items that are associated with the supply of electricity for construction of the Works.

The Contractor shall, subject to the approval of the Engineer, make any necessary arrangements with the relevant authority for the connection(s), and shall provide in his tender for the payment of all charges and costs that are associated with making electricity available for purposes of constructing the Works. The distribution of electricity shall be in accordance with the applicable bylaws and regulations of the supply authority.

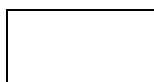
C3.1.9.4 ACCOMMODATION OF EMPLOYEES

No employees except for security guards will be allowed to sleep or be accommodated on the site.

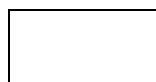
No housing is available for the Contractor's employees and the Contractor shall make his own arrangements to house his employees and to transport them to site. No informal housing or squatting will be allowed.



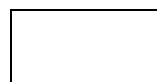
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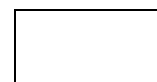
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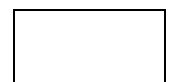
Witness 2



Employer



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The Contractor shall provide the necessary ablution facilities at his campsite and the site of the works for the use of his employees. Chemical toilets only will be allowed where temporary facilities have to be provided.

C3.1.9.5 LATRINES

The Contractor shall provide for the duration of the contract, latrine facilities on the site in the form of chemical closets for the use of persons employed on the works. All latrine facilities provided by the Contractor shall be efficient, sanitary and non-offensive and all sanitary fees payable to any local authority shall be paid by the Contractor.

C3.1.10 FEATURES REQUIRING SPECIAL ATTENTION

C3.1.10.1 BUILT-UP AREAS

The Contractor's attention is drawn to the fact that the Works will be constructed through residential areas. The Contractor shall exercise all necessary precautions and take all necessary steps to ensure the safety and convenience of the public. In addition, the Contractor shall provide access for traffic over and through the works, and for residents to their places of abode, all as described in the Specifications. Allowance must be made by the Contractor in his programming for delays resulting from the aforesaid.

The Contractor shall give residents a minimum of 72 hours written notice of his intent to close access to residential stands. The Contractor shall acquire written confirmation from all owners that they are aware of any intended closures of access. No traffic access to a residential stand shall be closed for longer than 48 hours.

C3.1.10.2 PROTECTION OF BUILDINGS AND STRUCTURES

The Contractor shall give all residents or other parties owning a building or structure within an appropriate radius (not less than 100m) from any point of blasting, a minimum of 48 hours notice of his intent to execute any blasting work.

The Contractor shall note all aspects relevant to the condition of the affected buildings and/or structures prior to blasting and shall acquire the signature of the owners/occupants agreeing to such conditions.

Subsequent to blasting, both the Contractor and the owners/occupants shall sign the form confirming the condition of the buildings and/or structures. In the event of damage to existing buildings and/or structures as a result of blasting, remedial work shall be done to the satisfaction of the owners/occupants/Engineer at the Contractor's expense.

Compliance with this clause will not relieve the Contractor of any of his responsibilities in terms of the Contract.

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C3.1.10.3 CARE OF THE SITE

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

C3.1.10.4 CONTROL OF WATER

The Contractor shall at all times and in all respects be responsible for the handling of stormwater from higher-laying areas above the Works, and for the handling of any sub-surface water that may affect the Works. No separate payment shall be made in this regard, as all costs related thereto shall be deemed to be included in the rates tendered for the various items of work that are included in the Schedule of Quantities.

C3.1.11 MANAGEMENT OF THE ENVIRONMENT (SANS 1921 – 1: 2004 CLAUSE 4.19)

The Contractor shall pay special attention to the following:

(a) Natural Vegetation

The Contractor shall confine his operation to as small an area of the site as may be practical for the purpose of constructing the works.

Only those trees and shrubs directly affected by the works and such others as the Engineer may direct in writing shall be cut down and stumped. The natural vegetation, grassing and other plants shall not be disturbed other than in areas where it is essential for the execution of the work or where directed by the Engineer.

(b) Fires

The Contractor shall comply with the statutory and local fire regulations. He shall also take all necessary precautions to prevent any fires. In the event of fire the Contractor shall take active steps to limit and extinguish the fire and shall accept full responsibility for damages and claims resulting from such fires, which may have been caused by him or his employees.

C3.1.12 COMMUNITY LIAISON AND COMMUNITY RELATIONS

In all dealings with nearby communities and beneficiaries of the project, and in all dealings with workers employed from within such communities, the Contractor shall take due cognisance of the character, culture and circumstances of the specific community and/or any group of beneficiaries, and shall at all times use his best endeavours to avoid the development of disputes and rather to foster a spirit of co-operation and harmony towards the project.

The Contractor shall at all times, keep the Engineer fully informed regarding all matters affecting or negotiated between the Contractor and the community and/or beneficiaries, and

Contractor

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Employer

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he shall attend all liaison meetings as may be arranged by the Engineer and/or the Employer. All matters concerning the community and/or beneficiaries shall be discussed and where possible, resolved at such meetings.

Where any resolution during such negotiations or at such meetings shall be contrary to the terms and provisions of the Contract, the Contractor shall not give effect thereto without a prior written instruction from the Engineer. Where the Contractor is of the opinion that any instruction of the Engineer issued in terms of this clause will result in the incurring of additional costs which were not provided for in his tendered rates and prices and/or that a delay in the progress of the Works will result, he shall be entitled to submit a claim in terms of Clause 10 of the GCC(2015), provided always that the period of twenty-eight (28) days referred to in Clause 10 shall be reduced to three (3) normal working days in respect of all claims submitted in terms of this clause.

C3.1.13 WORKMANSHIP AND QUALITY CONTROL

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

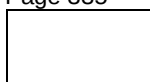
The cost of the Contractor's supervision and process control, including all testing carried out by the Contractor, will be deemed to be included in the rates tendered for the various items of work. The Contractor's attention is drawn to the provisions of the various Standardised Specifications regarding the minimum frequency of process control testing that is to be executed. The Contractor shall, at his own discretion, increase this frequency where necessary to ensure adequate control of the quality of the Works at all times.

Upon completion and submission of each portion of the Works to the Engineer for examination, the Contractor shall furnish the Engineer with the results of relevant tests, measurements and levels, thereby indicating compliance with the Specifications.

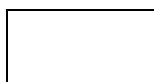
The Engineer will not examine or inspect any portion of work submitted for approval unless the request for inspection and approval is accompanied by relevant tests, measurements and levels indicating compliance.

C3.1.14 SAMPLES

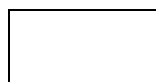
Materials or work that do not conform to the approved samples, submitted in terms of Clause 7.4 of the GCC(2015), will be rejected. The Engineer reserves the right to submit samples for testing to ensure that the material represented by the samples meet the specification requirements.



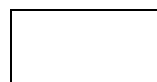
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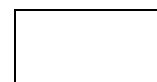
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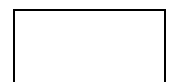
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Employer



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C3.1.15 NOTICES, SIGNS, BARRICADES AND ADVERTISEMENTS

Notices, signs and barricades (required in terms of Clause 8 of the GCC (2015)) as well as advertisements may only be erected where approved by the Engineer. The Contractor shall be responsible for their supply, erection, maintenance, and ultimate removal and shall make provision for this in his tendered rates.

The Engineer shall have the right to have any sign, notice or advertisement erected, moved to another location, or to have it removed from the Site of the Works, should it in any way prove to be unsatisfactory, inconvenient or dangerous to the general public.

C3.1.16 REQUIREMENTS FOR ACCOMMODATION OF TRAFFIC

C3.1.16.1 GENERAL

The Contractor will be responsible for the safe and easy passage of public traffic past and on sections of roads of which he has occupation or where work has to be done near traffic.

Accommodation of traffic, where applicable shall comply with SANS 1921-2:2018: Construction and Management Requirements for Works Contracts, Part 2: Accommodation of Traffic on Public Roads occupied by the Contractor. The Contractor shall obtain this specification from Standards South Africa if accommodation of traffic will be involved on any part of the construction works.

C3.1.16.2 BASIC REQUIREMENTS

The travelling public shall have the right of way on public roads, and the Contractor shall make use of approved methods to control the movement of his equipment and vehicles so as not to constitute a hazard on the road.

The Contractor shall ensure that all road signs, barricades, delineators, flagmen and speed controls are effective and that courtesy is extended to the public at all times.

Failure to maintain road signs, warning signs or flicker lights, etc, in a good condition shall constitute ample reason for the Engineer to suspend the work until the road signs, etc, have been repaired to his satisfaction.

The Contractor may not commence constructional activities affecting existing roads before adequate provision has been made to accommodate traffic in accordance with the requirements of this document and the South African Road Traffic Signs Manual.

The Contractor shall construct and maintain all temporary drainage works necessary for temporary deviations.

Contractor

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The Contractor shall provide and grant access to persons whose properties fall within or adjoin the area in which he is working.

C3.1.17 OPEN TRENCHES

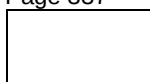
Trenches may not be left open during the builder's holidays and shall be safe-guarded at all times from danger to the public. Safe trench-crossings shall be provided at all intersections with accesses to properties and with public roads and paths. The length of trench left open at any one time may be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

C3.1.18 STATUTORY REGULATIONS

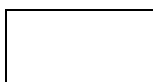
The statutory requirement of the Occupational Health and Safety Act, Act 85 of 1993 (referred to as the Act below), and all regulations promulgated there under as well as the other relevant acts must be adhered to by the Contractor, with specific reference to the safety of all employees and the public,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

- (a) The Contractor undertakes to acquaint the appropriate officials and the employees of the Contractor with all relevant provisions of the Act, and the regulations promulgated in terms of the Act;
- (b) The Contractor undertakes that all relevant duties, obligations and prohibitions imposed in terms of the Act and regulations will be fully complied with; and
- (c) The Contractor hereby accepts sole liability for such due compliance with the relevant duties, obligations and prohibitions imposed by the Act and regulations, and expressly absolves the Employer and the Engineer from being obliged to comply with any of the aforesaid duties, obligations and prohibitions in respect of the Works; and
- (d) The Contractor shall be obliged to report forthwith to the Employer and the Engineer any investigation, complaint, or criminal charge which may arise as a consequence of the provisions of the Act and regulations pursuant to work performed on behalf of the Employer, and shall, on written demand, provide full details in writing of such investigation, complaint or criminal charge.
- (e) The Contractor shall sign the agreement bound into Section C1.2 of this document.

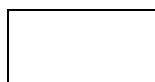
The Contractor shall comply with all the conditions of the Record of Decision in terms of Section 22(3) of the Environmental Conservation Act, 1989. The Environmental Management Plan is available upon request from the Engineer.



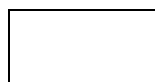
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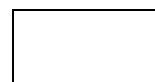
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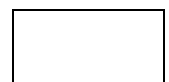
Witness 2



Employer



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A time-related and a fixed-charge item have been provided in Section A of the Schedule of Quantities. The contractor shall allow for all obligations imposed by the Environmental Management Plan including the appointment of an environmental manager/control officer.

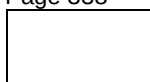
C3.1.19 SAFETY

Pursuant to the provisions of the GCC (2015), and without in any way limiting the Contractor's obligations there under, the Contractor shall at his own expense (except only where specific provision (if any) is made in the contract for the reimbursement to the Contractor in respect of particular items), provide the following:

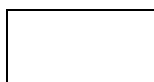
- (a) The Principal Contractor must do a Risk Assessment and compile an OHS Plan to be evaluated and approved by the Safety Agent prior to commencement of Construction.
- (b) The Contractor must ensure that regular safety meetings be held, and that the minutes of such meetings be kept in a Safety File, which must be available on site at all, times.
- (c) Provide to its Employees on the site of the works, all safety materials, clothing and equipment necessary to ensure full compliance with the provisions of the Occupational health and Safety Act, 1993 (Act No 85 of 1993) as amended (hereinafter referred to as the Act) at all times, and shall institute appropriate and effective measures to ensure the proper usage of such safety materials, clothing and equipment at all times;
- (d) Provide, install and maintain all barricades, safety signage and other measures to ensure the safety of workmen and all persons in, on and around the site, as well as the general public;
- (e) Implement on the site of the works, such procedures and systems and keep all records as may be required, to ensure compliance with the requirements of the Act at all times;
- (f) Implement all necessary measures to ensure compliance with the Act by all sub-contractors engaged by the Contractor and their employees engaged on the works;
- (g) Full compliance with all other requirements pertaining to safety as may be specified in the Contract (Also refer to Notice to Tenderers).

The Employer and the Engineer shall be entitled, although not obliged, to make such inspections on the site as they shall deem appropriate, for the purpose of verifying the Contractor's compliance with the requirements of the Act.

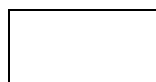
For this purpose, the Contractor shall grant full access to the site of all parts of the site and shall co-operate fully in such inspections and shall make available for inspection all such documents and records as the Employer's and/or Engineer's representative may reasonably require. Where any such investigations reveal, or where it comes to the Engineer's attention that the Contractor is in any way in breach of the requirements of the Act or is failing to comply with the provisions of this clause, the Engineer shall, in accordance with the provisions of clause 5.11 of the GCC (2015), be entitled to suspend progress on the works



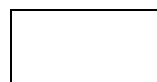
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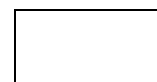
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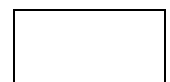
Witness 2



Employer



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or any part thereof until such time as the Contractor has demonstrated to the satisfaction of the Engineer, that such breach has been rectified.

The Contractor shall have no grounds for a claim against the Employer for extension of time and/or additional costs if the progress on the works or any part thereof is suspended by the Engineer in terms of this clause, and the Contractor shall remain fully liable in respect of the payment of penalties for late completion in accordance with the provisions of clause 5.13.1 of the GCC (2015) should the Contractor fail to complete the Works on or before the specified due completion date in consequence of the suspension.

Persistent and repeated breach by the Contractor of the requirements of the Act and/or this clause shall constitute grounds for the Engineer to act in terms of subclause 9.2.1 of the GCC (2015) and for the Employer to cancel the Contract in accordance with the further provisions of the said clause 9.2.

In addition to all above safety related requirements the Contractor shall take cognisance of the requirements of the Construction Regulations and OHS Specifications.

C3.1.20 SAFETY OFFICER

OHS must be provided.

The Contractor is required to ensure compliance with the Occupational Health and Safety Act (Act 85 of 1993) and its regulations, in particular the Construction Regulations 2014, to appoint a Health and Safety Officer for the works.

The safety officer shall have a sound knowledge of the Occupational health and Safety Act. He shall preferably have completed the Safety Management Training Course (SAMTRAC) presented by NOSA. He shall also be registered as a Construction Health and Safety office with a recognised Statutory Body. The Contractor shall submit details of the proposed personnel.

C3.1.21 SOURCE OF MATERIAL/BORROW PIT

The contractor will be held responsible for locating legal, licenced and approved sources of all materials complying with the relevant minimum requirements to be used in this contract. No separate payment shall be made for this, as all costs related thereto shall be deemed to be covered by the tendered rates. Where possible materials manufactured or produced locally shall be procured to promote local enterprise.

C3.1.22 PHOTOGRAPHIC RECORD

Prior to the commencement of the work, and during the contract period, a photographic record shall be made of all existing stands and structures to be affected by the construction activities and forwarded to the Engineer prior to the commencement of Works.

No provision has been made in the Schedule of Quantities for this item.

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C3.2 ENGINEERING**C3.2.1 DESIGN**

- The Employer is responsible for the design of the Permanent Works as reflected in the Contract Documents unless otherwise stated.
- The Contractor is responsible for the design of the Temporary Works and their compatibility with the permanent Works.
- The Contractor shall supply all details necessary to assist the Engineer in the compilation of the as-built drawings

C3.2.2 EMPLOYER'S DESIGN

The Employer has designed the permanent works included in this contract. The detail of the works is indicated on the drawings and in the specifications. The Tenderer may submit alternative offers for designs prepared by himself subject to the conditions and provide drawings with details for each alternative proposed.

C3.2.3 DRAWINGS

The reduced drawings which form part of the tender documents shall be used for tendering purposes only.

The contractor shall be supplied with three complete paper copies of the construction drawings free of charge. The Contractor shall at his own expense produce there from all further paper prints required for the construction of the work.

The Contractor shall use only the dimensions stated in figures on the Drawings in setting out the Works, and dimensions shall not be scaled from the Drawings, unless required by the Engineer. The Engineer will, on the request of the Contractor in accordance with the provisions of the GCC (2015), provide such dimensions as may have been omitted from the Drawings.

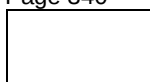
The Contractor shall ensure that accurate as-built records are kept of all infrastructure installed or relocated during the contract. The position of pipe bends, junction boxes, duct ends and all other underground infrastructure shall be given by either co-ordinates or stake value and offset. Where necessary, levels shall also be given. A marked-up set of drawings shall also be kept and updated by the Contractor. This information shall be supplied to the Engineer's Representative on a regular basis.

All information in possession of the Contractor, required by the Engineer and/or the Engineer's Representative to complete the as-built/record drawings, must be submitted to the Engineer's Representative before a Certificate of Completion will be issued.

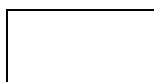
C3.2.3.1 ADDITIONAL CONSTRUCTION DRAWINGS

Additional construction drawings will, in terms of Clause 5.9 of the GCC (2015), be issued to the Contractor by the Engineer/Employer on the commencement date and from time to time as required.

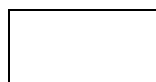
Page 340



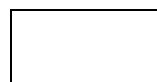
Contractor



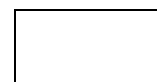
Witness 1



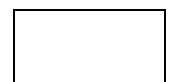
Witness 2



Employer



Witness 1



Witness 2

C3.3 PROCUREMENT**C3.3.1 RESTRICTION OF THE UTILISATION OF PERSONNEL IN THE PERMANENT EMPLOYMENT OF THE CONTRACTOR**

The Contractor shall limit the utilisation of his permanently employed personnel to that of key personnel only on the Works, as defined below, and shall execute and complete the Works utilising a temporary workforce employed directly by the Contractor and/or by his sub-contractors, using the assistance of the labour desk / CLO that will be established for the project in consultation with the various communities that are established in proximity to the Works or which will be allocated within the development.

Without derogating from the Contractor's obligations to complete the Works within the specified time for completion in terms of clause 1.1.1.14 of GCC 2015, the numbers in each category of the Contractor's key personnel, as stated by the Contractor in Part T2 of this document, will be strictly controlled during the contract period and any increase in numbers will be subject to the prior approval of the Employer.

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

The Engineer may at his discretion, upon receipt of a written and fully motivated application from the Contractor, and where he deems the circumstances so warrant, authorise in writing that the Contractor may utilise in the execution of the Works, workers not being his key personnel but who are in his permanent employ.

Without limiting the generality of application of this sub-clause, circumstances which may be considered by the Engineer to warrant authorisation of the use of the Contractor's permanent employees other than key personnel, include:

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

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C3.3.2 PROVISION OF TEMPORARY WORKFORCE FOR THE CONTRACT

The Contractor shall employ labour from the local community through the labour desk / CLO except for approved key staff in the permanent employ of the Contractor, to the maximum extent that is compatible with the requirements of Clause 4.11 of the GCC(2015) .

Although the Contractor shall adhere to the statutory minimum wage rates, he is however at liberty to negotiate additional incentive payments based on performance. The Occupational Health and Safety Act must be adhered to with reference to the safety of any employee employed by the Contractor. The successful tenderer shall liaise with the Ward Councillor/Ward Committee whereby the Ward Councillor shall provide to the Contractor the following if necessary:

- a) A Community Liaison Officer (CLO) for liaison with the recipient community for labour recruitment

The CLO shall attend all site and other meetings concerning the project. Only one CLO shall be appointed per project. If the project spans over more than one Ward, the relevant Ward Councillors shall agree on one CLO to be appointed by the Contractor. Should no agreement be found as envisaged, the relevant Project Manager together with the Engineer, will interview prospective appointees and in their discretion appoint such CLO.

Notwithstanding the above, if the vastness of the project requires the use of more than one CLO, this will be permitted provided that the total monthly sum paid to all CLO's shall not exceed the amount allowed for in paragraph bill of quantities.

Should the Contractor experience any difficulties with the community, these difficulties shall immediately be brought to the attention of the Municipality/Project Manager who shall arrange a meeting with the relevant Ward Councillor(s) and the CLO to resolve such difficulties.

The main Contractor shall ensure that any Sub-Contractor he may appoint shall adhere to these conditions but also subject to the provisos applicable to the duration of such sub-contract. Should any of the above conditions be less favourable than any Bargaining Council Agreement or Act applicable to the Contractor, the more favourable condition will apply.

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

- The minimum agreed wage rate per hour in respect of labourers;

Page 343

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

- The agreed pay rate per unit of production where applicable;
- UIF and WCA payments;
- Minimum working hours per day;
- Start and end times of a daily shift;
- Lunch break times
- Company policy regarding Rain time
- Sickness and absenteeism
- Disciplinary matters
- Grievances
- Method and frequency of payment;
- Work clothes and safety equipment to be issued
- Labour Desk

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C3.4 CONSTRUCTION**C3.4.1 STANDARD SPECIFICATIONS**

C3.4.1.1 The Standard specification, are carried out strictly in accordance with SANS 1200 - "Standard Specification for Civil Engineering Construction" as approved by the Council of the South African National Standards.

C3.4.1.2 For the purpose of this Contract the latest issues of the following Standard Specifications for Civil Engineering Construction, applicable at the date of tender advertisement, shall apply –

SANS 1200 A	: General
SANS 1200 AB	: Engineer's Office
SANS 1200 C	: Site Clearance (Amendment, 1982)
SANS 1200 D	: Earthworks (Amendment 1, 1990)
SANS 1200 DA	: Earthworks (Small works)
SANS 1200 DB	: Earthworks (Pipe Trenches)
SANS 1200 DK	: Gabions and Pitching
SANS 1200 DM	: Earthworks (Roads, Subgrade)
SANS 1200 G	: Concrete (Structural)
SANS 1200 GA	: Concrete (Small works)
SANS 1200 GE	: Precast Concrete (Structural)
SANS 1200 HA	: Structural Steelworks
SANS 1200 HB	: Cladding and Sheeting
SANS 1200 L	: Medium Pressure Pipelines
SANS 1200 LB	: Bedding (Pipes)
SANS 1200 M	: Roads General
SANS 1200 ME	: Subbase
SANS 1200 MF	: Base
SANS 1200 MJ	: Roads (Segmented Paving)

C3.4.1.3 The term “project specifications” appearing in any of the SANS 1200 standardised specifications must be replaced with the terms “scope of work”.

