



DEPARTMENT OF WATER AND SANITATION

DUE AT 11:00 ON

**CLOSING DATE:
11 DECEMBER 2025**

WTE-2538ES

**SUPPLY, DELIVERY AND INSTALLATION OF (3) 30M
HIGH MAST LIGHT FOR A PERIOD OF 4 MONTHS**

MIDMAR DAM

SUBMIT BID DOCUMENTS TO:

POSTAL ADDRESS:

OR

TO BE DEPOSITED IN:

WATER AND SANITATION
PRIVATE BAG X 24
HOWICK, 3290

THE BID BOX AT THE ENTRANCE
GATE OF MIDMAR DAM
R103 PROSPECT ROAD
MIDMAR DAM
HOWICK, 3290

Compulsory Briefing Session

Date: 28 NOVEMBER 2025

Time: 10:00am

Venue: MIDMAR DAM, MAIN SECURITY GATE ENTRANCE

BIDDER: (Company Address OR Stamp)

COMPILED BY: DEPARTMENT OF WATER AND SANITATION



DEPARTMENT OF WATER AND SANITATION

DOCUMENTS THAT ARE RELATED TO TENDER/QUOTATION			
Doc No	DOCUMENT		
T1	TENDERING PROCEDURES		
T1.1	INSTRUCTION TO BIDDERS		
T1.2	EVALUATION CRITERIA		
T1.3	LIST OF RETURNABLE DOCUMENTS AND SCHEDULES		
T1.4	INVITATION TO BIDS		
T2	RETURNABLE DOCUMENTS AND SCHEDULES		
C1	CONTRACT DATA		
C1.1	CONTRACT DATA		
C1.2	PERFORMANCE GUARANTEE		
C1.3	AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT No 85 OF 1993		
C1.4	RETENTION MONEY GUARANTEE		
C1.5	TRANSFER OF RIGHTS		
C2	PRICING DATA		
C2.1	PRICING INSTRUCTIONS		
C2.2	SCHEDULE OF QUANTITIES		
C3	SCOPE OF WORK		
C3.1	STANDARD SPECIFICATIONS		
C3.2	TECHNICAL SPECIFICATIONS		
C3.3	PARTICULAR SPECIFICATIONS		
C4	SITE INFORMATION		
C4.1	LOCALITY PLAN		
C4.2	EXISTING SERVICES REPORT		
C4.3	FORMS AND ANEXURES		

T1 TENDERING PROCEDURES

T1.1 INSTRUCTIONS TO BIDDERS

1. ISSUING OF DOCUMENTS

- (a) A complete sets of bid documents are issued to a prospective Bidder.
- (b) Bidders must satisfy themselves that the document is complete and conform to the index of this document. Should any figures or writing be indistinct or should any pages be missing from this document or should this document or the drawing(s) contain any obvious errors, the Bidders must immediately notify the Department in order to have any discrepancy rectified or clarified before submitting his bid. Such clarification will be valid only if made by the Department by means of formal amendment as described hereunder prior to the date of submission of bids. The Department may issue amendments to clarify or modify the Bid Documents. A copy of each amendment will be issued to each bidder and shall be acknowledged on the form issued with the amendments. No claim whatsoever will be entertained for faults in the bid price resulting from the above-mentioned discrepancies.
- (c) No alterations, omissions or additions shall be made to this document, but should it be deemed necessary to do so, the Bidder is at liberty to qualify his bid.
- (d) All Bidders shall be deemed to have waived, renounced and abandoned any conditions printed or written upon any stationery used by them for the purpose of or in connection with the submission of bids which are in conflict with the conditions laid down in this document.
- (e) Each page of the completed document that will be submitted should be initialled by the Bidder at the bottom of the page.

2. QUERIES WITH RESPECT TO THIS BID

Queries of a specific technical nature may be discussed personally or telephonically with **Mr Melisizwe Zuma at 033 239 1286 / ZumaM@dws.gov.za** or may be directed in writing to: The Director: Eastern Operations, Department of Water and Sanitation, Private bag X24, Howick, 3290.

3. COMPLETION OF BIDS

- (a) The bid must be signed on the Invitation to Bid form (SBD 1) annexed hereto with all blanks in the bid and the appendix filled in.
- (b) All spaces in the bid forms and other annexures shall be completed in full.
- (c) **SBD 3.1 in the bid document and the Pricing Schedule must be fully completed and priced out by the bidder. Failure to do so will deem your bid invalid.**
- (d) The bid documents shall not be separated in any way nor must any pages be detached from the original documents.

4. SUBMISSION OF BIDS

The Bid Document shall be completed, signed and submitted as follows:

- (a) The original Bid, together with a covering letter and supporting documents, shall be sealed in an envelope endorsed:

ORIGINAL BID FOR WTE-2538ES: SUPPLY, DELIVERY AND INSTALLATION OF (3) 30M HIGH MAST LIGHT FOR A PERIOD OF 4 MONTHS

- (b) Bids sealed and endorsed as above, will be received by: The Supply Chain Management Office or may be deposit in the bid box at the entrance of **Department of Water and Sanitation, R103 Prospect Road, Howick** and not later than **11:00** on the date stipulated on the front cover of this document.

5. SIGNATURE ON BIDS

The Bid, if by an individual, must be signed by that individual or by someone on his behalf duly authorised thereto and **proof of such authority must be produced**. If the bid is by a Company, it must be signed by a person duly authorised thereto by a Resolution of a Board of Directors a copy of which Resolution, duly certified by the Chairman of the Company is to be submitted with the bid.

The successful bidder will be required to submit a "Letter from the manufacturer" confirming the supply arrangement within 14 days after the approval of the bid.

If the bid is submitted by joint venture of more than one person and/or Companies and/or firms it shall be accompanied by the following:

- (a) The original or a notarially certified copy of the original document under which such joint venture was constituted which must define precisely inter alia the conditions under which the joint venture will function, its period of duration and the participation of the several constituent persons and/or companies and/or firms.
- (b) A certificate signed by or on behalf of each participating person and/or company and/or firm authorising the person who signed the bid to do so.

6. GENERAL CONDITIONS OF CONTRACT

The General Conditions of Contract, as attached shall be regarded as an integral part of the contract documents.

7. PERIOD OF VALIDITY OF QUOTATIONS AND WITHDRAWAL AFTER CLOSING DATE

All quotations shall remain valid for a period of **one hundred and twenty days (120)** after the closing time and date set.

8. PROJECT DURATION

All work conducted under the scope of the project will need to be completed within a duration of 4 Months (120 Days).

8. TELEGRAPHIC BIDS

No bid forwarded by telegram, telex, facsimile, e-mail or similar apparatus will be considered.

9. THE DEPARTMENTS RIGHT TO DECLINE ANY BID

The Department does not bind itself to accept the lowest or any bid. Bids not complying with the above-mentioned requirements and specifications may be regarded as incomplete and may not be considered.

10. ACCEPTANCE OR REJECTION

Quotations may be rejected if they show any departure from the conditions or specifications contained in the quotation documents or are incomplete in any way. The employer **does not bind him** to accept the lowest or any quotation and reserves the right to accept any quotation he may deem expedient, nor will he assign any reason for the acceptance or rejection of any quotation.

11. DEPARTMENT NOT LIABLE FOR BIDDER'S EXPENSES

The Department will not be held liable for any expenses incurred in preparing and submitting bids.

12. PAYMENTS UNDER THE CONTRACT

All payments due to the Bidder in terms of the contract will be done by means of Electronic Fund Transfer. The evaluation committee will be following a phased approach during evaluation.

T1.2 EVALUATION CRITERIA

DWS will evaluate all proposals according to the Preferential Procurement Regulations, 2022, using 80/20 preference points system as prescribed in the Preferential Procurement Policy Framework Act (PPPFA, Act 5 of 2000).

The lowest acceptable bid will score 80 points for price and a maximum of 20 points will be awarded for the specific goals. Maximum of 100 points will be scored for functionality (quality).

Bids received will be evaluated on the five (4) phases namely:

- (1) Mandatory Requirements (if applicable),
- (2) Functionality Requirements
- (3) Administrative Compliance
- (4) Price & Specific Goal

PHASE 1: MANDATORY REQUIREMENTS:

Failure to submit any of the documents listed below will render your bid non-responsive and the bid will be disqualified.

No	Criteria	Yes	No
1	CIDB minimum 2EP		
2	Attendance of compulsory briefing session and service provider to sign the attendance register during the briefing session		
3	SBD3.1 (fully completed and signed)		
4	Bill of Quantities (fully completed and signed)		

PHASE 2: FUNCTIONALITY COMPLIANCE

- Full compliance to technical requirements by indicating compliant or non-compliant.
- Bidders who Fail to comply with the below requirements in full will be considered non-responsive and may be disqualified from further evaluation.

Criteria	Sub-Criteria	COMPLY YES/NO	
		Yes	No
Team capability	Team capability- Demonstrated skills and experience of key personnel for this project, limited to the Project Manager or Site agent. • An Organogram with personnel relevant to the project. • Attach 1 page resume of Project Manager or Site Agent indicating, amongst others, relevant qualifications, experience, accreditation/affiliation (where relevant), etc. Artisan/Site Agent with 2 or more years' experience.		
Proposed construction programme	Proposed construction programme- • A proposed detailed Gantt Chart must be submitted • Provides a detailed list of tasks necessary to complete the work • Provides a list of tasks a specific to the project and encompass milestones. Appropriate timeline and time estimates		
Past relevant work experience	Past relevant work Experience – Two (2) award letters, completion certificates and verifiable completion certificates of which the scope of work is relevant to the project scope as prescribed in the project specification.		
Methodology	Methodology- Items (a-g) must be clearly outlined in the detailed method statement. a) Work Sequence b) Time c) Resources d) Associated Health, Safety and Environmental Assessments e) Control Measures f) Welfare Facilities Work Method etc. Content, Clear, detailed presentation of the scope of work with full understanding and a logical structure.		

PHASE 3: ADMINISTRATIVE COMPLIANCE

Bidders are required to comply with the following listed below:

No	Criteria	Yes	No
1	Companies must be registered with National Treasury's Central Supplier Database must submit CSD report. Provide MAAA number on SBD1		
2	Tax compliant with SARS (to be verified through CSD and SARS). Attach Tax Compliance status PIN page		
3	Active registration with Company Intellectual Property Commission (to be verified through CSD and CIPC). Attach copy of Bidder's CIPC / CIPRO certificate.		
4	A valid copy of B-BBEE Status Level Verification Certificate or a valid original sworn affidavit (failure to submit, the Bidder will forfeit the relevant points allocated for B-BBEE under specific goals)		
5	A valid letter of Good Standing with the Compensation Commissioner in terms of the Compensation for Occupational Injuries and Diseases Act No 130 of 1993 and or third parties' insurance registered with Financial Service Board (COIDA).		
6	Initial and sign Tender data section (T1 & T2) and all required documents to be submitted with tender. Initial each page of section C1, C2 and C3 and sign where required.		
7	Letter of appointment of duly authorized person to sign bid. Proof of such authority must be submitted with the bid. If by an individual, must be signed by that individual or by someone on his behalf duly authorised thereto and proof of such authority must be produced. If the bid is by a Company, it must be signed by a person duly authorised thereto by a Resolution of a Board of Directors a copy of which Resolution, duly certified by the Chairman of the Company is to be submitted with the bid.		
8	Complete, sign, submit SBD1, SBD4, SBD6.1 and Annexures C (Local Production and Content declaration – summary schedule.)		

PHASE 4: PRICE AND SPECIFIC GOALS

The 80/20-point system will be used in evaluating all proposals.

Evaluation element	Weighting (Points)
SPECIFIC GOALS	20
PRICE	80
Total	100

Price

A maximum of 80 points are allocated for price on the following basis

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

Where:

P_s = Points scored for comparative price of bid under consideration
 P_t = Comparative price of bid under consideration
 $P_{\min}$ = Comparative price of lowest acceptable bid

Preference Point System (Specific Goals)

SPECIFIC GOALS	NUMBER OF POINTS TO BE ALLOCATED
Women	5
People with disability	5
Youth (35 and below)	5
Location of enterprise (Province)	2
B-BBEE status level contributors from level 1 to 2 which are QSE or EME	3
Total points for SPECIFIC GOALS	20

Documents requirement for verification of points allocation:

Procurement Requirement	Required Proof Documents
Women	Full CSD Report
Disability	Full CSD Report
Youth	Full CSD Report
Location	Full CSD Report
B-BBEE status level contributors from level 1 to 2 which are QSE or EME	Valid BBBEE certificate/sworn affidavit Consolidated BEE certificate in cases of Joint Venture Full CSD Report

The definition and measurement of the goals above is as follows:

Women, disability, and youth:

This will be measured by calculating the pro-rata percentage of ownership of the bidding company which meets this criterion. E.g., Company A has five shareholders each of whom own 20% of the company. Three of the five

shareholders meet the criterion, i.e. they are women/disability/youth. Therefore, this bidder will obtain 60% of the points allowable for this goal.

Location of enterprise

Local equals province. Where a project cuts across more than one province, the bidder may be located in any of the relevant provinces to obtain the points.

B-BBEE status level contributors from level 1 to 2 which are QSE or EME

Measured in terms of normal BBBEE requirements.

