



DEPARTMENT OF WATER AND SANITATION

DUE AT 11:00 ON

CLOSING DATE: 19 JUNE 2026

***Bids to be submitted to the Tender Box before 11:00, bids not submitted in the tender box will not be accepted.**

WTE-2605ES

**DESIGN, SUPPLY, DELIVERY AND INSTALLATION OF HIGH MAST LIGHTS AT
WAGENDRIFT DAM NEAR ESTCOURT TOWN.**

SUBMIT BID DOCUMENTS TO:

POSTAL ADDRESS:

DEPT OF WATER AND SANITATION
SUPPLY CHAIN MANAGEMENT OFFICE
PRIVATE BAG X 24
HOWICK, 3290

OR

TO BE DEPOSITED IN:

DEPT OF WATER AND SANITATION
THE BID BOX AT THE ENTRANCE
GATE OF MIDMAR DAM
R103 PROSPECT ROAD
MIDMAR DAM
HOWICK, 3290

Briefing Meeting:

Date: 05/06/2026

Time: 10:00

Venue: Wagendrift Dam (S 29° 02' 28.9", E 29° 50' 58.7")

***Please do not address your parcel to an official if you are making use of a delivery company.
Clearly state: Tender Box**

BIDDER: (Company Address OR Stamp)

**COMPILED BY:
DEPARTMENT OF WATER AND SANITATION**



DEPARTMENT OF WATER AND SANITATION

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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 Sibusiso Mathonsi at 033 239 1267 / mathonsis@dws.gov.za** or may be directed in writing to: The Director: Eastern Operations, Department of Water and Sanitation, Private bag X24, Howick.

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-2605ES: DESIGN, SUPPLY, DELIVERY AND INSTALLATION OF HIGH MAST LIGHTS AT WAGENDRIFT DAM NEAR ESTCOURT TOWN.

- (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. 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 Compliance
- (2) Technical Compliance
- (3) Functionality Compliance
- (4) Administrative Compliance
- (5) Price & Specific Goal

PHASE 1: MANDATORY COMPLIANCE:

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	Attendance of compulsory site briefing. (must attach a signed site briefing certificate or bidder name must be on the attendance register)		
2	SBD3.1 (fully completed)		
3	Bill of Quantities (fully completed)		
4	COIDA - Letter of good standing relevant to scope of work (must attached proof of document)		
5	CIDB certificate: Grade 2EB CIDB grading (must attach proof of document)		

PHASE 2: TECHNICAL COMPLIANCE:

Bidders must score at least **65 out of 100** in respect of functionality in order to qualify for advancement to Phase 3. A bidder that scores less than **65 out of 100** will be regarded as submitting a non-responsive bid and will be disqualified.

The weight that will be allocated to each functionality criterion is as follows (unless otherwise stated): **1 = poor, 2 = average, 3 = good, 4 = very good, and 5 = excellent**

The evaluators are to score the bidder on a scale of 1 to 5 and use the scored value to determine the achieved weight of the criterion.

Criteria		Maximum Weight Value Product	Maximum Score	Bidder score	Total Score (Bidder Score x Weight Value)
FUNCTIONALITY COMPLIANCE	<p>Ability and Capability / Team capability</p> <p>(Attach 1 page resume of each key project team member indicating qualifications, experience, accreditation / affiliation).</p> <ol style="list-style-type: none"> 1. ECSA accredited professional person 2. Provide CV of site agent or project manager or artisan foreman for project implementation. 3. Project implementation plan 4. Provide team reporting structure for project implementation. 5. Provide ORHVS certificate of implementing team member <p>Weight score:</p> <ol style="list-style-type: none"> a) 1,2,3,4 and 5 = 5 b) 1,2,3 and 4 = 4 c) 1,3 and 4 = 3 d) 1 and 4 = 2 e) Any of the following: 1 or 2 or 3 or 4 or 5 = 1 	30	5		
	<p>Company Track Record / Experience</p> <p>Schedule of similar work (list the works related to this project)</p> <p>Bidder's track record and experience:</p> <ol style="list-style-type: none"> a) 11 years or more: score (5) b) 8 – 10 years: score (4) c) 5 – 7 years: score (3) d) 2- 4 years: score (2) e) Less than 2 years: score (1) <p>(Minimum of three (3) contactable references. Referral letters must have a start date and end date). Note that only completed projects will be accepted.</p>	30	5		