C3.4.1.4 References from, and variations and additions to the Standard Specifications and Particular Specifications are included in section C3.4.2.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C3.4.2 E.P.W.P. LABOUR INTENSIVE SPECIFICATION**C3.4.2.1 LABOUR INTENSIVE COMPETENCIES OF SUPERVISORY AND MANAGEMENT STAFF**

Contractors having a CIDB contractor grading designation of 4CE and higher shall only engage supervisory and management staff in labour intensive works who have either completed, or for the period 1 April 2019 to 30 June 2021, are registered for training towards, the skills programme outlined in Table 1.

The managing principal of the contractor, namely, a sole proprietor, the senior partner, the managing director or managing member of a close corporation, as relevant, having a contractor grading designation of 1CE, 2CE, 3CE and 4CE shall have personally completed, or for the period 1 April 2019 to 30 June 2021 be registered on a skills programme for the NQF level 2. All other site supervisory staff in the employ of such contractors must have completed, or for the period 1 April 2019 to 30 June 2021 be registered on a skills programme for, the NQF level 2 unit standards or NQF level 4 unit standards.

Table 1: Skills programme for supervisory and management staff

Personnel	NQF level	Unit standard titles	Skills programme description
Team leader / supervisor / Contracts Manager	2	Apply Labour Intensive Construction Systems and Techniques to Work Activities	This unit standard must be completed, and
		Use Labour Intensive Construction Methods to Construct and Maintain Roads and Stormwater Drainage	Any one of these 3 unit standards
		Use Labour Intensive Construction Methods to Construct and Maintain Water and Sanitation Services	
		Use Labour Intensive Construction Methods to Construct, Repair and Maintain Structures	
Foreman/ supervisor	4	Implement labour Intensive Construction Systems and Techniques	This unit standard must be completed, and
		Use Labour Intensive Construction Methods to Construct and Maintain Roads and Stormwater Drainage	Any one of these 3 unit standards
		Use Labour Intensive Construction Methods to Construct and Maintain Water and Sanitation Services	

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

		Use Labour Intensive Construction Methods to Construct, Repair and Maintain Structures	
Site Agent / Manager (i.e. the contractor's most senior representative that is resident on the site)	5	Manage Labour Intensive Construction process	Skills Programme against this single unit standard

C3.4.2.2 EMPLOYMENT OF UNSKILLED AND SEMI-SKILLED WORKERS IN LABOUR-INTENSIVE WORKS

C3.4.2.2.1 Requirements for the sourcing and engagement of labour

Unskilled and semi-skilled labour required for the execution of all labour intensive works shall be engaged strictly in accordance with prevailing legislation and SANS 1914-5, Participation of Targeted Labour.

The minimum wage rate for local E.P.W.P. labourers for 2024 is R15.16 per hour or R 121.28 per 8 hour day or per task as per the National Minimum Wage Act No. 9 of 2018 and all conditions stipulated in the annually published Ministerial Determination for Public Works Programmes. The current daily wage rate that the municipality is paying is R180,00. For this 36 month project it is proposed that **R 200 per day/task** be the stipulated wage rate for general workers.

Tasks established by the contractor must be such that:

- the average worker completes 5 tasks per week in 40 hours or less; and,
- the weakest worker completes 5 tasks per week in 55 hours or less.

The contractor must revise the time taken to complete a task whenever it is established that the time taken to complete a weekly task is not within the requirements of C3.4.3.2.1

The Contractor shall, through all available community structures, inform the local community of the labour intensive works and the employment opportunities presented thereby. Preference must be given to people with previous practical experience in construction and / or who come from households:

- where the head of the household has less than a primary school education;
- household with people living with disability;
- that has less than one full time person earning an income;

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

- where subsistence agriculture is the source of income;
- those who are not in receipt of any social security pension income.

The Contractor shall endeavour to ensure that the expenditure on the employment of temporary workers is in the following proportions:

- 60 % women;
- 20% youth who are between the ages of 18 and 35; and
- 2% on persons with disabilities.

C3.4.2.3 SPECIFIC PROVISIONS PERTAINING TO SANS 1914-5

Definitions

Targeted labour: Unemployed persons who are employed as local labour on the project.

C3.4.2.3.1 Contract participation goals

The contract participation goal will be determined after the contractor has been appointed. The contract participation goal shall be measured in the performance of the contract to enable the employment provided to targeted labour to be quantified.

The wages and allowances used to calculate the contract participation goal shall, with respect to both time-rated and task rated workers, comprise all wages paid and any training allowance paid in respect of agreed training programmes.

C3.4.2.4 TERMS AND CONDITIONS FOR THE ENGAGEMENT OF TARGETED LABOUR

Further to the provisions of clause 3.3.2 of SANS 1914-5, written contracts shall be entered into with targeted labour.

C3.4.2.5 VARIATIONS TO SANS 1914-5

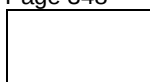
The definition for net amount shall be amended as follows:

- Financial value of the contract upon completion, exclusive of any value added tax or sales tax, which the law requires the employer to pay the contractor.

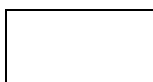
The schedule referred to in 5.2 shall in addition reflect the status of targeted labour as women, youth and persons with disabilities and the number of days of formal training provided to targeted labour.

C3.4.2.6 TRAINING OF TARGETED LABOUR

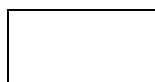
The contractor shall provide all the necessary on-the-job training to targeted labour to enable such labour to master the basic work techniques required to undertake the work in accordance with the requirements of the contract in a manner that does not compromise worker health and safety.



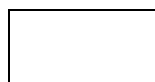
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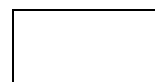
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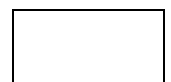
Witness 2



Employer



Witness 1



Witness 2

The cost of the formal training of targeted labour will be funded by the provincial office of the Department of Labour. This training should take place as close to the project site as practically possible. The contractor must access this training by informing the relevant provincial office of the Department of Labour in writing, within 14 days of being awarded the contract, of the likely number of persons that will undergo training and when such training is required. The employer must be furnished with a copy of this request.

A copy of this training request made by the contractor to the DOL provincial office must also be e-mailed to the E.P.W.P. Training Director in the Department of Public Works – Mziwabantu Ntese, email mziwabantu.ntese@dpw.gov.za Tel: 041 408 2305/2029.

The contractor shall be responsible for scheduling the training of workers and shall take all reasonable steps to ensure that each beneficiary is provided with a minimum of six (6) days of formal training if he/she is employed for 3 months or less and a minimum of ten (10) days if he she is employed for 4 months or more.

The contractor shall do nothing to dissuade targeted labour from participating in the training programme.

An allowance equal to 100% of the task rate or daily rate shall be paid by the contractor to workers who attend formal training, in terms of C3.4.2.6 above.

Proof of compliance with the requirements of items above must be provided by the Contractor to the Employer prior to submission of any payment certificate.

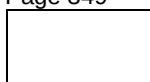
C3.4.3 VARIATIONS, AMENDMENTS AND ADDITIONS TO STANDARD AND PARTICULAR SPECIFICATIONS

The following variations and additions to the Standard and Particular Specifications will be applicable to this Contract.

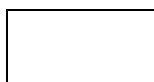
C3.4.3.1 DEPARTMENT OF WATER AND SANITATION SPECIFICATIONS

- DWS1110 : Department of Water Affairs, "Standard Specification for construction of pipelines."
- DWS1130 :Department of Water Affairs, "Standard Specification for the manufacture and supply of steel pipes, specials and fittings for duties up to 4,6 MPa design pressure."
- DWS1131 :Department of Water Affairs, "Standard Specification for the lining and coating of steel pipes and specials."
- DWS1740 :Department of Water Affairs, "Standard Specification for plumbing

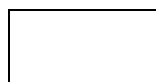
The various documents listed in section C3.4.1 shall be treated as mutually explanatory. However, should any requirement of section C3.4.3 conflict with any requirement of the



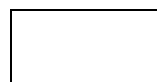
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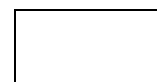
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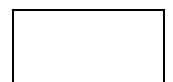
Witness 2



Employer



Witness 1



Witness 2

Standardised Specifications or with any requirement of the Particular Specifications, then the requirement of section C3.4.3 shall prevail.

C3.4.3.2 INTRODUCTION

In certain clauses the standard, standardized and particular specifications allow a choice to be specified in the project specifications between alternative materials or methods of construction and for additional requirements to be specified to suit a particular contract. Details of such alternative or additional requirements applicable to this contract are contained in this part of the project specifications. It also contains additional specifications required for this particular contract.

The number of each clause and each payment item in this part of the project specifications consists of the prefix PS followed by a number corresponding to the number of the relevant clause or payment item in the standard specifications. The number of a new clause or payment item, which does not form part of a clause or a payment item in the standard specifications and which is included here, is also prefixed by PS, but followed by a new number which follows on the last clause or item number used in the relevant section of the standard specifications. Additional clauses are preceded by an asterisk “*”.

Tenderers must make provision for all the relevant Project Specifications to be included when calculating the prices of the various items in the Bill of Quantities.

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

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

SANS 1200A: GENERAL**PSA 1: GENERAL****PSA 1.1: Scope**

Replace sub-clause 1.1 with the following:

This specification covers requirements, principles and responsibilities of a general nature which are normally applicable to all civil engineering contracts as well as the requirements for the contractor's establishment on site.

PSA 2: INTERPRETATIONS**PSA 2.2: Applicable edition of standards**

Add at the beginning of SANS 1200 A, sub-clause 2.2:

"Unless a specific edition is specified (see the List of Applicable Specifications), "

PSA 2.3: Definitions**(a) General**

Add the following definitions:

- General Conditions: The GCC (2015) specified for use with this Contract and the Special Conditions of Contract.
- Specified: As specified in the Standardized Specifications, the Drawings or Project specifications.
- Eskom: The terms "ESCOM", "ESC" and "Electricity Supply Commission" shall mean "Eskom".

(c) Measurement and Payment:

Replace the definitions for fixed charge, time-related and value-related charge, with the following:

- Fixed charge: A charge that is not subject to adjustment on account of variation in value of the Contract Amount or the Contract Time of Completion.
- Time-related charge: A charge, the amount of which is varied in accordance with the time for completion of the work, as adjusted in accordance with the provisions of the Contract.
- Value-related charge: A charge, the amount of which is varied pro rata the final value of the measured work executed and valued, in accordance with the provisions of the contract.

PSA 2.4: Abbreviations

Add the following to SANS 1200 A, sub-clause 2.4(b):

"MAMDD: Modified AASHTO maximum dry density."

PSA 2.8 Items in Schedule of Quantities**PSA 2.8.1 PRINCIPLE**

In the fourth line of SANS 1200 A, sub-clause 2.8.1, after the word "specification", add:

Page 351

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

"or in the measurement and payment clause of the standard specification, particular specification or project specification".

Add the following to SANS 1200 A, sub-clause 2.8.1:

"Items which are designated as provisional quantities or provisional in the Bill of Quantities are intended to provide for works, the need or extent of which cannot be forecast. Work scheduled as such shall only be undertaken on the written instruction of the Employer's Agent and, where applicable, shall be paid for at the tendered rate or in the absence of rates shall be valued in accordance with Clause 6.4 of the GCC (2015) The Bill of Quantities shall not be used for ordering purposes and no liability or responsibility shall be admitted by the Employer's Agent in respect of materials ordered or procured by the Contractor on the basis of the Bill of Quantities."

PSA 2.8.2 PRELIMINARY AND GENERAL SECTION

Add the following to SANS 1200 A, sub-clause 2.8.2:

"In addition, the sum tendered shall cover all initial costs incurred in complying with the requirements of:

- Contract Specific Data C1.2
- Scope of Work C3.1 to C3.4
- Site Information C4

Facilities for the Contractor shall include all the costs of providing water for construction other than the water required for watertightness testing of water retaining structures. Water for such tests will be measured according to PSG 7.2.5 Watertightness test.

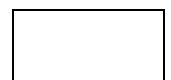
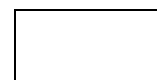
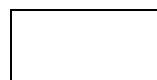
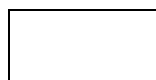
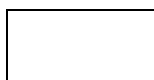
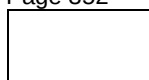
The Contractor is to make his own arrangements with the JOE GQABI DISTRICT MUNICIPALITY for water and sanitation connections. No separate payment will be made for the cost of constructing and maintaining the temporary access roads, the removal of the roads and the reinstatement of the areas, on completion. The sums tendered for in the Bill of Quantities shall include all such costs."

Add the following new sub-clause to SANS 1200 A, sub-clause 2.8:

PSA 2.8.3 TIME-RELATED ITEMS

"The Contractor shall tender a lump sum in the Bill of Quantities to cover his time-related establishment costs. The amount tendered and paid shall be full compensation to the Contractor for:

- i) The maintenance of his whole organization as established for this Contract.
- ii) The maintenance of all insurances, indemnities and guarantees required in terms of the Conditions of Contract or Tender, where applicable.
- iii) Compliance with all general conditions and requirements which are not specifically measured elsewhere for payment in these Contract Documents.



The Contractor shall tender a lump sum for the above-mentioned items. Payment of the lump sum shall be made monthly in compliance with the method laid down in Sub-clause 8.2.2 of SANS 1200: A. Provided that the total of the monthly amounts, so paid for the item, is not out of proportion to the value of the progress of the works as a whole.

The Contractor will not be paid Time-Related Preliminary and General Charges for any Special Non-Working Days, which shall be deemed to have been allowed for in his rates. The payment to the Contractor for Time-Related Items shall be adjusted in accordance with the following formula in the event of the Contract being extended by means of a variation order:

$$\frac{1 \times 2}{3}$$

- 1) Sum of Tendered amounts for Time Related Items
 - 2) Extension of Time authorised by variation order
 - 3) Tender contract period
- * For the purposes of applying this formula "Extension of Time" will exclude the Contractor's December/January close-down period, if applicable.

The abovementioned adjustment of the payment for Time-Related Items shall be made in the Completion Payment Certificate and shall be the only payment for additional Time-Related costs, irrespective of the actual period required to complete the Contract including its authorised extensions. In the case of fixed price contracts, the amount by which the Time-Related Items is adjusted shall not be subject to the Contract Price Adjustment formula. In the case of contracts subject to Contract Price Adjustment the amount by which the time-related items are adjusted shall be subject to the Contract Price Adjustment formula. Where extension of time is approved, payment for time-related items shall only be applicable to working days as defined in the Contract."

PSA 3: MATERIALS

PSA 3.1: Quality

Add the following:

All materials used in this Contract shall be the official SANS mark where applicable. All materials shall be new and of the best quality available unless otherwise specified.

Add the following clause:

PSA 3.3: Ordering of Materials

The quantities set out in the Schedule of Quantities have been determined from calculations based on data available at the time and should therefore be considered to be approximate quantities only. The liability shall rest entirely and solely with the Contractor to determine before ordering, the required types and quantities of the various materials required for the completion of the works in accordance with the Specifications and Drawings issued to the Contractor for construction purposes.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Any reliance placed by the Contractor on the estimated quantities stated in the Schedule of Quantities issued for tendering purposes, or measurements made by the Contractor from Drawings issued for tendering purposes only, shall be entirely at the Contractor's risk and the Employer accepts no liability whatever in respect of materials ordered by the Contractor for construction purposes.

PSA 4: PLANT

PSA4.2: Contractor's Offices, Stores and Services

Add the following:

The location of the Contractor's offices, stores and services on site shall be subject to approval by the Engineer.

The Contractor's office is to include an air-conditioned facility with furniture suitable for the use during site meetings, accommodating 15 persons.

The Contractor's designated site agent shall be in possession of a cellular telephone.

No additional payment is made for this service and shall be deemed to be included in the preliminary and general.

PSA4.4 Medical Facilities and Safety Equipment

Add new sub-clause A4.4:

The Contractor shall provide a First Aid cabinet fully equipped and maintained with the minimum contents as listed in the Annexure (Regulation 3) to the General Safety Regulations of the Occupational Health and Safety Act (Act 85 of 1993), to deal with accidents and ailments which are likely to occur during the construction period.

The Contractor shall provide personal safety equipment and facilities as required by Regulation 2 of the General Safety Regulations of the Occupational Health and Safety Act (Act 85 of 1993).

The Contractor shall designate his Safety Officer and Qualified First Aider. The Contractor shall give copies of the minutes of the site safety meetings to the Engineer.

PSA 5: CONSTRUCTION

PSA 5.1: Survey

PSA 5.1.1: SETTING OUT OF WORKS

Substitute the first sentence of Clause 5.1.1 with the following:

The engineer will provide information for setting out of the works.

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Add the following:

The Contractor shall be responsible for the true and proper setting out of the Works from the basic control points shown on the Drawings or indicated by the Employer's Agent Representative on site and shall ensure the correct location of the Works in relation to such points. The Contractor has to ascertain himself of the correctness of the pegs and benchmarks in the field. Any discrepancy shall be immediately reported to the Employer's Agent. Any costs arising from failure to do so, shall be the responsibility of the Contractor. The Employer's Agent may alter any part of the works to suit local conditions if necessary.

Setting out the Works will not be measured and paid for directly, and compensation for the works involved in setting out shall be deemed to be covered by the rates and prices tendered and paid for in the various items of works included under this Contract.

PSA 5.2: Watching, Barricading, Lighting and Traffic Crossings

Add the following:

All open excavations shall be properly demarcated with reflective tape, barricading and any other requirements that the Local Authority has.

The Contractor shall make adequate provision for the supply of temporary warning signs, barriers drums etc to the satisfaction of the Engineer for the entire duration of the contract. Road and traffic signs shall comply with the requirements of the "South African Road Traffic Manual".

PSA 5.3: Protection of Structures

Add the following provision:

The contractor must contact house owners at least two weeks prior to working in close proximity to existing buildings and to inspect buildings before and after work had been completed.

PSA 5.4: Location and Protection of Existing Services

Add the following provisions:

Before underground or excavation work is carried out, the Contractor shall ascertain the presence and position of all services likely to be damaged or interfered with by his activities. He shall obtain up-to-date plans from the Engineer for this purpose, showing the position of services in the area where he intends to work.

As services can often not be reliably located from such plans, the Contractor shall determine the exact position of such services by means of suitable detecting equipment and afterwards by careful hand excavation where necessary in order to expose the services at the positions of possible interference by his activities. This procedure shall also be followed in respect of services not shown on the plans but believed to be present.

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All such services, the positions of which have been located at the critical points, shall be designated as “known” services and their positions shall be indicated on a separate set of Drawings, a copy of which shall be furnished to the Engineer.

While he is occupying the Site, the Contractor shall be liable for all damage caused by him to known services as well as for consequential damage, whether caused directly by his operations or by the lack of proper protection.

PSA 5.7: Safety

Add the following:

5.7.1 CONTRACTOR'S RESPONSIBILITIES

For this contract the Contractor will be the mandatory of the Employer (Client), as defined in the Act (OHSA 1993), which means that the Contractor has the status of employer in his own right in respect of the contract. The Contractor is therefore responsible for all the duties and obligations of an employer as set out in the Act (OHSA 1993) and the Construction Regulations 2014.

Before commencement of work under the contract, the Contractor shall enter into an agreement with the Employer (Client) to confirm his status as mandatory (Employer) for the contract under consideration.

The Contractor's attention is specifically drawn to the following Acts, and particularly to the relevant regulations under each Act, copies of which shall at all times be kept by him on the Site:

- The Factories, Machinery and Building Work Act (Act 22 of 1941)
- The Explosives Act (Act 26 of 1956)
- The Mines and Works Act (Act 27 of 1956)
- The Occupational Health and Safety Act (Act 85 of 1993)

The Contractor is also required to comply with the safety precautions set out in the following publications, copies of which shall also be kept by him on the Site:

- The Code of Practice relating to the safety of men in civil engineering inspection pits and small –diameter vertical shafts. (Transactions of the South African Institution of Civil Engineers, Vol. 2, No. 11, November 1960, obtaining from the Secretary, S.A. Institution of Civil Engineers, PO Box 93495, Yeoville, 2143).
- The Contractor's duties and responsibilities are clearly set out in the Construction Regulations 2014 and are not repeated in detail but some important aspects are highlighted hereafter, without relieving the Contractor of any of his duties and responsibilities in terms of the Construction Regulations.
- Appointment of a Construction safety officer
- Instituting a Health and safety committee in terms of Sections 17 and 18 of the OHSA)

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

- Appointment of Health and safety representatives (in terms of Sections 17 and 18 of the Act)
- Confirming the Contractor's position in relation to the Employer (Client) (Regulation 4)
- The Principal Contractor and Contractor (Regulation 5)
- Supervision of construction work (Regulation 6)
- Risk assessment (Regulation 7)
- Fall protection (Regulation 8)
- Structures (Regulation 9)
- Formwork and support work (Regulation 10)
- Excavation work (Regulation 11)
- Demolition work (Regulation 12)
- Tunnelling (Regulation 13)
- Scaffolding (Regulation 14)
- Suspended platforms (Regulation 15)
- Boatswain's chairs (Regulation 16)
- Material Hoists (Regulation 17)
- Batch plants (Regulation 18)
- Explosive powered tools (Regulation 19)
- Cranes (Regulation 20)
- Construction vehicles and mobile plant (Regulation 21)
- Electrical installation and machinery on construction sites (Regulation 22)
- Use of temporary storage of flammable liquids on construction sites (Regulation 23)
- Water environments (Regulation 24)
- Housekeeping on Construction sites (Regulation 25)
- Stacking and storage on construction sites (Regulation 26)
- Fire precautions on construction sites (Regulation 27)
- Construction welfare facilities (Regulation 28)

The foregoing is a summary of parts of the Construction Regulations applicable to all construction projects.

The Contractor, as employer for the execution of the contract, shall ensure that all provisions of the Construction Regulations applicable to the contract under consideration are complied with to the letter.

Should the Contractor fail to comply with the provisions of the Regulations 3 to 28 as listed in Regulation 30, he will be guilty of an offence and will be liable, upon conviction, to the fines or imprisonment as set out in Regulation 30.

The Contractor is advised in his own interest to make a careful study of the Act and the Construction Regulations as ignorance of the Act and the Regulations will not be accepted in any proceedings related to non-conformance to the Act and the Regulations.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PSA 5.9: Accommodation of Traffic

Temporary traffic signs shall be erected at all diversions.

The number and layout of the traffic signs shall comply with the Site Manual entitled "Safety at Roadwork's in Urban Areas", as published by the Department of Transport.

Traffic signs shall have a yellow background with either a red / black border.

PSA 5.10: Site Meetings

The contractor will be required to attend site meetings, normally held monthly, and progress meetings, to discuss general progress, quality of work, problems, claims, payments, etc.