Note: Formula for calculating points for specific goals

Preference points for entities are calculated on their percentage shareholding in a business, provided that they are actively involved in and exercise control over the enterprise. The following formula is prescribed:

$$PC = Mpa \times \frac{P\text{-own}}{100}$$

Where

PC= Points awarded for specific goal

Mpa= The maximum number of points awarded for ownership in that specific category

P-own = The percentage of equity ownership by the enterprise or business

Should you require any further information in this regard, please do not hesitate to contact:

Name:	Mr. M.M Zuma
Tel:	033 239 1286
Mobile:	
Email:	zumam@dws.gov.za

T1.3 LIST OF RETURNABLE DOCUMENTS AND SCHEDULES

a) SBD Forms to be completed and signed

The Bidder must complete and attach the following Returnable Documents:

- | | | |
|--------|--|--------------------------|
| SBD1 | Invitation to Bid | ☐ |
| SBD3.1 | Pricing Schedule – Firm Prices | ☐ |
| SBD4 | Declaration of Interest | ☐ |
| SBD6.1 | Preference Points Claim Form in terms of the Preferential Procurement Regulations 2022 | ☐ |

b) Returnable Schedules required for Bid Evaluation purposes

- | | | |
|----|---|--------------------------|
| A: | Certificate of attendance of briefing session | ☐ |
| B: | Bill of Quantities (BOQ) | ☐ |

c) Other Documents required for Bid Evaluation purposes

- | | | |
|----|--|--------------------------|
| 1: | Company/business registration certificate (CK) issued by the Commissioner of Companies & Intellectual Property Commission (Joint Ventures/Close Corporation/Partnership/Company/Sole Proprietor) | ☐ |
| 2: | An original valid Tax Clearance Certificate issued by the South African Revenue Services. | ☐ |
| 3: | Certified copies of Identity Documents of shareholders | ☐ |
| 4: | B-BBEE Status Level Verification Certificate or Sworn Affidavit | ☐ |
| 5: | Letter of Authority indicating the person who will be authorized to sign bidding documents and contract on behalf of bidder | ☐ |
| 6: | General condition of a contract, signed | ☐ |
| 7: | CSD Reports (comprehensive) | ☐ |
| 8: | Check list of returnable documents | ☐ |



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

SBD 1

PART A: INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NAME OF DEPARTMENT/ PUBLIC ENTITY)					
BID NUMBER:	WTE-2538ES		CLOSING DATE:	11 DECEMBER 2025	
			CLOSING TIME:	11:00am	
DESCRIPTION	MIDMAR DAM: SUPPLY, DELIVERY AND INSTALLATION OF 3 HIGH MAST LIGHTS FOR A PERIOD OF 4 MONTHS				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)					
THE BID BOX AT THE ENTRANCE OF WATER AND SANITATION – MIDMAR DAM					
R103 PROSPECT STREET					
HOWICK, 3290					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO			TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON	Gerda Lamprecht		CONTACT PERSON	Mr. M Zuma	
TELEPHONE NUMBER	033 239 1309			033 239 1286	
E-MAIL ADDRESS	lamprechtg@dws.gov.za		E-MAIL ADDRESS	ZumaM@dws.gov.za	
SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No:	MAAA
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE	TICK APPLICABLE BOX] ☐ Yes ☐ No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT		[TICK APPLICABLE BOX] ☐ Yes ☐ No
[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]					
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	☐ Yes ☐ No [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?		☐ Yes ☐ No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS					
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?				☐ YES ☐ NO	
DOES THE ENTITY HAVE A BRANCH IN THE RSA?				☐ YES ☐ NO	
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?				☐ YES ☐ NO	
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?				☐ YES ☐ NO	
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 BELOW.					

PART B

TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:

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

2. TAX COMPLIANCE REQUIREMENTS

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

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

SIGNATURE OF BIDDER:

.....

CAPACITY UNDER WHICH THIS BID IS SIGNED:

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

.....

DATE:

.....



SBD 3.1

PRICING SCHEDULE – FIRM PRICES
(PURCHASES)

NOTE: ONLY FIRM PRICES WILL BE ACCEPTED. NON-FIRM PRICES (INCLUDING PRICES SUBJECT TO RATES OF EXCHANGE VARIATIONS) WILL NOT BE CONSIDERED

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

Name of bidder.....

Bid number: **WTE-2538ES**

Closing date: **11 DECEMBER 2025**

Closing Time **11:00**

OFFER TO BE VALID FOR **120 DAYS** FROM THE CLOSING DATE OF BID.

ITEM NO.	DESCRIPTION OF GOODS	QTY	UNIT PRICE (To be filled by the bidder)	BID PRICE (To be filled by the bidder)
1	SCHEDULE A – GENERAL ESTABLISHMENT	SUM		
2	SCHEDULE B – WORKS: SUPPLY AND INSTALLATION OF HIGH MAST LIGHTS	SUM		
			5% CONTINGENCIES	
			15% VAT	
			TOTAL BID PRICE	

-
- **Required by:** OPERATIONS EASTERN
 - **Attention:** SUPPLY CHAIN MANAGEMENT
 - **Brand and model**
 - **Country of origin**
 - **Does the offer comply with the specification(s)?** *YES/NO
 - **If not to specification, indicate deviation(s)**
 - **Period required for delivery**
*Delivery: Firm/not firm
 - **Delivery basis**

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

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

***Delete if not applicable**

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

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

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

2. Bidder's declaration

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

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

Full Name	Identity Number	Name of State institution

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

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

2.2.1 If so, furnish particulars:

.....

.....

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

2.3.1 If so, furnish particulars:

.....

.....

3 DECLARATION

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

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The Bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium² will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the Bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

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

- 3.5 There have been no consultations, communications, agreements or arrangements made by the Bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the Bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

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

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

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

SBD 6.1

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

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

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

1. GENERAL CONDITIONS

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

1.2 To be completed by the organ of state

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

- 1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

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

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

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

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

2. DEFINITIONS

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

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 80/20 PREFERENCE POINT SYSTEMS

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

80/20 or

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

Where

Ps = Points scored for price of tender under consideration
Pt = Price of tender under consideration
Pmin = Price of lowest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

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

Table 1: Specific goals for the tender and points claimed are indicated per the table below.
(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.

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

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points Claimed (80/20 system) To be completed by the Tenderer
Women Ownership	5	
Disability Ownership	5	
Youth Ownership	5	
Location of enterprise (local equals province) Western Cape	2	
B-BBEE status level contribution from level 1 to 2 which are QSE or EME	3	

DECLARATION WITH REGARD TO COMPANY/FIRM

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

4.4. Company registration number:

4.5. TYPE OF COMPANY/ FIRM

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

[TICK APPLICABLE BOX]

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

- i) The information furnished is true and correct.
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form.

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

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

LOCAL CONTENT ANNEXURE C (if applicable)

SATS 1286.2011

Annex C

Local Content Declaration - Summary Schedule

(C1) Tender No.
(C2) Tender description:
(C3) Designated product(s)
(C4) Tender Authority:
(C5) Tendering Entity name:
(C6) Tender Exchange Rate:
(C7) Specified local content %

Note: VAT to be excluded from all calculations

Pula EU GBP

Calculation of local content							
Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)

Tender summary			
Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C16)	(C17)	(C18)	(C19)

Signature of tenderer from Annex B

Date: _____

(C20) Total tender value R 0
(C21) Total Exempt imported content R 0
(C22) Total Tender value net of exempt imported content R 0
(C23) Total Imported content R 0
(C24) Total local content R 0
(C25) Average local content % of tender

CONTRACT

- C1: CONTRACT DATA**
- C2: PRICING DATA**
- C3: SCOPE OF WORK**
- C4: SITE INFORMATION**

CONTRACT

TABLE OF CONTENTS

Page

C1: CONTRACT DATA

C1.1: CONTRACT DATA	
C1.1.1: CONDITIONS OF CONTRACT	
C1.1.2: PART A: DATA PROVIDED BY THE EMPLOYER	
PART B: DATA PROVIDED BY THE CONTRACTOR	
C1.2: PERFORMANCE GUARANTEE.....	
C1.3: AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT No 85 OF 1993.....	
C1.4: RETENTION MONEY GUARANTEE	
C1.5: TRANSFER OF RIGHTS.....	

C2: PRICING DATA

C2.1: INSTRUCTIONS.....	
C2.2: SCHEDULE OF QUANTITIES	

C3: SCOPE OF WORK

TABLE OF CONTENTS.....	
C3.1: STANDARD SPECIFICATIONS	
C3.2: TECHNICAL SPECIFICATIONS.....	
C3.3: PARTICULAR SPECIFICATIONS	

C4: SITE INFORMATION

C4.1: LOCALITY PLAN	
C4.2: EXISTING SERVICES REPORT.....	
C4.3: FORMS AND ANEXURES.....	

C1.1: CONTRACT DATA

C1.1.1: CONDITIONS OF CONTRACT

TABLE OF CONTENTS

C1.1.1.1	GENERAL CONDITIONS OF CONTRACT
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C1.1.1 CONDITIONS OF CONTRACT

C1.1.1.1 GENERAL CONDITIONS OF CONTRACT

This Contract will be based on the "General Conditions of Contract for Construction Works, Third Edition, 2015", issued by the South African Institution of Civil Engineering (abbreviated title: "GCC 2015").

C1.1.2: CONTRACT DATA (Applicable to this contract)

PART A: DATA PROVIDED BY THE EMPLOYER

The following contract specific data are applicable to this contract.

REFERENCE	CONTRACT SPECIFIC DATA PROVIDED BY THE EMPLOYER
1.	GENERAL
Clause 1.1.1.13:	The Defects Liability Period is 12 months.
Clause 1.1.1.14:	The time for achieving Practical Completion is <u>4 months</u> from the Commencement Date, including non-working days and special non-working days.
Clause 1.1.1.26:	Pricing Strategy: The Contract is to be a Re-measurement Contract.
Clause 1.1.1.15:	Name of Employer: Department of Water and Sanitation
Clause 1.2.1.2:	Address of Employer: <u>Physical:</u> R103 Propsect Road Howick 3290 <u>Postal:</u> Private Bag X 23 Howick 3290 E-Mail: MkhizeN6@kzntransport.gov.za Telephone No: (033) 355 0623
Clause 1.1.1.16:	Name of Employer's Agent: Melisizwe Zuma
Clause 1.2.1.2:	Address of Employer's Agent: <u>Physical:</u> R103 Pospect Road Howick 3290 <u>Postal:</u> Private bag X 23 Howick 3290 E-Mail: ZumaM@dws.gov.za Telephone No: (033) 239 1286
3.	EMPLOYER'S AGENT
Clause 3.2.3:	The Employer's Agent is required to obtain the specific approval of the Employer for any expenditure in excess of the Contract Price.

REFERENCE	CONTRACT SPECIFIC DATA PROVIDED BY THE EMPLOYER
5.	TIME AND RELATED MATTERS
Clauses 5.3.1 and 5.3.2:	Where the Employer <u>is not required</u> to apply for a permit to do construction work in terms of Construction Regulation 3(1), the following documentation is to be submitted within <u>14 days</u> from the Commencement Date: The documents required before commencing to carry out the Works: • Health and Safety Plan (refer to Clause 4.3) • Initial Programme (refer to Clause 5.6) • Security (refer to Clause 6.2) • Insurance (refer to Clause 8.6) • Form C1.4 'Agreement in terms of Section 37(2) of the Occupational Health and Safety Act No. 85 of 1993' to be signed by the Contractor and the Employer (refer to Clause 4.3 of the GCC 2015 and to paragraph E9. CONTRACTOR'S RESPONSIBILITIES in Part E of C3.3 Particular Specifications)
Clauses SCC 5.3.1 and SCC 5.3.2:	Where the Employer <u>is required</u> to apply for a permit to do construction work in terms of Construction Regulation 3(1), the following documentation is to be submitted within <u>14 days</u> from the date that the Agreement, made in terms of the Form of Offer and Acceptance, comes into effect: The documents required before commencing to carry out the Works: • Health and Safety Plan (refer to Clause 4.3) • Initial Programme (refer to Clause 5.6) • Security (refer to Clause 6.2) • Insurance (refer to Clause 8.6) • Form C1.4 'Agreement in terms of Section 37(2) of the Occupational Health and Safety Act No. 85 of 1993' to be signed by the Contractor and the Employer (refer to Clause 4.3 of the GCC 2015 and to paragraph E9. CONTRACTOR'S RESPONSIBILITIES in Part E of C3.3 Particular Specifications) And: The documents required by the Employer to apply for a permit to do construction work in terms of Regulations 3(1) and (2) of the Construction Regulations 2014:

REFERENCE	CONTRACT SPECIFIC DATA PROVIDED BY THE EMPLOYER
	• Temporary works designer's appointment duties in terms of Regulation 6(2) as have been agreed upon plus proof of registration with ECSA [CR 3(5)(b)(iii) read with CR 5(1)(e) and CR 6(2)]; • Evidence that the contractor has made adequate provision for the cost of Health and Safety, i.e., Bill of quantities [CR 3(5)(b)(iii) read with CR 5(1)(g)]; • Evidence that the Principal contractor has the necessary competencies to carry out construction work safely, viz., schedule of activities, relevant appointments and proofs of competency [CR 5(1)(h)]; • Valid Letter(s) of Good Standing for the appointed Principal Contractor(s) [CR 3(5)(b)(ii) read with CR 5(1)(j)].
Clause 5.8.1:	The non-working days are Sundays. The special non-working days are the construction industry year end break, all foreseeable statutory election days as declared by National Government, and the following statutory public holidays as declared by National Government: New Year's Day, Human Rights Day, Good Friday, Family Day, Freedom Day, Workers' Day, Youth Day, National Women's Day, Heritage Day, Day of Reconciliation, Christmas Day and the Day of Goodwill. The construction industry year end break commences on the first working day after 15 December and ends on the first working day after 5 January of the following year.
Clause 5.13.1:	The penalty for failing to complete the Works is 0,05% of the Contract Sum per day, up to a maximum limit of twenty-five thousand rand per day (R25000,00 per day).
Clause 5.14.1:	The requirements for achieving Practical Completion are as stated in clause 1210 of the COLTO Standard Specifications for Road and Bridge Works for State Road Authorities 1998 Edition, as amended in clause B1210 in Part B of C3.2: Project Specifications where applicable.
Clause 5.16.3:	The latent defects period is 10 years.

REFERENCE	CONTRACT SPECIFIC DATA PROVIDED BY THE EMPLOYER
6.	PAYMENT AND RELATED MATTERS
Clauses 6.2.1 and SCC 6.2.1:	The security to be provided by the Contractor shall be: Fixed Performance Guarantee of 8% of the first One Million Rand plus 3.5% of the balance of the accepted Contract Sum.
Clause 6.5.1.2.3:	The percentage allowance to cover overhead charges is 15%.
Clauses 6.8.2 and SCC 6.8.2:	The value of the certificates issued shall be adjusted in accordance with the Contract Price Adjustment Schedule with the following values: The values of the coefficients for calculating the Contract Price Adjustment Factor are: a = 0.20 b = 0.35 c = 0.35 d = 0.10 The "Consumer Price Index" will be as for the Province of <u>KwaZulu-Natal</u> . The base month is the month prior to the month in which the closing date for the tender falls.
Clause 6.8.3:	Price adjustments for variations in the costs of special materials are allowed.
Clause 6.10.1.5:	The percentage advance on materials not yet built into the Permanent Works is 80%.
Clause 6.10.3:	The percentage retention on the amounts due to the Contractor is 10%. The limit of retention money is 5% of the first One Million Rand plus 1.6% of the remaining amount of the tender offer excluding Contract Price Adjustment, contingencies and VAT. A retention guarantee in lieu of a cash retention is permitted.
8.	RISKS AND RELATED MATTERS
Clause 8.6.1.1.2:	The value of Plant and materials supplied by the Employer to be included in the insurance sum is NIL.
Clause 8.6.1.1.3:	The amount to cover professional fees for repairing or reinstatement of damage to the Works to be included in the insurance sum is NIL.
Clause 8.6.1.2:	Special Risks Insurance issued by SASRIA is required.
Clause 8.6.1.3:	The limit of indemnity for liability insurance is <u>R10 000 000,00 (ten million Rand only)</u> for any single liability claim. Liability insurance shall include spread of fire risk.
10.	CLAIMS AND DISPUTES
Clause 10.5.3:	The number of Adjudication Board Members to be appointed is one.
Clause 10.7.1:	Unresolved disputes shall be referred to arbitration.

