



Request for Sealed Quotations for the

**Supply and Delivery of Pumps Sets, Boreline Flexible Drop Pipes, Stainless Steel
Couplings & Clamps: B10 and B11 for Kuiseb Delta New Scheme.**

Procurement Reference No: G/RFQ/NW-045/2025

Name of Bidder		
Contact Person		
E-mail Address		
Postal Address		
Total Amount (Excl. VAT)		
Contact Phone number	Work:	Mobile:

Documents must be posted / delivered to:

The Quotation/Bid Box

Att: Procurement Management Unit (+264 61 71 2015, bids@namwater.com.na)

Namibia Water Corporation Ltd.

Private Bag 13389

176 Iscor Street, Aigams Building

Windhoek

Closing Date: Thursday, 03 October 2024 at 11h00

NO LATE BIDS WILL BE ACCEPTED!

NOTICE TO BIDDERS

- Please take note of initializing all pages of the standard bidding document and initial all the supporting documents including company profiles, brochures, etc.**
- Take note to sign all relevant pages as stipulated in the bidding standard document.**
- Copies of documents not certified by a Commissioner of Oath appointed in terms of the Justices of the Peace and Commissioners of Oaths Act.1963 (Act No. 16 of 1963) will not be accepted.**



Namibia Water Corporation Ltd.
Private Bag 13389, Windhoek, Namibia
Tel: +264 61 71 2066
Fax: +264 61 21 0741

Letter of Invitation

Name and Address of Bidder _____

Procurement Reference Number: G/RFQ/NW-045/2025

12 September 2024

Dear Sir/Madam

Supply and Delivery of Pumps Sets, Boreline Flexible Drop Pipes, Stainless Steel Couplings & Clamps: B10 and B11 for Kuiseb Delta New Scheme.

NamWater invites you to submit your best quote for the items described in detail hereunder. Any resulting contract shall be subject to the terms and conditions referred to in the document. Queries, if any, should be addressed to Procurement Management Unit E-mail: bids@namwater.com.na, Private Bag 13389 Windhoek, Namibia.

Please prepare and submit your Bid in accordance with the instructions given or inform the undersigned if you will not be submitting a quotation.

Yours faithfully,

Procurement Management Unit

SECTION I: INSTRUCTIONS TO BIDDERS

1. Rights of Public Entity

NamWater Ltd reserves the right:

- (a) to split the contract as per the lowest evaluated cost per item, and
- (b) to accept or reject any quotation; and
- (c) to cancel the quotation process and reject all quotations at any time prior to contract award.

2. Preparation of Quotations

You are requested to quote for the items mentioned in Section III by completing, signing and returning:

- (a) the Quotation Letter in Section II;
- (b) the List of Goods and Price Schedule Section III;
- (c) the Specifications and Compliance Sheet in Section V; and
- (d) any other attachment deemed appropriate.

You are advised to carefully read the complete bidding document, including the Special Conditions of Contract in Section VII, before preparing your quotation. The standard forms in this document may be retyped for completion but the Bidder is responsible for their accurate reproduction.

3. Validity of Quotations

The Quotation validity period shall be **90** days from the date of submission deadline.

The tenderer shall initial each page after having read and completed this document. Any alterations made to any of the information contained in this document shall also be initialled.

4. Eligibility Criteria

To be eligible to participate in this Quotation exercise, you should:

- (a) Have a certified copy (certified by a Commissioner of Oath appointed in terms of the Justices of the Peace and Commissioners of Oaths Act.1963 (Act No. 16 of 1963)), of a full valid company Registration Document;
- (b) Have an original or a certified copy (certified by a Commissioner of Oath appointed in terms of the Justices of the Peace and Commissioners of Oaths Act.1963 (Act No. 16 of 1963)), of a valid Good Standing Tax Certificate, as certified by the Commissioner of Oath.
- (c) Have a valid good Standing Social Security Certificate,
- (d) Have a valid certified copy (certified by a Commissioner of Oath appointed in terms of the Justices of the Peace and Commissioners of Oaths Act.1963 (Act No. 16 of 1963)), of Affirmative Action Compliance Certificate, proof from Employment Equity Commissioner that bidder is not a relevant employer, or exemption issued in terms of Section 42 of the Affirmative Action Act, 1998 or a valid certified copy of the original document, as certified by the Commissioner of Oath;

- (e) Submit signed Bid-securing Declaration.
- (f) An undertaking on the part of the Bidder that the salaries and wages payable to its personnel in respect of this proposal are compliant to the relevant laws, Remuneration Order, and Award, where applicable and that it will abide to sub-clause 4.6 of the General conditions of Contract if it is awarded the contract or part thereof; and;
- (g) Submit Warranty Certificate
- (h) Submit catalogues or any supporting literature to substantiate compliance with the required specifications.
- (i) Submit the documentary evidence of the Bidder's qualifications to perform the contract if its bid is accepted shall establish to the Purchaser's satisfaction that:
 - i. A Bidder that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods in Namibia;
 - ii. The Bidder is equipped and able to carry out the Supplier's maintenance, repair and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications.