PSA 6: TOLERANCES

Add new subclause 6.2:

PSA 6.2: General

No guarantee is given that the full specified tolerance will be available independently of each other, and the Contractor is cautioned that the liberal or full use of any one or more of the tolerances may deprive him of the full or any use of tolerances relating to other aspects of the work.

Except where the contrary is specified or then clearly not applicable all quantities for measurement and payment shall be determined from the "authorised" dimensions. These are specified dimensions or those shown on the Drawings or, if changed, as finally prescribed by the Engineers, without any allowances for the specified tolerances.

If the work is therefore constructed in accordance with the "authorised" dimensions plus or minus the tolerances allowed, quantities will be based on the "authorised dimensions regardless of the actual dimensions to which the work has been constructed.

When the work is not constructed in accordance with the "authorised" dimensions plus or minus the tolerances allowed, the Engineers may nevertheless, at his sole discretion, accept the work for payment. In such cases no payment shall be made for quantities of work or material in excess of those calculated for the "authorised" dimensions, and where the actual dimensions are less than the "authorised" dimensions minus the tolerance allowed quantities for payment shall be based on the actual dimensions as constructed.

PSA 7: TESTING**PSA7.1: Principles**

Add the following:

The onus rests on the Contractor to produce work, which conforms in quality and accuracy of detail to the requirements of the Specifications and Drawings and the Contractor must at his own expense, institute a quality control system and provide experienced engineers,

Page 358

Contractor

Witness 1

Witness 2

Employer

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foremen, surveyors, materials technicians and other technical staff, together with all instruments and equipment, to ensure adequate supervision and positive control of the works.

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

The Contractor's attention is drawn to the provisions of the various sections of the Specifications regarding the minimum frequency of the testing that will be required for process control. The Contractor shall at his own discretion increase the frequency where necessary to ensure adequate control.

The Contractor shall submit to the Employer's Agent the results of all relevant tests, measurements and levels indicating compliance with the specifications on completion of every part of the work for examination.

Should the results of any of these tests fall below the required standards as specified in the specifications, the cost of any additional tests required by the Employer's Agent will be to the account of the Contractor.

PSA 7.1.1 CHECKING

Add the following:

The Contractor shall be responsible for all control testing required on the project and costs thereof will be deemed to be included in the tendered rates. This clause covers any additional or control testing as may be required by the Engineer. Any such additional testing shall be undertaken by a nominated independent person /laboratory.

PSA 7.2: Approved Laboratories

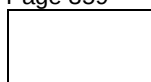
Add the following:

The independent laboratory used by the Contractor and approved by the Engineer shall also be deemed to be an approved laboratory. All tests must be done according to the tests prescribed in the SANS 1200 under the relevant sections.

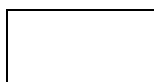
Replace clause 7.4 with the following:

PSA 7.4: Statistical Analysis of Control Tests

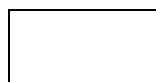
Statistical control methods will not be applied under this contract



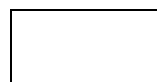
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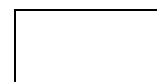
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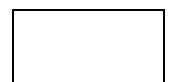
Witness 2



Employer



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PSA 8: MEASUREMENT AND PAYMENT**PSA 8.1: Measurement**

Replace the contents of sub-clause 8.1.2 with the following:

PSA 8.1.2: PRELIMINARY AND GENERAL ITEM OR SECTION

The Contractors tendered sums under Items PSA 8.3 and PSA 8.4 shall collectively cover all charges for:

- Risks, costs and obligations in terms of the GCC(2015) and of this Standardized Specification, except to the extent that provision is made in these Project Specifications to cover compensation for any of these items of work;
- Head Office, site overheads, supervision, profit and financing costs;
- Expenses of a general nature not specifically related to any item or items of permanent or temporary work;
- Providing facilities on site for the Contractors personnel, including offices, storage facilities, workshops; ablutions, for providing services such as water, electricity, sanitation and rubbish disposal, for access roads and all other facilities required, as well as for the maintenance and removal on completion of the Works of the facilities and the cleaning-up of the camp site on completion of the Works; and
- Providing facilities for the Engineer and his staff as specified in SANS 1200 A (if applicable) and these Project Specifications.

PSA 8.2: Payment

Replace the contents of sub-clause 8.2.1 with the following:

PSA 8.2.1: FIXED-CHARGE AND VALUE-RELATED ITEMS (SUB-CLAUSES 8.2.1. AND 8.3)

The tendered sums for the fixed-charge and value related items in the P&G Section of the Schedule of Quantities shall not be subject to any variation if the actual value of the work done exceeds or falls short of the accepted tendered amount within the limit stated in Clause 6.3 of the GCC(2015), or if extension of time for the completion of the works is granted.

Payment for fixed-charged and value-related items will be done in three separate payments as follow:

- 40% of total cost after the Contractor has stabilised and equipped the site office and after the Employer's Agent is satisfied that a substantial start of the actual construction work has been made;
- 40% of total cost after 50% of the actual work (excluding material on site) has been completed and approved by the Employer's Agent;
- 20% of total cost on issue of practical completion certificate by Employer's Agent, according to the guidelines of the GCC (2015).

Replace the contents of sub-clause 8.2.2 with the following:

PSA 8.2.2: TIME-RELATED ITEMS

Subject to the provisions of 8.2.3 and 8.2.4, payment under Item PSA 8.4.1 (time-related item) will be made monthly in equal amounts, calculated by dividing the sum tendered for the item by the tendered contract period in months, provided always that the total of the

Contractor

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monthly amounts so paid for the item is not more than in proportion to the progress of the Works as a whole.

Should the Engineer grant an extension of the time for completion of the Works, the Contractor will be entitled to an increase in the sum tendered for the time-related item, which increase shall be in the same proportion to the original tendered sum as the extension of time is to the original time for completion of the Works.

Payments for such increased amounts will be taken to be full compensation for all additional time-related Preliminary and General Costs that result from the circumstances pertaining to extension of time granted, provided always that the total of the monthly amounts so paid for the item is not more than in proportion to the progress of the Works as a whole.

If the works is completed before the end of the original time period allowed for completion of the works, the tendered amount of a time related item that is influenced by the earlier completion would be reduced similarly.

PSA 8.2.2.1: Standing time costs due to riot, etc. for the contractor's total operation.

The unit for measurement shall be a working day, and a working week shall be held to consist of five working days and a working day of 9 hours, unless otherwise agreed upon.

The sum per working day tendered under this time-related item shall represent that part of the Contractor's costs for standing time of whatever nature.

This payment item will only be applicable to delays in the execution of the Works and additional costs which in the opinion of the Employer's Agent are incurred as a result of riot, commotion, politically motivated sabotage and acts of terrorism, or disorder outside the control of the Contractor.

The provision of this clause shall in no way prejudice the right of the Employer or the Contractor to terminate the Contract under the provisions of Clause 9 of the GCC (2015).

Add a new clause 8.2.5

PSA 8.2.5: PRINCIPLES FOR SAFETY

It is a condition of this contract that Contractors who submit tenders for this contract, shall make provision in their tenders for the cost of all health and safety measures during the construction process.

(a) Safety personnel

The Construction Supervisor, the Construction Safety Officer, Health and Safety Representatives, Health and Safety Committee and Competent Persons referred to in

Clauses PSA 5.7 shall be members of the Contractor's personnel, and no additional payment will be made for the appointment of such safety personnel.

However, should it be necessary to appoint a dedicated Construction Safety Officer in terms of Clause PSA 5.7 on the instruction of the Inspector of the Department of Labour, as ordered by the Engineer, payment will be considered for such appointment.

b) Records and Registers,

The keeping of health and safety-related records and registers as described in PSA 5.7 is regarded as a normal duty of the Contractor for which no additional payment will be considered, and which is deemed to be included in the Contractor's tendered rates and prices.

PSA 8.3: Scheduled Fixed-Charge and Value-Related Items

Replace the sub-clause 8.3.1 with the following:

PSA 8.3.1: CONTRACTUAL REQUIREMENTS

PSA 8.3.1.1: Fixed Preliminary and General Charges Unit : Sum

The sums tendered shall include full compensation for all fixed preliminary and general charges as described in SANS 1200 A sub-clause 8.1.2.2 (c). Payment will be made as described in PSA 8.2.1

PSA 8.3.1.2: Value-related Preliminary and General Charges Unit : Sum

The sums tendered shall include full compensation for all value-related preliminary and general charges as described in SANS 1200 A sub-clause - 8.1.2.2 (c). Payment will be made as described in PSA 8.2.1.

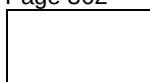
PSA-8.3.2: ESTABLISHMENT OF FACILITIES ON THE SITE

Replace the sub-clause 8.3.2.1 with the following:

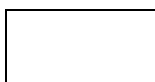
PSA 8.3.2.1: Facilities for Engineer

b) The Contractor to provide one furnished site office for the use of the Employer's Agent and his representative usage to the requirements of SANS 1200 AB 3.2 or similar approved. A monthly time-related provisional sum has been included in the Schedule of Quantities to cover the rental costs of accommodation for the Employer's Agent Representative. These amounts shall be payable by the Contractor to the Employer's Agent according to the provisional sums allowed and upon receipt of a tax invoice for such amounts.

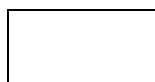
The Contractor shall provide and maintain one carport with waterproof roofing for the duration of the Contract for the use of the Employer's Agent. The floor shall consist of crushed aggregate to alleviate dusty and muddy conditions or similar approved.



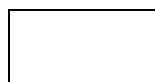
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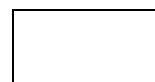
Witness 1



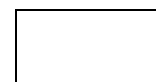
Witness 2



Employer



Witness 1



Witness 2

- c) Cellular Telephone
No cellular telephone has to be provided for the Employer's Agent Representative for the duration of the contract. Measurement and payment shall only be made for the relevant time related item.
- d) Name Board
Number of name boards as per Bill of Quantity will be ordered by the Contractor according to the Employer's Agent's specifications, complete with dimensions, wording and specifications as prescribed, within one month from the commencement date. The Contractor shall be responsible to transport the name board to site and to erect it at the indicated position on suitable supporting posts. The Contractor shall remove the name board completely from site after construction is completed before the last payment certificate shall be approved.

Add the following additional sub-item:

Parking bay (1) Unit: Sum

Air Conditioning Unit..... Unit: Sum

The sum tendered shall cover all costs as specified in Sub-clause 8.3.2.3 of SANS 1200 A to provide the facility as specified in Clauses PSA 8.3.2.1.

PSA 8.4: Scheduled Time-related Items

Replace the following sub-clauses:

PSA 8.4.1: TIME-RELATED PRELIMINARY AND GENERAL CHARGES ..UNIT: SUM

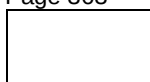
The sum tendered shall include full compensation for all time-related preliminary and general charges as described in SANS 1200 sub-clause 8.1.2.2 (c). Payment will be made as described in PSA 8.2.2.

The Contractor shall tender a lump sum in the Schedule of Quantities to cover his time-related establishment costs. The amount tendered and paid shall be full compensation to the Contractor for:

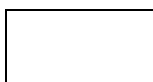
- (i) The maintenance of his whole organization as established for this Contract.
- (ii) The maintenance of all insurances, indemnities and guarantees required in terms of the GCC(2015) or Tender where applicable.

Compliance with all general conditions and requirements, which are not specifically, measured elsewhere for payment in these Contract Documents. The Contractor shall tender a lump sum for the abovementioned items.

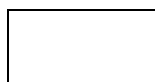
Payment of the lump sum shall be made monthly in compliance with the method laid down in Sub-clause 8.2.2 of SANS 1200:A.



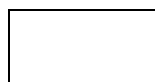
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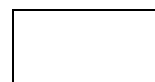
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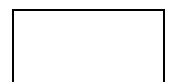
Witness 2



Employer



Witness 1



Witness 2

The Contractor will not be paid Time-Related Preliminary and General charges for any Special Non-Working Days, as stipulated in the Appendix, which shall be deemed to have been allowed for in his rates.

PSA 8.4.2: OPERATION AND MAINTENANCE OF FACILITIES ON SITE

The tendered sums for the fixed-charge and value related items in the P&G Section of the Schedule of Quantities would not be subject to any variation if the actual value of the work done exceeds or falls short of the accepted tendered amount within the limit stated in Clause 6.11 of the GCC (2015).

PSA 8.4.2.1: Facilities for the Engineer

Add the following additional sub-item:

a) Cellular Telephone

No cellular telephone has to be provided for the duration of the contract. However, the contractor is responsible for costs up to R1 000.00/month all-inclusive.

b) Name boards

Name boards shall be maintained for the duration of the Contract.

c) Survey Assistants and Materials

The contractor shall provide survey equipment on the site from the commencement to the completion of the works, which shall also be for the use of the Employer's Agent and his representatives. A list is given in PSAB 5.7.

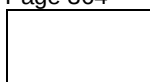
d) Hotel or other Accommodation or office required for the Employer's Agent Representative.

These items will include the cost of rented office accommodation and the provision of telecommunication facilities to the Employer's Agent. The Contractor will be responsible for this prime cost items to the amount of R10 500.00 per month. These services will be provided to the Contractor by the Employer's Agent and will be billed in advance. These items will include all overhead costs, maintenance and insurance with respect to the provision of office accommodation and cellular- and landline telecommunication facilities. This item shall be payable to the Employer's Agent prior to certification of the second construction payment certificate.

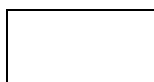
Administrative assistance to the Contractor

This item will entail the pension of administrative assistance to the Contractor by the Employer's Agent and will include assistance relating to the:

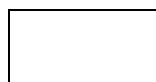
- Calculation and determination of project quantities;
- Compilation of construction payment certificates; and
- Copy and submission of construction payment certificate.



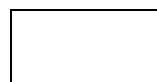
Contractor



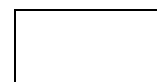
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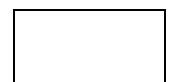
Witness 2



Employer



Witness 1



Witness 2

The Contractor will be responsible for this prime cost item to the amount of R7 500.00 per month. This item will be billed in advance and will be payable to the Employer's Agent prior to certification of the second construction payment certificate. This item will include all computer related / electronic work, facsimiles, printing and copying as well as travelling and time based work in this instance.

e) Health and Safety Inspections on Site

This item will include the provision of Health and Safety Inspections on Site by a certified Health & Safety Office under the auspices of the Employer's Agent. The Health and Safety Officer will ensure compliance the Contractor with the OHS Act and he will have the authority to stop construction work on Site will be responsible for this prime cost item to the amount of R9 500.00 per month. This service will be billed in advance and the item shall be payable to the Employer's Agent prior to certification of the second construction payment certificate.

f) Environmental Management Plan Audits

This item will include the provision of Environmental Management Plan (EMP) Audits on Site by an Environmental Control Officer (ECO) under the auspices of the Employer's Agent. The ECO will monitor compliance of the Contractor with the EMP and will be responsible for this prime cost item to the amount of R12 000.00 per month. This service will be billed in advance and the item shall be payable to the Employer's Agent prior to certification of the second construction payment certificate.

The sums tendered shall cover all costs as specified in Sub-clause 8.4.2.3 of SANS 1200 A and 5.5 of SANS 1200 AB to operate and maintain these facilities.

PSA 8.5: Sums stated Provisionally by Engineer

Add the following sub items:

c) Additional land survey

(i) Additional land survey ordered by Engineer Unit: Prov. Sum

(ii) Percentage charges and profit on (c)(i) Unit: %

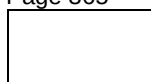
The provisional sum provided for the cost of additional survey for the duration of the Contract. The sum shall only be expended as required and approved by the Engineer.

d) Additional tests

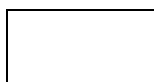
(i) Provisional sum for additional tests ordered by Engineer Unit: Prov. Sum

(ii) Percentage charges and profit on (d)(i) Unit: %

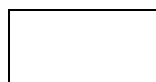
The provisional sum provided for additional tests ordered by the Engineer shall cover the cost of acceptance control tests specifically ordered by the Engineer to his discretion and executed by an approved commercial laboratory.



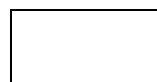
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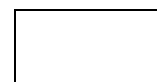
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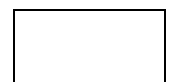
Witness 2



Employer



Witness 1



Witness 2

- e) Selected Sub-Contractors
- (i) Training Consultant (Provisional) Unit: Prov. Sum
- (ii) Percentage charges and profit on (e)(i) Unit : %

- f) Review and approval of Health and Safety Plan
- (i) Review and approval of Health and Safety Plan Unit : Prov. Sum
- (ii) Percentage charges and profit on (f)(i)..... Unit : %

- g) Conduct bi-monthly Safety Audits
- (i) Conduct bi-monthly Safety Audits Unit : Prov. Sum
- (ii) Percentage charges and profit on (g)(i)..... Unit : %

The provisional sum provided for the cost of Selected Sub-Contractors for the duration of the Contract. The sum shall only be expended as required and approved by the Engineer.

- h) Repairs & Refurbishments to existing sewage infrastructure
- (i) Repairs & Refurbishments to existing sewage infrastructure Unit: Prov. Sum
- (ii) Percentage charges and profit on (h)(i) Unit : %

The provisional sum provided for the cost of repairs and refurbishments to existing sewage infrastructure, not damaged by the Contractor for the duration of the Contract. The sum shall only be expended as required and approved by the Engineer.

- j) Community liaison
- (i) Paying PSC members for monthly attending meetings Unit: Prov. Sum
- (ii) Percentage charges and profit on (j)(i)..... Unit : %
- (iii) Community Liaison Officer Unit: Prov. Sum
- (iv) Percentage charges and profit on (j)(iii) Unit : %

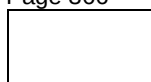
The provisional sum provided for the cost of community liaison including the cost of the project steering committee (PSC) activities for the duration of the Contract. The sum shall only be expended as required and approved by the Engineer.

- k) Appointment of a Construction Health and Safety Officer
- (i) Appointment of a construction Health and Safety Officer Unit: Prov. Sum
- (ii) Percentage charges and profit on (k)(i)..... Unit : %

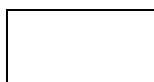
The stated provisional sum shall be employed to cover the cost for the appointment of a full-time or part-time dedicated Construction Health and Safety Officer as directed by an Inspector of the Department of Labour, and as ordered by the Engineer.

Should the Construction Health and Safety Officer be selected from the Contractor's own personnel, payment will only be considered for proven competence.

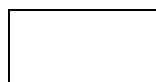
Additional cost claimed by the Contractor due to the additional duties of the appointee. and approved by the Engineer.



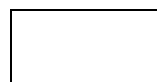
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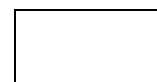
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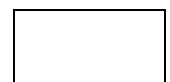
Witness 2



Employer



Witness 1



Witness 2

- l) General Compliance with the Environmental Management Plan (EMP)
- (i) Contractor's general compliance to the EMP Unit: Sum
- (ii) Percentage charges and profit on (k)(i) Unit : %
- The sum tendered is for the Contractor's general compliance to Environmental Management Plan (EMP), the specifications for which are stated in C3.1.17

Failure to provide any item or comply with any instruction of the Responsible Person will be cause for non-payment of the whole sum and for ordering the cessation of works.

- m) Provision for total de-establishment and re-establishment within 24 months at the instruction of the Engineer Unit: Prov. Sum
- The provisional sum provided for the cost of de-establishment within a 24 month period on instruction by Engineer. The sum shall only be expended as required and approved by the Engineer.

- n) The provision of PPE for the Engineer Unit: Prov. Sum
- The provisional sum provided for provision of Personal Protective Equipment (PPE) for the Engineers' use and allocation. The sum shall only be expended as required and approved by the Engineer.

PSA 8.6: Prime Cost Items

Add the following sub-paragraph:

PSA 8.6.1: OPERATIONAL AND MAINTENANCE TRAINING OVER CONSTRUCTION PERIOD (PROVISIONAL)

Payment for the operational and maintenance training shall be at the tendered day work rates for the months worked. Appointment of training facilitators by the Contractor shall only be made on approval by the Engineer.

- a) Artisans to do maintenance on bulk lines Unit: Month
- (i) Handling Costs and profit in respect of sub item (a) Unit: %
- b) Plumbers Unit: Month
- i) Handling Costs and profit in respect of sub item Unit: %

PSA 8.7: Daywork

Add the following sub-paragraph:

PSA 8.7.1: PROVISIONAL SUM FOR THE PROVISION OF TECHNICAL SUPPORT ON SITE/CONSTRUCTION MONITORING TO ASSIST THE CONTRACTOR

- a) Generic Skills

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

- | | | |
|------|---|----------------|
| (i) | Training Costs | Unit: Prov Sum |
| (ii) | Handling cost and profit in respect of a(i) | Unit: % |

b) Appointment of local student trainees

- | | | |
|------|--|----------------|
| (i) | Appointment of trainees for the duration of the contract..... | Unit: Prov Sum |
| (ii) | Management and Support costs and profit in respect of b(i) | Unit: % |

Expenditure under items (a)(i) and (b)(i) shall be made in accordance Clause 6.6 of the GCC(2015).

The tendered percentage under items (a)(ii) and (b)(ii) shall include full compensation for the handling costs of the Contractor and the profit in connection with his duties.

PSA 8.8: Temporary Works

NB: The Contractors obligation under this section shall not be measured and paid for directly (except as hereinafter provided for) and compensation for the work involved in complying with these obligations will be deemed to be covered by the rates and amounts tendered for the various items of work included under the contract.

PSA 8.8.2: ACCOMMODATION OF TRAFFIC UNIT: LUMP SUM
Add the following to 8.8.2

The rate shall cover all costs pertaining to the provision, erection, moving, re-erection and maintenance of all temporary barricades, road signs, lights, flagmen, etc. as required for the guarding and protection of the Works as well as all other costs to accommodate the traffic during construction.

Where the new works interferes with the existing roads, the Contractor shall construct these sections of the works under traffic. The work will involve catering for the safe and easy passage of public traffic in all weather, both day and night for the full traffic control and signposting.

The Contractor may alternatively make his own arrangement for detours to be constructed, all subject to the Engineers approval.

All temporary road signs, devices, sequences, layouts and spacing shall comply with the requirements of the Road Traffic Act, 1996 (Act 93 of 1996), the National Road Traffic Regulations, 2000, the South African Road Traffic Signs Manual and the requirements of the relevant road authority. All temporary traffic control facilities shall also comply with the guidelines set in SA Road Traffic Signs Manual, Volume 2, Chapter 13: Road works Signing, (SARTSM, June 1999, obtainable from the Government Printer, Pretoria)

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PSA 8.8.5: COST OF SURVEY IN TERMS OF THE LAND SURVEY ACT

Replace the items in 8.8.5 with the following:

The tendered rate shall cover all costs pertaining to setting out the works and for the provision of as-built survey data by the Contractor, showing coordinated locations and elevations for all items of construction. The Contractor will be responsible for the accuracy of the as-built survey data provided to the Engineering Representative. The as-built survey data is to be provided electronically to the Engineering Representative in a format that has been approved by the Engineer.