C1.2.2: CONTRACT DATA (Applicable to this contract)

PART B: DATA PROVIDED BY THE CONTRACTOR

The following contract specific data are applicable to this contract.

REFERENCE	CONTRACT SPECIFIC DATA PROVIDED BY THE CONTRACTOR						
1.	GENERAL						
Clause 1.1.1.9:	Name of the Contractor:						
							
Clause 1.2.1.2:	Address of the Contractor:						
	<u>Physical:</u>						
	<u>Postal:</u>						
							
							
							
							
6.	PAYMENT AND RELATED MATTERS						
Clause 6.8.3:	The Tenderer shall complete Table 1 below with respect to each of the special materials listed. This information shall be used to calculate the variation in cost of the special materials. The rates and prices for the special materials shall be furnished by the Tenderer, which rates and prices shall not include VAT but shall include all other obligatory taxes and levies. The tendered price to be provided by the Tenderer is the ruling price on the first of the month prior to the month in which the closing date for the Tender falls. Table 1 <table border="1"> <thead> <tr> <th>SPECIAL MATERIALS</th><th>UNIT*</th><th>RATE OR PRICE FOR THE BASE MONTH</th></tr> </thead> <tbody> <tr> <td></td><td></td><td>.....</td></tr> </tbody> </table> * Indicate whether the material shall be delivered in bulk or in containers. When called upon to do so, the Contractor shall substantiate the above rates or prices with acceptable documentary evidence. Signed on behalf of Tenderer:	SPECIAL MATERIALS	UNIT*	RATE OR PRICE FOR THE BASE MONTH			
SPECIAL MATERIALS	UNIT*	RATE OR PRICE FOR THE BASE MONTH					
							

C1.2: PERFORMANCE GUARANTEE

PRO FORMA

PERFORMANCE GUARANTEE

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

1. GUARANTOR DETAILS AND DEFINITIONS

“Guarantor” means:

Physical address:

“Employer” means:

“Contractor” means:

“Employer’s Agent” means:

“Works” means:

“Site” means:

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

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

Amount in words:

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

Amount in words:

“Expiry Date” means: 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.

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.

3. GUARANTOR’S LIABILITY

3.1 The Guarantor’s liability shall be limited to the amount of the Guaranteed Sum.

3.2 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.

3.3 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.

4. CONDITIONS APPLICABLE TO THIS PERFORMANCE GUARANTEE

4.1 The Guarantor hereby acknowledges that:

4.1.1 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.

4.1.2 Its obligation under this Performance Guarantee is restricted to the payment of money.

4.2 Subject to the Guarantor's maximum liability referred to in 3.1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 4.2.1 to 4.2.3:

4.2.1 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 4.2.2;

4.2.2 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 4.2.1 and the sum certified has still not been paid;

4.2.3 A copy of the aforesaid payment certificate which entitles the Employer to receive payment in terms of the Contract of the sum certified in 4.2.

4.3 Subject to the Guarantor's maximum liability referred to in 3.1, 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:

4.3.1 the Contract has been terminated due to the Contractor's default and that this Performance Guarantee is called up in terms of 4.3; or

4.3.2 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 4.3; and

4.3.3 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.

4.4 It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 4.2 and 4.3 shall not exceed the Guarantor's maximum liability in terms of 3.1.

4.5 Where the Guarantor has made payment in terms of 4.3, 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.

4.6 Payment by the Guarantor in terms of 4.2 or 4.3 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.

4.7 Payment by the Guarantor in terms of 4.3 will only be made against the return of the original Performance Guarantee by the Employer.

4.8 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.

- 4.9 The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith.
- 4.10 This Performance Guarantee is neither negotiable nor transferable and shall expire in terms of 3.2, 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.
- 4.11 This Performance Guarantee, with the required demand notices in terms of 4.2 or 4.3, shall be regarded as a liquid document for the purposes of obtaining a court order.
- 4.12 Where this Performance Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrates' Courts Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court.

Signed at

Date

Guarantor's signatory (1)

Capacity

Guarantor's signatory (2)

Capacity

Witness signatory (1)

Witness signatory (2)

C1.3: AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT No 85 OF 1993

THIS AGREEMENT is made between The Republic of South Africa represented by Director General:
Department of Water and Sanitation
(hereinafter called the EMPLOYER) of the one part, herein represented by:

.....
in his capacity as:

AND:

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

.....
in his capacity as:

duly authorised to sign on behalf of the Contractor.

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

SUPPLY, DELIVERY AND INSTALLATION OF (3) 30M HIGH MAST LIGHT FOR A PERIOD OF 4 MONTHS.

for the construction, completion and maintenance of the works;

AND WHEREAS the EMPLOYER and the CONTRACTOR have agreed to enter into an agreement in terms of the provisions of Section 37(2) of the Occupational Health and Safety Act No 85 of 1993, as amended by OHS Act Amendment Act No 181/1993 (hereinafter referred to as the ACT);

NOW THEREFORE the parties agree as follows:

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

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

Thus signed at..... for and on behalf of the **CONTRACTOR**

on this the day of 20.....

SIGNATURE:

NAME AND SURNAME:

CAPACITY:

WITNESSES: 1.

2.

Thus signed at..... for and on behalf of the **EMPLOYER** on this

the day of 20.....

SIGNATURE:

NAME AND SURNAME:

CAPACITY:

WITNESSES: 1.

2.

C1.4: RETENTION MONEY GUARANTEE

PRO FORMA

RETENTION MONEY GUARANTEE

DEPARTMENT OF WATER AND
SANITATION
PRIVATE BAG X25
HOWICK
3290

SUPPLY, DELIVERY AND INSTALLATION OF (3) 30M HIGH MAST LIGHT FOR A PERIOD OF 4 MONTHS.

ISSUED TO: the **REPUBLIC OF SOUTH AFRICA**, represented by **DIRECTOR GENERAL: DEPARTMENT OF WATER AND SANITATION** (Hereinafter referred to as "the Employer")

ON BEHALF OF:(Hereinafter referred to as "the Contractor")

In connection with

CONTRACT NO......(Hereinafter referred to as "the Contract")

WHEREAS the Employer and the Contractor have agreed that the Contractor may provide a guarantee in lieu of the whole or portion of the retention monies provided for under the Contract;

NOW THEREFORE we, the undersigned, undertake, in accordance with the following provisions, to pay the Employer such amounts as the Employer may, from time to time, demand from us.

1. Each demand by the Employer shall be in writing signed by the Employer and delivered to us at

.....
or such other address as we shall in writing notify to the Employer and shall be accompanied by a certificate complying with Clause 2, signed by the Employer's Agent as such in terms of the Contract.

2. The Employer's Agent's certificate referred to in Clause 1 shall certify

- (a) that he is the Employer's Agent in terms of the Contract,
- (b) that the Contractor is in breach of his obligations under the Contract, and
- (c) that the amount demanded, which amount the certificate shall specify,

- (i) does not exceed the amount of retention monies which, but for this guarantee, would have been retained by the Employer in terms of the Contract at the date of the certificate, less the aggregate of the amounts of retention money actually retained by the Employer and the amounts previously paid by us to the Employer in terms hereof, and

- (ii) does not exceed a genuine estimate of the cost to the Employer of having the breach referred to in paragraph (b) remedied less the aggregate of any amounts withheld by the Employer from payments due the Contractor in terms of the Contract by reason of the breach referred to, and any amount in retention money actually held by the Employer save to the extent that the same had been deducted from any previous demand in terms hereof.

3. We shall within 28 days after our receipt of a demand complying with the provisions of Clauses 1 and 2 make payment to the Employer of the amount demanded at R103 Prospect Road, Howick, 3290 or at such other address as the Employer shall in writing notify us.
4. Subject to compliance with the provisions thereof, our liability to make the payments herein referred to shall be unconditional and shall not be affected nor diminished by any disputes, claims or counterclaims between the Employer and the Contractor.

5. Our aggregate liability under this guarantee is limited to R
6. This guarantee shall expire on the date on which the last of the retention monies, which but for this guarantee would have been retained by the Employer, becomes payable to the Contractor.
7. This guarantee is not transferable and must be produced for endorsement if any part payment is made and must be returned to us against final payment of our aggregate liability or on the date of the expiry of the guarantee in terms of Clause 6, whichever is the earlier.

Signed in the presence of the witnesses named hereunder:

At for and on behalf of

on this day of

Signature:

Capacity:

Address:

As Witnesses:

1. Name in Block Letters ...

2. Name in Block Letters

C1.5: TRANSFER OF RIGHTS

TRANSFER OF RIGHTS AND INDEMNITY

(To be completed during construction by successful Tenderer only)

Claim for materials on site, Payment Certificate No. Date:

SUPPLY, DELIVERY AND INSTALLATION OF (3) 30M HIGH MAST LIGHT FOR A PERIOD OF 4 MONTHS

I, the undersigned (name of signatory) in my capacity as

..... of (name of Contractor)

duly authorised hereto on behalf of the Contractor hereby transfer, cede and assign all the Contractor's rights, title and interest in and to the materials and goods, for which evidence of bona fide ownership is attached hereto, unto and in favour of (name of Employer)

Insofar as the Contractor retains actual control of the materials and goods, the right of ownership thereof passes to the Employer by *constitutum possessorium*.

I herewith indemnify the Employer against any claim to and in respect of said materials by reason of the Contractor's sequestration or liquidation or of any defect in the Contractor's title to the materials and agree that no payment for materials on site will be made by the Employer until such time as I have submitted documentary proof of bona fide ownership of the said materials and goods.

This transfer shall become effective upon conclusion of the Contractor receiving payment from the Employer or from any other person on behalf of the Employer for the materials and goods as Materials on Site, payment of retention money thereon excluded.

I further confirm that I am fully responsible for all materials and goods listed under this Transfer of Rights and that they have been insured adequately against all risks and will remain insured until they are built into or used in the permanent works and taken over by the Employer.

This certificate of Transfer of Rights applies only to the materials and goods as listed in the following table.

DESCRIPTION OF ITEM	UNIT	QUANTITY	RATE	AMOUNT	SUPPLIER
TOTAL VALUE OF MATERIALS AND GOODS					

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

Witnessed by: **Date:**

NOTE: This form, together with the documentary proof of ownership or proof of payment by the Contractor to the supplier, shall accompany the Contractor's claim for payment for materials on site in terms of Clause 6.10.1.5 of the General Conditions of Contract 2015.

C2: PRICING DATA

C2.1 INSTRUCTIONS

1. GENERAL

The Schedule of Quantities forms part of the Contract Documents and must be read in conjunction with all the other documents comprising the Contract Documents, which include the Conditions of Tender, Conditions of Contract, the Specifications (including the Project Specifications) and the Drawings.

2. DESCRIPTION OF ITEMS IN THE SCHEDULE

The short descriptions of the items in the Schedule of Quantities are for identification purposes only and the measurement and payment clause and the Particular Specifications, read together with the relevant clauses of the amendments and additions contained in the Project Specifications and directives on the drawings, set out what ancillary or associated work and activities are included in the rates for the operations specified.

For the purposes of this Schedule of Quantities, the following words shall have the meanings hereby assigned to them:

Unit: The unit of measurement for each item of work as defined in the specifications.

Quantity: The number of units of work for each item.

Rate: The payment per unit of measurement at which the Tenderer quotes to do the work.

Amount: The product of the quantity and the rate tendered for an item.

Lump Sum: An amount tendered for an item, the extent of which is described in the Schedule of Quantities, the specifications or elsewhere but the quantity of work of which is not measured in any units.

3. QUANTITIES REFLECTED IN THE SCHEDULE

The quantities given in the Schedule of Quantities are estimates only, and are subject to re-measure during the execution of the work. The quantities finally accepted and certified for payment, and not the quantities given in the Schedule of Quantities, shall be used to determine payments to the Contractor. The Contractor shall obtain the Employer's Agent's detailed instructions for all work before ordering any materials or executing work or making arrangements for it. The quantities of material or work stated in the Schedule of Quantities shall not be regarded as authorisation for the Contractor to order material or to execute work.

The Works as finally completed in accordance with the Contract shall be measured and paid for as specified in the Schedule of Quantities and in accordance with the General and Special Conditions of Contract, the COLTO Standard Specifications subclause 1209(a), the Project Specifications and the Drawings. Unless otherwise stated, items are measured net in accordance with the Drawings, and no allowance has been made for waste. The validity of the contract will in no way be affected by differences between the quantities in the Schedule of Quantities and the quantities finally certified for payment.

4. PROVISIONAL SUMS

Where Provisional sums or Prime Cost sums are provided for items in the Schedule of Quantities, payment for the work done under such items will be made in accordance with Clause 6.6 of the General Conditions of Contract 2015. The Employer reserves the right, during the execution of the works, to adjust the stated amounts upwards or downwards according to the work actually done under the item, or the item may be omitted altogether, without affecting the validity of the Contract.

The Tenderer shall not under any circumstances whatsoever delete or amend any of the sums inserted by the Employer in the "Amount" column of the Schedule of Quantities and in the Summary of the Schedule of Quantities unless so ordered or authorised in writing by the Employer before closure of tenders. Any unauthorised changes made by the Tenderer to provisional items in the schedule, or to the provisional percentages and sums in the Summary of the Schedule of Quantities, at the Employer's discretion, may invalidate the Tenderer's offer or may be treated as arithmetical errors and the provisional items and percentages corrected without change to the Contract Sum.

5. SCHEDULE OF QUANTITIES

The Schedule of Quantities in the tender document are listed as a project scope by the Employer for the work described under the several items, Actual quantities will be issued later and shall include full compensation for all costs and expenses that may be required in and for the completion and maintenance during the defects liability period of all the work described and as shown on the drawings as well as all overheads, profits, incidentals and the cost of all general risks, liabilities and obligations set forth or implied in the documents on which the Tender is based.

Each item shall be priced on a later stage and extended to the "Amount" column by the Tenderer, with the exception of the items for which only rates are required, or items which already have Prime Cost or Provisional Sums affixed thereto. If the Tenderer omits to price any items in the Schedule of Quantities, then these items will be considered to have a nil rate or price.

All items for which terminology such as "inclusive" or "not applicable" have been added by the Tenderer will be regarded as having a nil rate which shall be valid irrespective of any change in quantities during the execution of the Contract.

Should the Tenderer group a number of items together and tender one lump sum for such group of items, this single lump sum shall apply to that group of items and not to each individual item.