	<p>Combined value of contracts (previous, current, or combined) related to design, supply and installation of high mast lights or similar electrical; works</p> <p>a) R1 – R200 000: score (1) b) R200 001 – R 400 000: score (2) c) R400 001 – R600 000: score (3) d) R600 001 – R800 000: score (4) e) R800 001 and above: score (5)</p>	25	5		
	<p>Proposed construction programme and Methodology</p> <p>The following must be clearly indicated and submitted:</p> <ol style="list-style-type: none"> 1. Clear milestones for project implementation and timeframes for each task to be completed. 2. Draft or typical design high mast lights or layout 3. A proposed detailed Gantt chart must be submitted (from project start to finish). Or a proposed detailed Gantt chart must be submitted (from project start to finish). 4. Method statement 5. Cash flow projections <p>Weight score:</p> <p>a) 1, 2, 3, 4 and 5 = 5 b) 1, 2, and 3 = 4 c) 1 and 2 = 3 d) 2 and 3 = 2 e) Any of the following: 1 or 2 or 3 or 4 or 5 = 1</p>	10	5		
	<p>Local social economic participation and development objectives</p> <p>Department of Water and Sanitation chief directorate: Water resource infrastructure operations and maintenance is committed to transformation within the water sector through the optimization of socio-economic benefits within the sphere of business.</p> <p>Bidder must attach proof of physical address for verification of the proximity of the bidder workshop or premises in the form if utility bill, municipal rates statement or invoice, lease agreement or property title deeds.</p> <p>For purpose of evaluation criteria: Office mentioned below referred to Midmar Dam area office near Howick Town.</p> <p>a) 201 km and further: score 1 b) 151 km – 200km: score 2 c) 101 km – 150km: score 3 d) 51 km – 100km: score 4 e) 0 – 50km: score 5</p>	05	5		
TOTAL		100			

PHASE 3: 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.

No	Material	Quantity	Specification or description	Comply	Not comply
1	Comprehensive technical report with the technical design for high mast lights	1	<ul style="list-style-type: none"> • Compliance with SANS 10142 and South African electrical standards • Cable trenching and backfilling shall be done in accordance with SANS 10142 requirements • The mast will be designed in accordance with SANS 0225. 		
2	Design, supply, delivery; installation and commission of high mast light	2	<ul style="list-style-type: none"> • Compliance with SANS 10142 and South African electrical standards • Adherence to manufacturer instructions and recommendations • Cable trenching and backfilling shall be done in accordance with SANS 10142 requirements • The contractor shall be responsible to supply the design, final specification and implementation for approval to the DWS Project Manager. • The mast will be designed in accordance with SANS 0225. • The mast will be manufactured to ISO 9001: 2015. • The masts are Hot Dip Galvanised to SANS 121 / SABS 1461. • All poles are manufactured from Grade GW355J HT steel and is manufactured in accordance with SANS 657/1&3. 		

PHASE 4: 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	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.		
6	Complete, sign, submit SBD1, SBD4, SBD6.1 and Annexures C (Local Production and Content declaration – summary schedule.)		