Add the following clause:

PSA 9: DRAWINGS**PSA 9.1: Submit Detail As-Built Drawings of Existing Services and Adjustments to Construction Drawings**

The Contractor will be responsible for the submission of all as-built drawings of all existing services intersecting pipeline trenches as well as any applicable adjustments to the construction drawings. The lump sum tendered shall include full compensation for all information in the possession of the contractor as required above in order to complete the as-built drawings must be submitted to the Employer's Agent Representative before a certificate of completion will be issued for the works.

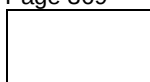
PSA 9.2: Detailed Setting Out of the Work

The contractor will ensure that all the works be set out from existing survey beacons by a registered surveyor. The sum tendered shall be regarded as inclusive of all related survey work on site.

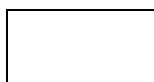
The Employer's Agent will provide survey beacons (of adequate type and in sufficient quantity) as benchmarks. From information provided on drawings issued by the Employer's Agent, the Contractor shall be responsible to provide all positions and levels, of all intermediate points required for proper control of the works.

As benchmarks may be disturbed during the execution of the works, all levels and setting out pegs shall be referred to at least two bench marks. The contractor will ensure that all works are set out from existing survey beacons by a professional registered land surveyor. The setting out data, including the elevation (obtain x, y, z coordinates) from these pegs shall be submitted to the Employer's Agent evaluate final natural ground levels (NGL) prior to the commencement of excavations. In the case of deviation from the original pipe route for whatever reason, the contractor will at his own cost survey the new proposed route, and submit the data to the Employer's Agent for approval.

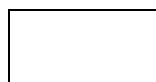
Preservation and replacement of beacons and pegs will be subject to the Land Survey Act, 1927 (Act No 9 of 1927).



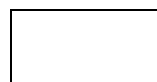
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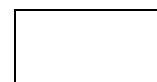
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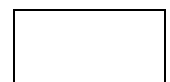
Witness 2



Employer



Witness 1



Witness 2

PSA 9.3: Adjusted Payment for Time-Related Items

The payment to the Contractor for Time-Related Items shall be adjusted in accordance with the following formula in the event of the Contract being extended by means of a variation order:

Sum of Tendered amounts for:

Time Related Items x Extension of Time authorised by variation order divided by the Tender contract period

*For the purposes of applying this formula "Extension of Time" will exclude the Contractor's December/January close-down period, if applicable.

The abovementioned adjustment of the payment for Time-Related Items shall be made in the Completion Payment Certificate and shall be the only payment for additional Time-Related costs irrespective of the actual period required to complete the Contract including its authorised extensions.

In the case of fixed price contracts, the amount by which the Time-Related Items is adjusted shall not be subject to the Contract Price Adjustment formula.

In the case of contracts subject to Contract Price Adjustment the amount by which the time-related items are adjusted shall be subject to the Contract Price Adjustment formula.

PSA 9.4: Compile and Submit Health and Safety Plan

The lump sum tendered shall include full compensation for the provision and maintenance of a Health and Safety Plan, risk assessment, permit applications and notifications as called for in the Act and Regulations.

Eighty percent (80%) of this amount will be paid when an approved Health and Safety Plan has been achieved. A further 10% will be paid when the value of work certified by the Employer's Agent exceeds one half of the tender price and the remaining 10% will be payable upon issue of a completion certificate.

PSA 9.5: Compliance with OHS Act and Regulations

(Including the Construction Regulations 2014) Unit: Sum

The tendered sum shall include full compensation to the Contractor for compliance with all the requirements of the OHS Act and Regulations (including the Construction Regulations 2014) at all times for the full duration of the Contract inter alia of the following:

- Provision and maintenance of Health & Safety File;
- Provision of construction supervisors and safety officers;
- Health and Safety training for employees and subs;

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

- Provision of protective clothing;
- Provision of safety fences, signs and barricades; and
- Scheduling of monthly safety meetings and providing monthly reports accordingly, etc.

This sum will be paid to the contractor in equal monthly amounts subject to proper/substantial compliance.

PSA 9.7: Control of Water

The Contractors are warned that the water table might be high due to the location of the construction site, fact that this site is situated in a high rainfall area and considering that the construction period may run into rainy season.

The Contractor shall at all times and in all respects be responsible for the handling of stormwater from higher-laying areas above the Works and for the handling of any sub-surface water especially in excavations for terraces and trenches that may affect the Works and for the handling of all spoiled water when disconnecting existing water connections or valves. All payments to be made in this regard and all costs related thereto, shall be deemed to be included in the relevant items that are included in the Schedule of Quantities.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

SANS 1200 AB: ENGINEER'S OFFICE**PSAB 3: MATERIALS****PSAB 3.1: Nameboards**

Substitute the first paragraph of Clause 3.1 with the following.

The Contractor shall supply and erect, at approved sites, two nameboards that shall comply as regards to size, painting, decorating and detail, with the municipalities standard name board. A drawing of the details is part of the drawings for the tender. The nameboards shall be erected, plumb and level, in the position as directed by the Engineer.

PSAB 3.2: Office Building(s)

The Contractor shall provide and erect one office for the Engineer in accordance with AB3.2, in the position indicated by the Engineer.

- A concrete floor will be permitted for the office provided that it is covered with linoleum.
- All windows in the office shall be fitted with blinds and burglar proofing over the entire glazed area, and with fly screens over the openings.

In addition to the furnishings specified in AB3.2, the following facilities shall be provided for the office:

1 x plan cabinet (steel),

1 x steel file cabinet with 4 drawers

1 x a lockable upright steel cabinet with three shelves

1 x a steel filing cabinet with four drawers;

4 x 15 A power sockets on uninterrupted power supply

1 x 110 l refrigerator

1 x Air conditioner for warm/cool air, with a cooling capacity of at least 2,0 kW

1 x Generator or battery backup for uninterrupted power supply

On completion of the Works, the building and fittings shall revert to the Contractor who shall remove them from the Site.

PSAB 3.3: Latrine and Ablution Facility

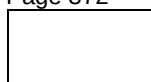
The Contractor shall provide, maintain and service one ablution room for the exclusive use of the Engineer.

This room shall be constructed as specified for the Engineer's office but shall be at least 4 m² in size and fitted with one flush toilet and one hand washbasin.

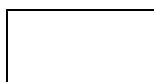
PSAB 3.4: Conference room

The Contractor shall provide and erect a conference room, measuring 4 m x 6 m, which shall be provided with furnishings as specified:

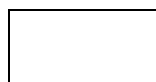
- Shelving of total length 3 m and of nominal width 300 mm,



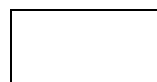
Contractor



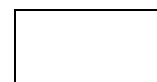
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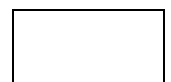
Witness 2



Employer



Witness 1



Witness 2

- an acceptable blind on each window,
- acceptable lighting,
- air-conditioning with heat and cooling function,
- 1 x trestle table 3,5 m long x 1,5 m wide x 0.75 m high, with a smooth surface,
- 10 x strong wooden chairs, and
- 4 x 15 A power sockets on uninterruptable power supply.

On completion of the Works, the building and fittings shall revert to the Contractor who shall remove them from the Site.

PSAB 3.5: Protective Clothing

The Contractor shall provide and replace when necessary six sets of safety helmets and rubber wellington boots (of sizes as required) to members of the Engineer's site staff and his visitors.

PSAB 4: PLANT

PSAB 4.1: Telephone

Substitute AB4.1 with the following:

The contractor shall supply the engineer with a cellular telephone service (two units on minimum call 500 minutes and 2 GB of data per month to be top-up if necessary) for the exclusive use of the Engineer and engineer's representative for official purposes for the duration of the contract.

The contractor shall settle the accounts for all costs of supply, rental and telephone calls and data cost during the construction period.

PSAB 4.2: Computer and Printer/Photocopier

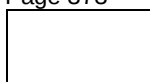
Add new sub-clause AB4.2

The contractor shall provide (and maintain), for the sole use of the Engineer, two laptop computers conforming to the following minimum specification:

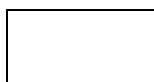
- OS Windows 11 or later
- Processor Core i7 -6200U or similar
- 1 TB Solid state Hard drive,
- Memory 16 GB
- External hard drive of 1 TB for back-up
- Preloaded with the following software:
- Microsoft Office (Word, Excel and Presentation)
- Microsoft Projects
- CAD software

The contractor will pay all licence fees necessary to keep the programs up to date for the construction period.

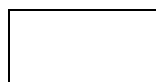
The contractor shall provide, maintain and service one A3 size colour photocopying/scanning/ printer, cartridges and adequate supply of paper (A4 and A3) for the sole use of the Engineer.



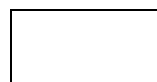
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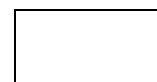
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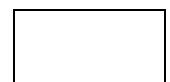
Witness 2



Employer



Witness 1



Witness 2

PSAB 4.3: Site Vehicle

Add new sub-clause AB4.3

The contractor shall provide a covered 4 x 2 (2-wheel drive) light delivery vehicle for the duration of the period of construction and until one month after the issue of the Certificate of Completion for the exclusive use of the Engineer on site and off site for such trips as may be necessary for the supervision of the Contract, and for commuting of the Engineer's site staff to their place of residence.

The vehicle shall not have done more than 10 000 km at the beginning of the Contract, include an air-conditioning and radio.

The vehicle shall have a load capacity of at least 1 000 kg with an engine capacity of at least 2 000 cc. The vehicle shall be licensed and insured (comprehensive insurance) and shall carry all necessary statutory permits. The vehicle shall not carry any advertisement of logo but will be branded as a construction vehicle with an orange rotating light. The vehicle shall remain the property of the Contractor who will be responsible for its maintenance including the provision of fuel and oil as necessary.

PSAB 4.4: Parking Facilities

A lean-to carport for two cars, giving protection from the sun, wind and rain, and with a ground surface that is neither dusty nor muddy, shall be provided in a position adjacent to the Engineer's office for the exclusive use of the Engineer.

PSAB 4.5: Medical Facilities and Safety Equipment

The Contractor shall make the first aid services and such personal safety equipment and facilities as are required in terms of PSA4.4, available to the Engineer and his site staff.

PSAB 4.6: Accommodation for the Engineer's Staff

The Engineer will locate suitable accommodation for the Engineer's staff which shall be leased in the name of the Contractor. The period of the lease shall extend until the end of the month in which the Completion Certificate is issued. The house shall be situated in the residential area of Maclear or in acceptable surrounding areas and shall comprise as a minimum:

- Lounge/dining room
- 3 x bedrooms,
- Kitchen,
- Bathroom(s) with minimum a toilet, shower and handwash basin
- Servants quarters with toilet
- Garage for one car.

the net area of first three items shall be at least 80 m².

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PSAB 5: CONSTRUCTION**PSAB 5.1: Nameboards**

Add the following to AB5.1:

The nameboards shall be erected within 2 weeks of the commencement date of the contract and shall be placed at the position indicated by the Engineer and will be maintained throughout the construction period. Any damage to these boards shall be repaired within fourteen days of a written instruction issued by the Engineer. No payment shall be made in terms of the contract prior to the erection of the name board.

PSAB 5.3: Key Personnel

Add the following paragraph to AB5.3

The Contractor shall inform the Engineer of the person whom he has charged with the duties with respect to the Site in terms of the Occupational Health and Safety Act and the person(s) who are in possession of a valid certificate of competency in first aid. The Contractor shall give copies of the minutes of the site safety meetings to the Engineer.

PSAB 5.5: Survey Assistants

Substitute "two or more suitably educated survey labourers" in the first sentence of AB5.5 with "two semi-skilled labourers with relevant experience."

The Engineer's Representative will occasionally need the assistance of a survey labourer to help with testing, survey, etc., envisaged at approximately 8 hours (non-consecutive) per week.

PSAB 5.6: Site Instruction Book

Add new sub-clause AB5.6:

Throughout the construction period the Contractor shall supply a carbon quadruplicate book as a site instruction book.

This book shall be kept on Site and shall be accessible to both the Contractor and the Engineer at all times. It shall be used:

- a) by the Contractor for providing the Engineer with any information regarding the construction of the Works which may be requested, and giving notification in writing of inspections, drawings, etc. required by the Contractor, and
- b) by the Engineer for the purpose of writing day-to-day instructions and confirming any verbal information or instructions given to the Contractor.

One copy of each note issued shall remain in the book, one copy to the contractor and one copy to the Engineer Representative.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PSAB 5.7: Survey Equipment*Add new sub-clause AB5.7:*

The Contractor shall provide the following survey equipment for use by the Engineer:

- a) 1 x tacheometer / total station capable of reading to 20 seconds of arc, with tripod,
- b) 1 x engineer's automatic level with tripod,
- c) 2 x tacheometer staffs with staff bubbles,
- d) 2 x ranging rods,
- e) 1 x builder's spirit level of length 900 mm
- f) 1 x steel tape of length 30 m and 100 m,
- g) 1 x pocket tape of length 5 m,
- h) 1 x steel level transfer plate,
- i) 1 x rectangular mirror, 300 mm x 225 mm, mounted on protective backed frame,
- j) 1 x elliptical mirror, 225 mm x 150 mm, mounted on protective backed frame,
- k) 1 x elliptical mirror, 150 mm x 100 mm, mounted on protective backed frame,
- l) 2 x LED Lenser T7.2 torch (Water-resistant, >250 m beam,>300 lumens), or similar with spare batteries or rechargeable, and
- m) all steel and wood pegs, paint, concrete, hammers, picks, etc., that the Engineer may require.
- n) Steel pegs, shovels, picks etc. which the Engineers Representative may require during the contract;
- o) One complete Troxler test unit, with proof of recent calibration.
- p) 2 way radio communication

The Contractor shall provide proof, at the start of the Contract, that the tacheometer / total station and level have been serviced by an acceptable institution and shall, throughout the period of construction, service and maintain all survey equipment and shall insure same and indemnify the Employer and the Engineer against all claims for loss, breakage or theft of such equipment.

The tacheometer / total station, automatic level and staffs may be shared by arrangement between the Contractor and the Engineer, but the other instruments shall be provided for the exclusive use of the Engineer.

PSAB 8: MEASUREMENT AND PAYMENT**PSAB 8.1: Telephone**

Notwithstanding the requirements of Subclause AB5.4, the Contractor shall be responsible for the costs of supply and maintain of the contracts as described in Subclause PSAB4.1 for the full construction period.

The provisional sum under item A.2.2.4 of Section A.3 in the bill of quantities provides for payment of the cost of calls/data that exceeds the prescribe amount.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PSAB 8.2: Computer and Printer/Photocopier

The provision of the laptop computer will be paid by a lump sum. The sum shall cover the cost of provision, installation (printing / scanning) and final removal of the computer, all accessories and the necessary software as listed. The cost of installation and usage of the printer/photocopying machine will be deemed to be included in the sums tendered for Items A.1.4. The rate for the maintenance of the computer and printer/photocopier shall cover the cost of all work, parts and labour required to maintain the computer and accessories in good working order and the provision of all paper (one box A4 paper and one rim A3 paper per month) and other consumables.

PSAB 8.3: Vehicle for Engineer

Provision of the vehicle will be paid by a lump sum. The sum shall cover the cost of making available on site the vehicle specified in PSAB4.3.

Time related costs will be measured by the month. The rate shall cover all time related costs such as interest on capital employed, depreciation, insurances of vehicle, etc.

Operation of the vehicle will be measured by the distance over which the vehicle is used by the Engineer as registered on the vehicle's odometer. The rate shall cover all cost of servicing, maintenance and repairs (as necessary) to the vehicle, providing fuel, tyres and lubricants, and the provision of an alternative vehicle if required.

PSAB8.4 Accommodation for the Engineer's Staff

All costs of providing accommodation for the Engineer's staff, including all charges for domestic electricity and water consumed and any related deposits required by the Local Authority, shall be paid by the Contractor. The Contractor shall arrange with the respective parties to have the accounts forwarded directly to him and shall settle the accounts forthwith. Payment will be made monthly under item A.2.2.9.

PSAB 8.5 Survey Assistant..... hrs

Payment for the survey assistant shall be at the tendered day work rates for the hours worked in assisting the Engineer's Representative. No payment shall be made for the survey equipment all costs shall be deemed to be covered by the rates tendered for the Contractor's facilities. No payment shall be made for the survey equipment or survey assistant and all costs shall be deemed to be covered by the rates tendered for the Contractor's facilities.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

SANS 1200 C: SITE CLEARANCE**PSC 1: SCOPE****PSC 3: MATERIALS****PSC 3.1 Disposal of Material**

Delete the first two sentences of this clause and replace with:

“Debris arising from clearing operations or from the demolition of existing structures that are not suitable for re-use in the works or for landscaping in areas designated by the Engineer, shall be removed by the Contractor and disposed of at the approved tip site. Transport of such material shall not be paid separately but shall be included in the relevant items for clearing.

The rates tendered shall allow for any fees to be paid at the tip site.”

PSC 8: MEASUREMENT AND PAYMENT**PSC 8.2.1 Clear and Grub Unit: m²**

The location of disposal or dumping sites shall be the Contractor's responsibility and overhaul shall be payable to the Contractor for loading, temporary and dumping of material thus cleared under this scheduled item.

Unit of measurement for "clear and grub", for road works shall be the square metre, and clearing for sewer and storm-water routes shall be metre.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

SANS 1200 DA: EARTHWORKS (SMALL WORKS)**PSDA 3: MATERIALS****PSDA 3.1 Classification for Excavation Purposes**

Delete Sub-Clause 3.1.1 and 3.1.2 and replace with the following:

PSDA 3.1.1 METHOD OF CLASSIFYING

The Contractor may use any method he chooses to excavate any class of material but his chosen method of excavation shall not determine the classification of the excavation. The Engineer or his Representative will decide on the classification of materials. In the first instance classification will be based on inspection of the material to be excavated and on the criteria given in PSDA 3.1.2 (a) and (b).

PSDA 3.1.2 CLASSES OF EXCAVATION

All materials encountered in any excavation for any purpose including restricted excavation will be classified as follows:

a) Soft Excavation

Any material, which can be removed by bulldozers or backhoes, shall be classified as soft excavation.

Soft excavation shall be material not falling into the category of hard rock excavation.

b) Hard rock excavation

Hard rock excavation shall be excavation in material (including undecomposed boulders exceeding 0.17 cubic metre in individual volume) that cannot be efficiently removed without blasting, wedging and splitting, or hydraulic hammers.

This classification includes materials such as:

- solid unfractured rock occurring in bulk
- solid ledges thicker than 200mm
- igneous rock intrusions
- cemented sedimentary rocks.

c) Unclassified materials

Excavations shall be indicated as excavations in "all materials" for which one uniform rate shall apply, regardless of the nature or quantities of actual materials excavated. Any data on type or quantity or nature of materials given by the Engineer at time of tender shall be for information purposes only and the Engineer and the Employer do not assume any responsibility or liability for the accuracy of this information. The Tenderer shall satisfy himself as to the ground condition to be encountered. No extra payment or claim will be allowed on account of any variation in the nature of the ground condition from that which may have been implied in the tender documents or assumed by the Tenderer in preparing his tender.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PSDA 5: CONSTRUCTION**PSDA 5.2 Methods and Procedures****PSDA 5.2.1 SITE PREPARATION**

Add the following Subclause to 5.2.1:

“Topsoil shall not be stockpiled higher than 2,0m. Care shall be exercised to prevent the compaction of topsoil in any way especially by vehicles travelling over such material.”

Stripped topsoil shall be stockpiled tipped from trucks on sites adjacent to where it has been stripped, which have been approved by the Engineer. Soil stockpiles shall not take the form of windrows, unless this can be placed far enough away from the working area. This is to prevent soil from being spread out or mixed with the other spoil during construction.

Topsoil stripped from different sites shall be stockpiled separately and clearly identified as such. Topsoil obtained from sites with different soil types shall not be mixed.

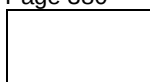
Soil stockpiles shall not be allowed to become contaminated with oil, diesel, petrol, garbage or any other matter, which may inhibit the later growth of vegetation in the soil. After topsoil stockpiling has been completed, the Contractor shall apply soil conservation measures to the stockpiles as and where directed by the Engineer.

Soil shall be stripped to a minimum depth of 300 mm or to the depth of bedrock where soil is shallower than 300 mm. Herbaceous vegetation, overlying grass and other fine organic matter shall not be removed from the stripped soil.

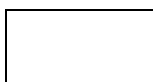
Topsoil shall be placed to a minimum depth of 150 mm over all areas where it has been stripped and over disused borrow pits after construction in those areas has ceased. Topsoil placement shall be done concurrent with construction as soon as construction in an area has ceased. All areas onto which topsoil is spread shall be graded to the approximate original landform with maximum slopes of 1:1,5 and shall be ripped prior to topsoil placement. The entire areas to be top soiled shall be ripped parallel to the contours to a minimum depth of 150 mm.

SANS 1200 DB: EARTHWORKS (PIPE TRENCHES)**PSDB 3: MATERIALS****PSDB 3.1 CLASSES OF EXCAVATION**

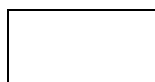
The excavation of material, for the purposes of measurement and payment shall be classified as specified in PSDA 3.1

PSDB 5 CONSTRUCTION**PSDB 5.3 Site clearance**

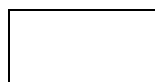
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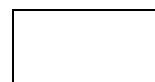
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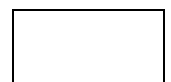
Witness 2



Employer



Witness 1



Witness 2

Add the following to the clause:

"The Contractor shall dispose of all surplus and unsuitable material on a site to be found by him and approved by the Engineer. All costs related to the disposal of surplus material shall be deemed to be included in the tendered rates.

Where pipes are to be laid the Contractor will be allowed to clear and grub a strip 2,5m wide along the centre-line of the trench. No vegetation outside this strip may be damaged without the written approval of the Engineer.

All trees with a girth of 250 mm or a height of 2,5m within this strip, shall be protected and may only be trimmed or removed after a written order by the Engineer."

PSDB 5.6 Backfilling

PSDB 5.6.3 DISPOSAL OF SOFT MATERIAL

Add the following to the clause:

Surplus and/or unsuitable excavated material must be disposed of at a site found by the Contractor and approved by the Engineer.

PSDB 5.6.4 DISPOSAL OF INTERMEDIATE AND HARD ROCK MATERIAL

Add the following to the clause:

Surplus and/or unsuitable excavated material must be disposed of at a site found by the Contractor and approved by the Engineer.