The tendered lump sums and rates shall be valid irrespective of any change in the quantities during the execution of the contract.

The Tenderer shall fill in rates for all items where the words "rate only" appear in the "Amount" column. "Rate Only" items have been included where:

- (a) an alternative item or material is contemplated;
- (b) variations of specified components in the make-up of a pay item may be expected; and
- (c) no work under the item is foreseen at tender stage but the possibility that such work may be required is not excluded.

For "Rate Only" items, no quantities are given in the "Quantity" column but the tendered rate shall apply in the event of work under this item being required. The Tenderer shall, however, note that in terms of the Tender Data the Tenderer may be asked to reconsider any such rates which the Employer may regard as unbalanced.

Reasonable compensation will be received where no payment item appears in respect of work required in terms of the Contract which is not covered in any other pay item.

All rates and amounts tendered in the Schedule of Quantities shall be in Rands and cents and shall include all levies and taxes (other than VAT). VAT will be added in the summary of the Schedule of Quantities. Note that fractions of a cent in all rates shall be omitted.

6. CORRECTION OF ENTRIES

Incorrect entries shall not be erased or obliterated with correction fluid but must be crossed out neatly. The correct figures must be entered above or adjacent to the deleted entry, and the alteration must be initialled by the Tenderer.

7. INTERIM PAYMENTS

Unless otherwise specified, progress payments in Interim Certificates, referred to in Clause 6.10 of the General Conditions of Contract 2015, in respect of "sum" items in the Schedule of Quantities shall be by means of interim progress instalments assessed by the Employer's Agent and based on the measure in which the work actually carried out relates to the extent of the work to be done by the Contractor.

Notwithstanding any custom to the contrary, the work as executed will be measured for payment in accordance with the methods described in the contract documents under the various items of payment.

8. UNITS OF MEASUREMENT

The units of measurement described in the Schedule of Quantities are metric units. The following abbreviations are used in the Schedule of Quantities:

mm	= millimetre	m ³ -km	= cubic metre-kilometre	Prov sum	= provisional sum
m	= metre	l	= litre	kPa	= kilopascal
km	= kilometre	kl	= kilolitre	MPa	= megapascal
km-pass	= kilometre-pass	kg	= kilogram	MN	= meganewton
m ²	= square metre	t	= ton (1 000 kg)	t-km	= ton-kilometre
m ² -pass	= square metre-pass	No	= number	h	= hour
ha	= hectare	%	= percent	dia	= diameter
m ³	= cubic metre	PC sum	= prime cost sum	Sum	= lump sum
kW	= kilowatt	MN-m	= meganewton-metre		

9. CONSISTENCY OF RATES

In order to ensure that payments certified by the Employer's Agent are reasonably consistent with the market value of the work done, and that variations in quantities do not distort the contract valuation, the rates, prices and amounts tendered in the Schedule of Quantities are required to be in balance.

A tender will be considered out of balance if:

- (i) the combined, extended total tendered for the item:

B13.01 The contractor's general obligations:

- (a) Fixed obligations
- (b) Value-related obligations
- (c) Time-related obligations

exceeds a maximum of 15% of the Contract Sum (excluding contingencies, escalation and VAT).

- (ii) the rate, price or amount tendered for any other item differs by more than 20 (twenty) percent from the average of the rates, prices or amounts for the same item as tendered by those Tenderers who submitted the lowest five responsive tender offers (or as tendered by all the responsive Tenderers if there are less than five responsive Tenderers).

Any such unbalanced tender may be rejected if, after fourteen (14) days of having been given written notice by the Employer to adjust those rates or lump sums which are unreasonable or out of balance, the Tenderer fails to make the necessary satisfactory adjustments. These adjustments in rectification will be such that increases are balanced by decreases, leaving the tender offer unchanged.

11. FILLING OUT OF SCHEDULE

The schedule must be filled out by hand in **black ink only**.

Typed out schedules and computer generated schedules including automated calculations will **NOT** be accepted. Tenders will be considered non-responsive. If this is found to be the case.

12. HANDLING COSTS

Handling costs and profits in respect of specialist work carried out by approved 3rd party Tenderers and Provisional sum items, shall not exceed 10% of the work amount or provisional sum costs.

13. PAYMENT FOR THE LABOUR-INTENSIVE COMPONENT OF THE WORKS:

Those parts of the works to be constructed using labour-intensive methods are marked in the bill of quantities with the letters LI either in a separate column or as a prefix or suffix 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 deviation from the contract. The items marked with the letters LI are not necessarily an exhaustive list of all the activities which must be done by hand and this clause does not over-ride any of the requirements in the generic labour-intensive specification in the Scope of Works.

Where minimum labour intensity is specified in the design, the contractor is expected to use their initiative to identify additional activities that can be done labour-intensively in order to comply with the set minimum labour intensity targets.

Payment for items which are designated to be constructed labour-intensively (either in this schedule or in the Scope of Works) will not be made unless they are constructed using labour-intensive methods. Any unauthorised use of plant to carry out work which was to be done labour-intensively will not be condoned and any works so constructed will not be certified for payment. Any non-payment for such works shall not relieve the Contractor in any way from his obligations either in contract or in delict.

NOTE REGARDING THE “LI” COLUMN IN THE SCHEDULE OF QUANTITIES:

The schedule of quantities contains a column designated “LI”. The letters “LI” are written in the “LI” column against certain items which must be executed using labour intensive construction methods.

Such items include:

- (a) Items in the standard specifications that would normally be executed using plant but which have been modified specifically so as to require the use of labour intensive construction methods instead of plant for some or all of the work components of the item.
- (b) New items that have been written for this contract specifically requiring the use of labour intensive construction methods rather than plant for some or all of the work components of the item.

The letters “LI” are not written in the “LI” column against items in the standard specifications that would normally be constructed using labour intensive construction methods anyway, for example items for the construction of brickwork, gabions, fencing or guardrails.

C2.2. SCHEDULE OF QUANTITIES

TABLE OF CONTENTS

SCHEDULE OF QUANTITIES



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

CONTRACT NO: WTE-2538ES

PRICING DATA: BILL OF QUANTITIES

MIDMAR DAM: SUPPLY, DELIVERY AND INSTALLATION OF (3) 30M HIGH MAST LIGHT FOR A PERIOD OF 4 MONTHS

SCHEDULE A – GENERAL

ESTABLISHMENT

Item. No.	Pay Ref.	Description	Unit	QTY	Rate	Amount
1		PRELIMINARIES				
1.1		Contractor's general obligations				
1.1.1		(a) Fixed obligations	Sum	1	.....	.....
1.1.2		(c) Time-related obligations	Month	4	.....	.....
1.2		OHS 1993 Safety specification				
1.2.1		(a) Health and safety officer for the duration of the project.	Sum	1	.....	.....
1.2.2		(b) Required documentation from OHS officer(H&S plan, risk assessment, etc) and PPE.	Sum	1	.....	.....
SUB TOTAL CARRIED TO THE SUMMARY PAGE						

SCHEDULE B – WORKS

INSTALLATION OF HIGH MAST LIGHTS

Item. No.	Pay Ref.	Description	Unit	QTY	Rate	Amount
2	B2	INSTALLATION OF HIGH MAST LIGHTS				
2.1	B2.1	Excavation and Preparation of Foundations	Sum	10	.....	.....
2.2	B2.2	Concrete for Mast Foundation (Grade 25/30)	Sum	10	.....	.....
2.3	B2.3	Supply and Fixing of Foundation Bolts and Anchor Plates	No.	3	.....	.....
2.4	B2.4	Supply and Erection of High Mast Poles and Earthing	No.	3	.....	.....
2.5	B2.5	Supply and installation of Winch and Gear System	No.	3	.....	.....
2.6	B2.6	Supply and Installation of Lighting Fixtures (LED Flood lights)	No.	18	.....	.....
2.7	B2.7	Supply and Installation of Control Panel with Timer and Protection Equipment	No.	3	.....	.....
2.8	B2.8	Connection to Power Supply	No.	3	.....	.....
SUB TOTAL CARRIED TO THE NEXT PAGE						

SCHEDULE B – WORKS

INSTALLATION OF HIGH MAST LIGHTS

Item. No.	Pay Ref.	Description	Unit	QTY	Rate	Amount
SUB TOTAL BROUGHT FORWARD FROM THE PREVIOUS PAGE						
3	B3	TESTING AND COMMISSIONING				
3.1	B3.1	Testing of Lighting System	Lump Sum	1	.....	.....
3.2	B3.2	Commissioning and Handover	Lump Sum	1	.....	.....
4	B4	SITE RESTORATION AND FINAL WORKS				
4.1	B4.1	Demobilization and site clean- up	Lump Sum	1	.....	.....
4.2	B4.2	As-Built Drawings and Documentation	Lump Sum	1	.....	.....
SUB TOTAL CARRIED TO THE SUMMARY PAGE						



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

CONTRACT NO: WTE-2538ES

PRICING DATA: BILL OF QUANTITIES

MIDMAR DAM: SUPPLY, DELIVERY AND INSTALLATION OF (3) 30M HIGH MAST LIGHT FOR A PERIOD OF 4 MONTHS

SUMMARY OF BILL OF QUANTITIES

SECTION	DESCRIPTION	SECTION AMMOUNT
	SCHEDULE A – GENERAL	R
B	SCHEDULE B – WORKS	R
	Sub Total 1	R
	ADD: 5% of Sub Total 1 Contingencies	R
	Sub Total 2	R
	ADD: 15% of Sub Total 2 Value Added (VAT)	R
	TOTAL CARRIED TO FORM OF OFFER	R

SIGNATURE OF BIDDER:

DATE:

C3: SCOPE OF WORK

TABLE OF CONTENTS

C3.1 STANDARD SPECIFICATIONS

C3.2 TECHNICAL SPECIFICATIONS

PROJECT SPECIFICATIONS RELATING TO THE STANDARD
SPECIFICATIONS AND OTHER ADDITIONAL SPECIFICATIONS

1	INTRODUCTION
2	SCOPE OF WORK
3	CONDITIONS OF CONTRACT
4	OCCUPATIONAL HEALTH AND SAFETY
5	INTERPRETATIONS
6	MATERIALS.....
7	MANUFACTURE
8	MODIFICATIONS
9	ELECTRICAL REQUIREMENTS.....
10	CORROSION PROTECTION
11	QUALITY CONTROL
12	PACKING AND TRANSPORT
13	COMPULSORY SITE INSPECTION

C3.3 PARTICULAR SPECIFICATIONS

PART C: ENVIRONMENTAL MANAGEMENT SPECIFICATION

PART D: DAYWORK

PART E: DEPARTMENT OF WATER AND SANITATION HEALTH AND SAFETY SPECIFICATION

C3.4 PARTICULAR SPECIFICATIONS

C3.1 STANDARD SPECIFICATIONS

The Standard Specifications on which this contract is based are the The Standard Specification: DWS 1601: GENERAL MECHANICAL SPECIFICATION, DWS 2020: QUALITY CONTROL SPECIFICATION, and DWS 9900: CORROSION PROTECTION SPECIFICATION.

C3.2 TECHNICAL SPECIFICATIONS

UMNGENI RIVER GWS: MIDMAR DAM: SUPPLY, DELIVERY AND INSTALLATION OF (3) 30M HIGH MAST LIGHT FOR A PERIOD OF 4 MONTHS

1 INTRODUCTION

Midmar Dam is situated on the Mgeni River in the KwaZulu Natal Province and is located on the Mgeni River adjacent to the N3 highway between the off ramps to Howick North / Tweedie and Howick. DWS designed the dam and construction was completed by them in 1965.

Midmar Dam is operated by Umngeni water board. Midmar dam offices, houses and dam do not have sufficient lighting at night which affects security at the dam.

Arrangements for site access shall need to be in line with the policies of Department of Water and Sanitation.

1.1 Directions to the dam

Midmar dam is located on the Umngeni River adjacent to the N3 highway between the off ramps to Howick North / Tweedie and Howick.. The geographical location of the Midmar Dam is Latitude(S): -29.494069° Longitude(E): 30.198480°. figure 1 below shows location of the dam. Yellow line represent land area that apollo light or high mast must cover.



Figure 1: Locality map (with 4 positions of high mast lights marked in red, Fist High Mast (-29.493669° S: 30.198309°E), Second High Mast(-29.490373°S: 30.200312°), Third High Mast(-29.488362°S: 30.199511°E), Forth High Mast(-29.486453°S: 30.197926°E))

1.2 Dam description or system

The dam wall is a composite structure consisting of an uncontrolled concrete labyrinth spillway located in the river section (originally an ogee spillway raised by 4.40m to a labyrinth spillway), flanked by earth fill embankments on either side.

On the far left end of the spillway, a 5.75m section of the labyrinth wall was kept straight and in line with the upstream face of the spillway to avoid the construction of very high training walls. On the far right a crest gate was installed to release environmental flows. The spillway ends in a concrete apron with a wave wall on the left of the apron.

The left and right embankments are approximately 208.8m and 837.7m long, respectively. The embankments were constructed with weathered dolerite from the area. At its highest section the right hand embankment is approximately 27.4m high and the crest width of both embankments are approximately 10.4m.

2 SCOPE OF WORK

The project includes following:

Supply, delivery of installation of (3) 30m high mast lights to Midmar Dam as follows.

2.1 Supply, delivery; installation and commission of high mast light

2.1.1 Design and specifications

1. Design Requirements:

- a) Electrical design shall be prepared by a professionally registered person in terms of the Engineering Profession Act, 2000.
- b) Design shall align with SANS 10142 and South African electrical standards.
- c) Detailed design drawings and calculations for the high mast light structure, including the mast, headframe, hinge mechanism, access door, and any other components.
- d) Complete electrical design drawings and calculations prepared by a professionally registered person.
- e) Comprehensive design calculations and drawings for the concrete foundation, prepared in accordance with relevant standards.

2. Circuit Breaker Sizes:

- a) Main circuit breaker: To be determined in design
- b) Sub-circuit breakers: To be determined in design (per high mast light).