The obligatory documents indicated above, are acceptable as follows:

- A valid original document; or
- A valid original document; or a valid certified copy of an original document, as certified by a Commissioner of Oath appointed in terms of the Justices of the Peace and Commissioners of Oaths Act, 1963 (Act No. 16 of 1963) as amended.

5. Bid Securing Declaration

Bidders are required to subscribe to a Bid Securing Declaration for this procurement process.

6. Delivery

Delivery shall be **4 to 6 weeks** after acceptance/issue of Purchase Order. Deviation in delivery period *shall not be accepted*.

- 6.1. All items shall be delivered to 176 Iscor street Namwater at the Aigams Building, Northern Industrial Area in Windhoek.
- 6.2. Delivery will only be considered to be complete once all equipment and documentation have been delivered, inspected and found to be in accordance with the specifications.
- 6.3. A penalty of 1/14%, per day, of the total contract amount will be deducted from the tender amount for late deliveries.
- 6.4. In the event of costs being incurred due to late deliveries, this will be on the bidder's account and include the cost of overtime and any other such costs.

7. Sealing and Marking of Quotations

Quotations should be sealed in a single envelope, clearly marked with the Procurement Reference Number, addressed to NamWater with the Bidder's name and contact information at the back of the envelope.

8. Submission of Quotations

Quotations should be deposited in the Quotation/Bid Box located at Namibia Water Corporation Ltd Head office, Private Bag 13389, 176 Iscor Street, Aigams Building, Windhoek, not later than **Thursday, 03 October 2024 at 11h00**. Offers by post or hand delivered should reach Private Bag 13389 by the same date and time at latest. Late Offers will be rejected.

Offers received by e-mail will not be considered.

9. Opening of Quotations

Quotations will be opened internally by NamWater immediately after the closing time referred to in instruction 8 above. A record of the Quotation Opening stating the name of the bidders, the amount quoted, the presence or absence of a Bid Securing Declaration, will be posted on the website of the Public Entity and available to any bidder on request within three working days of the Opening.

10. Evaluation of Quotations

NamWater shall have the right to request for clarifications in writing during evaluation. Offers that are substantially responsive shall be compared on the basis of price or ownership cost, subject to Margin of Preference where applicable, to determine the lowest evaluated quotation.

11. Technical Compliance

Bidders shall submit along with their quotations documents, catalogues and any other literature to substantiate compliance with the required specifications and to qualify deviations if any with respect to NamWater's requirements.

The Specifications, Performance Requirements and Compliance Sheet details the minimum specifications of the goods/items to be supplied. The specifications have to be met but no credit will be given for exceeding the specifications.

12. Prices and Currency of Payment

Prices shall be fixed in Namibian Dollars.

13. Award of Contract

The Bidder having submitted the lowest evaluated responsive quotation and qualified to supply the goods/items and related services shall be selected for award of contract. Award of contract shall be by issue of a Purchase Order/Letter of Acceptance in accordance with terms and conditions contained in Section VI: Contract Agreement and General Conditions of Contract.

14. Notification of Award and Debriefing

The Public Entity shall after award of contract promptly inform all unsuccessful bidders in writing of the name and address of the successful bidder and the contract amount and post a notice of award on its website within seven days. Furthermore, the Public Entity shall attend to all requests for debriefing made in writing within 7 days of the unsuccessful bidders being informed of the award.

SECTION II: QUOTATION LETTER

(to be completed by Bidders)

[Complete this form with all the requested details and submit it as the first page of your quotation with the Price list and documents requested above. A signature and authorisation on this form will confirm that the terms and conditions of the RFQ prevail over any attachments. **If your quotation is not authorised, it will be rejected.**]

Quotation addressed to:	Namibia Water Corporation Ltd
Procurement Reference Number:	G/RFQ/NW-045/2025
Subject matter of Procurement:	Supply and Delivery of Pumps Sets, Boreline Flexible Drop Pipes, Stainless Steel Couplings & Clamps: B10 and B11 for Kuiseb Delta New Scheme.

We offer to supply the items listed in the attached List of Goods and Price Schedule as per the defined specifications, *except for the qualified deviations [Bidder may delete this phrase in case of no deviation]* and, in accordance with the terms and conditions stated in your Request for Quotations referenced above.

We confirm that we are eligible to participate in this Quotation exercise and meet the eligibility criteria specified in Section 1: Instruction to Bidders.

We undertake to abide ethical conduct during the procurement process and the execution of any resulting contract.

We have read and understood the content of the Bid Securing Declaration (BSD) attached hereto and subscribe fully to the terms and conditions contained therein. We further understand that this subscription could lead to disqualification on the grounds mentioned in the BD].

The validity period of the Quotation is **60 days** from the date of the bid submission deadline.

We confirm that the prices quoted in the List of Goods and Price Schedule are fixed and firm and will not be subject to revision or variation, if we are awarded the contract prior to the expiry date of the quotation validity.