PSDB 7: TESTING

PSDB 7.1 Testing

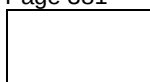
Notwithstanding the contents of Clause 7.1, the Contractor shall bear the cost of all quality control tests regardless of whether the tests indicate acceptable results or not.

The Contractor shall be responsible for the performance of all of the tests described below to satisfy the objectives of each testing phase as determined by the Employer's Agent.

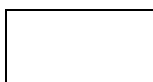
The following are the minimum frequencies for the process control tests to be executed by the Contractor:

- (a) Pipe bedding: one density test on each 10 m of pipe trench.
- (b) Normal trench backfilling: one density test on every second layer for every 30 m of pipe trench.
- (c) Backfilling in areas subject to vehicle loads one test on each layer of 150 mm at each crossing.

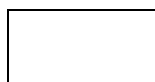
The positions of the minimum number of density tests shall be determined randomly by the Contractor and shall be clearly documented with the results. The results of the tests shall



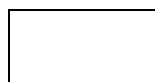
Contractor



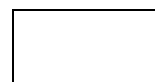
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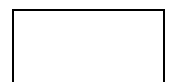
Witness 2



Employer



Witness 1



Witness 2

be submitted to the Engineer and shall prove to the Engineer that the work as a whole was done satisfactorily.

The Engineer could order additional tests, over and above the minimum tests. Payment for these tests will be made under Item PSA 8.5 if the tests indicate that the density is as specified. If any tests fail, the cost of such tests shall be for the account of the Contractor.

If during the contract period of maintenance, the number of leaks and other defects is considered by the Engineer to be more than could reasonably be expected from a well laid pipeline operating under normal conditions, he may order the Contractor to re-test parts or the whole of the pipeline at the Contractor's own expense and no claims for escalation in costs or for whatever other reasons the Contractor might consider to submit claims shall be considered, except where such re-tests are the result from damages caused to the pipeline by the Employer.

PSDB 8: MEASUREMENT AND PAYMENT

PSDB 8.1 Basic Principles

Disposal of surplus and/or unsuitable material will be as specified in PSDB 5.6.3 and PSDB 5.6.4. No additional payment other than the tendered scheduled rates will be made for such disposal of material.

PSDB 8.3 SCHEDULED ITEMS

PSDB 8.3.1 SITE CLEARANCE

Delete the limitation on the girth of trees. The rate for this item shall cover the cost of the removal of all trees, approved by the Engineer, and all obstructions to be expected.

PSDB 8.3.2 EXCAVATION

(a) Excavate in all materials for trenches, backfill, compact and dispose of surplus materials

- Payment for pipeline excavation will be made in three instalments as follows:
- 50 % at completion of excavation, 30 % at completion of backfilling and the final 20 % after final approval which will take account of surface finishing, disposal of all unused material and approval and acceptance of all test results including the hydraulic testing of the pipe as specified.

(b) Extra-over item (a) above

Delete Sub-item (b)(1): Intermediate material will be measured as soft excavation.

(c) Excavate and dispose of unsuitable material from trench bottom

Unsuitable material shall be disposed of at a site approved by the Engineer.

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SANS 1200 G: CONCRETE (STRUCTURAL)**PSG 3: MATERIALS****PSG 3.2 Cement****PSG 3.2.1 APPLICABLE SPECIFICATIONS**

Add the following:

All cement types shall comply with the requirements of SABS ENV 197-1. For this contract only OPC CEM I, Class 42.5, cement shall be used for all water retaining and conveying structures.

PSG 3.2.3 STORAGE OF CEMENT

Add the following:

The grade of concrete shall be as specified on the drawings or schedule of quantities. Cement shall not be kept in storage for longer than four weeks and shall be used in the order in which it has been stored.

PSG 4: PLANT**PSG 4.5 Formwork****PSG 4.5.3 TIES**

Add the following:

Permanent metal ties shall have a minimum concrete cover of 40mm after formwork has been removed.

Tie holes shall be filled with "Durabed" grout supplied by ABE or similar approved. The product shall be prepared to a non-slump consistency, but where no cracking occurs when pressed into a firm ball. Trial mixes shall be made to arrive at the required working consistency.

PSG 5: CONSTRUCTION**PSG 5.1 Reinforcement****PSG 5.1.2 FIXING**

Add the following:

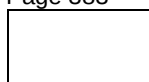
The welding and the use of heat in cutting high tensile deformed bars (Y bars) shall not be permitted without the approval of the Engineer.

PSG 5.1.3 COVER

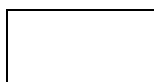
Add the following:

The reinforcement shall be fixed with the minimum cover as specified on the drawings.

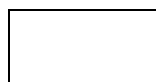
In the case of walls, columns, roof slabs, the minimum specified cover should be attained by one of the following methods, or as approved by the Engineer.



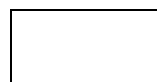
Contractor



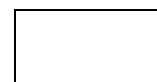
Witness 1



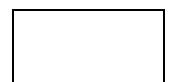
Witness 2



Employer



Witness 1



Witness 2

- by using “cover block” manufactured from dense, strong cement/sand formed in a block with wire ties, cured under water for a minimum period of 7 days.
- by the use of plastic spacers, set in an orientation so that no pockets of air can be trapped beneath them during vibration of the concrete.

PSG 5.2 Formwork**PSG 5.2.1 CLASSIFICATION OF FINISHES**

Notwithstanding sub-clause 5.2.1, finishes shall be classified as rough or smooth, as follows:

(a) Rough

Concealed surfaces and surfaces more than 200mm below final ground level.

(b) Smooth

All surfaces not classified as “rough” in paragraph (a) shall be classified as “smooth”. All exposed areas, unless other indicated, shall be chamfered 20mm x 20mm by means of a fillet fixed to the formwork.

PSG 5.2.5 REMOVAL OF FORMWORK

Add the following:

Removal of forms shall be determined by means of cubes cast with the concrete and cured in accordance with S.A.B.S. 863. The removal shall be carried out under the personal supervision of the Foreman, only after the permission of the Engineer has been obtained and in such a manner that the concrete is not jarred, vibrated or otherwise damaged.

Where test cubes to determine stripping times are not made, the minimum periods which shall elapse between the time of the placing of the concrete and the time of removal of the forms, shall otherwise agree with the Engineer, be in accordance with the table hereunder, where each day covers a full 24 hour period.

Delete Table 2 and replace with the following:

Minimum stripping Times in Days

	CEM I	CEM I	CEM II	CEM II	CEM III	CEM III
Type of structural Member of Formwork	Normal Weather (Above 15° C)*	Cold weather (Below 5°C)*	Normal Weather (Above 15° C)*	Cold weather (Below 5°C)*	Normal Weather (Above 15° C)*	Cold weather (Below 5°C)*
Beam sides, wall or unloaded cols	1	2	2	4	2	6
Slabs, with props left underneath	4	7	5	8	6	10
Beam soffits. Props left underneath	7	12	8	14	10	17
Removal of Slab Props	10	17	10	17	12	21

Page 384

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

Removal of beam Props	14	21	14	21	18	28
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* Average daily temperature of the atmosphere adjacent to the concrete as measured by a maximum and minimum thermometer.

Add a new sub-clause 5.2.6:

PSG 5.2.6 Design of Forms

Forms shall conform accurately to the shape, lines, levels and dimensions of the concrete as shown on the drawings.

The design of formwork and supports shall be the responsibility of the Contractor.

Forms shall be designed as to support their mass, the load exerted by wet concrete and the vibration, construction or other loads that they may be subjected.

All timber shall be free from holes, loose knots, cracks, splits, warps or other defects likely to affect the strength or appearance of the finished structures.

Wedges and clamps shall be used in preference to nails for securing the form components and wire ties or tie bolts in reinforced concrete, and must be capable of removal after use, except as otherwise specified.

PSG 5.5 Concrete

Add the following:

Concrete shall be a homogeneous mixture of cement, water, sand and coarse aggregate and shall be mixed, placed, cured and tested in accordance with section "GA" SABS 1200.

Concrete shall have the following minimum compressive strengths at 28 days, unless otherwise specified.

- Reinforced concrete - 35,0 MPa
- Reinforced concrete - 30,0 MPa
- Reinforced concrete - 25,0 MPa
- Mass concrete - 15,0 MPa
- Blinding concrete - 15,0 MPa

PSG 5.5.1 QUALITY

PSG 5.5.1.1 General

Concrete shall comply with the requirements for strength concrete. (See clause 5.5.1.7)

The maximum cement content for all grades of concrete shall not exceed 450 kg / m³ without the permission of the Engineer

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Add the following new sub-clause:

PSG 5.5.1.8 Sample and Trial Concrete Mixes

The concrete mixes for the grade of strength shall be designed by an approved design laboratory. The Contractor at his own cost shall supply to the laboratory samples of the cement and aggregate he proposes to use for the works. The proposed slumps and proportions of the materials to be used for each grade of concrete shall be submitted to the Engineer for his approval.

No structural concrete shall be placed on the job until the Contractor has satisfied the Engineer as to the suitability of the mixes concerned and the reinforcement checked and signed off.

SANS 1200 GA: CONCRETE (SMALL WORKS)

PSGA 1.1 Scope

This section includes specifications for various aspects of concrete referred to in other sections of the standard specifications.

PSGA 3.2 CEMENT

PSGA 3.2.2 STORAGE OF CEMENT

Cement shall not be kept in storage for longer than four weeks and shall be used in the order in which it has been stored.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

SANS 1200 GB: CONCRETE (ORDINARY BUILDINGS)**PSGB 1: SCOPE**

Add the following clause:

PSGB 1.3 This section includes specifications for various aspects of concrete referred to in other sections of the standard specifications as well as the construction of cement screeds and waterproofing of concrete roof slabs.

PSGB 2: DEFINITIONS

a) General

Add the following definitions:

Waterproofing. Waterproofing materials shall be transported, handled and stored with care and laid strictly in accordance with the manufacturer's instruction. A clean, dry, smooth, firm and structurally adequate base with a fall of at least 1 in 50 (depending on the material selected) is required with drainage to gutters and/or rainwater outlets on roof edges, as relevant. Attention shall be given to the detailed design of openings, projections, gutters, down pipes and finishes to make adequate provision for run-off water and to minimise blockages.

Corners and edges shall be covered or angle-rounded. Run-off over the edges of slabs shall be eliminated as this causes stains to the building. Fillets of 75 x 75 mm shall be provided at upstand corners.

The necessary gradient for waterproof membranes are normally provided on top of structures in low-density screeds and then finished, if necessary, with a cement/mortar topping.

Cement Screeds. The grade of concrete shall be as specified on the drawings or schedule of quantities. Cement shall not be kept in storage for longer than four weeks and shall be used in the order in which it has been stored.

Mechanised plant e.g. scabblers or abrasive blasters must be used for complete removal of all laitance from the existing surface of the floor slab. Dust pollution should be kept to a minimum during these operations. Once the coarse aggregate of the slab is exposed, all dust and debris should be removed, surface thoroughly wetted and maintained for approximately 12 hours. A bond coat (1:1 mix of cement and fine sand) should be spread evenly over the surface using a stiff fibre brush. The screed must be laid and compacted in 1 layer.

Screeds and toppings shall be of sufficient quality to provide a firm base. The following screed characteristics are suggested for waterproofing purposes:

- Compressive strength of at least 25Mpa at 28 days;
- Steel-trowel finish (light);

Page 387

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

- Drying shrinkage of less than 0.2% when tested in accordance with the testing conditions specified in SABS 836;
- Minimum screed thickness of 25mm;
- Maximum moisture content of screeds:
- Applications with a density of less than 500 kg/m³ : 10%
- Applications with a density exceeding 500 kg/ m³ : 7%
- The screed should be cast or sawn into panels that do not exceed 9m² to cater for drying shrinkage and to control cracking.

PSGB 8: MEASUREMENT AND PAYMENT

PSGB 8.2 SCHEDULED ITEMS

Add the following clauses:

PSGB 8.2.11 Cement Screeds 25 mm Screed on Floors Unit: m²

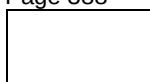
The unit of measurement shall be the square metre of exposed surfaces to be screed.

The tendered rate shall include all costs for supplying, delivering, storing on site, handling, etc of the materials necessary for the screed, including mixing and laying of screeds currents and falls and forming of sundry items such as fillets, etc complete. The tendered rate shall also cover the cost for forming of screeds around outlets, waste and of all scaffolding, temporary supports, hoisting facilities, etc.

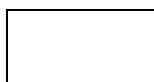
PSGB 8.2.12 Waterproofing of Roof Slabs With Derbigum or Similar Approved Unit: m²

The unit of measurement shall be the square metre of the horizontal and vertical surfaces of waterproofing to the approval of the Engineers. All turn-ups and turn-downs will be deemed to be included in the area measured for the waterproofing and will not be paid for separately.

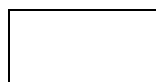
The tendered rate shall include all costs for supplying, delivering, storing on site, handling, moving, installing and fixing the waterproofing system complete with all necessary sundry items, such as flashing strips, dressing waterproofing around pipes and into outlets and channels. The tendered rate shall also cover the cost of cutting and waste and for scaffolding, hoisting facilities, etc.



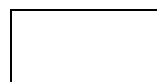
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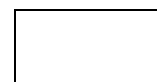
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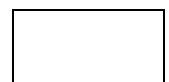
Witness 2



Employer



Witness 1



Witness 2

SANS 1200 L: MEDIUM PRESSURE PIPELINES**PSL 1 SCOPE**

All pipelines in this contract shall be deemed to be medium pressure pipelines.

PSL 3 MATERIALS**PSL 3.4 Steel Pipes, Fittings and Specials**

Delete sub items 3.4.2 and 3.4.3 and replace with the following:

“All steel pipes, fittings and specials, larger than 150mm diameter to be 4.5 mm wall thickness, grade B steel to SANS 719/1971. All steel pipes, fittings and specials, 150mm diameter and smaller to be heavy duty to SANS 62. All bolts, nuts and washers to be stainless steel. All steel pipes, fittings and specials to be Rilsan coated.”

PSL 3.4.4 FITTINGS AND SPECIALS

Cast iron couplings to conform to high pressure couplings Class 5,5MPa.

All bends and specials for the steel pipes shall be manufactured in accordance with the foregoing specification.

Add: “All cast iron fittings to be cement mortar or coated with Rilsan or fusion-bonded epoxy”

Add the following clauses:

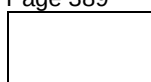
PSL 3.4.5 SITE WELDED JOINTS (STEEL PIPES)

Where the drawings or project specifications require plain ended steel pipes and the plain ends of corresponding specials or loose flanges are to be joined together by welding, this will be done in accordance with American Standard API 1104. The pipe ends are to be prepared in accordance with that Standard. Welding shall generally commence at the top of the joint and proceed downwards. In addition to the root weld, at least two further passes shall be made, none of which is to exceed 3mm in depth.

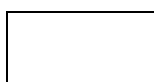
The Engineer shall have the right to specify that Qualification Tests be carried out for each welder employed on the works. No welder shall be employed who has not passed such tests and for whom a recent pass certificate issued by a competent authority cannot be produced.

All field-welded joints are to be tested by radiographic examination or some other approved method in accordance with Sub-Clause 7.2.2.

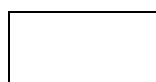
After jointing and testing, the protective lining and wrappings are to be rendered continuous with the same materials as applied to the body of the pipe. Holiday detection tests shall be carried out in the field to ensure continuity of lining and wrapping.



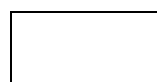
Contractor



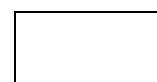
Witness 1



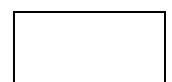
Witness 2



Employer



Witness 1



Witness 2

The prices tendered for pipe laying are to include for any of the above work, which may be entailed apart from inspections carried out by the Employer as per Sub-Clause 7.2.2.

PSL 3.4.6 GASKETS

All flange jointing material shall be approved by the Engineer before erection is commenced. Insertions for flat flange faces shall be of the full flange diameter encompassing the bolts. Insertion for raised flanges shall fit neatly inside the bolt rings.

PSL 3.4.7 CUT PIPES

Cut pipes may be used where required as closure lengths. The cut ends shall be dressed square and to a smooth even finish, which shall not be inferior to that of the ends of uncut pipes. The finished dimensions of ends cut at Site must be within the tolerances applicable to the ends of the particular types of pipe to be laid.

PSL 3.7 Other Types of Pipes

PSL 3.7.1 UPVC

Unless otherwise specified, Class 9, 12 and 16 uPVC piping shall be used. uPVC pipes shall be in accordance with SANS 966-1.

PSL 3.7.2 HDPE

HDPE pipe shall be Class 12, unless otherwise specified and will comply with the ISO standards in terms of manufacture. HDPE pipe shall be in accordance with SANS 4427.

PSL 3.8 Jointing Material

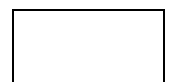
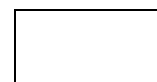
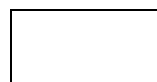
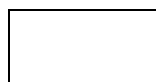
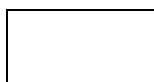
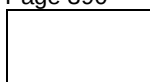
PSL 3.8.3 FLANGES AND ACCESSORIES

Add to sub-clause 3.8.3:

"The insertion piece shall be such as to cover the full face of the flange (i.e. the O/D). Bolts and nuts shall comply with SANS 135. Drilling shall conform to BS4504 Table 16/11"

All flanges shall be installed with bolt holes off-center and symmetrically offset from the vertical center-line of the flange. Flanges shall be installed truly square to the axis of the pipe.

The Contractor shall ensure that the correct jointing materials, i.e. gaskets, bolts and nuts are available when required. Only correct diameters and lengths of bolts and studs shall be used. Flat washers shall be used under all nuts and bolt heads. The length of bolts and studs shall be such that at least two threads protrude from the nut when fully tightened. The threads of bolts, studs and nuts shall be thoroughly cleaned and then coated with a graphite/grease compound immediately prior to assembly.



Flanged fittings shall be so installed that there are no stresses induced into the pipework, specials or fittings by forcing ill-fitting units into position or by bolting up flanges with faces not uniformly in contact with their gaskets over their whole faces.

PSL 3.8.4 LOOSE FLANGES

The following standard shall apply sub clause 3.8.4:

"Bolts and nuts shall comply with requirements of SANS 135".

PSL 5 CONSTRUCTION

PSL 5.1 Laying

PSL 5.1.1 GENERAL

Add to sub-clause 5.1.1

"The centre line of the pipeline shall normally be 2,5m from the road reserve boundary inside the road reserve. The pipeline is to be laid continuously and leaving gaps for fittings will not be allowed.

PSL 5.1.4 DEPTHS AND COVER

Unless otherwise shown on the drawings or instructed by the Engineer, cover to pipes shall be as follows:

- During Construction:

Where construction traffic is liable to cross over pipes, they shall be laid so that there is not less than 0,75m of cover over the pipe. Road crossings shall be constructed after the construction of the road layers has reached the stage where 0,75m cover is available.

- Pipes beneath Verges and Open Spaces:

The tops of pipes beneath verges shall be not less than 0,75m and not more than 1,25m below the final verge level.

- Supply Connection:

The tops of pipes shall not be less than 450mm and not more than 600mm below the final road surface.

- Pipes beneath existing roadways:

The tops of pipes beneath a road shall not be less than 1m and not more than 1,25m below the road level.

PSL 5.6 Valve Chambers

PSL 5.6.1 GENERAL

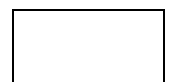
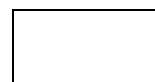
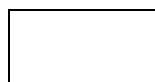
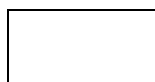
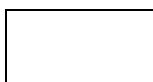
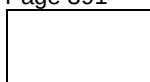
For details read "the Project Drawings."

PSL 5.6.2 CONSTRUCTION OF CHAMBERS

Amend Sub-clause 5.6.2 to read as follows:

PSL 5.10 Disinfection of Potable Water Pipelines

The disinfection of the potable water pipeline shall be as follows:



- The pipeline shall be flushed out with clean water until all sediment and other foreign matter has been removed.
- The pipeline shall then be re-filled with potable water containing 10 mg/litre calcium hypo chloride. Further hypo chloride shall be put into the pipeline at air valve installations to ensure an even distribution throughout the pipeline should this be necessary.

The pipeline should be allowed to stand for 24 hours and samples then taken from suitable scour points. These should contain a chlorine residual of at least 1 mg/litre. Should this not be attained further doses of calcium hypo chloride shall be added to the water.

Add the following new Sub-clause after Sub-clause 5.10:

“PSL 5.11 Connecting to existing work.

All connections to existing work shall be carefully planned in consultation with the Engineer and the Local Authority.”

PSL 6 TOLERANCES

PSL 6.2 Control Points

Add the following:

“Valves shall be located as indicated on the plan layout opposite the boundary peg of the erf, and to within a longitudinal tolerance of 100mm.”

PSL 6.3 Alignment (Plan and Level)

Add to last sentence:

“provided this does not result in a reversal of the grade of the pipeline.”

PSL 7 TESTING OF PIPELINES

PSL 7.3 Standard Hydraulic Pipe Test

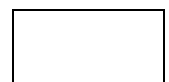
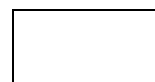
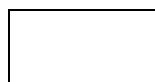
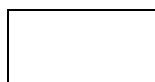
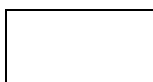
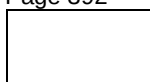
PSL 7.3.1 TEST PRESSURE

All pipes shall for test purposes be assumed to have a working pressure of 600kPA for class 6 pipes, 900kPA for class 9 pipes, 1200kPA for class 12 pipes and 1600kPA for class 16 pipes. Test pressure for field-testing shall be 1.5 times the working pressure. The Contractor shall allow for the testing of pipes in short sections so that the difference in minimum and maximum pipe elevation does not exceed 60m for class 6 pipes, 90m for class 9 pipes, 120m for class 12 pipes and 160m for class 16 pipes.

Add the following sub-clauses:

PSL 7.5 Method of testing

The Contractor shall provide an approved test pump, an accurate water meter, sealed pressure gauge, tested and certified by an independent testing organization, and all other equipment, materials and labour required for the test.



The section of pipeline to be tested shall be clean and closed off at the ends by isolating valves, end caps or approved end-closure pieces. Free ends shall be firmly strutted against solid supports or trust blocks designed to withstand safely 2 times the calculated and thrust under maximum test pressure. It shall be incumbent on the Contractor to establish the need for blank flanges or isolating valve flanges in order to limit leakage rates past gates, blades and seals.

During this initial filling stage, the pipeline joints and all specials, fittings and valves shall be visually inspected for visible leaks and same rectified before proceeding with the test.