3. Cable Sizes:

- a) Main feeder cable: To be determined in design

- b) Sub-circuit cables: To be determined in design.
4. Cable Routes:
- a) Cables shall be routed via approved cable trays or conduits
 - b) Cables shall be clearly labelled and identified
5. Cable Trenching:
- a) Trenches shall be dug to a depth of 750mm (minimum)
 - b) Trenches shall be 300mm (minimum) wide
 - c) Cable shall be laid on a 100mm (minimum) sand or fine aggregate bedding
6. Electrical Requirements:
- a) High mast lights shall be supplied from a dedicated distribution board
 - b) Distribution board shall be equipped with RCD protection (30mA, Type A)
 - c) Earthing system shall comply with SANS 10142 requirements
 - d) Lightning protection shall be provided (if necessary)
7. Luminaires:
- a) Type: LED luminaires, rated for outdoor use with IP66 protection or higher, meeting the specified lighting performance.
 - b) Light Output: Lumen output of each luminaire shall meet the project's design lux levels. A minimum luminous efficacy of 120 lumens/watt is required.
 - c) Color Temperature: Consider luminaires color temperature and a color rendering index (CRI) of at least 70.
 - d) Mounting: Luminaires shall be mounted securely to the mast, ensuring alignment for optimal light distribution as per the photometric design.
 - e) Control Gear: The luminaires shall be equipped with an efficient control gear (such as drivers) to ensure consistent performance and longevity. Surge protection devices shall be included.
8. Testing and Commissioning:
- a) All electrical installations shall be tested and commissioned by a competent person
 - b) Test certificate shall be issued upon successful completion
9. Additional Requirements:
- a) Compliance with SANS 10142 and South African electrical standards

- b) Adherence to manufacturer instructions and recommendations
- c) Cable trenching and backfilling shall be done in accordance with SANS 10142 requirements
- d) The contractor shall be responsible to supply the design, final specification and implementation for approval to the DWS Project Manager.
- e) The mast will be designed in accordance with SANS 0225.
- f) The mast will be manufactured to ISO 9001: 2015.
- g) The masts are Hot Dip Galvanised to SANS 121 / SABS 1461.
- h) All poles are manufactured from Grade GW355J HT steel and is manufactured in accordance with SANS 657/1&3.

2.1.2 Applications

- a) Mid-Hinged Poles, also known as Collapsible pole, are designed for ease of maintenance, especially under restricted conditions.
- b) The hinged mechanism enables the top half of the pole to swing down for maintenance at the ground level without needing the servicing personnel to climb up.
- c) Applications: Area Lighting

2.1.3 The structure

- a) The mast must consist of a fixed lower section with a base plate secured by holding down bolts to the mast
- b) Foundation.
- c) The top section must be fitted to the fixed lower portion by slip fitted and steel pins passing through both sections and secured by nuts and bolts.
- d) The Headframe must be fitted on the top section and secured by means of a slip joint
- e) The hinge / counter-balance sleeve is secured with a round steel pin that passes through the side plates of the fixed lower section.
- f) The hinge / counter-balance sleeve bottom section shall be secured to the fixed lower section by means of a bolt using a designed spanner to loosen the bolt.
- g) The hinge / counter-balance sleeve bottom section is also secured to the fixed lower section with a removable safety chain to prevent accidental or unplanned opening of the bottom sleeve section.
- h) Access [Rectangular shape] door is placed and accessible at the bottom section.
- i) The door is secured with a tamper proof screw.
- j) Electrical distribution board is mounted inside the access door.
- k) The trailing cable is plug into the distribution board and is connected to the IP65 splitter box attached to the headframe.
- l) Flexible cables are used for the connection between the floodlights and the IP65 splitter box.
- m) The photocell is mounted at the lower section above the access door to control the on/off switch

of the floodlights.

2.1.4 Electrical Specifications

Electrical specifications: with reference to “DEPARTMENT OF WATER AND SANITATION DIRECTORATE: MECHANICAL AND ELECTRICAL ENGINEERING SUB-DIRECTORATE: ELECTRICAL DESIGN STANDARD ELECTRICAL SPECIFICATIONS” Page 50.

Type E – High Bay

The luminaire shall be mounted/installed on high masts with a bracket of one, two or three luminaires, it shall also be suitable for ceiling installation mounted with cables. Bolted with 2 x 8mm bolts or 4 x 6mm eyebolts for suspended installations.

It shall have optics such as collimators for typical symmetrical floodlight distributions and reflectors for asymmetrical distributions.

The luminaire shall have efficient thermal management by the separation of the optical unit and the gear/supply unit.

The housing of the luminaire shall be manufactured from high-pressure die-cast aluminium to withstand corrosive environments.

The power supply shall be automatically disengaged when opening the luminaries.

The designed lifetime residual flux of the LED's, at $t_{q25^{\circ}\text{C}}$, shall not be less than 60 000 hours at 1000mA with a lumen depreciation of not more than 20% (L80) and 10% (L90) for 100 000 hours at 700mA.

Maximum physical dimensions shall not exceed 680 mm x 580 mm x 260 mm (inclusive of the mounting bracket).

Nominal input voltage : 230 VAC

Maximum total mass per Luminaire : 30 kg

Driver Operating Current : 700 mA

Minimum Electrical surge withstand rating : 10 kV/10 kA

Housing : High Pressure, die-cast aluminium

IP rating : IP66

IK rating : IK07

2.1.5 General description

- Apron customized for weight balancing
- Customize pole size for various application.
- Headframe to suit all types of fitting.
- Brackets for additional attachment
- Portable hand-winch for maintenance

- Nylon rope for maintenance
- Lighting spike on top of the headframe.
- Tamper proof key is provided for access.
- Test leads are available on request for testing purposes.
- 30 meter High Mast Pole
- Material: Mild steel

Shape: Octagonal

Surface Treatment: Hot Dip Galvanized

Standard: ISO 9001

Protection Class: IP65

Color Temperature: -40°C-+50°C

Warranty: 20-25 year

2.1.6 High Mast Light Pole Foundation Design

- High Mast Light Pole Foundation Design is generally undertaken in the same manner as any concrete spread or pad foundation. The principle is to make the foundation large enough so that the overturning moment does not exceed the maximum bearing capacity of the soil. As high mast light poles are standard fixtures, they are often designed using standard foundation types which depend on the size of the mast and its location.
- The overturning moment depends on the height of the mast, the size and number of lanterns and on the location.

2.1.7 Soil Allowable Maximum Bearing Capacity

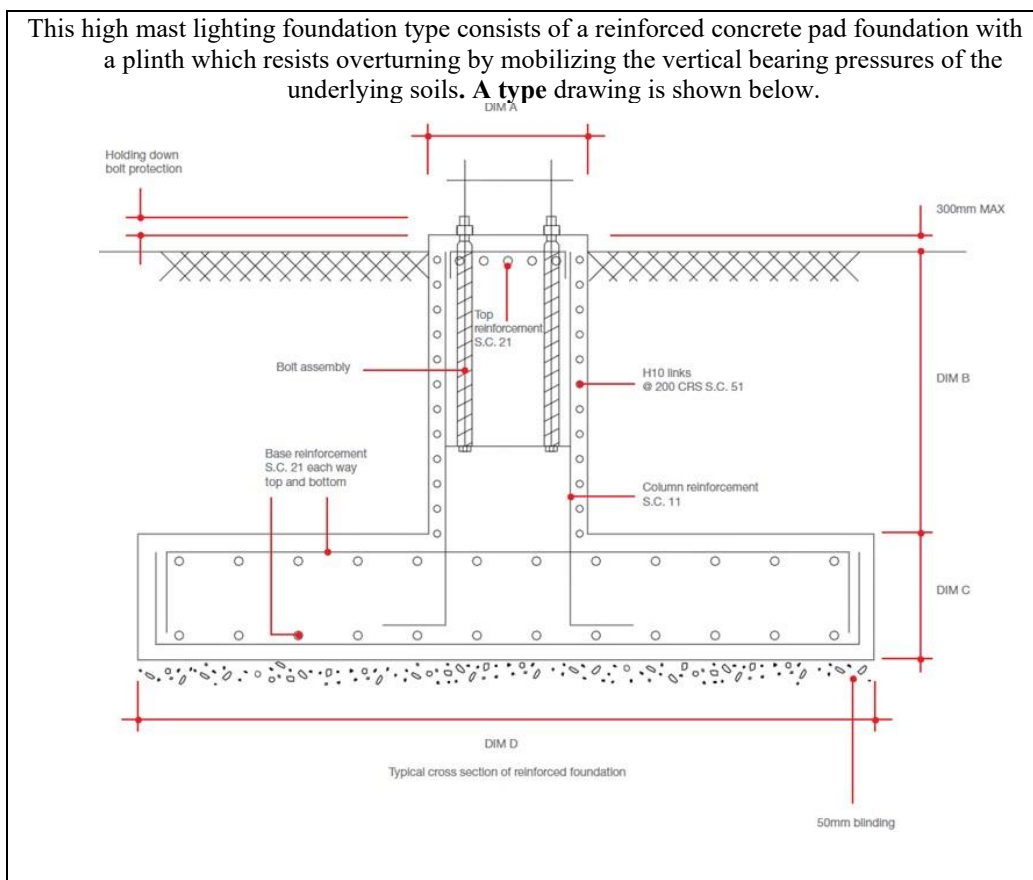
- a) High mast pole foundation design is usually based on the assumption that the underlying soil will not fail if the foundation limits the bearing pressure to a set value called the allowable maximum bearing capacity. The maximum bearing capacity of the soil is the pressure at which the soil starts to fail. This is a critical parameter and must be ascertained before detailed high mast lighting foundation design can begin.
- b) The bearing capacity of a soil can only be determined from site tests such as plate bearing tests, CPTs or SPTs. This should be undertaken by a suitable qualified civil or geotechnical engineer.
- c) For preliminary design there have been several very general guidelines for the design of high mast pole foundations which include standard designs based on one or two assumed values for the allowable maximum bearing pressure. Below is one example taken from the Abacus High Mast lighting foundation design brochure. These values are only for use in preliminary design and the bearing capacity must be checked with site measurements before detailed design is done. However, this does give a handy guide for preliminary high mast light pole foundation design.

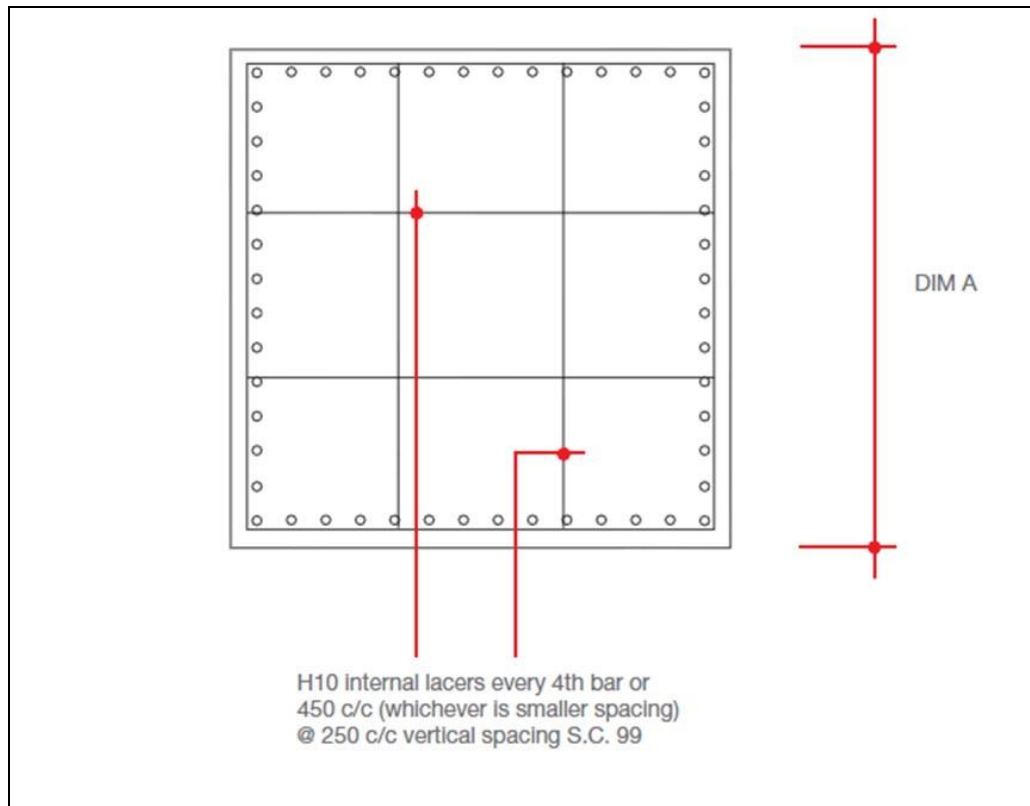
Types of subsoil	Condition of subsoil	Field test applicable	Approximate allowance bearing pressure kN/m ²
Rock	Not inferior to sandstone, limestone or firm chalk	Requires at least a pneumatic or other mechanically operated pick for excavation	1000
Gravel, sand	Compact	Requires pick for excavation. Wooden peg 50mm ² in cross section is hard to drive beyond 150mm	Dense to very dense 150-400 Loose to medium dense 50-250
Clay, sandy clay	Firm	Can be moulded by substantial pressure with the fingers and excavated with graft or spade	50-100
Sand*, silty sand*, clayey sand*	Loose	Can be excavated with a spade. Wooden peg 50mm ² in cross section can be easily driven	<75
Silt*, clay*, sandy clay*, silty clay*	Soft	Fairly easily moulded with the fingers and readily excavated	<75
Silt*, clay*, sandy clay*, silty clay*	Very soft	Natural sample in winter conditions exudes between fingers when squeezed in fist	<75

2.1.8 High Mast Light Pole Foundation Types

As described above for general and good soil conditions where there are no site-specific restrictions on foundation size or depth, the main type of standard foundation commonly used for high mast light pole foundations is described below.

2.1.9 Reinforced Concrete High Mast Light Pole Foundation



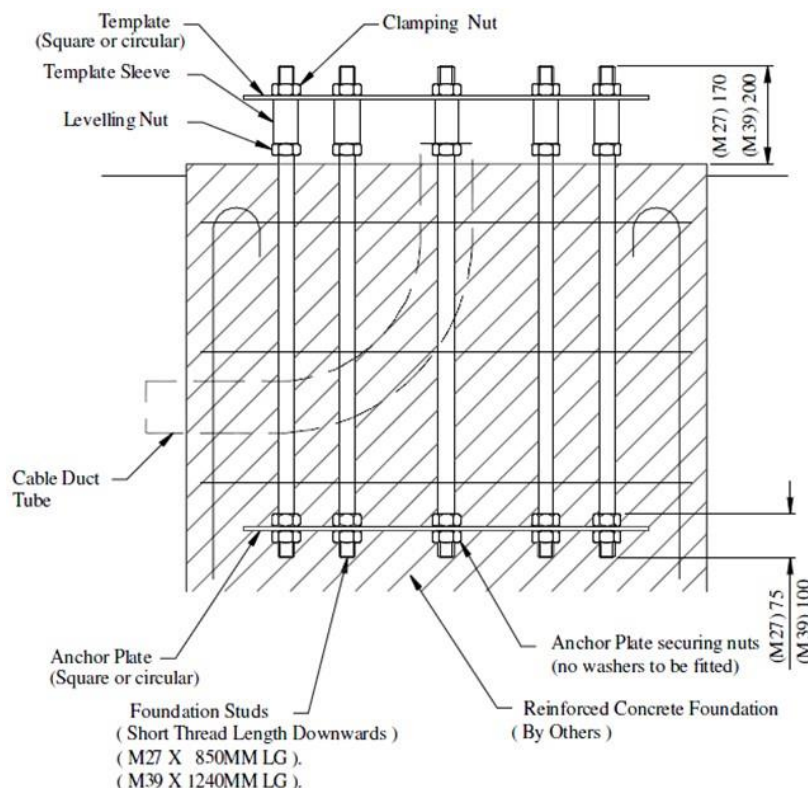


- Like the non-passive high mast light pole foundation design, standard reinforced concrete pad foundations can be designed to accommodate any level of maximum bearing capacity. However, for soft soils, clays and silts additional geotechnical advice is recommended to ensure that the high mast foundation design is suitable. For this reason, the standard high mast lighting foundation designs are given for soils with maximum bearing capacities greater than 75kn/m². Three levels are specified, those over 75kn/m², over 100kn/m² and over 150kn/m².