PHASE 5: 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:

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

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:	S.B Mathonsi
Tel:	033 239 1200
Mobile:	082 883 7067
Email:	mathonsis@dws.gov.za

T1.3 LIST OF RETURNABLE DOCUMENTS AND SCHEDULES

The Bidder must complete and attach the following Returnable Documents:

a) SBD Forms to be completed and signed

- | | | |
|--------|--|--------------------------|
| SBD1 | Invitation to Bid | <input type="checkbox"/> |
| SBD3.1 | Pricing Schedule – Firm Prices | <input type="checkbox"/> |
| SBD4 | Declaration of Interest | <input type="checkbox"/> |
| SBD6.1 | Preference Points Claim Form in terms of the Preferential Procurement Regulations 2022 | <input type="checkbox"/> |

b) Returnable Schedules required for Bid Evaluation purposes

- | | | |
|----|---|--------------------------|
| A: | Certificate of attendance of briefing session | <input type="checkbox"/> |
| B: | Bill of Quantities (BOQ) | <input type="checkbox"/> |

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) | <input type="checkbox"/> |
| 2: | An original valid Tax Clearance Certificate issued by the South African Revenue Services. | <input type="checkbox"/> |
| 3: | Certified copies of Identity Documents of shareholders | <input type="checkbox"/> |
| 4: | B-BBEE Status Level Verification Certificate or Sworn Affidavit | <input type="checkbox"/> |
| 5: | Letter of Authority indicating the person who will be authorized to sign bidding documents and contract on behalf of bidder | <input type="checkbox"/> |
| 6: | General condition of a contract, signed | <input type="checkbox"/> |
| 7: | CSD Reports (comprehensive) | <input type="checkbox"/> |
| 8: | Check list of returnable documents | <input type="checkbox"/> |



PART A: INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NAME OF DEPARTMENT/ PUBLIC ENTITY)					
BID NUMBER:	WTE-2605ES		CLOSING DATE: 19 JUNE 2026	CLOSING TIME:	11:00am
DESCRIPTION	DESIGN, SUPPLY, DELIVERY AND INSTALLATION OF HIGH MAST LIGHTS AT WAGENDRIFT DAM NEAR ESTCOURT TOWN				
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, 0001					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO			TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON	Lamprecht Gerda		CONTACT PERSON	Mr. S. B Mathonsi	
TELEPHONE NUMBER	033 239 1200			033 239 1267	
FACSIMILE NUMBER					
E-MAIL ADDRESS	LamprechtG@dws.gov.za		E-MAIL ADDRESS	Mathonsis@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] <input type="checkbox"/> Yes <input type="checkbox"/> No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT	[TICK APPLICABLE BOX] <input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]	
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS					
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?				<input type="checkbox"/> YES	<input type="checkbox"/> NO
DOES THE ENTITY HAVE A BRANCH IN THE RSA?				<input type="checkbox"/> YES	<input type="checkbox"/> NO
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?				<input type="checkbox"/> YES	<input type="checkbox"/> NO
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?				<input type="checkbox"/> YES	<input type="checkbox"/> NO
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?				<input type="checkbox"/> YES	<input type="checkbox"/> NO
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.					

PART B

TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED-(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.
1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
1.4. THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).
2. TAX COMPLIANCE REQUIREMENTS
2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

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

SIGNATURE OF BIDDER:

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

DATE:



**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-2605ES Closing date: **19 JUNE 2026** 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	Preliminary and General	1		
2	Design, supply an installation and testing of minimum of 12m high scissor mast and accessories	2		
3	10% Contingency	1		
			TOTAL	
			15% VAT	
			TOTAL BID PRICE	

-
- **Required by:** OPERATIONS EASTERN
 - **Att:** 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



**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:



C1: CONTRACT DATA

C1.1 GENERAL CONDITIONS OF CONTRACT

C2. PRICING DATA

C2.1 PRICING INSTRUCTIONS

C2.2 BILL OF QUANTITIES



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

CONTRACT NO: WTE-2605ES

PRICING DATA: BILL OF QUANTITIES

INSTALLATION OF HIGH MAST LIGHT for A PERIOD OF 6 MONTHS, NTSHINGWAYO DAM

SECTION 1 - PRELIMINARY AND GENERAL (GENERAL SMALL WORKS)