The delivery period offered from the date of issue of Purchaser Order/ Letter of Acceptance is as shown in the List of Goods items and Price Schedule.

Quotation Authorised by:

Name of Bidder		Company's Address and seal	
Contact Person			
Name of Person Authorising the Quotation:		Position:	Signature:
Date		Phone No./Fax	

Appendix to Quotation Letter

**BID SECURING DECLARATION
(Section 45 of Act)
(Regulation 37(1)(b) and 37(5))**

Date:

Procurement Ref No.:

To:

I/We* understand that in terms of section 45 of the Act a public entity must include in the bidding document the requirement for a declaration as an alternative form of bid security.

I/We* accept that under section 45 of the Act, I/we* may be suspended or disqualified in the event of

- (a) **a modification or withdrawal of a bid after the deadline for submission of bids during the period of validity;**
- (b) **refusal by a bidder to accept a correction of an error appearing on the face of a bid;**
- (c) **failure to sign a procurement contract in accordance with the terms and conditions set forth in the bidding document, should I/We* be successful bidder; or**
- (d) **failure to provide security for the performance of the procurement contract if required to do so by the bidding document.**

I/We* understand this bid securing declaration ceases to be valid if I am/We are* not the successful Bidder

Signed:
[insert signature of person whose name and capacity are shown]

Capacity of:
[indicate legal capacity of person(s) signing the Bid Securing Declaration]

Name:
[insert complete name of person signing the Bid Securing Declaration]

Duly authorized to sign the bid for and on behalf of: *[insert complete name of Bidder]*

Dated on _____ day of _____, _____
[insert date of signing]

Corporate Seal (where appropriate)

[Note*: In case of a joint venture, the bid securing declaration must be in the name of all partners to the joint venture that submits the bid.]

**delete if not applicable / appropriate*



Republic of Namibia

Ministry of Labour, Industrial Relations and Employment Creation

Written undertaking in terms of section 138 of the Labour Act, 2015 and section 50(2)(D) of the Public Procurement Act, 2015

1. EMPLOYERS DETAILS

Company Trade Name:.....

Registration Number :.....

VAT Number:

Industry/Sector:

Place of Business:.....

Physical Address:.....

Tel No.:.....

Fax No.:.....

Email Address:.....

Postal Address:.....

Full name of Owner/Accounting Officer:.....

.....

Email Address:.....

2. PROCUREMENT DETAILS

Procurement Reference No.:.....

Procurement Description:

.....

.....

Anticipated Contract Duration:

Location where work will be done, good/services will be delivered:

.....

3. UNDERTAKING

I *[insert full name]*, owner/representative

of*[insert full name of company]*

hereby undertake in writing that my company will at all relevant times comply fully with the relevant provisions of the Labour Act and the Terms and Conditions of Collective Agreements as applicable.

I am fully aware that failure to abide to such shall lead to the action as stipulated in section 138 of the labour Act, 2007, which include but not limited to the cancellation of the contract/licence/grant/permit or concession.

Signature:

Date:

Seal:.....

Please take note:

1. *A labour inspector may conduct unannounced inspections to assess the level of compliance*
2. *This undertaking must be displayed at the workplace where it will be readily accessible and visible by the employees rendering service(s) in relations to the goods and services being procured under this contract.*

SECTION III: LIST OF GOODS AND PRICE SCHEDULE

Supply and Delivery of Pumps Sets, Boreline Flexible Drop Pipes, Stainless Steel Couplings & Clamps: B10 and B11 for Kuiseb Delta New Scheme.

Procurement Ref No: G/RFQ/NW-045/2025

INSTRUCTIONS TO THE PUBLIC BODY				INSTRUCTIONS TO BIDDERS			
Descriptions				<u>Bidders shall fill-in columns E, F & G and fill the total</u> E= Rate per unit F=Total price for one item (C x E) • If an equivalent is quoted, please attach to your quote appropriate technical information & specification • Bidders shall fill in and sign the bottom section of this page			
A	B	C	D	E	F	G	H
Item no.	Description of Goods	Quantity required	Unit of measures	Price per unit NAD ¹	Total price without VAT NAD	VAT: NAD	Country of Origin
1	Submersible Pump with Encapsulated Motor Sets complete with Cables (and Cooling Sleeves if required) for Kuiseb Delta Boreholes.						
1.1	Borehole WW 100127 - 20m ³ /h at 82mWh Pump/Motor Unit c/w 55m long Submersible Cable (At least a 9.6kW motor)	1	Set				
1.2	Borehole WW 100110 - 20m ³ /h at 82mWh Pump/Motor Unit c/w 58m long Submersible Cable (At least a 9.6kW motor)	1	Set				
SUB TOTAL							

2	PIPE FITTINGS							
2.1	76NB 304/316 ANSI Stainless Steel Couplings (Threaded) complete with clamps. For an 3 “ Pump discharge port.	2	Set					
2.2	50NB 304/316 ANSI Stainless steel coupling clamps. Fits on Pipework side.	4	Each					
SUB TOTAL								
3	Boreline Flexible Drop Pipe (Note: ID – Inside Diameter)							
3.1	Borehole WW 100127: 76 mm ID Boreline Flexible Drop Pipe	50	m					
3.2	Borehole WW 100110: 76 mm ID Boreline Flexible Drop Pipe	53	m					
SUB TOTAL								
TOTAL								
Delivery weeks								
NAME:			POSITION:			SIGNATURE:		DATE:
NAME OF BIDDER:				ADDRESS:				

1. If Price quoted is subject to change in rate of exchange at the time of delivery of goods provide details hereunder:

Currency: Exchange Rate:

If no base rate of exchange is given, the price shall be treated as firm in Namibian Dollars for all intent and purpose.