2.1.10 Concrete Specifications for High Mast Light Pole Foundation Design

- a) The concrete used for unreinforced high mast lighting foundations should be a minimum of C20/25.
 - b) For reinforced concrete high mast light pole foundations, a minimum C28/35 grade should be specified. A minimum cement content of 300kg/m³ and maximum water to cement ratio of 0.60 should be specified. Coarse aggregate size should be 20mm nominal.
 - c) Reinforcement should be high tensile steel with a yield stress of 485N/mm². Cover to all reinforcement should be a minimum of 40mm. Links to column section to be H10@200 c/c – shape code 51 to BS8666: 2005-plus H10 internal lacers at 450 max centres horizontal and 250 centres vertical shape code 99.
 - d) The concrete should be left for at least 14 days before any loading including the installation of the high mast light pole.
 - e) Site specific ground conditions should be considered such as ground water level and any potential ground contamination effects.
 - f) Holding Down Bolts
- The holding down bolts must be installed in accordance with the manufacturer's recommendations. A typical detail is shown below. The bolts should be tightened to the

specified torque, as shown in the below table.



2.1.11 Guarantee period.

The LED should have minimum 150w brightness and cover up to 50 Mtrs from centre of High Mast.

2.1.12 Training

Training shall be given to the site operation and other maintenance personnel in the operation and functioning of all equipment as supplied under this quotation.

2.1.13 Spares

The Contractor shall provide the following essential spares: 1 spare LED for each fitting.

3 CONDITIONS OF CONTRACT

The contractor should adhere to conditions and requirements of the contract in all respects.

4 OCCUPATIONAL HEALTH AND SAFETY

The weir is operated by Department of Water and Sanitation and site access as well as Occupational Health and safety will need to be in line with Department of Water and Sanitation policies and procedures.

The Occupational Health and Safety and Regulations (Act number 85 of 1993) is applicable. Construction Regulations, Electrical Installation Regulation, Noise-induced Hearing Loss Regulation, and Confined Areas have particular reference. The contractor shall notify the Department of Labour,

prior to commencing with the project. The DWS shall ensure that the provisions of the OHS are complied with for the duration of the project. The contractor prior to commencing on with the project shall submit:

- A comprehensive OHS file in accordance with the OHS Act.
- A detailed site-specific risk assessment for review and acceptance.
- A detailed method statement for approval by the Project Manager.

All work shall be done in accordance with relevant legislation(s) and regulation(s). The DWS reserves the right to stop the contractor from executing work, which is not in accordance with the contractor's OHS plan for the site or which poses a threat to the health and safety of persons.

The contractor may not appoint a subcontractor unless the contractor is reasonable satisfied that the subcontractor has necessary competencies and resources to perform work safely. The contractor remains fully responsible for the OHS of the subcontractor and its personnel whilst on site. Any subcontractor appointment shall be approved by the Project Manager. Where a contractor appoints a subcontractor, all OHS Act requirements shall be applicable to the subcontractor. The contractor shall appoint a full-time competent employee in writing as the project supervisor, with the duty of supervising the project.

When the contractor and employees is found contravening OHS Act, the DWS shall stop the work until such time that the contractor implemented corrective measures to the satisfaction of the DWS.

Section 37.2 Appointment

In accordance with the provisions of Section 37(2) of the Occupational Health and Safety Act 85 of 1993 wherein the Department of Water and Sanitation as Employer has entered into a contract with the Contractor, in terms of which the Contractor is to perform certain work and services for and on behalf of the Employer, subject to the terms and conditions as contained in such contract.

Then parties have agreed that in respect of performance of the work the Contractor shall be responsible for compliance with the Occupational Health & Safety Act and its Regulations. The Employer and Mandatory accordingly enter in this agreement in terms of Section 37(2) of the OHS Act, the terms, and conditions of which are set out in The Occupational Health and Safety Specification.

Risks Identified by the DWS

The following are the risks associated with this project as identified by the DWS:

- Falling objects
- Confined Spaces
- Failure of rigging equipment
- Scaffold and climbing equipment collapse
- Working at height
- Falling due to slippery surfaces
- Electrocution

- Flooding
- Noise due to grinding
- Injury due to hand tools
- Back injuries from carrying heavy loads
- Dehydration
- Attack and theft (secluded site)
- Snake bite, bees bites or wasp

Notwithstanding the abovementioned risks the contractor shall formulate a risk management plan which will include additional risks identified by the contractor.

Lock out or permit to work

The Contractor shall conduct a risk assessment prior to all tasks.

Prior to decommissioning and commencement of any work, the contractor in conjunction with the Project Manager shall isolate and lock out electrical supply relevant to the scope of work in accordance with the Occupational Health and Safety Act (OHSA). A work permit shall be issued Department of Water and Sanitation before any work commence. The lockout shall be maintained until it is removed by the contractor in conjunction with the Project Manager.

In order to consider a permit, these requirements must be submitted:

- Project plan. This must be clear and specific to the plant or actual asset to be repaired, the methodology and process.
- The competency of the artisan. We need the qualifications (e.g. trade test), experience.
- First aid trained
- Fire fighting
- Certificate of medical fitness
- Job specific risk assessment

Costs of OHS

The cost for OHS shall be included in the Tendered rates.

5 INTERPRETATIONS

The Standard Specification: DWS 1601 Paragraph 2 refers.

This Technical Specification shall be read in conjunction with the following:

- Standard Specification: DWS 1601: GENERAL MECHANICAL SPECIFICATION
- Standard Specification: DWS 2020: QUALITY CONTROL SPECIFICATION
- Standard Specification: DWS 9900: CORROSION PROTECTION SPECIFICATION

The convention in terms of naming and numbering gates are as follows:

Facing downstream, in the direction of water flow, reference is made to left hand and right hand.

Definitions

Contractor: The Party to whom the Tender comprising this Technical Specification is awarded.

Corrosion Engineer: For the purposes of the specification the Corrosion Engineer will be a specialized representative from the Chief Directorate: Strategic Asset Management.

Employer: Department of Water and Sanitation.

Engineer: Mechanical & Electrical Engineering Directorate of the Department of Water and Sanitation. For the purposes of this Technical Specification, the Engineer will be represented by the mechanical engineer of the Mechanical & Electrical Engineering Directorate named for “Enquiries” in the front part of the Tender Document.

Installation: This shall include, as applicable, all handling and transport from storage, all erection and setting to work. All installation shall be done by the Contractor.

Specification: This Technical Specification together with any references therein to other documents.

Supply: This shall include, as applicable, the purchase of materials or goods, manufacture and fabrication, any specified corrosion protection measures and any off-site inspection or testing.

Design: This shall include the submission of design documentation for approval by the Engineer. Such information shall be included in the Tender offer.

Tests on

Completion: This shall include, as applicable, the ‘dry’ and ‘wet’ commissioning tests as specified.

Abbreviations

ABS	:	Acrylnitrile-butadiene-styrene
Al	:	Aluminium
CI	:	Cast iron - grade 220
CS	:	Cast steel
DCA	:	Die cast aluminium
DFT	:	Dry film thickness
FBE	:	Fusion-bonded Epoxy
FBP	:	Fusion-bonded Polyester
FBPE	:	Fusion-bonded Polyethylene

GRP	:	Glass fibre reinforced Polyester
HDG	:	Hot-dip galvanized
HDPE	:	High Density Polyethylene
LHS	:	Left hand side
MS	:	Mild steel (grade 300WA or S355JR)
PC	:	Polycarbonate
PVC	:	Polyvinylchloride
RHS	:	Right hand side
REG	:	Registration
RL	:	Reduced level in metres above sea level (masl)
SG	:	Spheroidal graphite cast iron
SS	:	Stainless steel – grades 304; 304L; 316; 316L; 2205
uPVC	:	Unplasticised Polyvinylchloride
UV	:	Ultra Violet
THK	:	Thickness
3CR12	:	Corrosion resistant steel
µm	:	Micrometre

6 MATERIALS

The Standard Specification: DWS 1601 Paragraph 3 refers.

7 MANUFACTURE

The Standard Specification: DWS 1601 Paragraph 5 refers.

Special attention shall be given to:

- Paragraph 5.1: General,
- Paragraph 5.5: Welding,
- Paragraph 5.6: Bolting and
- Paragraph 5.11: Name plates, Rating plates and Labels.

8 MODIFICATIONS

Any modifications or deviations from the specification shall be indicated on the form “Proposed Alterations to Specification”. The Contractor shall make no changes or modifications to any part of the design, or the plant offered under this Contract without the written approval of the Project Manager. The DWS shall not accept any additional cost for any part of this Contract if this procedure has not been followed.

9 ELECTRICAL REQUIREMENTS

All general electrical installation shall be carried out in compliance with the requirements of SANS

10142-1: Part 1 : Low Voltage Installations (as amended).

An electrical certificate of compliance shall be supplied on completion of the electrical installation.

The General Electrical Specification with particular reference is made to Electrical Cabinets, Wiring of Boards and panels, Moulded Case Circuit Breakers, Low Voltage Cables, Cable Ties, Cable Lugs and Ferrule, Cable Glands and Earthing.

10 CORROSION PROTECTION

Corrosion protection of equipment supplied under this Technical Specification shall conform to:

- Standard Specification: DWS 1601 General Mechanical Specification,
- Standard Specification: DWS 2020 Quality Control.

Technical details of all corrosion protection products shall be submitted to the Engineer for approval before application.

It is important to note that the Contractor shall be responsible for the condition of the corrosion protection and shall be required to perform remedial corrosion protection repairs where required of all equipment covered by this Specification until commissioning at Site. Any damages up to this point shall be for the Contractor's account. Quality control of corrosion protection shall conform to Standard Specification: DWS 2020 - Quality Control.

Approvals Before Award Of Contract

- (a) The Corrosion Protection System specified in the Project Specification, shall be agreed upon between the Corrosion and Project Engineers.
- (b) Approval by the Corrosion Engineer of the corrosion protection system, procedures and specific materials offered in the Tender. Manufacturer's data sheets or legible copies thereof shall be submitted for each product.
- (c) Acceptance of the Departmental Quality Control Plan for Corrosion Protection - refer to Standard Specification: DWS 2020 QCC1.

Application Approvals

- (a) Qualification of personnel
- (b) Quality of equipment
- (c) Pre-preparation
- (d) Surface preparation
- (e) Application
- (f) Final acceptance

11 QUALITY CONTROL

The Standard Specification: DWS 1601: General Mechanical Specification; Paragraph 14 refers. The quality of the work shall be assured in accordance with the DWS Quality Control Specification, that is,

Standard Specification: DWS 2020. Prior to commencing with the project the Quality Control Plan (QCP) shall be submitted to the DWS for review, acceptance and or approval.

The cost for quality control shall be included in the Tendered rates.

12 PACKING AND TRANSPORT

The Standard Specification: DWS 1601: General Mechanical Specification; Paragraph 12 refers. This includes the on-site damage to other equipment due to the activities of the Contractor.

Prior to despatch all parts shall be adequately protected by painting or by other means for the whole period of transit, storage and erection, against corrosion and incidental damage, including the effects of vermin, sunlight, rain, temperature, wind blown sand and humid atmospheres. The Contractor shall be responsible for the equipment being so packed and/or protected as to ensure that it reaches the Site intact and undamaged. The equipment shall be packed to withstand rough handling in transit and all packages shall be suitable for storage including possible delays in transit.

The Contractor shall be deemed to have included in the pricing schedule or the Bill of Quantities for all materials and packing cases necessary for the safe packing and transport of the equipment. All transporting arrangements shall be to the satisfaction of the Engineer.

Cases containing small items shall not weigh more than 500 kg gross.

Bolts in strong hessian bags and other small components shall be labelled and crated. The crates shall be tagged using metallic tags and shall indicate the following information:

- Contract number.
- Project name.
- Part numbers.
- Description.
- Sizes; and
- Quantities.

Each bag or crate shall have the delivery address listed on a separate metallic tag.

Every crate or package shall have a general description of its contents shown on a packing list in a waterproof transparent envelope attached to the outside of the crate or package. The Delivery Certificate Form ME 2, included in the Specification, shall be used for this purpose. A duplicate copy of the packing list shall be issued to the Engineer. The Department shall not accept any responsibility for items not listed on the Consignment Notes.

Items shall be clearly marked for identification against the packing list.

All crates, packages, steel fabrications and machinery shall be clearly marked with a waterproof material to show the weight, the position to which slings may be attached and shall have an indelible identification mark relating them to the packing lists

During transport, non-packaged items shall be held securely in position on sufficient padded blocks as are necessary to give adequate and safe support and, inter-alia, to militate against the possibility of brinelling of bearings en route to Site. Stainless steel items shall be packed in a way that prevents contamination.

The use of ropes, wire ropes or chains without suitable padding is expressly forbidden.

All the necessary bunks of timber or sawdust bags to support the components on soil, concrete or other hard surface and to separate them from each other in transit and at Site shall be provided by the Contractor free of charge.

When loading onto vehicles, precautions shall be taken to support and chock the components to prevent movement. Components shall be firmly lashed or chained with padded lashing, supported on sawdust bags. The area of padded surfaces shall be adequate to prevent damage to the coating.

Items may be inspected on arrival at the Contractor's end delivery point and any repairs necessary shall be to the cost of the Contractor. Any damage that occurs during the handling and storage of equipment and components at the Manufacturer's/Contractor's Works, including transportation to Site, shall be repaired by the Manufacturer/Contractor at his own cost, in accordance with the Specification and to the approval of the Engineer. Damage to corrosion protection shall only be carried out by a specialist corrosion protection applicator.