Item. No.	Pay Ref.	Description	Unit	QTY	Rate	Amount
1		<p>PRELIMINARY AND GENERAL</p> <p>Travel to site</p> <p>Mast installation team</p> <p>Civil team</p> <p>OHS</p> <p>Safety file</p>	<p>Sum</p> <p>Sum</p> <p>Sum</p>	<p>1</p> <p>1</p> <p>1</p>		
2		<p>DESIGN, SUPPLY AN INSTALLATION AND TESTING OF MINIMUM OF 12M HIGH SCISSOR MAST AND ACCESSORIES</p> <p>Delivery of high mast to Wagendrift Dam</p> <p>Excavation, and backfilling of earthworks</p> <p>Concrete foundation and cub test</p> <p>Hot dipped galvanised foundation bolts and templates suitable for scissor mast (set)</p> <p>Earthing: Sectional pole standard system (2X1.2m earth spikes)</p> <p>16.0mm bare copper wire - p/m</p> <p>16mm x 4 core wire cable</p> <p>Spare LED light (minimum 150W LED floodlights brightness as per design)</p>	<p>Sum</p> <p>Sum</p> <p>Sum</p> <p>No.</p> <p>No.</p> <p>m</p> <p>m</p> <p>No.</p>	<p>1</p> <p>1</p> <p>1</p> <p>2</p> <p>2</p> <p>600</p> <p>600</p> <p>4</p>		

		Minimum of 12m high sectional poles scissor mast with brackets – each pole must have four (4) lights	No.	2		
		Internal fiber glass DB with photocell, splitter box and 5Cx2.5mm trailing cable	No.	2		
		Assembly and installation of high mast	No.	2		
		Supply and install grouting between base plate and top of concrete base	No.	2		
		Service kit or equipment for maintenance of high mast (set)	No.	1		
		Technical design and report, issuance of COC	No.	1		
3		10% Contingency	Sum			
SUB TOTAL CARIED TO THE NEXT PAGE						



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

CONTRACT NO: WTE-2605ES

PRICING DATA: BILL OF QUANTITIES

DESIGN, SUPPLY, DELIVERY AND INSTALLATION OF HIGH MAST LIGHT FOR A PERIOD OF 6 MONTHS, WAGENDRIFT DAM

SUMMARY OF BILL OF QUANTITIES

ITEM	DESCRIPTION	SECTION AMOUNT
1	Preliminary and General	R
2	Design, supply an installation and testing of minimum of 12m high scissor mast and accessories	R
3	10% Contingency	R
	Sub Total	R
	ADD: 15% of Sub Total Value Added (VAT)	R
	TOTAL	R

SIGNATURE OF BIDDER:

DATE:

C3: SCOPE OF WORKS

1. Introduction

Wagendrft Dam is located in KwaZulu-Natal, on the Bushmans River, about 5 km to the west of Estcourt. The Wagendrft Dam is owned and operated by the Department of Water and Sanitation, for water supply to town of Estcourt, Weenen and surrounding communities.

Department has a planned project for design, supply, installation and commission of high mast light.

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

Wagendrft Dam is located on the Bushman's, about 5km west of Estcourt town. Directions to the Wagendrft Dam, from the Estcourt town take Ntabamhlophe road, drive towards Wembezi township. after passing municipality reservoirs, take left on road going to the dam. The geographical location of the Wagendrft Dam is S 29° 02' 30.1", E 29° 51' 10.1". figure 1 below shows location of the dam. Yellow line represent land area that high mast must cover.