Key notes: NA=NOT APPLICABLE, NQ=NO QUOTE

SECTION IV: SPECIFICATIONS AND PERFORMANCE REQUIREMENTS

4.1 General

This bid call for the Supply and Delivery of Submersible Pump Sets: Kuiseb Delta New Scheme: North Boreholes.

The whole pump components must be supplied by the same pump Manufacturer including the pump body, pump cover, impeller, shaft, shaft sleeve, and seals. Well drillers, distributors or other fabrication shops will not be allowed to furnish equipment built in their local fabrication shop.

Except as modified or supplemented herein, all the pumps shall conform to the applicable requirements of **ANSI/AWWA E101** and the Hydraulic Institute (H.I) Standards.

Supplier shall be certified to the **ISO 9001 standard** for design and manufacture of end suction pumps.

Equipment shall be manufactured in a facility that recognizes its impact on the environment, and has demonstrated a commitment to minimizing that impact by achieving **ISO 14001 certification**.

4.2 Mounting

The pump-motor sets (the submersible pump sets) will be close coupled and flanged connected.

4.3 After Sales Services

An authorised service agent capable of servicing the offered pumps and motors must be located in Namibia. The service agent must be able to supply wear items including pump impellers to NamWater Head office within 30 working days of receipt of an order for such items.

4.4 Warranty

The bidder must provide a warranty of minimum 12 months on performance and mechanical wear from the day of delivery as a commitment on quality of offered items.

4.5 Importance of Efficiency & Guaranteed Value

Suppliers must guarantee their offered pump efficiency percentage at the specified duty points. Bidders shall accept an in situ pump efficiency test by reservoir drawdown measurement, certified motor efficiency and certified dual electrical kW meters.

Submersible Pump Set for Kuiseb Delta boreholes

1.1 General Specifications

Underground water will be abstracted from the boreholes in and pumped to respective reservoirs. Thus submersible Pump-Motor Sets Complete with Cables (and Cooling Sleeves if required) are required.

The submersible pump-motor units shall be stainless steel, close-coupled as a multistage centrifugal pump element complete with a submersible squirrel-cage motor, preferably water filled. The units will be installed in boreholes and connected to a supply pipe network.

The operating speed of the pumps shall be 2900 ± 100 rpm.

Duty point flow rate and head for each pump must be within application range recommended by manufacturer.

NPSH required should be less than **10 mWh**.

The pumps performance testing and acceptance tolerances for flow, total head, efficiency and $NPSH_R$ shall be as per **ISO 9906 Grade 2B**.

NamWater will carry out a pump performance test during commissioning before full operation.

1.2 Pump Unit

1.2.1 Pump Curve Requirements

The specified duty point shall be at maximum pump efficiency (BEP – Best Efficiency Point). The selection of equipment must be done taking in consideration efficiency and standardization where possible.

All pumps shall be fitted with a built-in discharge non-return valve and the pump curves shall be for the pump including the non-return valve.

The Head/Flow-rate curve must pass (a) through or be within 10% above the primary point (Duty point) and (b) below the secondary points (Point 1 and Point 2).

Table 1: Duty Points

Item No.	Borehole Number	Pump Curve Characteristics					
		Point 1		Duty Point		Point 2	
#	Kuiseb Delta	m ³ /h	mWh	m ³ /h	mWh	m ³ /h	mWh
1	WW 100127	20	95	20	82	24	180
2	WW 100110	20	95	20	82	24	180

The flow ratio (Q/Q_{BEP}) at the duty flow shall be between **70% and 105%**.

1.2.2 Pump Dimensions and Construction

The pump discharge connection shall be BSP female threaded.

The pump shall be provided with replaceable impellers and casing wear rings. The impeller vanes shall be continuous welded to the web. **Spot welding will not be acceptable.**

The impellers shall be located on the shaft by means of a positive locking device, e.g. key-ways and spacer/taper sleeves and secured with a locknut; **taper-locks will not be acceptable.**

The pumps will be coupled to flexible drop pipes with male couplings of thread connection as indicated below. The female parallel thread connections are of British Standard Pipe (BSP) parallel designation type.

If the pump discharge connection size is different from the listed size, then an applicable stainless steel reducing bushing (or applicable fittings) should be fitted on the pump discharge!