When loading onto vehicles, precautions shall be taken to support and chock the components to prevent movement. Components shall be firmly lashed or chained with padded lashing, supported on sawdust bags. The area of padded surfaces shall be adequate to prevent damage to the coating.

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13 COMPULSORY SITE INSPECTION

Before submitting a Tender, each Tenderer shall visit and examine the Site and its surroundings and shall obtain all the information that may be necessary for preparing the Tender. The date of the official Pre-Tender Meeting and Site Visit, which will be organized by the DWS, is stated in the Invitation to Tender. Tenderers are at liberty to visit the Site at other times during the Tender Period subject to making prior arrangements with the DWS.

The Tenderer and any of his personnel or agents who enter the Site or the Employer's premises and lands for the purpose of such inspection will release and indemnify the Employer and his personnel, contractors and agents from and against all liability in respect thereof and in respect of entering and being conveyed in any vehicle including airborne vehicles arranged by the Employer and will be responsible for personal injury (whether fatal or otherwise), loss of or damage to property and any other loss, damage, costs and expenses however caused, whether or not caused by the negligence of the Employer. Such indemnities shall be given to the Employer prior to the start of any Site visit in the form attached to these Instructions to Attendance at the Pre-Tender Meeting and the Site Visit is a

compulsory precondition to submitting a Tender. Attendance will be confirmed by the Employer, by means of the Tenderer's completion of the Pre-Tender Meeting and Site Visit Inspection Certificate. The Certificate will be signed during the Pre-Tender Meeting/Site Visit by the Employer, the Engineer and the Tendering Contractors. The Pre-Tender Meeting with the Engineer and the Employer will be arranged as part of the official Site Visit. The original signed Pre-Tender Meeting and Site Visit Inspection Certificate must be included in the documentation submitted with the Tender.

The technical representatives representing the contractor at the compulsory site briefing must provide proof of association to the contracting company.

The technical representative shall wear minimum safety equipment of closed footwear with a hard cap.

The Tenderer shall bear all costs associated with his visit or visits to the Site and his attendance at the Pre-Tender Meeting.

14 SITE INSPECTION CERTIFICATE

This is to certify that I, _____

Representative of (Tenderer) _____

Affiliation with Contractor (proof of Technical representative's affiliation with the Contractor required)

Of (address)

Telephone No: _____

In the company of (Engineer) _____

Visited the site on _____

Having previously studied the documents, I carefully examined the site and equipment. I have made myself familiar with all the equipment likely to influence the work and the cost thereof.

I further certify that I am satisfied with the description of the work and the explanations given by the Engineer and I understand perfectly the work to be done, as specified and implied, in the execution of this Contract.

Signed on behalf of the Tenderer

(PRINT NAME AND SIGNATURE)

Engineer / DWS Representative

(PRINT NAME AND SIGNATURE)

Witness (PRINT NAME AND SIGNATURE)

C3.3: PARTICULAR SPECIFICATIONS

In addition to the Standard Specifications and the Project Specifications, the following Particular Specifications shall apply to this contract and are bound in hereafter:

PART C: ENVIRONMENTAL MANAGEMENT SPECIFICATION

PART D: DAYWORK

PART E: DEPARTMENT OF WATER AND SANITATION HEALTH AND SAFETY SPECIFICATION

3.3 PARTICULAR SPECIFICATIONS

PART C: ENVIRONMENTAL MANAGEMENT SPECIFICATION

PART C: ENVIRONMENTAL MANAGEMENT SPECIFICATION

C.1 General

In order to ensure that the construction work is carried out in an environmentally sensitive manner, strict compliance with the Environmental Management Plan (EMP) guidelines is required. The purpose of the EMP is to:

- Encourage good management practices through planning and commitment to environmental issues,
- Provide rational and practical environmental guidelines to:
 - i. Minimize disturbance of the natural environment,
 - ii. Prevent pollution of land, air and water,
 - iii. Prevent soil erosion and facilitate re-vegetation.
- Adopt the best practicable means available to prevent or minimise adverse environmental impact,
- Develop waste management practices based on prevention, minimisation, recycling, treatment or disposal of wastes,
- Train employees and contractors with regard to environmental obligations.

C.2 Training and Induction of Employees

- The Contractor has a responsibility to ensure that all those people involved in the project are aware of and familiar with the environmental requirements for the project (this includes subcontractors, casual labour, etc.). The EMP shall be part of the terms of reference for all contractors, subcontractors and suppliers.

C.3 Complaints Register and Environmental Incident Book

Any complaints received by the project team from the public will be recorded. The complaint should be brought to the attention of the Construction Manager, who will respond.

The following information must be recorded:

- Time, date and nature of the complaint,
- Type of communication (telephone, letter, etc.),
- Name, contact address and telephone number of the complainant,
- Response and investigation undertaken and
- Actions taken and by whom.

All complaints received will be investigated and a response given to the complainant within 14 days.

All environmental incidents occurring on the site will be recorded. The following information will be provided:

- Time, date, location and nature of the incident,
- Actions taken and by whom.

C.4 Site Cleanliness and Neatness

- Location of a construction camp is to be approved by the Employer's Agent and is to be restored to its previous condition after completion of construction.
- The construction camp should preferably be fenced with a 1.8m Bonnox fence or similar approved.
- All materials, equipment, plant and vehicles must be stored within the construction camp.
- A dedicated area must be made available for construction staff to change and store their personal belongings.

C.5 Access

- Access to existing roads, schools, buildings, shops and residential properties must not be impeded during construction.
- Access roads utilised by the Contractor must be maintained in good condition.

C.6 Dust Control / Air Quality

- Dust suppression measures must be implemented during construction by ensuring that all surfaces prone to dust generation are kept damp (e.g. use of water tanker).
- Ensure that vehicles and equipment are in good working condition and that emissions are not excessive.
- Special care must be taken in areas where the route passes close to schools and residential areas.
- The speed of construction vehicles must be reduced.

C.7 Fauna

- Contractors and subcontractors staff and workers may not chase, catch or kill animals encountered during construction.

C.8 Fire Prevention and Control

- Smoking is prohibited in the vicinity of flammable substances.
- The Contractor must ensure that fire-fighting equipment is available on site, particularly where flammable substances are being stored or used, and that construction staff are aware of where it is kept and how it is operated.
- Fires started for comfort (warmth) are prohibited, due to the risk of veld fires and risk to adjacent property owners' lands.

C.9 Grave Sites

- Gravesites in close proximity to the site must not be disturbed during construction.

C.10 Materials Handling and Spills Management

- Any hazardous materials to be used during construction (e.g. lime, fuel, paint, etc.) are to be stored in a designated area at the campsite.
- The storage containers/facilities (including any diesel/petrol tanks) must be placed on an impermeable surface and surrounded by a bund wall, in order to ensure that accidental spillage does not pollute the environment.
- Workers must at all times be made aware of the health and safety risks associated with any hazardous substances used (e.g. smoking near fuel tanks), and must be provided with appropriate protective clothing/equipment in case of spillages or accidents.
- Ensure all staff and contractors undergo relevant training in the maintenance of equipment to prevent the accidental discharge or spill of fuel, oil, lubricants and other chemicals.
- Any spill of potentially hazardous materials must be cleaned up immediately (Potentially hazardous materials on site include paint, oil, grease, fuel, turpentine, etc.).
- The area of contaminated soil or spill must be deposited into the hazardous waste container(s).

- The Contractor should keep Peat Sorb or a similar absorbent on site to clean up any spills. The absorbent must be stored in a designated area and be available for inspection.
- All spills are to be recorded in the environmental incident book.

C.11 Noise

- Noise generating activities must be restricted to between 07h00 and 17h00 Monday to Friday, unless otherwise approved by the appropriate competent person in consultation with adjacent landowners/affected persons.
- All equipment, vehicles and machinery must be in good working condition and be equipped with sound mufflers if necessary.
- Construction staff must be trained and made aware of not creating unnecessary noise such as hooting and shouting.

C.12 Pollution Control

- Soil and water pollution through usage of fuel, oil, paint, bitumen or other hazardous substances must be avoided.
- All construction vehicles are to be maintained in good working order so as to prevent soil or water pollution from oil, fuel or other leaks, and to reduce noise pollution.

C.13 Rivers and Streams

- During construction of bridge structures, there must be no obstruction of the water flow of rivers and streams.
- Excavated material must not be stockpiled on or near riverbanks, in order to prevent sedimentation occurring.
- Erosion control measures must be employed both during and after construction.
- No impediments to natural surface water flow, other than approved erosion control measures, must occur.

C.14 Safety

- Safety measures, such as detour signs, must be implemented during construction to ensure the safety of workers, pedestrians and drivers/passengers in vehicles in the vicinity of construction work.
- Special care must be taken in the vicinity of schools to ensure the safety of children wishing to cross the road under construction.
- The relevant signage (e.g. speed control signs) must be erected alongside the road during the operation phase in order to control traffic.
- Accommodation must be made for pedestrian pathways alongside the road during the construction and operation phases.

C.15 Soil Management

- Storm water drainage pipes must be installed alongside the road in all areas susceptible to soil erosion.
- Erosion should be minimised by the construction of meadow drains and the planting of indigenous vegetation on the side slopes and drains to reduce flow velocity of storm water.
- Spoil from cuts may be used in existing erosion gullies.
- Stone pitching and gabions should be constructed at pipe culvert outlets.
- Accidental spills of contaminants onto the ground e.g. oil, concrete, fuel and chemicals should be removed together with the contaminated soil.
- If necessary an absorbent such as Peat Sorb should be used to aid in cleaning up the spill. The contaminated soil should be disposed of in an appropriate container, depending on its classification.
- Servicing and refuelling of vehicles must only be carried out at the construction camp.

C.16 Worker Conduct

Code of Conduct for Construction Personnel:

- Do not leave the construction site untidy and strewn with rubbish which will attract animal pests.
- Do not set fires.
- Do not cause any unnecessary, disturbing noise at the construction camp/site or at any designated worker collection/drop off points.
- Do not drive a construction-related vehicle under the influence of alcohol.
- Do not exceed the national speed limits on public roads or exceed the recommended speed limits on the site.
- Do not drive a vehicle which is generating excessive noise or gaseous pollution (noisy vehicles must be reported and repaired as soon as possible).
- Do not litter along the roadsides, including both the public and private roads.
- Do not pollute any water bodies (whether flowing or not).
- No member of the construction team is allowed to enter the areas outside the construction site.

C.17 Traffic Disturbances and Diversions

- Any traffic diversions must be undertaken with the approval of all relevant authorities and in accordance with all relevant legislation.
- Wherever possible, traffic diversion must only take place on existing disturbed areas and remain within the existing road reserve.
- Traffic diversion routes must be rehabilitated after use.

C.18 Vegetation

- Only vegetation falling directly on the route must be removed where necessary.
- Alien vegetation within the road reserve must be eradicated, and management measures must be implemented for future control of these species.
- Vegetation that has been removed from large areas (e.g. on traffic diversion routes) during construction must be replaced with indigenous vegetation after construction has been completed.

C.19 Waste Management

- All general, non-hazardous waste must be placed in a skip container and disposed of at a registered waste disposal site.
- The Contractor is to ensure that the portable toilet facilities at the campsite are properly maintained and in working order.
- No disposal, or leakage, of sewage must occur on or near the site.
- All hazardous waste (e.g. oil, paint, empty lime bags, contaminated wash water, etc.) must be stored in leakproof containers and disposed of at a registered hazardous waste disposal site.
- The contents of waste storage containers must, under no circumstances, be emptied to the surrounding area. In general, littering, discarding or burying of any materials is not allowed on site or along the route.
- Adequate waste receptacles must be available at strategic points around the construction camp and site for all domestic refuse and to minimise the occurrence of littering.
- Concrete rubble must be collected and disposed of as directed by the Employer's Agent.
- Each working area must be cleared of litter and building waste (e.g. rubble, wood, concrete packets, etc.) on completion of the day's work.
- Any spill around the container(s) should be treated as per Section C.11 and C.16.

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3.3 PARTICULAR SPECIFICATIONS

PART D: DAYWORK

PART D: DAYWORK

This part of the Particular Specifications deals with the provision for daywork in the Schedule of Quantities. Rates for daywork shall be entered in the Schedule of Quantities in accordance with the following specifications.

D1. SCOPE

According to Clause 6.5 of the General Conditions of Contract 2015, certain work may be carried out using rates tendered in the daywork schedule. A schedule of personnel, plant and equipment which may be necessary to perform work on a daywork basis is included in the Schedule of Quantities. The quantities used in the Schedule of Quantities are for quotation evaluation purposes only and the use or not of these items shall not constitute a variation in terms of Clause 6.3 of the General Conditions of Contract 2015.

No work will be paid for as daywork without the written instruction or approval of the Employer's Agent.

D2. TYPE OF WORK

The Employer's Agent may order daywork in certain cases where it is necessary to vary or to extend the works due to new or unforeseen circumstances to such an extent that the tendered rates for specific items of work are no longer applicable, or where no suitable combination of tendered rates can be used to pay for such work.

As a general rule, applicable rates for additional work items will be agreed between the Contractor and the Employer's Agent. Daywork will only be used in exceptional circumstances.

D3. MATERIALS

Materials for use in works carried out under daywork shall be purchased by the Contractor who shall also arrange for delivery to site, and shall be responsible for any other requirements associated with specific materials. A Provisional Sum has been allowed in Section D of the Schedule of Quantities for daywork materials. The Contractor shall enter a tendered percentage in the Schedule of Quantities to cover his handling costs and profit, as per other provisional and prime cost sums in this Contract.

Materials shall be paid for using the method described in C2.1, 'Pricing Instructions'. No contract price adjustment will be applicable to materials.

The Contractor shall submit proof of ownership for any materials used in daywork with his daywork claim to the Employer's Agent. Further, if specific materials are required for daywork, quotations will be called for as per Clause 6.5.2 of the General Conditions of Contract 2015.

D4. CONSTRUCTION PLANT HIRE

Where daywork is ordered, the tendered rates for plant hire in Section D of the Schedule of Quantities shall be used in calculating the payment due for any plant required to execute the daywork. If no rate is included in the Schedule of Quantities for a particular piece of equipment, and where no other rate or combination of rates would provide suitable compensation, then the daywork method of payment described in Clause 6.5.1.3 of the General Conditions of Contract 2015 will be used.

The tendered rates for each item of constructional plant shall include for all operating costs associated with the said item of plant. Such costs are deemed to include fuel, re-fuelling costs, lubrication and routine servicing / maintenance, breakdowns and spares, all overhead costs, site management costs and administration costs. The tendered rates shall also include the plant operator and the general supervision of the plant while it is engaged in the daywork.