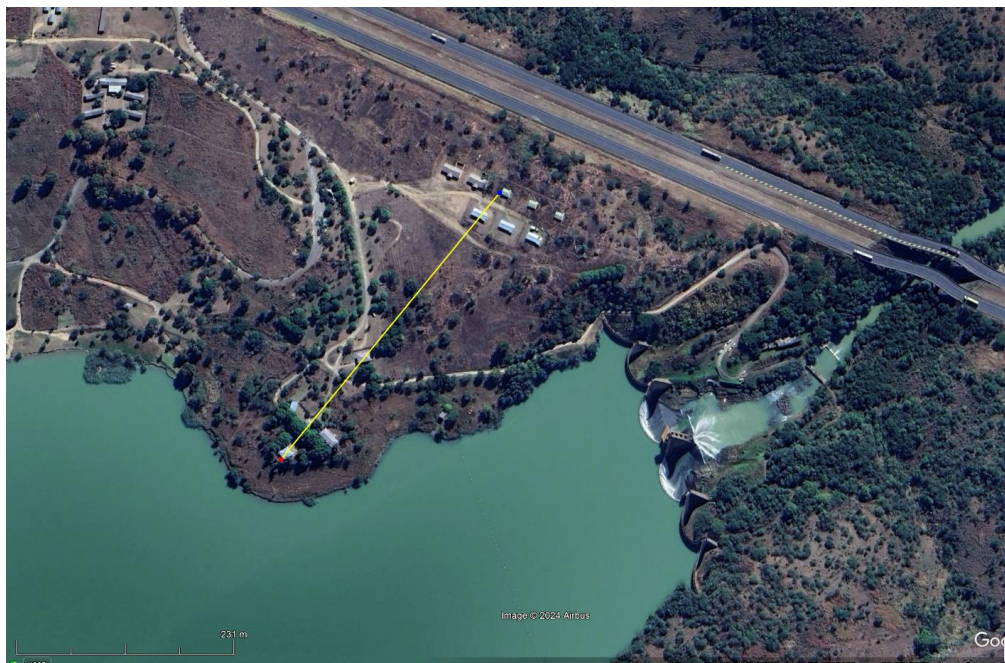


Figure 1: Locality map

1.2 Existing power supply to Wagendrft Dam

The power supply to the dam and buildings (used for operation and maintenance of the dam) is sourced from Eskom. These state assets receive power from Eskom meter that distribute power to department distribution board (DB). The power supply to the proposed high mast lights will be sourced from this DB. Bidder will be shown the exiting power supply and area that must be covered with light.

C3.1 Technical Specification

1. Scope of work

The project includes following:

Design, supply, delivery and installation of high mast lights to Wagendrift Dam.

The bidder or contractor should provide a comprehensive technical report with the technical design for high mast lights:

i) Lighting Equipment Details

- A minimum of four (4) number of luminaires per mast
- Luminaire type and wattage (e.g., 350 W LED floodlights)
- Total connected electrical load per mast
- Control gear load and feeder cable sizing
- Power factor of the lighting installation

ii) Electrical Design Documentation

The bidder or contractor should provide or submit a complete electrical design drawings and calculations prepared and signed by a professionally registered person, including:

- Protection devices
- Circuit schedule and single-line diagram
- Voltage drop calculations
- Earthing/grounding system design
- Short-circuit current calculations
- Lightning protection study
- Surge protection
- Cable routing and conduit sizing.

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

1.1.1 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.

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. 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.
8. 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.

1.1.2 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

1.1.3 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.

1.1.4 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 25°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

1.1.5 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.
- Minimum of 12 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

1.1.6 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.

1.1.7 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.