Table 2 : Unit Physical Sizes

#	Borehole	Casing Inside Diameter (mm)	Discharge Size Connection: Female BSP Parallel Thread (inch)	Maximum outer diameter of pump and motor (including cable and/or cooling sleeve)
Kuiseb Delta				
1.1	WW 100127	203	RP 3*	145 mm
1.2	WW 100110	164	RP 3*	145 mm

* RP 2-1/2 can also be considered. Supplier must include the applicable coupling and coupling clamps.

1.2.3 Materials of Construction

The parts indicated shall be constructed of the following materials:

Shaft:	Stainless Steel
Bearings:	Stainless Steel/Ceramics
Strainer:	Stainless Steel
Cable Protection Shield:	Stainless Steel
Tie-bolts or Tie-bands:	Stainless Steel
Casing/Bowls:	Stainless Steel
Impellers:	Stainless Steel
Diffusers:	Stainless Steel
Bolts, Nuts and Washers:	Stainless Steel

1.2.4 Information Plates

Each pump shall be fitted with durable metal plate clearly marked with the following minimum information:

- Pump make & model
- Best efficiency point
- Full impeller diameter
- Installed impeller diameter
- Power required at best efficiency point
- Nominal operating speed

1.3 Submersible Motor

1.3.1 General

All electrical submersible motors shall be suitable for operating from the specified power supply. Motors shall comply in all respects with the relevant parts of BS 4999 and BS 5000, and shall be designed to run at high power factor and efficiency.

The canned submersible motors' (not rewindable), windings will be **enamel wire** (like in standard surface motor), hermitically sealed from surrounding and filled with embedding material in order to withhold the windings and to increase heat transfer.

The motors shall be selected to operate at 50 Hz. The operating speed of the motor shall be 2900 ± 100 rpm.

1.3.2 Motor Specifications

Type:	Squirrel cage
Enclosure Material:	SS 304/SS 316
No of poles:	2-pole
Speed:	2900+-100rpm
IP Rating:	IP 68
Insulation Class:	Class F minimum
Direction of rotation:	Bi-directional
NEMA Standards:	4" and 6" and 8" motor needs to conform with NEMA Standards
Drive details:	Motor will be coupled directly to the centrifugal pump
Method of starting:	Direct-on-line
Minimum Motor Efficiency:	As per table below

Table A:

Power Rating (kW)	Line Voltage (V)	Minimum Full Load Efficiency
9.6	400	71.1%

Number of Starts/H:	4 per hour (minimum)
Power supply:	380-415V; 3-Phase
Voltage tolerance lower limit:	380V -10%
Voltage tolerance higher limit:	415 + 6%
Frequency:	50 Hz
Inrush current during start-up (locked rotor):	Maximum 6 times the full load
Winding Connection:	Delta
Installation orientation:	Vertical
Maximum motor power deration:	5 +/- 0.5 % power deration at 2% voltage unbalance
Maximum allowable current imbalance :	5%

Voltage unbalance can reduce the service live of the equipment by huge margins. **Bidders shall submit the information, that NamWater can derate the equipment accordingly.**

NamWater will include electronic protection units in the MCC's to protect all motors.

The motor shall have a power reserve of at least **15%** at any point of the Head-Flow rate curve of the pump.

The submersible motors shall be filled with water/glycol filled. **Oil filed motor will not be acceptable.**

For the insulation Class specification, the requirements of BS4999 shall be met. The limit of temperature rise shall be for the appropriate Class of insulation quoted. A minimum of Class F insulation shall be provided.

1.3.3 Motor Cooling Sleeves

Water-cooling flow past the electrical motors shall be as per Manufacturer's specifications. **If not**, Bidders should include for the supply of cooling sleeves to be installed with pump sets in order to meet these specifications.

NOTE: The cooling sleeves are optional, but if not offered, Bidders should confirm that the flow past the motor is according to the manufacturer's specifications with the installed casing diameter.

However, if the inside diameter of the casing is too small for the cooling sleeves to fit the borehole casing, Bidders should still confirm whether the flow past the motor is still according to Manufacturer's specifications with the installed borehole casing inside diameter.

See applicable casing inside diameter in the bidding document regarding the pump dimensions, pump discharge sizes and casing diameters.

If offered, the cooling sleeves should be manufactured from the **same material** as the pump sets body and all fastening material should be included.

1.3.4 Motor Dimensions

The motor diameter may exceed pump diameter in order to meet the specifications of this tender or to improve overall pump-motor efficiency, but within the limitation that the maximum diameter of the motor, including the power cable shall not exceed a maximum diameter as specified in **6. PUMP UNIT**, paragraph b). **It is preferred that the pump and motor is of the same diameter.**

1.3.5 Motor Shaft Seal and Bearings

The shaft seals for the motor shall be Silicon Carbide.

The thrust bearings shall be water lubricated Michel-type bearings.

The radial bearings shall be graphite type.