The pressure shall be maintained for one hour and if a pressure drop occurs, more water shall be added to reinstate the test pressure and the valve closed again. The quantity of water added shall be measured by recording the readings before and after pumping.

This procedure shall be repeated for a period of 24 hours, with water added at hourly intervals where necessary to reinstate pressure and water meter reading recorded. At the end of the 24-hour period, the aggregate quantity of water required to reinstate pressure over 24 hours shall be determined.

The contractor shall give the Engineer 48 hours written notice of his intention to commence pressure testing and the Engineer may attend and supervise all or any part of tests. All records and recording charts shall be handed to the Engineer as soon as tests over any section have been completed.

All valves, specials, fittings and exposed joints, shall be inspected visually during the 24 hours pipeline test and all visible signs of leaks, sweating and distress shall be reported and attended to without delay.

10% of all welds made in the field shall be tested radiographically by an independent specialist firm. The welds to be tested shall be selected by the Engineer or his representative. The standard of acceptance shall be in accordance with API Standard 1104. Should the welds so tested prove to be unacceptable, they shall be repaired by the Contractor and re-tested. In addition, the two nearest untested welds one on each side of the unacceptable weld shall also be tested radiographically. Should these welds also prove to be unsatisfactory, two further welds shall be tested. Such testing will be repeated until all welds are found to be acceptable.

The cost of testing up to a maximum of 10% of all field welds will be borne by the Employer, but the costs of testing and re-testing over and above that percentage shall be borne by the Contractor.

The Employer shall have the right to witness any and all tests.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PSL 7.6 Remedial Measures

Should the maximum leakage limits as specified be exceeded; the contractor shall determine the position and cause of the leaks and shall take remedial measures at his own expense and to the satisfaction of the Engineer to stop such leaks to ensure the specified degree of water tightness.

If during the contract period of maintenance, the number of leaks and other defects is considered by the Engineer to be more than could reasonably be expected from a well-laid pipeline operating under normal conditions, he may order the contractor to retest parts or the whole of the pipeline at the Contractors own expense and no claims for escalation in costs or for whatever other reasons the Contractor might consider to submit claims shall be considered, except where such re-tests are the result from damages caused to the pipeline by the Employer.

PSL 7.7 Anchor / thrust blocks and pedestals

Dimensions at all anchor / thrust blocks shall be supplied by the Engineer as and when required. The Contractor shall request such information not less than seven (7) calendar days in advance.

In addition to conventional anchor and thrust blocks, where specified, the pipe will be secured on reinforced concrete and steel pipe supports according to the details on the drawings, including all excavations (where applicable), concrete, reinforcing, shuttering, holding down bolts, GMS straps and final benching with a concrete repair mortar.

PSL 8 MEASUREMENTS AND PAYMENT**PSL 8.1 General**

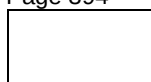
Add the following paragraph:

Payment for the pipes, specials and valves will be made in two instalments as follows: 80% at completion of the laying and bedding of the pipes and the final 20 % after hydraulic testing and approval of the pipeline. No additional payment will be made for installing saddles, temporary end caps or thrust blocks for testing purposes as the cost thereof will be deemed to be included in the relevant scheduled items.

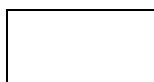
PSL 8.2 Scheduled Items

PSL 8.2.1 SUPPLY, LAY AND BED OF PIPES COMPLETE WITH COUPLINGS
UNIT: M

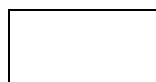
Notwithstanding the provision of sub clause 8.2.4, 8.2.6 & 8.2.7, separate items will not be scheduled for the cutting of pipes. The rates tendered shall include the supply & fixing of extra coupling, supply & installing joints special couplings, and the encasing of joints.



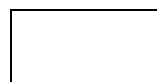
Contractor



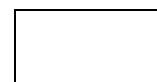
Witness 1



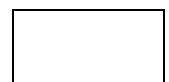
Witness 2



Employer



Witness 1



Witness 2

PSL 8.2.2 EXTRA OVER CLAUSE 8.2.1 FOR THE SUPPLY LAY AND BED OF
FITTINGS AND SPECIALS COMPLETE WITH COUPLINGS

Notwithstanding the provision of sub-clause 8.2.4, 8.2.6 and 8.2.7, separate items will not be scheduled for the cutting of the pipe. The supply and fixing of the extra couplings, supply and installing joints with machined collars and special coupling, and the encasing of joints will therefore be deemed to be included in the rates tendered.

Add the following:

The rate for all uPVC pipes will include all administrative costs and the cost for quality checks on the materials.

The rate for above ground steel pipes will include the cost for all linings and coatings, together with the painting of two layers of heat resistant silicone aluminium re-coatable paint after installation.

PSL 8.2.3 EXTRA-OVER 8.2.1 FOR THE LAYING AND BEDDING OF SPECIALS
COMPLETE WITH COUPLINGS

Add the following:

The rate for all uPVC pipes will include all administrative costs, the transport of materials to site, including handling, storage and the cost for quality checks on the materials.

The rate for above ground steel pipes will include the cost for all linings and coatings, together with the painting of two layers of heat resistant silicone aluminium re-coatable paint after installation.

PSL 8.2.4 EXTRA OVER 8.2.1 FOR THE SUPPLY, FIXING AND BEDDING OF
VALVES

Add the following:

The rate for above ground and inside chambers steel pipes will include the cost for all linings and coatings, together with the painting of two layers of heat resistant silicone aluminium re-coatable paint after installation.

PSL 8.2.5 EXTRA OVER 8.2.1 FOR CUTTING OF PIPE AND THE SUPPLYING AND
FIXING OF THE EXTRA COUPLING

Add the following:

No additional payment will be made for cutting and joining of uPVC and HDPE pipes. The cost on wastage and cutting will be deemed to be included in the rates tendered for in clause 8.2.1. Additional couplings will be measured and paid for separately.

PSL 8.2.9 B) RELAY PIPELINE

Add the following:

The rate tendered shall also include for the additional excavations and backfilling required to relay the pipeline at a deeper level as specified. The rate will also include for the pressure testing of the pipeline after installation.

Add the following additional sub-clause:

PSL 8.2.16 PLACE PIPES, VALVES AND SPECIALS (SHORT PIPE RUNS)

The rate will include all administrative costs, including handling, storage and the cost for quality checks on the materials. The contractor will be required to supply the employer with a schedule for material requirements for the duration of the contract to ensure there are no delays in supply.

The rate for above ground and inside chambers steel pipes will include the cost for all linings and coatings, together with the painting of two layers of heat resistant silicone aluminium re-coatable paint after installation.

PSL 8.2.17 VALVE CHAMBERS

Valve chambers shall be measured as a complete unit. The rate shall cover additional excavation, materials for the construction of the chamber, plant and labour necessary for the complete construction including the assembly of all fittings, valves, pipework and the installation of surface boxes or covers, including handling, storage and the cost for quality checks on the materials.

a) Isolation Valve chamber Unit: No

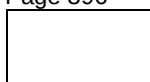
b) Scour Valve chamber Unit: No

PSL 8.2.18 MANHOLES

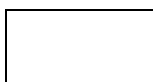
A manholes will be measured as complete units for each type of manhole of overall depth not exceeding 1,5m. The rate shall cover additional excavation, materials for the construction of the chamber, plant and labour necessary for the complete construction including the assembly of all fittings, valves, pipework and the installation of surface boxes or covers. The rate will also include all administrative costs, the transport of materials to site, including handling, storage and the cost for quality checks on the materials Unit: No

PSL 8.2.19 CONNECTION WITH EXISTING PIPE (SPECIFY PIPES TO BE CONNECTED) UNIT: NO

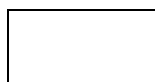
The tendered shall cover the cost to establish the details of the existing pipe and other information required as well as any additional excavations required to provide working space over and above the necessary trench excavation, the labour, equipment, tools, additional materials, incidentals and supervision necessary to cut into the existing pipe, repair and recoat the pipe with an approved fast curing epoxy and to complete the connection. Pipes and pipe fittings will be measured elsewhere in the Schedule of Quantities.



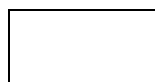
Contractor



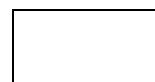
Witness 1



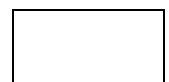
Witness 2



Employer



Witness 1



Witness 2

No additional payment will be made for working in restricted areas.

Add the following additional sub-clause:

PSL 8.2.20 PIPE AND VALVE MARKERS UNIT: NO

The tendered rate shall cover the cost for supply and installation of pipe or valve markers as detailed on the drawings, including all excavations and backfilling as necessary. Pipe markers will be installed at horizontal bends or at least every 200 m. Valve markers shall be installed at all valve locations

Add the following additional sub-clause:

PSL-8.2.21 EXTRA OVER FOR ITEMS PSL 8.2.1, 8.2.2, 8.2.3 AND 8.2.5 FOR
WRAPPING BURIED STEEL PIPELINES WITH PVC-BITUMEN TAPE
UNIT: M²

The area to be wrapped will be measured in square meters, for all affected surfaces. The rate shall cover the cost of provision of materials, plant, labour and supervision to remove and strip all dirt and grease, and apply the product according to the manufacturer's specifications, including the use of the matching primer. The rate shall also include for an overlap of at least 55% on straight pipes and more on bends and other specials.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

SANS 1200 LB: BEDDING (PIPES)**PSLB 2 INTERPRETATIONS****PSLB 2.2 Application**

Add the following to Sub-clause 2.2:

“The object is to provide stable uniform bedding to the pipes, such that the pipe/bedding combination will be adequate to carry the loading imposed without overstressing or deformation of the pipe. Consequently, it is essential that the bedding material be of consistent quality and be suitable for the placing and compacting with the equipment and procedure the Contractor proposes to use.”

PSLB 3 MATERIALS**PSLB 3.4 Selection****PSLB 3.4.1 BEDDING MATERIALS**

It is anticipated that selected fill will have to be obtained from commercial sources.

Notwithstanding the requirements of Clause 3.7 of SANS 1200 DB and Clause 3.4.1 of SANS 1200 LB regarding the use of selective methods of excavation, selective method of excavation and plant shall be adopted by the Contractor as to enable him to avoid burring or contaminating material that is suitable and is required for bedding. The details contained in SANS 1200 LB shall be used for all relevant bedding details as applicable.

Add the following clauses:

PSLB 3.4.3 GENERAL

The contractor shall use selective methods for the purpose of providing bedding materials and shall avoid the use of plant, which could cause the burying or contamination of material. If, in the opinion of the engineer, the grading of the selected material excavated from the trench is not suitable, then the engineer may order the contractor to grade the material by screening. The material to be used as bedding shall pass a 10 mm sieve and can be retained on a 5 mm sieve. Screening, if ordered, will be paid for separately.

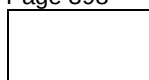
PSLB 3.4.4 CRUSHED STONE BEDDING

Where the conditions on the trench bottom are so wet that the use of selected granular material is not practical, use will be made of 13.2 or 19mm single sized crushed stone material from commercial sources. The use of such stone will be entirely at the Engineer's discretion.

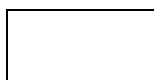
PSLB 6 TOLERANCES**PSLB 6.1 Moisture content and density**

Add the following:

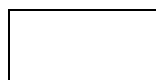
Degree II accuracy shall be applicable.



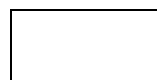
Contractor



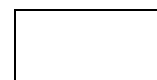
Witness 1



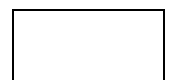
Witness 2



Employer



Witness 1



Witness 2

PSLB 8 MEASUREMENT AND PAYMENT**PSLB 8.1 PRINCIPLES****PSLB 8.1.3 VOLUME OF BEDDING MATERIALS**

Add the following:

"The volume of bedding material shall exclude the volume taken up by the pipe".

PSLB 8.1.5 DISPOSAL OF DISPLACED MATERIAL

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

"Material displaced by the pipe line and by importation of material from sources other than trench excavation, shall be disposed of as indicated by the project drawings or as directed by the Engineer. No haulage shall be payable for disposal of such material."

PSLB 8.1.6 FREE-HAUL

Replace the sub-clause with the following:

"All haul shall be considered free-haul."

PSLB 8.2 SCHEDULED ITEMS**PSLB 8.2.2 Supply only of Bedding by Importation****PSLB 8.2.2.2 Supply only of bedding provided by the Employer from borrow pits**

Replace "regardless of distance" in line 3 with:

"within the free-haul distance."

PSLB 8.2.2.3 From Commercial Sources

Replace the words "within a free-haul distance within 0.5km" with the words

"within the free-haul distance"

PSLB 8.2.5 Overhaul of Material for Bedding Cradle and Selected Fill Blanket

This item will not be applicable to this contract.

Add the following clauses:

PSLB 8.2.6 Supply and Lay Pipe Drainage Layer for Bedding Cradle Unit: m²

(Specify diameter of pipe and depth of cradle)

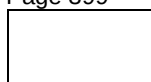
The tendered rate shall cover the cost for supply and installation of pipe drainage layer as a bedding cradle as detailed on the drawings.

PSLB 8.2.7 Extra Over for PSLB 8.2.6 for Supply and Installation of Geotextile

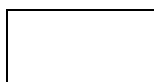
.....Unit: m²

(Specify diameter of pipe and depth of cradle)

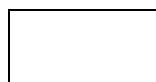
The tendered rate shall cover the cost for supply and installation of pipe drainage layer as a bedding cradle as detailed on the drawings.



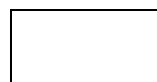
Contractor



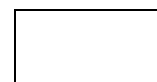
Witness 1



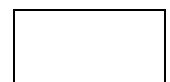
Witness 2



Employer



Witness 1



Witness 2

C3.5 MANAGEMENT**C3.5.1 Applicable SANS and SABS standards**

a) The following SANS 1921 Construction Works standards and associated specification data are applicable:

- i) SANS 1921-1, General
- ii) SANS 1921-2, Accommodation of traffic on public roads occupied by the contractor
- iii) SANS 1921-4, Third party management support
- iv) SANS 1921-5, Earthworks activities which are to be performed by hand
- v) SANS 1921 -6, HIV/AIDS Awareness

The abovementioned South African National Standards make several references to the Specification Data for data, provisions and variations that make these standards applicable to this contract. The Specification Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and these standards.

Each item of Specification Data given below is cross-referenced to the clause in the standard to which it mainly applies.

The associated Specification Data is as follows:

SANS 1921-1, Construction and management requirements for works contracts – Part 1: General engineering and construction works	
Clause	Specification data
Essential data	
4.1.7	There are no requirements for drawings, information and calculations for which the contractor is responsible
4.3.1	Refer to scope of works
4.7.3	No over break allowances for blasting is provided for
4.14.3	Refer to scope of works
4.14.5	The Contractor is required to provide latrine and ablution facilities

SANS 1921-5, Construction and management requirements for works contracts – Part 5: Earthworks activities which are to be performed by hand	
Clause	Specification Data
Essential Data:	
5.1	The depth of trenches which are to be excavated by hand is 1,5 metres
SANS 1921-6, Construction and management requirements for works contracts – Part 6: HIV/AIDS awareness	
4.2.1(a)	A qualified service provider is one that is accredited or a provisionally accredited training service provider in the HIV/AIDS field.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

	A list of accredited service providers can be obtained from the Construction SETA (CETA) (tel 011-265 5900), Health and Welfare SETA (HWSETA) (011-622 6852) or on the Health and Welfare SETA website: www.hwseta.org.za
Additional clauses	
	The duration of each workshop is not to be less than 2 ½ hours.

C3.5.2 Planning and Programming

The time for completion will be 36 months, which includes the allowance for inclement weather. All statutory holidays for the Civil Engineering Industry falling within the authorised contract period, will be allowed as extensions to this period, but the Contractor will not be paid additional Time-Related charges for these days (Ref. PSA 8.4.1).

The Contractor shall submit to the Engineer within 14 days of the Commencement Date, a detailed programme setting out clearly the sequence of work, and the resources, which he intends to use.

C3.5.3 Environment**a) Sand and dust control**

The Contractor shall, for the duration of the contract, take appropriate measures to control the dust and soil movement, which may arise due to his operations.

b) Precautions Against Nuisance

Operations are being conducted in an urban area and in the presence of passing traffic. Precautions shall be taken to protect the public and to prevent unnecessary noise, dust or other nuisance.

Any rock or debris falling from trucks on the roads in use by the public shall be removed immediately. Precautions shall be taken to prevent fouling of public roads and completed construction by trucks transporting muddy material. The Engineer may order the Contractor to broom off and clean roads continuously where the mud tracking of vehicles or falling debris may constitute a danger to the travelling public.

c) Silencing of Plant

Plant used on the Works shall be efficiently silenced and comply with the Noise Control By-Laws as appeared in the Administrator's Notice No. 1784 of 29 November 1978. Noise operations will be permitted only between the hours of 7:00 am and 5:00 p.m. Any work outside normal hours may be permitted only on the written authority of the Employer's Agent as laid down in Clause 5.8.1.1 of the GCC(2015).

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C3.5.4 Accommodation of Traffic On Public Roads Occupied By The Contractor

The works involves the construction of new roadways and stormwater within an established residential community. The works will be undertaken in such a manner to provide access to residential property accesses and special attention must be drawn to the accommodation/deviation of traffic on the affected area of the works.

The need to accommodate the traffic safely and with the least amount of inconvenience to the travelling public is necessary throughout the construction period. The travelling public shall have the right of way on public roads and the Contractor shall make use of approved methods to control the movement of his equipment and vehicles so as not to constitute a hazard on the road.

Failure to maintain road signs, warning signs or flicker lights, etc, in a good condition shall constitute ample reason for the Engineer to stop the execution of the works until the road signs, etc, have been repaired to his satisfaction. The Contractor may not commence constructional activities before adequate provision has been made to accommodate traffic in accordance with the specifications.

C3.5.5 Testing, Completion, Commissioning, and Correction of Defects

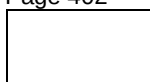
Materials of work that do not conform to the approved samples submitted in terms of the GCC(2015) will be rejected. The Engineer reserves the right to submit samples to tests, to ensure that the material represented by the samples meet the specification requirements.

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

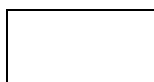
The costs of supervision and process control, including testing carried out by the Contractor, will be deemed to be included in the rates tendered for the related items of work.

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

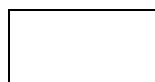
On completion and submission of every part of the work to the Engineer for examination, the Contractor shall furnish the Engineer with the results of the relevant tests to indicate compliance with the specifications.



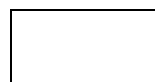
Contractor



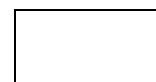
Witness 1



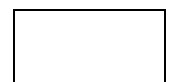
Witness 2



Employer



Witness 1



Witness 2

C3.5.6 Recording of Weather

Daily temperature and rainfall data shall be recorded in the site diary, and a copy shall be provided to the engineer's representative on a weekly basis. A rainfall gauge shall be located at the contractor's site camp. Temperature readings shall be taken at commencement and closure of the site on a daily basis. Additional readings will be required during construction of layer works, concrete works and surfacing.

C3.5.7 Format of Communications

Communication throughout the contract will be undertaken via written communication either by fax, site instruction or post. Email communication will only be considered as proof of communication when followed up by a written communication on the letterheads of the author or via a site instruction.

Request for inspection of the works will be accepted telephonically, however this request must be recorded in the site diary and site instruction book.

C3.5.8 Key Personnel

A schedule of key personnel to be employed with curriculum vitae of relevant experience shall be provided to the employers' representative prior to site handover.

C3.5.9 Management Meeting

The Engineer will conduct site meetings, prepare and circulate minutes, as determined by him at the beginning of the contract. The Contractor shall attend these meetings and shall ensure that when necessary, the required sub-contractor is represented. The approved minutes shall become part of the contract documents.

The Contractor shall be required to conduct safety meetings at intervals agreed to between the Employer or his Safety Agent and the Contractor as specified in the Health and Safety Specification bound in this document.

C3.5.10 Payment Certificates

The contractor shall submit to the engineer after the end of each month a statement in the required format, showing the estimated amount due to him, calculated in accordance with the GCC(2015). The statement to be submitted by the contractor shall consist of 2 copies of the schedule of quantities.

C3.5.11 Protection of the Public

The Contractor shall at all times ensure that his operations do not endanger any member of the public.

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As the area is adjacent to a residential area the Contractor shall take special precautions to prevent public access to any danger areas on the Works, e.g. by temporary barricades and/or fencing.

C3.5.12 Site Visitors Book

A Site Visitors Book must be kept on site. All visitors visiting to the site must report to the site office and sign in the Site Visitors book before entering the construction site. The Agent and/or the Safety Officer must always accompany the Visitor. The Visitor must wear a hard hat, safety shoes and safety clothing when required.

C3.5.13 Information In Respect Of Plant

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

C3.5.14 Information In Respect Of Employees

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

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PART:C4 SITE INFORMATION

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

C4.1 GENERAL INFORMATION

Elundini Local Municipality is located within the Joe Gqabi District Municipality in the north-eastern portion of the Eastern Cape province. The Zone 1 supply area is the southernmost part of the Local Municipality consisting of Wards 1-6 and Ward 17. The Elundini Rural Water Programme Zone 1 (A) consists of 15 villages. The village names and geometric central point co-ordinates are tabulated below.

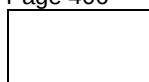
Villages Name	Co-ordinates	
	Latitude	Longitude
1. Umnga	31°25'58.83"S	28°22'13.52"E
2. Phalisa	31°21'41.79"S	28°26'22.77"E
3. Daluxolo	31°21'4.15"S	28°22'15.36"E
4. Elalini	31°20'4.82"S	28°23'25.66"E
5. Kwajosephu	31°19'48.62"S	28°25'5.71"E
6. Esihleleni	31°18'37.43"S	28°26'27.31"E
7. Nayijele	31°18'8.80"S	28°25'34.21"E
8. Maqangulweni	31°17'14.74"S	28°26'32.63"E
9. Gqaqhala (1)	31°16'4.65"S	28°25'19.15"E
10. Gqaqhala (2)	31°16'48.31"S	28°24'51.28"E
11. Cikirha	31°16'3.84"S	28°26'58.93"E
12. Mbidlana	31°14'14.95"S	28°24'18.38"E
13. Mdago-Mbidlana	31°13'12.84"S	28°24'38.46"E
14. Mcwangele	31°11'16.99"S	28°27'50.18"E
15. Sithana	31°11'17.08"S	28°28'10.67"E

C4.2 NATURE OF GROUND

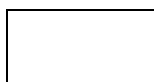
The Tenderer will be permitted to excavate trial holes in the area of the works at his own expense provided that they are properly safeguarded and reinstated. Should the Tenderer wish to excavate his own trial holes; he shall first ascertain, in conjunction with the Engineer, the position of any underground services, which may exist in the area. The Tenderer shall indemnify the Municipality against the cost of repairing any underground services damaged by the Tenderer or his agents, while carrying out such excavations.