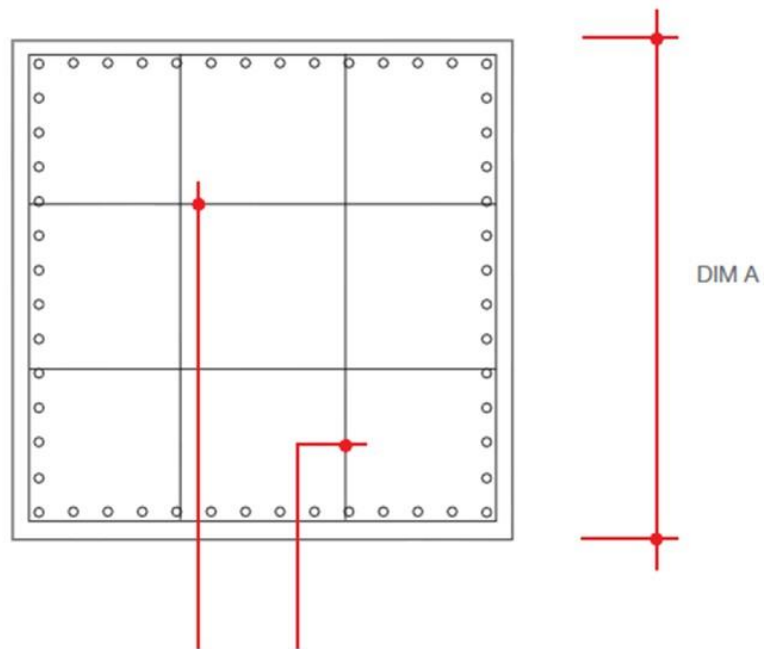
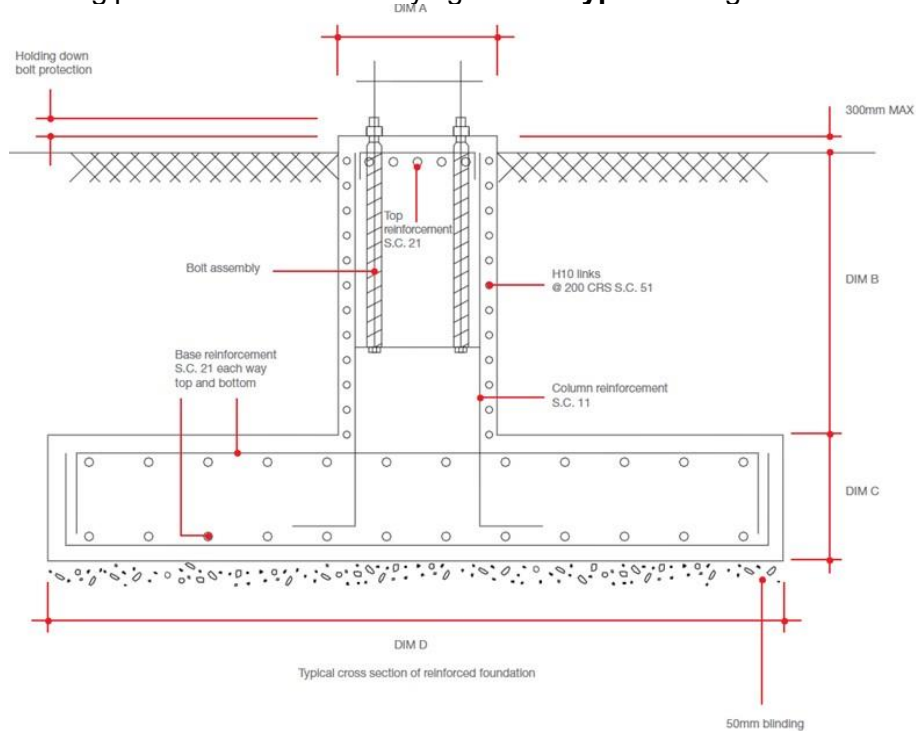
			pressure kN/m ²
Rock	Not inferior to sandstone, limestone or firm chalk	Requires at least a pneumatic or other mechanically operated pick for excavation	1000
Gravel, sand	Compact	Requires pick for excavation. Wooden peg 50mm ² in cross section is hard to drive beyond 150mm	Dense to very dense 150-400 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

1.1.8 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.

1.1.9 Reinforced Concrete High Mast Light Pole Foundation

This high mast lighting foundation type consists of a reinforced concrete pad foundation with a plinth which resists overturning by mobilizing the vertical bearing pressures of the underlying soils. **A type** drawing is shown below.