1.3.6 Information Plates

The motor shall be fitted with durable metal plate clearly marked with the following minimum information:

- Motor make & model
- Best efficiency point

- Amp ratings
- Voltage
- Cos ϕ
- Bearing specifications
- Total weight

1.4 Submersible Cable

Each pump unit shall be fitted and supplied with a factory fitted lead-out cable of at least **0.5 meters** above pump discharge. An additional length of cable as indicated in the table below, shall be supplied as a 4-core, cylindrical type submersible motor cable adequately sized for direct-on-line starting and continuous duties complete with termination kits.

#	Borehole Number	Pump Installation Depth (m)	Cable Length (m)
Lot 1 Rooidaghek			
1.1	WW 100127	50	55
1.2	WW 100110	53	58

A maximum voltage drop of 2.5% will be allowed at full load current and 15% at start-up.

The following values and formulas will be used to calculate the minimum size of the submersible cable:

$$\Delta V = 1,73 * I * L * t * R / 1000$$

I – Full load current, L – Cable length (meter), R – Conductor resistance at 45°C (Ohm/km) and t – Temperature correction factor, use t=1,12

1.5 Coupling Set (Pump Side)

The couplings that connect the pump to the rising main shall be stainless steel (304/316 ANSI) to prevent bi-metal corrosion.

The Flexible Rising Main Pipes shall be fitted with fully re-usable fittings each comprising of a body and two outer fastening clamps. The body of the fitting must contain two grooves over which the hose fits and the clamps are tightened. The two fastening clamps must be split into three equal parts. The materials of construction shall be 316 stainless steel for use with drinking water

or where water is of an aggressive nature. The fittings shall be supplied with either BSP male thread for attachment to the pump at one end and the head works at the surface.

The couplings will connect to threaded port (**pump side**) as tabulated below:

#	Borehole Number	Quantity	Coupling Thread Size (Pump Side)	Boreline Flexible Drop Pipe (Fitting Side)	Coupling Materials
1	WW 100127 and WW 100110	2	RP3 inch	50 mm ID	316 ANSI S/S

1.6 Coupling Clamps (Base Plate)

The top of the rising main will be connected to the borehole base plate. This base plate already has a welded 50NB coupling with grooves. Therefore, the supplier should supply only the coupling clamps to connect the rising main to the existing couplings.

1.7 Boreline Flexible Drop Pipe

Only “Boreline” flexible drop pipe can be offered as the pumps rising mains.

The flexible drop pipes will be installed for minimum maintenance and easy retrieval from a borehole.

The flexible drop pipes shall be constructed from high-tenacity polyester yarns, which are circular woven and then totally encapsulated to form an integrated cover and lining of a high performance polyurethane elastomer, which is approved for use with potable water. A special rib will be incorporated in the cover to facilitate the attachment and securing cable straps for the purpose of supporting the power cable.

The flexible drop pipes must have a minimum theoretical short length burst pressure and tensile strength. The maximum extension should be no more than 4% and the maximum diameter swell 15%. The material should be capable of operating in water with a pH from 4 to 9.

The manufacturer should provide a warranty of not less than **10 years** against materials and manufacturing defects for the Boreline flexible drop pipes.

1.8 Inspections

NamWater will inspect all items upon delivery to ascertain if dimensions, pressure flange rating and coating are correct. So NamWater will not send a technical person to go inspect the items at

the factory, the onus thus rest with the supplier to ensure that all items are to specifications before delivery is made to NamWater.

Payment will only be made if all the delivered items are to specifications.

1.9 Labelling

The supplier may use the item numbers already allocated or an appropriate method consistent with the order of the items numbers in this document.

1.10 Supporting Literature

A tender will be **disqualified** if the following information/literature is not included with the offer:

- Pump and motor information in SI units
- Pump H-Q curves indicating power requirement
- Pump efficiency curve
- Motor information and curves indicating all relevant information
- Manufacture’s authorised letter

Delivery will only be deemed complete if NamWater received the following data, certified by the manufacturer:

- A complete operating manual including technical information of all equipment supplied.
- A workshop/maintenance manual containing detailed tolerances required for servicing.
- A sectional view of the pump and motor with parts list.
- Pump and motor performance certificates at the **Motor Rated Speed**.

The above data can be submitted in PDF software format.

Specifications Authorized by:

Name:		Signature:	
Position:		Date:	
Authorized for and on behalf of:		Company	

SECTION V: SPECIFICATIONS AND COMPLIANCE SHEET

Procurement Reference Number: **G/RFQ/NW-045/2025**

Item No	Technical Specification Required	Compliance of Specification or Information Offered	Details of Non-Compliance/ Deviation (if applicable)
<i>A*</i>	<i>B*</i>	<i>C</i>	<i>D</i>

B	Kuiseb Replacement Boreholes		
B0	General (Apply to all units)		
	<p>The following Technical supporting literature are included for each pump unit:</p> <ul style="list-style-type: none"> • Pump and motor information in SI units • Pump H-Q curves indicating power requirement • Pump efficiency curve • Motor information and curves indicating all relevant information 	Yes / No	
	<u>Manufacture's authorised letter is included?</u>		
	<u>Pump</u>		
	Pump Operating speed is 2900 ± 100 rpm.	Yes / No	
	Performance testing and Performance tolerance acceptance for flow, total head and efficiency at duty flows according to standard ISO 9906 Gr. 2B	Yes / No	