C4.3 SPOIL MATERIAL

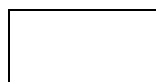
No indiscriminate spoiling of material will be allowed. All unsuitable or surplus material shall be spoiled off site to a spoil site/municipal dump, chosen by the Contractor.



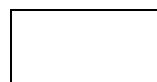
Contractor



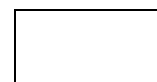
Witness 1



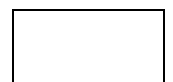
Witness 2



Employer



Witness 1



Witness 2

C4.4 FINISHING – OFF THE SITE

The site shall be finished-off in accordance with the specifications as well as to the requirements of all applicable environmental standards.

C4.5 EXISTING SERVICES

Although every effort has been made to depict existing services (water mains, electric cables, telephone cables etc.), as accurately as possible on the contract drawings, insofar as they are known, variations do arise and the Contractor shall exercise extreme care when working in the area. Items have been allowed in the Schedule of Quantities for dealing with and protecting services.

The Contractor shall take whatever precautions are required to protect these services from damage during the period of the Contract.

C4.6 PROVING OF UNDERGROUND SERVICES

It is stressed that all services in a particular area must be proven before commencing work in that area.

Insofar as bulk earthworks are concerned, where services are indicated on the drawings or where from site observations can reasonably be expected that such services are likely to exist where excavations are to take place, the Contractor shall without instructions from the Engineer carefully excavate by hand to expose and prove their positions.

When a service is not located in its expected position the Contractor shall immediately report such circumstances to the Engineer who will decide what further searching or other necessary action is to be carried out and shall instruct the Contractor accordingly.

Should any service be damaged by the Contractor in carrying out the works, and should it be found that the procedure laid down in this clause has not been followed than all costs in connection with the repair of service will be to the Contractors account.

Proving of services shall be completed at least two weeks in advance of the actual programmed date for commencing work in the area. The position of these services located must be co-ordinated and levelled by the Contractor, and the information given in writing to the Engineer's representative.

The requirements of this clause do not relieve the Contractor of any obligations as detailed under the GCC (2015) or the Special Conditions of Contract.

PARTICULAR SPECIFICATIONS

C1.2. OCCUPATIONAL HEALTH AND SAFETY SPECIFICATION FOR PRINCIPAL CONTRACTORS AND CONTRACTORS FOR CONSTRUCTION WORK

CONTENTS

Section	Title
1	Introduction
2	Reference Documents
3	Scope of Work
4	Definitions
5	Responsibilities of Contractors for Construction Work
6	Documentation and Procedures
7	Application of COIDA and OHSA to Construction Work
8	Application of the Construction Regulations 2014 [CR]
9	Site-specific and Design Risks
10	Fines and Penalties

Annexure:

A	Notification of Intention to Commence Construction Work
B	Example: Appointment – Construction Supervisor
C	Inspection List
D	Recording and Investigation of Incidents
D	Agreement with Mandatories

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

1. Introduction

In terms of Construction Regulation 7 this document describes the health and safety specifications required for any principal contractor whom is making a bid for or whom has been appointed to perform construction work on behalf of the client. [Ref. CR 5(1)(a)]

A principal contractor is required to compile their Health and Safety Plans based on these specifications detailed and referred to, in this document. In other words, the Health and Safety Plan must specify how the Principal Contractor will control and manage all health and safety aspects on the construction site. The Health and Safety Plan must be relevant to the construction work being carried out and if possible refer to the numbering system of this document.

A principal contractor is to ensure that these specifications are communicated to all contractors under his/her agreement.

2. Reference Documents

The following documents are referred to:

- 2.1. Occupational Health and Safety Act, (Act No. 85 of 1993) - [OHSA] and Regulations.
- 2.2. The Construction Regulations 2014
- 2.3. Civil Drawings
- 2.4 Compensation for Occupational Injury and Diseases Act – [COIDA]

3. Scope of Work

Detailed Description of work to be carried out:

- Earthworks
- Excavations
- Water pipe Testing
- Vehicle & Mobile Plant
- Concrete Works
- Support and Formwork
- Installation of Mechanical and Electrical equipment

List of plant, machinery and tools to be used during the project:

- Construction & Mobile Plants
- Hand Tools
- Portable Electrical Tools
- Further Information to be provided by contractor

List of Major hazards identified in the design risk assessments:

- Earth Works & Excavation

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

- Construction vehicles and Mobile plants
- Pouring Concrete
- Use of Power Tool
- Shuttering
- Mechanical and Electrical equipment

4. Definitions

The following definitions apply. (Abbreviations and legal references in brackets where applicable):

4.1 CONSTRUCTION WORK

Means any work in connection with –

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

4.2 HAZARD IDENTIFICATION, RISK ASSESSMENT AND RISK CONTROL (HIRA)

Means a documented plan, which identifies hazards, assesses the risks and detailing the control measures and safe working procedures, which are to be used to mitigate and control the occurrence of hazards and risks during construction or operation phases.

4.3 SITE

Means the area in the possession of the Contractor for the construction of the works. Where there is no demarcated boundary it will include all adjacent areas, which are reasonably required for the activities for the Contractor, and approved for such use by the client.

4.4 Hazard

Means a source of or exposure to danger (source which may cause injury or damage to persons, or property)

4.5 RISK

Means the probability or likelihood that a hazard can result in injury or damage.

4.6 CONSTRUCTION SUPERVISOR [CR 8(7)]

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Means a full time, competent employee appointed in writing by the Contractor to supervise construction work. The appointment, as required by the OHSA, shall stipulate health and safety responsibilities, area of responsibility and the proposed duration of the project.

4.7 CONSTRUCTION PLANT

Encompasses all types of plant including but not limiting to, cranes, piling frames, boring machines, and excavators, dewatering equipment and road vehicles with or without lifting equipment

4.8 CONTRACTOR

Means an employer who performs construction work and includes principal contractors and sub- contractors.

4.9 HEALTH AND SAFETY PLAN (HSP)

Means a documented plan, which addresses hazards identified and includes safe work procedures to mitigate, reduce or control the hazards identified.

The plan shall be applied from the date of commencement of and for the duration of construction work.

4.10 HEALTH AND SAFETY FILE (HSF)

The file holding all documentation and records on health and safety for the project, which shall be available at all, times for evaluation, and a copy of which will be forwarded to the client upon completion of the project.

4.11 DISABLING INJURY FREQUENCY RATE (DIFR)

The number of disabling injuries (DI"s) multiplied by a constant (man hours relative to period worked) divided by total man hours worked over a rolling period (usually 12 months, but can be less)

4.12 DISABLING INJURY SEVERITY RATE (DISR)

The number of days lost due to DI"s multiplied by a constant (man hours relative to period worked) divided by total man hours worked over a rolling period (usually 12 months, but can be less)

4.13 CONFINED SPACE

An enclosed, restricted or limited space in which, because of it's construction, location or contents, or any work carried on therein, a hazardous substance may accumulate or an oxygen deficient atmosphere may occur, and includes any chamber, tunnel, pipe, pit, sewer, container, valve, machinery or object in which a dangerous liquid or dangerous concentration of gas, vapour, dust or fumes may be present

5. Responsibilities of Contractors for Construction Work**5.1 NOTIFICATION OF INTENTION TO COMMENCE WITH CONSTRUCTION WORK**

The principal contractor shall notify the Provincial Director of the Department of Labour before any work commences, in accordance with the following requirements:

- The demolition of a structure exceeding a height of 3 meters; or
- The use of explosives to perform construction work; or
- The dismantling of fixed plant at a height greater than 3 meters; or
- The work exceeds 30 days or will involve more than 300 person days of construction work; and
- Includes excavation work deeper than 1 meter; or
- Includes working at a height greater than 3 meters above ground or a landing.

The notification must be completed in the Annexure A form and a copy of the proof of fax or delivery to the Department of Labour to be kept in the Health and Safety File for inspection by an inspector, the client or an employee.

5.2. PRINCIPAL CONTRACTOR'S RESPONSIBILITIES

- Compile a Health and Safety Plan
- Ensure co-operation between all contractors to comply to the Act and the Regulations 2014
- Ensure compliance to the Act in terms of:
 - a) Provide relevant sections of these specifications to contractors as required.
 - b) Appoint each contractor in (a) above in writing. Only contractors who have the necessary competencies and resources may be appointed.
 - c) Ensure each contractor's Health and Safety Plan is implemented and maintained on site.
 - d) Stop any contractor from work which is not in accordance with Health and Safety Plan's, or which pose a threat to health and safety of persons
 - e) Sufficient information is provided to contractors where there are changes to design and construction.
 - f) Ensure every contractor is registered and in good standing with the Compensation Commissioner.
 - g) Ensure potential contractors have made provision for the cost of health and safety measures. Negotiate and approve the Health and Safety Plan of each contractor.
- All Health and Safety Files including the principal contractor's to be available on site.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

- A consolidated Health and Safety File to be handed over to the client on completion of construction including records of drawings, designs etc.
- Health and Safety File to include updated list of all contractors, the agreements, and their type of work.

5.3 CONTRACTOR'S RESPONSIBILITIES (INCLUDING SUB-CONTRACTORS)

- Provide their Health and Safety Plan to the principal contractor.
- Where a contractor appoints another contractor (sub-contractor) it is the responsibility of that contractor to apply 4.2 above as if he were the principal contractor.
- No contractor to appoint another contractor (sub-contractor) unless the latter has the necessary competency and resources to perform the required work.
- To provide any information which affects the health and safety of any persons at work to the principal contractor.

5.4 LEGAL APPOINTMENTS

The principal contractor shall ensure copies of the appointment letters of all responsible persons appointed on site will be kept in the Health and Safety File. All legal appointments shall be conducted in accordance with the requirements set out in the OHSA and as per this specification. The tables below set out the appointment protocols for CR and OHSACT. It should be noted that these represent a complete list and not all these appointments may be required:

5.5 CONSTRUCTION REGULATIONS

Reg.	Appointment	Appointee	Competency Required
CR 7 (1)	Principal Contractor	16(2) for the company	Curriculum Vitae on file and Supervisor training (legal liability)
CR 5 (3b)	Contractor	Competent person	Proof of induction
CR 8 (1)	Contracts Manager	Competent Person	Certificate & CV
CR 8 (2)	Assistant Construction Manager	Competent Person	Certificate & CV
CR 8 (7)	Construction Supervisor	Competent person	Curriculum Vitae on file and Supervisor training (legal liability)
CR 8 (8)	Assistant Construction Supervisor	Competent person	Curriculum Vitae on file and Supervisor training (legal liability)
CR 8 (5)	Safety Officer	Competent person	Curriculum Vitae on file and SAMTRAC and registration with Professional Body
CR 9 (1)	Risk Assessor	Competent person	Curriculum Vitae on file and HIRA or similar

Page 413

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

Reg.	Appointment	Appointee	Competency Required
CR 10 (1)	Fall Protection Planner	Competent person	Curriculum Vitae on file and Fall Plan Developer
CR 12 (1)	Temporal Works	Competent person	Curriculum Vitae
CR 13 (1)	Excavation Work Inspector	Competent person	Curriculum Vitae on file and Supervisor training (legal liability)
CR 23 (1j)	Construction Vehicle Inspector	Competent person	
CR 23 (1d)	Construction Vehicle Operator	Competent person	Certificate of Competency for relevant construction vehicle
CR 28 (a)	Stacking and Storage Supervisor	Competent person	
CR 29 (h)	Fire Equipment Inspector	Competent person	
CR 29 (i)	Fire Team Members	Competent person	Fire Fighting Certificate

5.6

OHS ACT

Reg.	Appointment	Appointee	Competency Required
OHSA 17 (1)	Health & Safety Rep	Nominated employee	Health and Safety Representative Certificate
OHSA 19 (1)	Health & Safety Committee Member	Management representative	Curriculum Vitae on file and Supervisor training (legal liability) and IRCON or similar
GAR 9 (2)	Incident Investigator	Competent person	Curriculum Vitae on file and RCAT or similar
GSR 3 (4)	First Aider	Competent person	First Aid Certificate
GSR 13	Ladder Inspector	Competent person	In house Training
DMR 18 (11)	Lifting Equipment Operator	Competent person	Code 1, 2, 3, 32, 33, 35 or 46
DMR 18 (5)	Lifting Equipment Inspector	Competent person	
	Hand Tools Inspector	Competent person	In house Training
	Pneumatic Tools Inspector	Competent person	In house Training
EMR 9(4)	Portable Electrical Equipment Inspector	Competent person	

The responsibilities of each appointment are detailed in the relevant form, which are signed by both the authorised person and the appointee and kept in the Health and Safety file.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

6. Documentation and Procedures

All required documentation for the construction work, shall be kept in the Health and Safety File, which shall be available on site. The Construction Supervisor shall be responsible for the file on site and the Project Manager shall ensure that documentation is valid and up to date.

It is required that the documentation is filed in an orderly fashion for easy access. The following sections are suggested:

6.1 COMPANY INSURANCES AND INFORMATION

- Letter of good standing
- Public liability
- Emergency contact numbers
- Notification of construction work
- Company organogram
- Health and Safety policy
- HIV & Aids Policy
- Drug & Alcohol policy
- Personal Protective Equipment Policy
- Covid-19 Health and Safety Policy

6.2 HEALTH AND SAFETY PLAN AND SPECIFICATIONS**6.3 APPOINTMENTS****6.4 INSPECTION REGISTERS AND CHECKLISTS****6.5 RISK ASSESSMENTS**

- Risk matrix
- Risk assessments
- Method statements
- Record of internal training
- Review of risk assessments

6.6 SAFE WORK PROCEDURES

- Safe Working procedure training
- Planned task observations
- Emergency procedures
- Fall protection plan
- Permits to work

6.7 INCIDENT MANAGEMENT

- WCL2 forms
- Annexure 1 forms
- Injury on duty reporting and investigation procedure
- Resumption reports

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

6.8. TRAINING RECORDS AND MEDICAL FITNESS CERTIFICATES

- Certificates of formal training
- Induction training records
- Medical fitness certificates for all employees

6.9 AUDITS

- Client's Health and Safety audits
- Site inspection reports
- Site safety instructions

6.10 CONTRACTOR CONTROL

- List of contractor's and type of work
- Contractor appointments
- 37 (2) agreements

6.11 HEALTH AND SAFETY COMMUNICATION

- Toolbox talks to be held weekly
- Health and Safety notice board
- Schedule D
- Memo's to employees

6.12 OHS ACT AND REGULATIONS 2014

7. Application of COIDA and OHSA to Construction Work**7.1 COMPENSATION OF OCCUPATIONAL INJURIES AND DISEASES ACT, ACT NO. 130 OF 1993 (COIDA)**

Every contractor shall provide proof of registration and an updated letter of good standing with the Compensation Commissioner or a licensed compensation insurer.

7.2 OCCUPATIONAL HEALTH AND SAFETY POLICY

- Every contractor's Occupational Health and Safety Policy statement should be available for scrutiny and as evidence of their commitment their employees' occupational health and safety and the environment.
- Every contractor's Occupational Health and Safety Policy statement is to be signed off by the Chief Executive Officer.
- Proof of communication to all is to be available on requests.

7.3 HEALTH AND SAFETY TRAINING AND COMPETENCY

Training of personnel is a necessity and a legal requirement when required. A record of all training shall be kept and provided on request.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

7.3.1 Induction Training

- The principal contractor shall be responsible to co-ordinate all inductions on site to ensure that no contractor allows or permits any employee/s or person/s to enter any construction site, unless such employee, visitor or person has undergone induction training which is pertinent to the hazards prevalent on the site at the time of entry.
- Every employee, visitor or person on site shall be in possession of proof of the Health and Safety induction.
- Records of attendance shall be kept on the Health and Safety file for the duration of the contract.

7.3.2 Awareness Training

Awareness training to be carried out weekly in the form of Toolbox Talks on relevant topics e.g. manual lifting, wearing PPE, safe use of portable electric tools etc.

All attendees are to be made to sign an attendance register and such register is to be held on the Health and Safety file for the duration of the project.

7.3.3 Competency and CV's

- All supervisors and where applicable, valid copies of certificates of competency of appointed personnel to be provided and kept in the Health and Safety file. (Reference can be made to pages 10, 11 and 12 of this document).
- Other training requirements such as those identified through the High-risk Assessment process, to be completed and proof of that training also kept in the Health and Safety File.
- Where competency is achieved through experience, a brief CV will be required.

7.3.4 Specific OH&S training

- Valid certificates of training from registered service providers preferably accredited by the appropriate SETA are required for First Aiders, H&S reps, Fire Fighters etc.

7.3.5 Medical Fitness

- All work in elevated positions [tower crane operators, workers on elevated structures requiring fall protection, suspended platform workers and;
- Operators of construction vehicles and mobile plant require certificates of physical and psychological fitness carried out by an occupational medical practitioner.
- All employees who are employed in a construction site must have medical Fitness done by an Occupational Health & safety Practitioner before commencement of work.
- No employee will be allowed to perform any duties except deemed to be medical fit to do so.

7.4 HEALTH AND SAFETY REPS [OHSA 17 AND 18]

- Where 20 or more employees are employed at a workplace, one health and safety representative shall be appointed in writing.
- The Principal Contractor shall ensure that a minimum of one health and safety representative is appointed for ratio of each 50 employees employed.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

- Each health and safety representative shall be in possession of a certificate of competency.
- The employer is to ensure that a delegation process has been followed and recorded in term of the requirement of General Administrative Regulation 6
- Monthly checks are to be conducted by the appointed representatives in their designated areas and all finding are to be recorded in a register. Such register is to be held on the health and safety file for the duration of the project.
- Health and Safety Representative are to investigate any staff complaints and ensure that documented feedback is forwarded to the respective managers.

7.5 HEALTH AND SAFETY COMMITTEE [OHSA 19 AND 20]

- Where two or more representatives have been appointed the employer shall ensure that a health and safety committee is formed.
- The number of management representatives shall not outweigh the number of representatives.
- Meetings shall be held at a minimum of three monthly.
- Minutes of such meeting shall be kept and place on the health and safety file for the duration of the project.
- A register of attendance is to be kept of attendees at such meetings; such a register is to be attached to the minutes.

7.6 GENERAL RECORD KEEPING

- All contractors shall ensure that all Health and Safety records, required by OHSA and Regulations are kept up to date for reference purposes and auditing.

7.6.1 Inspections

- All contractors shall keep all records of inspections undertaken during the duration of the project.
- An example of the total list of minimum legally required inspections can be found under Annexure C.
- An assessment list must be draft of what inspections are required and their frequency.
- The principal contractor is responsible to ensure compliance to this requirement by all contractors.

7.6.2 Audits

- The client's agent shall carry out regular audits on the principal contractor at least once per month.
- Principal contractors shall be responsible for carrying out regular audits on their contractors at least once per month
- The Principal contractor is to draft a table which reflects contractors company name, description of work, dates of audits and scores achieved.
- The results shall be tabled for action and discussed at the Health and Safety Committee meetings or the site meetings, as appropriate.

7.7 INCIDENT MANAGEMENT AND EMERGENCY PLANS

Page 418

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

- The principal contractor shall create an Emergency Plan for the construction site.
- The plan is to be clearly displayed in conspicuous locations around the site.
- The plan shall be clearly laid out for all types of emergencies including responsibilities, evacuation routes, siren, emergency no.'s etc.
- The plan shall be fully explained to all personnel during the induction training.
- All contractors will become completely familiar with the requirements of the plan and will participate in any evacuation drills that may take place

7.7.1 First Aid [GSR 3]

- Where an employer has 5 or more employees in his employment, he/she shall ensure that at least one first aid box is made available in the workplace.
- Such first aid box is to be stocked covering the 18 items addressed in the Annexure attached to the General Safety Regulations as a minimum requirement.
- Where an employer has 10 employees or more in his/her employment, he/she shall ensure the at least one person readily available at the workplace whom is in possession of a valid first aid certificate.
- Every employer shall ensure that a minimum of one trained persons is made available for every 50 person in the workplace.
- All identified hazardous chemical are to have a material safety data sheet which is to be kept for first aid emergencies in the first aid box.
- All special needs addressed in the Material Safety Data Sheets are to be made available in addition to stock required in the Annexure.

7.7.2 Incidents and Injuries

7.7.2.1 Incidents

- A record of all incidents which have occurred shall be opened and held open until the handover of the project.
- All incidents such as near misses, unsafe situations, first aid injuries, etc shall be investigated fully and the result of such investigation shared with the Health and Safety Committee.
- The employer shall ensure that an investigation team is formulated which will consist of management representative, safety representative and an employee representative as a minimum requirement.
- All incidents that occur shall be filtered into a statistic format which is to determine the sites Incident Rate. Such rate is to be shared with all employees and all contractors on a monthly basis.
- Exclusion of incidents in record keeping shall result in fines being issued.

7.7.2.2 Injuries

- A first aid register is to be held in the first aid box as to record all first aid injuries that may occur.
- An injury on duty procedure is to be created which detail the process of treating an injured and methodology which may be use in order to ensure their safe arrival at a local hospital.
- All injuries are to be recorded in an Annexure 1

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

7.7.3 Accident and Incident Reporting and Investigation

- Should an incident or accident investigation need to be conducted, the appointed incident investigator (competent person with a valid certificate of training on file) shall conduct the said investigation. The procedure to be followed will be in accordance with Annexure 1 of GAR 9 – “Recording and Investigation of incidents”. A copy of this annexure can be found under Annexure D in this document.
- Particular attention is also drawn to OHSA 24, the reporting of certain incidents to an inspector of the Department of Labour.
- The principal contractor shall ensure that the investigations are kept for record purposes and he shall ensure that the outcome of the investigation is communicated to all affected parties as required i.e. the client and contractors.
- The client reserves the right to participate in all investigations into accidents or incidents and to conduct their own investigation if required.

7.8 CONTRACTORS AND SUPPLIERS [OHSA 37(2)]

The client shall enter into an “Agreement with Mandatory” in terms of Section 37(2) of the Occupational Health and Safety Act, 85 of 1993, with all appointed principal contractors, a copy of which can be found under Annexure B. Likewise all principal contractors shall enter into a similar agreement with all contractors, sub-contracted to them for any period of the contract. Please note that if contractors hire any construction vehicles or mobile plant, the companies from which the equipment is hired must provide any maintenance and test certification as required. In addition, if operators are hired with the equipment, proof of competence and medical certification must be provided.

The principal contractor shall ensure that all contractors are issued with this safety specification where reasonably practicable including any contractor pack for the project, should they not be contained in the safety specification.