D5. SALARIES AND WAGES OF WORKMEN

The salaries and wages of workmen executing daywork shall be paid for using the tendered rates in the Schedule of Quantities. The tendered rates shall include for all costs associated with the employment of personnel, including salaries, wages, allowances, workmen's compensation, medical aid and pension

contributions, government levies and taxes, training costs and any costs associated with living on the site. The tendered rates shall also include for the transportation of the workmen to the site of the daywork.

All overhead costs, administration costs, site management costs and the Contractor's profit are deemed to be covered by the daywork rates and no additions or mark ups will be made to the tendered rates.

The tendered rates shall also include any hand tools normally associated with the workmen's job description e.g. picks, shovels, hammers, saws, spirit levels, etc. The tendered rate for labourers shall also include for the casual supervision by a gang boss or foreman. Only when specifically called for by the Employer's Agent, will payment be made for the use of a gang boss or foreman supervising on a continuous basis.

D6. MEASUREMENT AND PAYMENT

The following principles shall also apply to the measurement and payment of daywork.

The unit of measurement for plant shall be the number of Vibroclock hours worked and each item of plant shall be fitted with a Vibroclock, the cost of which shall be included in the rates. Excessive non-productive time when the engine is idling will not be paid for. Where there is ambiguity between the flywheel horsepower and mass of the machine, the flywheel horsepower shall govern the measurement category. Where width and mass are specified, mass shall govern the measurement category.

The Contractor's attention is drawn to the requirements of Clauses 6.5.3 and 6.5.4 of the General Conditions of Contract 2015 with regard to the submission of daywork claims.

C3.3 PARTICULAR SPECIFICATIONS

PART E: DEPARTMENT OF WATER AND SANITATION HEALTH AND SAFETY SPECIFICATION

PART E: DEPARTMENT OF WATER AND SANITATION HEALTH AND SAFETY SPECIFICATION

Prepared In Accordance With: Occupational Health and Safety Act (Act 85 of 1993) and the Construction Regulations, 2014

E1. INTRODUCTION

This Health and Safety Specification is a legal requirement in terms of the Construction Regulations of the Occupational Health and Safety Act (85 of 1993). It forms part of the tender and contract documentation for the project: Supply, delivery and installation of (3) 30m high mast lights at Midmar dam, undertaken by the Department of Water and Sanitation (DWS).

E2. PROJECT OVERVIEW

Location: Midmar Dam – Eastern Operations

Scope of Work:

- Excavation and casting of foundations
- Delivery and offload on site
- Trenching and cabling
- Electrical installation and connection to supply
- Assembly and erection of mast
- Crane lifting of mast
- Grouting
- Restoration of disturbed areas

E3. LEGAL FRAMEWORK

The Principal Contractor and all subcontractors must comply with:

- Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)
- Construction Regulations, 2014
- SANS Codes of Practice
- National Environmental Management Act (NEMA), where applicable

E4. CLIENT'S REQUIREMENTS

The following are mandatory:

- Appointment of a competent contractor
- Development and submission of a baseline risk assessment
- approval of a site-specific Health and Safety File
- Compilation of an Environmental Management Plan (EMP) aligned to DWS protocols
- Induction training for all site personnel
- Ensure compliance with relevant legislation

E5. HAZARD IDENTIFICATION AND RISK ASSESSMENT

The appointed Health and Safety Officer shall:

- Identify potential hazards (e.g., Contact underground services, crane and lifting operations, manual handling, slips and trips, biological hazards, equipment use)
- Develop control measures for each risk
- Implement safe work procedures for:
 - Foundation and mast base,
 - Mechanical installation,
 - Electrical works,
 - Testing and commissioning.

E6. HEALTH AND SAFETY FILE REQUIREMENTS

The Principal Contractor must prepare a file that addresses (File index attached):

- Access control to the site
- Safe work procedures
- PPE requirements (life jackets, gloves, boots, eye protection, etc.)
- First aid and emergency response procedures
- Safe handling and use of tools and machinery
- Environmental protection measures (erosion control, habitat preservation)
- Waste management procedures

E7. SAFETY EQUIPMENT AND PPE

All personnel must be provided with and must wear:

Personal Safety equipment as per task specific risk assessment.

E8. TRAINING AND COMPETENCY

- Only competent persons shall perform hazardous work.
- Operators of excavators and brush cutters must be trained and certified.
- Induction training shall cover:
 - Project-specific hazards
 - Emergency procedures
 - Use of PSE
 - Incident reporting

E9. INCIDENT REPORTING AND RECORD KEEPING

- All incidents, including near misses, must be reported to the DWS representative within 24 hours.
- A site incident register must be maintained.
- The contractor shall conduct investigations and submit reports.

E10. EMERGENCY PREPAREDNESS

The site Health and Safety Plan must include:

- Emergency contact numbers
- Evacuation routes and assembly points
- Procedures for drowning, injury, and environmental spillages
- Provision of fully stocked first aid kits

E11. SITE RULES AND SIGNAGE

- Adequate warning and information signage must be posted.
- Smoking and alcohol consumption on site is prohibited.
- Unauthorized access to the site must be prevented.

E12. MONITORING AND COMPLIANCE

- DWS or its appointed agent reserves the right to:
- Audit the site at any time
- Stop unsafe work
- Enforce penalties for non-compliance

E13. CLOSE-OUT REQUIREMENTS

Upon completion:

- Submit a Health and Safety File containing:
- All inspection reports
- Incident logs
- Training records
- Signed handover and demobilization checklists

E14. SHE FILE INDEX

1.	SERVICE PROVIDER APPOINTMENT AND MANDATORY AGREEMENT (37.2)
2.	CONTACT DETAILS, EMERGENCY NUMBERS,
3.	LETTER OF GOOD STANDING (COIDA)
4.	PUBLIC LIABILITY INSURANCE
5.	SHE POLICY
6.	HEALTH AND SAFETY PLAN
7.	ORGANOGRAM (INDICATING SUPERVISOR AND FIRST AIDER),
8.	LEGAL APPOINTMENTS CVs AND COMPETENCIES
9.	VALID MEDICAL CERTIFICATES OF FITNESS, AND ID COPIES
10.	ENVIRONMENTAL MANAGEMENT PLAN
11.	WASTE MANAGEMENT PLAN
12.	EMERGENCY PREPAREDNESS PLAN
13.	SAFE WORKING PROCEDURES/METHOD STATEMENTS
14.	RISK ASSESSMENTS
15.	INCIDENT REPORTING PROCEDURE AND FORMS
16.	EQUIPMENT REGISTER
17.	TOOLBOX TALKS
18.	EQUIPMENT CHECKLISTS
19.	INDUCTION TRAINING
20.	OSHA

 water & sanitation Department: Water and Sanitation REPUBLIC OF SOUTH AFRICA	WATER RESOURCES INFRASTRUCTURE OPERATION AND MAINTENANCE		
	EASTERN OPERATIONS		
		Reference Number	
		Implementation Date From:	
		Implementation Date to:	

NO:	TASK OR STEP OR PROCESS	HAZARD OR RISK RELATED	RISK WITH CONSEQUENCE	RAW OR INITIAL RISK			CURRENT CONTROLS	RESIDUAL RISK			ADDITIONAL CONTROLS
				CONSEQUENCE	LIKELIHOOD	RISK RATING		CONSEQUENCE	LIKELIHOOD	RISK RATING	
	Break down project or overall activity as per methodology.	Hazard: conditions or behaviours which can, or have the potential to cause injury or harm. (quantify the hazard, consider existing and potential conditions and behaviours).	Risk: Chance of an injury, illness or damage occurring. (what can go wrong, how can people be injured, how can people become ill).				CONSIDER: Substitution, engineering and administrative controls. <i>NB: PPE is always the last resort</i>				PPE required or to be utilised.
1	Site establishment	Trips, falls, equipment mishandling	Injuries to personnel	3	D	14H	Safety induction, demarcated paths, housekeeping	2	B	5L	PPE (safety boots, helmets, hi-vis)
2	Excavation for foundations and trenches	Excavation collapse	Worker buried, serious injury	5	D	20H	Shoring/benching, safe work method	3	B	8M	PPE (hard hats, harness if edge work)
		Striking underground services	Electrocution, flooding, service disruption	5	D	20H	Wayleaves, cable detection, trial holes	3	C	11M	Supervision by service providers, insulated tools

3	Concrete pouring	Cement handling	Chemical burns, respiratory issues	4	C	13M	PPE (gloves, masks), safe handling	2	B	5L	Training on MSDS, barrier creams
4	Installation of cables and ducts	Live cable termination	Electrocution, arc flash	3	D	17H	Lock-out/tag-out (LOTO), insulated tools	2	C	8M	Permit-to-work, arc flash PPE
5	Backfilling and compaction	Plant movement, poor compaction	Struck-by equipment, later settlement	4	C	13M	Spotters, plant operators certified	2	B	5L	PPE (hi-vis vests, boots)
6	Delivery of mast and material	Handling heavy loads	Musculoskeletal injury, crushed by falling load	4	D	17H	Mechanical aids, correct stacking	2	B	5L	PPE (gloves, helmets, boots)
7	Erection of mast using cranes	Crane failure, load swing, collapse	Serious injury/fatality	5	D	20H	Certified crane operators, lifting plan, exclusion zones	3	B	9M	Wind-speed monitoring, taglines, helmets
8	Working at height (mast assembly)	Falls from height	Major injury or fatality	5	D	20H	Safety harnesses, fall arrest, permits	3	B	9M	PPE (harness, lanyard, helmets)
9	Electrical cable installation & termination	Live cable termination	Electrocution, arc flash	5	D	20H	Lock-out/tag-out (LOTO), insulated tools	3	B	9M	Arc flash PPE, permit-to-work
10	Installation of luminaires & headframe	Dropped object, poor fixing	Injury to workers below, equipment damage	4	C	13M	Work-at-height procedures, mechanical lifting	2	B	5L	PPE (helmets, gloves)
11	Installation of earthing and lightning protection	Poor earthing, lightning strike	Electrocution, equipment damage	5	C	15H	Standard earthing design, inspection	3	B	9M	Earthing resistance testing

				LIKELIHOOD OF EVENT				
				A - Rare	B - Unlikely	C - Possible	D - Likely	E - Almost Certain
				Very unlikely to happen	Unlikely to happen	Possibly could happen	Likely to happen	Very likely to happen
CONSEQUENCE	Health	Safety						
	5 - Catastrophic	Multiple fatalities because of an occupational disease	Multiple fatalities	15 (M)	19 (H)	22 (H)	24 (H)	25 (H)
	4 – Major	Fatality or multiple irreversible occupational disease cases	Fatality or several disabling injuries	10 (M)	14 (M)	18 (H)	21 (H)	23 (H)
	3 – Moderate	Irreversible occupational disease	Serious disabling injury	6 (L)	9 (M)	13 (M)	17 (H)	20 (H)
	2 – Minor	Reversible occupational illness	Minor injury that requires medical treatment other than first aid	3 (L)	5 (L)	8 (M)	12 (M)	16 (M)
	1 - Negligible	Over exposure and or an irritant effect.	First aid injury	1 (L)	2 (L)	4 (L)	7 (M)	11 (M)

To: The Provincial Director, Department of Labour,

ANNEXURE 2

OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (Regulation 4 of the Construction Regulations, 2014)

NOTIFICATION OF CONSTRUCTION WORK

1. (a) Name and postal address of Contractor:
.....
- (b) Name and telephone number of Contractor's contact person:
.....
2. Contractor's compensation registration number:
.....
3. (a) Name and postal address of Employer:
.....
.....
- (b) Name and telephone number of Employer'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(s') contact person(s):
.....
.....
5. Name and telephone number of Contractor's Construction Manager on site appointed in terms of regulation 8(1):
.....
6. Name(s) of Contractor's assistant construction manager(s) on site appointed in terms of regulation 8(2):
.....
.....
.....

ANNEXURE 2 - Continued

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 subcontractors on the construction site accountable to Contractor:

.....

13. Name(s) of subcontractors already selected:

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

Contractor

Date

Employer's Agent (where applicable)

Date

Employer

Date

- THIS DOCUMENT IS TO BE FORWARDED TO THE OFFICE OF THE DEPARTMENT OF LABOUR **PRIOR TO COMMENCEMENT** OF WORK ON SITE.

C4: SITE INFORMATION

C4: SITE INFORMATION

TABLE OF CONTENTS

C4.1	LOCALITY PLAN
C4.2	EXISTING SERVICES REPORT
C4.3	FORMS AND ANEXURES.....

C4.1 LOCALITY PLAN

C4.1 LOCALITY PLAN



C4.2 EXISTING SERVICES REPORT

1. Location of services

The known services on the site include:

The following services are scheduled for relocation under this contract:

It is also expected that unknown buried domestic services crossings requiring relocation or protection may be encountered along the route as the work proceeds. The Contractor shall therefore make every effort to establish the location of any such unknown services in a particular area prior to excavations commencing in that area. Such efforts shall include the Contractor conducting a thorough visual surface inspection for services in the area, and also diligently enquiring of local landowners as to whether there are any known services which have not been shown on the drawings but which may be affected by the construction activities in that area, and any such services shall be brought to the attention of the Employer's Agent immediately. Exploratory hand excavation trenching work shall be carried out where necessary to establish the exact position of buried services.

2. Liaison with service owners

Immediately after the site has been handed over to the Contractor and prior to the commencement of any construction work on the site, the Contractor shall arrange a meeting with the relevant authorities to establish the exact location of the various services affected (if any), to plan the necessary services relocations (if required) and to obtain contact details for the service owners' technical and emergency staff.

Where services relocations are required, the Contractor shall arrange regular planning meetings with the service owners until such time as the services have been relocated and commissioned and the existing services uplifted and removed.

3. Protection of existing services

Prior to the commencement of any construction work on the site, the Contractor shall establish markers at 50 m centres (or closer where necessary), clearly delineating the routes traversed by the services within the cabling path as confirmed by the service owners.

Excavation operations shall commence only after the existing services within or in the near vicinity of the excavations have been suitably protected against damage.

The Contractor shall take particular care when carrying out blasting, pneumatic or mechanical breaking, and general excavation operations in the vicinity of the services, and subcontractors, foremen and plant operators shall be fully briefed on precautionary measures to be taken before excavation commences in these areas.

4. Relocation of services

Should any services need to be relocated, the Contractor shall be required to assist the service owner with programming, organising and carrying out the relocation work, in order to minimise any delays in the construction.

5. Payment for the services relocation work

A provisional sum has been provided in the schedule of quantities to cover the costs of any protection, relocation, realignment, removal or replacement of services that may arise.

C4.3 FORMS AND ANEXURES

FORM A: CONTRACTOR'S HEALTH AND SAFETY DECLARATION

FORM B: HEALTH AND SAFETY ACT AGREEMENT

FORM C: QUALITY CONTROL