	The impellers shall be located on the shaft by means of a positive locking device, e.g. key-ways and spacer/taper sleeves and secured with a locknut; taper-locks will not be acceptable.	Yes / No	
	The impeller vanes shall be continuous welded to the web.	Yes / No	
	Non-return valve fitted. Pump curve is specified with non-return valve fitted	Yes / No	
	Shaft, Bearings, Suction grid, Cable protection shield, Tie-bolts or Tie-bands, Casing/Bowls, Diffusers, Wear ring, Bolts, nuts & washers are made of stainless steel or equivalent material.	Yes / No	
	<u>Motor</u>		
	Canned submersible motors' (not rewindable).	Yes / No	
	At least, Class F insulation or superior and minimum of four (4) starts per hour required.	Yes / No	
	Motor enclosure standard is NEMA (National Electrical Manufacturers Association).	Yes / No	
	Inrush current, input surge current, or switch-on surge (during start-up) is at most 6 times the normal load current. Maximum of 6 times the normal load current	Yes / No	
	Delta Winding connection type	Yes / No	
	Maximum 5 ±0.5% power deration at 2% voltage imbalance	Yes / No	
	Maximum of 5% allowable current imbalance	Yes / No	

	Voltage imbalance information included for each unit	Yes / No	
	Shaft seal for motor material is Silicon Carbide	Yes / No	
	Thrust bearing cooling is by water cooling	Yes / No	
	Radial bearing material is of graphite type	Yes / No	
	Ingress Protection Code is IP 68 or better Rating.	Yes / No	
	Motor Rated speed is 2900rpm and Operating Voltage is 400V	Yes / No	
	Method of starting is direct-on-line	Yes / No	
	Motor power reserve (%) at any point of the Head-Flow curve of the pump is at least 15%.	Yes / No	
	Lower limit of 380V -10% voltage tolerance at 50Hz	Yes / No	
	Higher limit of 415V +6% voltage tolerance at 50Hz	Yes / No	
	Voltage unbalance de-rating charts submitted	Yes / No	
	Is the motor water/glycol filled?	Yes / No	
	Does the lead-out cable and submersible cable contain the earth?	Yes / No	
	If not, is a stud provided?	Yes or N/A	
B1	WW100127 & WW100110		
	Make and Model of Pump		N/A
	Flow rate @ 82 mWh is 20 to 24 m³/h.	Yes / No	

	Head @ 20 m ³ /h is 82 to 95 mWh.	Yes / No	
	Pump efficiency at duty point is at least 71.1%.	Yes / No	
	Duty flow ratio (Q/Q _{BEP}) is 70% - 100%.	Yes / No	
	3 inch Pump Discharge Size Female BSP	Yes / No	
	Make and Model of the motor		
	Minimum motor efficiency as specified for motor rated output power [shaft power] (See PART 2 – Supply Requirements)	Specify power kW and efficiency%	N/A
	Maximum power on the power curve kW	
	Maximum power on the power curve plus 15% power reserve <= Motor power rating	Yes / No kW	
	Motor rated output power kW	N/A
	Motor recommended is at least 9.6kW Minimum motor rating (based on the 15% power reserve on maximum power on the curve)	Yes / No	
	Rated current at 400 V [Ampere]	N/A
	Motor efficiency @ full load [%]	As per requirement: Specify.	
	Motor efficiency @ 75% load [%]		N/A
	Motor efficiency @ 50% load [%]		N/A
	Full load current [Ampere]		N/A
	Power factor at full load []		N/A

	Minimum cooling flow velocity past the motor [m/s]		N/A
	Actual calculated cooling flow velocity past the motor with installed borehole casing [m/s]		N/A
	Is cooling sleeve required?	Yes/No	
	Cooling sleeve material is Stainless Steel (if required)	Yes / No	
	Maximum diameter of pump/motor unit without cooling sleeve is at most 145mm	Yes/No	
	Weight of pump/motor unit [kg]		N/A
	Total length of submersible cable is at least 55m and 58m.	Yes / No	
	Size of submersible cable [mm ²]		N/A
	Calculated voltage drop for submersible cable @ full load current of motor		N/A
B2	S/S Couplings (Pump Discharge Port Side)		
	Coupling material: 316 ANSI Stainless Steel	Yes/No	
	Reusable?	Yes/No	
	Coupling Clamps material: 316 ANSI Stainless Steel	Yes/No	
B3	Flexible Drop Pipe		
	Make is Boreline or Borequip FRM or Vansan	Yes/No	
	Medium temperature range allowable for Boreline flexible drop pipe At least -10 ⁰ C to 50 ⁰ C.	Yes/No	

	Material: The flexible drop pipes shall be constructed from high-tenacity polyester yarns, which are circular woven and then totally encapsulated to form an integrated cover and lining of a high performance polyurethane elastomer, which is approved for use with potable water.	Yes/No	
	Theoretical burst pressure: At least 60 bar	Yes/No	
	Operating Pressure: at least 20 bar	Yes/No	
	Theoretical Tensile strength of at least 2100 kg	Yes/No	

[Bidders should complete columns C and D with the specification of the goods offered. Also state “comply” or “not comply” and give details of any non-compliance/deviation to the specification required. Attach detailed technical literature if required. Authorise the specification offered in the signature block below.]