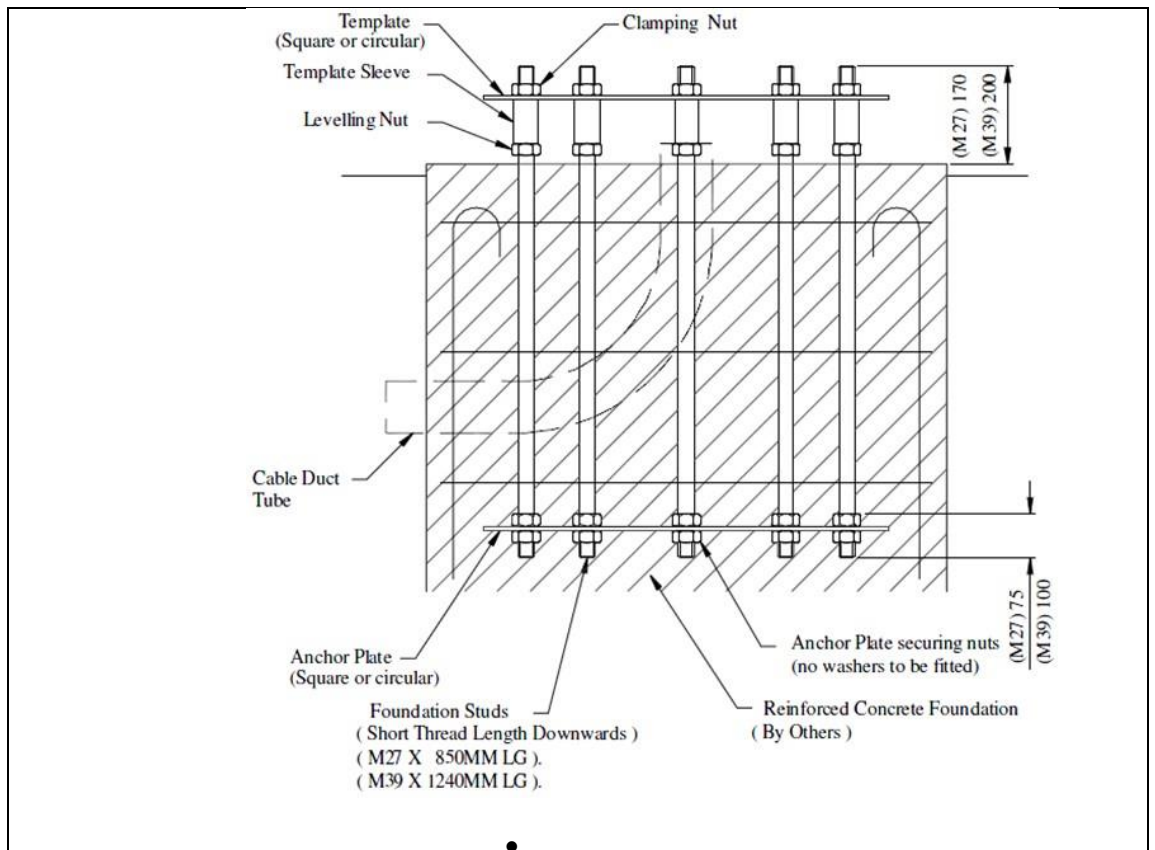
H10 internal lacers every 4th bar or
450 c/c (whichever is smaller spacing)
@ 250 c/c vertical spacing S.C. 99

- 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.

•

1.1.10 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.



1.1.11 Guarantee period.

The LED should have minimum 150W LED floodlights brightness and cover up to 50 metres from centre of each high mast.

1.1.12 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.

1.1.13 Spares

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

2. 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.

2.1 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**.

2.2 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
- Electrocutation
- 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.

2.3 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

2.4 Costs of OHS

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

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.

Materials

The Standard Specification: DWS 1601 Paragraph 3 refers.

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.

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.

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.

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.