The principal contractor shall assist and ensure that contractors engaged comply with all of these requirements and adhere to the requirements set out in the OHSA. Contractors will be stopped from working in the event of unsafe conditions and activities being observed. All contractors shall be subject to the requirements specified in the HSP and will be issued with a copy of the plan. If the contractor is not able to comply with the requirements set out in the plan, he shall not be appointed as contractor.

7.9 PERSONAL PROTECTIVE EQUIPMENT, INTOXICATION, SIGNAGE AND ACCESS CONTROL [GSR 2]**7.9.1 Personal Protective Equipment (PPE) [GSR 2]**

- The principal contractor shall through the Risk Assessment process identify all specific PPE needs per each activity. Such identified PPE shall be captured in the form of a PPE matrix and displayed in the site office. Such matrix is to make reference to the task and the specific PPE requirements required to do the task.
- All Contractors will be responsible for the issuing of the required PPE as identified by the matrix.

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- Should PPE be lost or stolen, then the employee will be issued with new PPE.
- No person/s shall be permitted entry into the site unless they are properly equipped with the required PPE as identified in the matrix.
- Should PPE be worn out or damaged, the user shall return the worn or damaged PPE and will be issued with a replacement.
- Training in the use, care and limitation of such PPE is to be provided and proof of such training is to be held in the health and safety file.
- Visitors shall be informed of PPE requirements prior to their visit so that they may make necessary arrangements to ensure their arrival well equipped with the correct PPE.

7.9.2 Intoxication [GSR 2A]

The principal contractor shall be responsible to ensure that no persons may enter or remain at the construction site if under or apparently under the influence of intoxicating liquor or drugs. It may become necessary from time to time for contractors and their workers could be required to do a breathalyser test before entering the site.

7.9.3 Display of signs [GSR 2B]

The principal contractor should make use of signage to assist in enforcing compliance to any requirement specified in this document or as required by law. Standard symbolic signs are acceptable for conveying these requirements where applicable.

7.9.4 Access control [GSR 2C]

The principal contractor shall be responsible to ensure control of access to all persons entering the construction site. The reasons for this are as follows:

- The principal contractor is the „employer“ on the site and for all intents and purposes is responsible for section 8 of OHSA for employees and contractors and section 9 for any other person on site such as visitors and inspectors
- All persons entering the site must undergo induction training to inform them of the hazards present on the site. This includes contractors, visitors, inspectors etc.
- The construction supervisor will be aware of who is on site and their function
- The construction supervisor will be able to control tasks that may impact on other work being carried out on the site by a permit to work system
- The number of people and their purpose on the site must be known in case of emergency and evacuation security reasons

The principal contractor shall post conspicuous notices at the site informing all those entering the site of these requirements

7.10 LADDERS [GSR 13A]

The following requirements shall be complied with regarding Ladders and Ladder work:

- A competent person shall be identified and appointed as the ladder inspector.
- Where aluminium ladders cannot be used, then wooden ladders shall be straight grained, unpainted to allow for proper inspection of the grain for cracking.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

- Ladders shall be secured at the top and chocked at the base to prevent slipping.
- Where chocking of the base is not possible, then the user shall ensure that the ladder is held in position by another employee when ascending the ladder.
- No person is permitted to work longer than 15 minutes on a ladder. Should work take longer than 15 minutes to complete then alternative means of elevation is to be used.
- Ladders shall be inspected a minimum once per month and results recorded in a register by the person appointed as the ladder inspector.
- Proper storage shall be provided for all ladders when not in use.

7.11 PORTABLE ELECTRICAL TOOLS [EMR 9]

This regulation shall be complied to as a minimum requirement. Regular inspections of all Portable Electrical Tools such as drills, angle grinders etc, shall be carried out. In particular:

- Only trained personnel shall operate such equipment.
- The Construction Supervisor shall ensure operation of the equipment is in accordance with
- the HRA requirements and Safe Working Procedure (SWP).
- All users shall undergo regular awareness training (toolbox talk) to ensure compliance.
- The Construction Supervisor shall ensure the required PPE is used.

7.12 PERMIT TO WORK

The permit holder shall be responsible to ensure that:

- All work being carried out on the site has been approved through the necessary project control system
- All work is being done in compliance with the issued permits.
- Permits required from third parties such as town councils for utility and water services are in place
- A permit system is operational so that work consisting of many tasks related to the construction on site, can be carried out without endangering the health and safety of personnel on site, neighbours and the public surrounding the site and/or causing damage to property.
- In particular, attention is drawn to GSR 9, which details the requirements for welding, flame cutting, soldering and similar operations (hot work)

7.13 WORK IN CONFINED SPACES

The permit holder shall be responsible to ensure that:

- All work being carried out on the site has been approved the necessary project control system
- All work is being done in compliance with the issued permits.
- Permits required from third parties such as town councils for utility and water services are in place

8. Application of the Construction Regulations [CR]

[Please note: this is not the complete list. Item 8.1 is compulsory and the rest are applicable if relevant to the work being carried out]

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

8.1 HAZARD IDENTIFICATION, RISK ASSESSMENT AND RISK CONTROL (HIRA) [CR 9]

The contractor shall prior to the commencement of any construction work perform a HIRA exercise, which will form part of the HSP for the project.

A copy of the HIRA shall be made available for viewing to the client's agent and shall be kept in the Health and Safety File.

The contractor shall ensure that the outcome of all HIRA exercises will be conveyed to all relevant employees with respect to the hazards and the related control measures before any work commences.

The control of several of these risks may be specified in the OHSA does not mean that the HIRA exercise does not have to be carried out.

8.2 FALL PROTECTION [CR 10]

Section 1 (a) of this regulation states that a contractor shall cause the designation of a competent person, responsible for the preparation of a fall protection plan. The control of several of these risks may be specified in the OHSA or the CR but this does not mean that the HIRA exercise does not have to be carried out.

8.3 STRUCTURES [CR 11]

The appointed civil contractor shall meet the requirements of this regulation. Attention is drawn, which requires the designer to inspect the structure at appropriate times and the record of these inspections to be available on site.

8.4 EXCAVATIONS [CR 13]

Section 1 of this regulation states that this work must be carried out under the supervision of a competent person who has been appointed in writing. All the requirements of CR 13 shall be met. For inspection of excavations, attention is drawn to section 3 (h), the records of which must be available on site.

8.5 CONSTRUCTION VEHICLES AND MOBILE PLANT [CR 23]

It will be the responsibility of each contractor on site to ensure compliance of their vehicles and mobile plant to these regulations. This includes vehicles to be used for transporting personnel to and from site, which will be subject to relevant requirements such as licensing and roadworthiness checks. In addition the following will apply:

Safe transport for personnel working on the project to and from the workplace, which shall include proper seating, side restraints and cover.

Road safety principles shall be adhered to on and off staff.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

If a mobile crane or other mobile plant is hired, only approved hire companies shall be contracted to provide such equipment. The Construction Supervisor shall ensure compliance of the provider to these regulations. In particular, attention is drawn to the competence and fitness of the operator [section 1 (d)] and the inspection of the equipment [section 1 (j)]

8.6 TEMPORAL ELECTRICAL INSTALLATIONS [CR 24], INCLUDING [EIR] AND [EMR]

The requirements of these regulations shall be met as required, by the appointed electrical contractor. A competent person will be appointed for inspection and control of all temporary electrical installations as per CR 24 (d) and (e) respectively.

8.7 WATER ENVIRONMENTS [CR 26]

The requirements of this regulation shall be met.

8.8 HOUSEKEEPING [CR 27] INCLUDING [ERW (6)]

All contractors shall ensure that housekeeping standards as per these regulations shall be maintained at all times.

8.9 STACKING OF MATERIALS [CR 28] INCLUDING [GSR (8)]

All contractors shall ensure that materials are only stored in defined and allocated storage areas and that materials being stored are stacked in accordance with sound stacking principles as per these regulations.

8.10 FIRE PRECAUTIONS [CR 29]

All contractors on site will comply fully with the requirements of this regulation. In particular, the principal contractor will be responsible for the evacuation plan (section (I)) the details of which will be imparted to contractors, visitors etc through the site induction.

8.11 CONSTRUCTION WELFARE FACILITIES [CR 230]

The principal contractors shall be responsible for implementing this regulation and shall ensure that adequate facilities are provided for the personnel on site in terms of the following:

- Change room facilities
- Sheltered eating area
- Adequate toilets
- Hand wash facility
- Potable water.

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Contractor

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Witness 1

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Witness 2

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Employer

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Witness 1

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Witness 2

No food preparation shall be conducted on site. Eating and drinking will only be permitted in the designated eating areas, which must be provided with adequate seating. Waste bins shall be strategically placed and clearly regularly.

9 Site-specific and Design Risks

Please note: this is not a complete or exhaustive list. The principal contractor is expected to assess all risks to which his employees may be exposed during the construction and/or demolition process, as well as the hazards identified and listed below.

The following jobs or activities are classified as High

- Confined Space Entry
- Excavation
- Construction vehicles and mobile plant
- Traffic accommodation
- Pouring Concrete
- Working at Heights

9.1 HAZARD IDENTIFICATION AND RISK ASSESSMENT METHODOLOGY

9.1.1 Baseline Risk Assessment

A Baseline Hazard Identification and Risk Assessment must be carried out during the preliminary stages of the construction/demolition project for the purposes of attempting to reduce the possibility of accidents or ill health occurring.

Taking into account the constraints of time and resources, every effort must be made to identify the hazards and recommend possible solutions. It is not reasonably practicable to expect the baseline risk assessment to identify all hazards, which is why task risk assessments are carried out on site.

9.1.2 Task risk assessment

Once on site, every contractor shall perform task risk assessments, using the baseline risk assessment as a guide.

The Risk Assessment should be reviewed once on site and thereafter after any incident or every one-year period, whichever occurs first. Additional hazards highlighted or a change in the risk factor should have a separate risk assessment carried out and filed.

The Risk Assessment is based on the combination of the CONSEQUENCE and PROBABILITY associated with each hazard.

9.1.3 Definitions

Term	Meaning
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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

HAZARD:	Anything that can cause harm
RISK:	The chance, great or small, that someone will be harmed by the hazard
CONSEQUENCE:	The possible outcome of an accident / incident, e.g. broken leg, explosion
PROBABILITY:	The possibility of the accident / incident occurring

9.1.4 Risk assessment

The following evaluation must be used to determine risk:

Probability X Consequence = RISK

Risk Matrix:

Consequence (Impact)	(3) Critical (Fatal/Permanent Disabling Injury)	(3) Medium risk	(6) High risk	(9) CRITICAL
	(2) Major (Temporary Disabling Injury)	(2) Low risk	(4) Medium risk	(6) High risk
	(1) Manageable (Minor/first aid)	(1) Low risk	(2) Low risk	(3) Medium risk
		(1) Remote (<10%)	(2) Possible (10-50%)	(3) Likely (>50%)
		Probability (Likelihood)		

RED = High Risk (6 – 9)

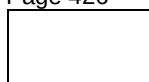
ORANGE = Medium Risk (3 – 4)

GREEN = Low Risk (1 – 2)

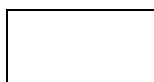
Activity	Hazard	Risk Eval.	Precautions and Control Measures
			1. Eliminate the risk 2. Control the risk at its source 3. Follow a safe working procedure
1. Describe task	Hazard 1	9, 6, 4, 3, 2, or 1	• Precaution 1 • Precaution 2 • Etc.
	Hazard 2		• Precaution 1 • Precaution 2 • Etc.

9.2 SITE-SPECIFIC RISKS

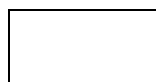
The following site-specific risks have been identified for this project. These must be catered for in the contractor's health and safety plan (that which is applicable to their scope of work), and included in the site-specific risk assessment:



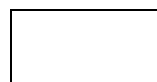
Contractor



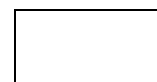
Witness 1



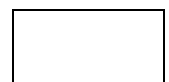
Witness 2



Employer



Witness 1



Witness 2

9.2.1 Traffic – restrictions, existing systems, site traffic
Traffic accommodation must be arranged with the principal agent.

9.2.2 Site security and access –
This is controlled by the individual contractor responsible.

9.3 Design risks
The following design risks have been identified by the designer for this project. These must be catered for in the contractor's health and safety plan (that which is applicable to their scope of work), and included in the site-specific risk assessment:

- 9.3.1 Excavations
- 9.3.2 Traffic Accommodation
- 9.3.3 Vehicle and mobile plant
- 9.3.4 Working with sewage

10 Fines and Penalties

10.1 MINOR HEALTH OR SAFETY TRANSGRESSION
Not wearing PPE; e.g. safety helmet, eye protection, high visibility vests or foot protection.
Fine: R1 000-00 will be issued to the contractor.

10.2 SERIOUS HEALTH OR SAFETY TRANSGRESSION
Not contributing to good housekeeping practices, improper stacking and storage, lack of supervision on site, failure to carry out risk assessments for tasks or activities, failure to carry out toolbox talks, failure to train employees in risk assessments and/or safe work procedures, failure to issue PPE to employees. Fine: R2 000-00 will be issued to the contractor

10.3 MAJOR HEALTH OR SAFETY TRANSGRESSION
A life-threatening activity, condition, act or contribution by an employee in creating an unsafe working environment for himself or herself or other persons, failure to wear critical PPE (safety harness, eye protection, respiratory equipment, or as stipulated in the risk assessment).
Fine: Up to R3 000.00 will be issued to the contractor

10.4 REPEAT OFFENCES
A contractor that receives more than three (3) major transgressions for the same offence and may, at the discretion of the project manager, be required to leave site

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

ANNEXURE A (Notification of Intention to Commence Construction Work)**NOTIFICATION OF CONSTRUCTION WORK****Regulation 4 of the Construction Regulations, 2014**

- 1(a) Name and postal address of principal contractor:
- (b) Name and telephone number of principal contractor's contact person:
2. Principal contractor's compensation registration number:
- 3(a) Name and postal address of client:
- (b) Name and telephone number of client's contact person or agent:
- 4(a) Name and postal address of designer(s) for the project:
- (b) Name and telephone number of designer's contact person:
5. Name and telephone number of principal contractor's construction manager on site appointed in terms of regulation 8(1):
6. Name/s of principal contractor's sub-ordinate manager on site appointed in terms of regulation 8(2):
7. Exact physical address of the construction site or site office:
8. Nature of the construction work:
9. Expected commencement date:
10. Expected completion date:
11. Estimated maximum number of persons on the construction site:
Total _____ Male _____ Female _____
12. Planned number of contractors on the construction site accountable to principal contractor:

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONSTRUCTION OF ZONE 1 (A) FOR ELUNDINI RURAL WATER PROGRAMME

13. Name(s) of contractors already chosen:

Principal contractor

Date

Client

Date

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

ANNEXURE B (Example: Appointment - Construction Supervisor)**APPOINTMENT OF A CONSTRUCTION MANAGER
CONSTRUCTION REGULATION 8 (1)**

8(1) The contractor shall appoint a full time, competent employee in writing as the construction supervisor with the duty of supervising construction work.

APPOINTMENT

I, _____ (contractor's name), having been appointed in terms of section 16 (2) of the Occupational Health and Safety Act (85 of 1993) to ensure full compliance with the Act, do hereby appoint:

_____ (name of appointee), being a full-time employee, as the Construction Manager responsible for:

_____ (site address)
, to supervise construction work for the duration of the project/ contract or until you are relocated to another site/ project or leave the employ of the company.

You are reminded that you are required to be conversant with all relevant statutory provisions and regulations of the Occupational Health and Safety Act (85 of 1993) in the regard to carrying out of construction work.

Signature _____ Date _____

Designation _____

ACCEPTANCE

I, _____ (name of appointee) hereby accept and understand the requirements of this appointment as Construction Manager and confirm that I have the necessary competence required and that I am conversant with all the relevant statutory provisions of the Occupational Health and Safety Act (85 of 1993).

Signature _____ Date _____

Designation _____ Certificate(s) of training & CV attached

Page 430

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

ANNEXURE C Inspection List

Inspections Required

No.	Inspection	By who	Frequency	Record
1	Excavations	Appointed Person	Daily before shift, plus other	Checklist
2	Construction Vehicles and Mobile Plant	Appointed Person	Daily	Inventory/ checklist
3	Electrical Installations (temporary)	Appointed Person	Weekly	Inventory/ checklist
4	Fire Equipment	Appointed Person	Manufacturer's spec	Inventory/ checklist
5	First Aid Box Contents	First Aider	Monthly	Inventory
6	Ladders	Competent Person	Monthly	Inventory/ checklist
7	Lifting Tackle	Appointed Person	3- monthly	Inventory/ checklist
8	Hand Tools	Appointed Person	Monthly	Inventory/ checklist
9	Portable Electrical Equipment	Appointed Person	Monthly	Inventory/ checklist
10	Health & Safety Rep	H&S Rep/ Safety Officer	Monthly	Checklist
11	Good Housekeeping	H&S Rep/ Safety Officer	Monthly	Report
12	Stacking and Storage	Appointed Person	Monthly	Report
13	Change Rooms and Toilets	H&S Rep/ Safety Officer	Monthly	Inventory/ checklist
14	Pneumatic Tools	Appointed Person	Monthly	Inventory/ checklist

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

ANNEXURE D (Recording and Investigation of Incidents)

OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT NO 85 OF 1993)
REGULATION 9 OF THE GENERAL ADMINISTRATIVE REGULATIONS
RECORDING AND INVESTIGATION OF INCIDENTS

A RECORDING OF INCIDENT

1. Name of Employer _____
2. Name of affected person _____
3. Identity Number of affected person _____
4. Date of incident _____
5. Time of Incident _____

6. Part of the body affected*	Head or neck	Eye	Trunk	Finger	Head	
	Arm	Foot	Leg	Internal	Multiple	
7. Effect on the person. *	Sprains or strains	Contusions or wounds	Fractures	Burns	Amputation	
	Electric Shock	Asphyxiation	Unconsciousness	Poisoning	Occupational Diseases	
8. Expected period of disablement. *	0-13 days	2-4 weeks	>4-16 weeks	>16-52 weeks	>52 weeks or permanent disablement	Killed

9. Description of Occupational disease**
10. Machine/ process involved/ type of work performed/ exposure*
11. Was the incident reported to the Compensation Commissioner and Provincial Director? Make a cross in the appropriate square.

Yes	No
-----	----
12. Was the incident reported to the Police? Make a cross in the appropriate square.

Yes	No
-----	----
13. SAPS office and reference

*To be completed in case of a fatal incident

**in case of a hazardous chemical substance, indicate substance exposed to.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**B. INVESTIGATION OF THE ABOVE INCIDENT BY
A PERSON DESIGNATED THERETO**

- 1 Name of investigator
- 2 Date of investigation
- 3 Designation of investigator
- 4 Short Description of incident
- 5 Suspected causes of incident
- 6 Recommended steps to prevent a recurrence

Signature of investigator Date

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C. ACTION TAKEN BY THE EMPLOYER TO PREVENT THE RECURRENCE OF A SIMILAR INCIDENT

Signature of investigator

Date

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

D. REMARKS BY HEALTH AND SAFETY COMMITTEE

Remarks

Signature of chairperson of health and safety committee

Date

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

ANNEXURE E (SECTION 37(2) – AGREEMENT WITH MANDATORY)

AGREEMENT WITH MANDATORY (Contractor)

OCCUPATIONAL HEALTH AND SAFETY ACT, (Act No 85 of 1993)

AGREEMENT WITH MANDATORY (Contractor) In terms of Section 37(1) and (2)

WRITTEN AGREEMENT ENTERED INTO AND BETWEEN

(Hereinafter referred to as the Company) AND

CONTRACTOR (Hereinafter referred to as The Contractor)

Compensation Fund Number:

AGREEMENT WITH MANDATORY TO BE COMPLETED IN BLACK INK. INITIAL EACH PAGE AND ANY CHANGES.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Definition of MANDATORY

Includes an agent, a contractor or sub-contractor for work, but without derogating from his status in his own right as an employer or user.

Occupational Health and Safety Act (No. 85 of 1993)

16. You are requested to, as far as you reasonably can, comply with the requirements of the OHS ACT and Regulations.

17. Your attention is drawn to “General Duties of Employers to their Employees” as required by Sect 8 of the Act.

18. You are required to:

3.1 Sign a written “Agreement with Mandatory” as required by Sect 37(1)(2) of the Act with us before you commence any work on my / our premises / site.

3.2 Provide the client / principal contractor with a documented health and safety plan.

3.3 Provide the client / principal contractor with written appointment of the person who is going to supervise the construction work as per Construction Regulation 6(1).

Note: Electrician to provide copy of certificate of registration as per Elect. Install Reg. 9(3).

3.4 Provide the client / principal contractor with written designation of your nominated Health and Safety Representative as per Sect 17(1).

3.5 If you employ more than five (5) persons, you are required to provide your own First Aid Box. (General Safety Regulation 3 (2).)

3.6 If you employ more than ten (10) persons, you are required to provide your own qualified First Aider as per General Safety Regulation 3(4).

3.7 When working with hazardous chemical substances, comply with Hazardous Chemical Substances Regulation

Note: Asbestos and Lead regulations are separate.

3.8 When using a Materials Hoist , comply with Construction Regulation 17.

3.9 When using Lifting Machines and Lifting Tackle, comply with Driven Machinery Regulation 18.

3.10 When using Explosive Powered Tools, comply with Construction Regulation 19.

3.11 When using Scaffolding, Formwork and support work, comply with Construction Regulation 10 and 14.

3.12 When Excavating or Demolishing, comply with Construction Regulation 11 and 12.

3.13 When Welding, Flame Cutting, Soldering, comply with General Safety Regulation 9.

3.14 When working in confined spaces, comply with General Safety Regulation 5.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

4. You are responsible for providing your own legal safety documents and registers to comply with the Act's requirements. *A copy of the OHS Act of 1993 should be available in the main contractor's office.*
5. You are required to comply with General Safety Regulation 2(1) to (7) and provide employees with: personal protective equipment which will allow them to carry out their work in a safe manner, e.g. hard hats, safety belts, gloves, safe footwear, eye protection, ear protection, waterproof clothing etc.
6. Reporting of Incidents and Occupational Diseases shall be done as per General Admin. Regulation 6. (Also see Sect 24 of the Act.)

7. Compensation for Occupational Injuries and Diseases Act (No 130 of 1993)

You are required to provide the client proof of registration with the Compensation Commissioner/Federated Employer's Mutual within seven (7) days after signing this agreement. Failure to do so would result in the client notifying the agent of the Commissioner to investigate and make an assessment of your wage return and the applicable levy you have to pay, which will be liable for a deduction from your monthly progress payments and paid over to the Commissioner. (Copies of proof of payment will be provided to the contractor) See Section 89(1) of the COID

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

SITE DRAWINGS

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2