All bids shall be accompanied with detailed supporting literature for the valves to enable Namwater to evaluate the conformity to specification and include additional features.

Offers with insufficient details or information will not be considered.

NOTE:

Bids will be disqualified if this information is not included in the tender documents. Only original documentation is acceptable and faxed copies of literature are unacceptable. Information supplied in an electronic format will be accepted if in PDF format on a CD.

Specifications and Compliance Sheet Authorised By:

Name:		Signature:	
Position:		Date:	
Authorised for and on behalf of:		Company	

SECTION VI: GENERAL CONDITIONS OF CONTRACT AND CONTRACT AGREEMENT

Any resulting contract shall be placed by means of a Purchase Order/Letter of Acceptance and shall be subject to the General Conditions of Contract (GCC) for the Procurement of Goods (Ref. **G/RFQ-GCC**) available at Namibia Water Corporation Ltd., physical address, 176 Iscor Street, Aigams Building, Windhoek, except where modified by the Special Conditions below

SECTION VI: CONTRACT AGREEMENT

Any resulting contract shall be placed by means of a Purchase Order/Letter of Acceptance and shall be subject to the General Conditions of Contract (GCC) for the Procurement of Goods except where modified by the Special Conditions below.

SECTION VII: SPECIAL CONDITIONS OF CONTRACT

Procurement Reference Number: **G/RFQ/NW-045/2025**

The clause numbers given in the first column correspond to the relevant clause number of the GCC.

Subject and GCC clause reference	Special Conditions
Site GCC 1.1(m)	The Site/final destination for delivery of the Goods is: NamWater STORES, Windhoek Store
Incoterms Edition GCC 4.2(b)	Incoterms shall be governed by the rules prescribed in Incoterms 2010.
Notices GCC 8.1	Any notice shall be sent to the following addresses: For NamWater Ltd the address and the contact name shall be: Procurement Management Unit (Tel: +264 61 71 2015), E-mail: bids@namwater.com.na Private Bag 13389 Windhoek, Namibia For the Supplier, the address and contact name shall be: _____
Delivery and Documents GCC 13.1	The Goods are to be delivered within 8-16 Weeks from the date of Purchase Order or Letter of Acceptance. The documents to be furnished by the Supplier are: (a) signed delivery note; (b) invoice
Terms of Payment GCC 16.1	The structure of payments shall be: full payment following delivery of the Supplies and submission of an invoice and the documents listed in clause 13.1
Terms of Payment GCC 16.3	Payments shall be made not later than thirty days after submission of an invoice and its certification by the Purchaser. Payment will only be made if all the delivered items are to specifications
Terms of Payment GCC 16.4	The currency of payment shall be the currency of order specified in the List of Goods, Price Schedule and Product details in the Statement of Requirements.
Transportation GCC 25	The Goods shall be delivered: Delivery Duty Paid (DDP)
Inspection and Tests GCC 26.	NamWater will inspect all items upon delivery to ascertain if goods conform to specifications. Payment will only be made if all the delivered items are to specifications.

Subject and GCC clause reference	Special Conditions
Liquidated Damages GCC 27	Liquidated damages for the whole contract are 0.5% per day. The maximum amount of liquidated damages for the whole contract is 10% of the final contract price.
Warranty GCC 28.3	The period of validity of the warranty shall be: as per manufacturer specifications
Repair and Replacement GCC 28.5	The period for repair or replacement shall be : 4 weeks

SCHEDULE 3: QUOTATION CHECKLIST SCHEDULE

Procurement Reference No.: G/RFQ/NW-045/2025

Description	Attached	Not Attached
List of Goods and Price Schedule		
Specification and Compliance Sheet (<i>Including pump curve, power curves etc...</i>)		
Evidences for conformity of Goods		
Valid company Registration Certificate Copy from Ministry of Trade and Industry		
Original valid good standing Tax Certificate from Inland Revenue		
Original valid good Standing Certificate from Social Security Commission		
Valid Affirmative Action Compliance Certificate, proof from Employment Equity Commissioner that bidder is not a relevant employer, or exemption issued in terms of Section 42 of the Affirmative Action Act, 1998;		

Disclaimer: The list defined above is meant to assist the Bidder in submitting the relevant documents and shall not be a ground for the bidder to justify its non-submission of major documents for its quotation to be responsive. The onus remains on the Bidder to ascertain that it has submitted all the documents that have been requested and are needed for its submission to be complete and responsive.