



## Request for Quotation Of Goods

**Supply and Delivery of HDG Steel Pipe Specials, Pipe Couplings,  
Valves, Fasteners & Gaskets for Mile 7 Reservoir under Kuiseb Delta  
New Scheme**

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**Procurement Reference No: G/RFQ/NW-028/2023**

<b>Name of Bidder</b>				
<b>Contact Person</b>				
<b>E-mail Address</b>				
<b>Postal Address</b>				
<b>Total Amount (Excl. VAT)</b>	<b>Lot 1</b>	<b>Lot 2</b>	<b>Lot 3</b>	<b>Lot 4</b>
<b>Contact Phone number</b>	<b>Work:</b>		<b>Mobile:</b>	

**Documents must be posted / delivered to:**

**The Quotation/Bid Box**

**Att. Procurement Management Unit (+264 61 712015) ([bids@namwater.com.na](mailto:bids@namwater.com.na))**

Namibia Water Corporation Ltd.  
Private Bag 13389  
176 Iscor Street, Aigams Building  
Windhoek

**Closing Date: Thursday, 18 August 2022 at 11h00**

**NO LATE BIDS WILL 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-028/2023**

**28 July 2022**

Dear Bidder,

### **Supply and Delivery of HDG Steel Pipe Specials, Pipe Couplings, Valves, Fasteners & Gaskets for Mile 7 Reservoir under 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](mailto:bids@namwater.com.na)) Private Bag 13389 Windhoek, Namibia.

Please prepare and submit your quotation 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 reserves the right:

- (a) to split the contract as per the lowest evaluated cost per item, or
- (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 Bids**

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

- (a) The List of Goods and Price Schedule;
- (b) The Specifications and Compliance Sheet; and
- (c) Any other attachment deemed appropriate.

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

### **3. Validity of Bids**

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

### **4. Eligibility Criteria**

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

- (a) have a valid company Registration Certificate;
- (b) have an original valid good Standing Tax Certificate;
- (c) have an original valid good Standing Social Security Certificate;
- (d) have a valid certified copy 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;
- (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.
- (g) Technical Supporting information for the dedicated flange adaptor (couplings).
- (h) Technical Supporting information (material, drawing, etc) for the gate valves.
- (i) General Technical Supporting information (material, drawing, etc.) for the Check Valve

- (j) Head Loss Characteristics and Range of Operation Chart {Flow (m<sup>3</sup>/h) vs Size (mm) vs Pressure Drop (mWh or mbar)} for the Check Valves

**The obligatory documents indicated above, are acceptable as follows:**

- 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 not more than **8 - 12 weeks** after acceptance/issue of Purchase Order.

Deviation in delivery period shall not be accepted.

**7. Sealing and Marking of Bids**

Bids 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 Bids**

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 **18 August 2022 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.

Quotations received by **e-mail will not be considered**.

**9. Opening of Bids**

Bids will be opened internally by NamWater representatives 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 NamWater and available to any bidder on request within three working days of the Opening.

**10. Evaluation of Bids**

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. A method statement should be accompanying the document on the installation and maintenance procedure.

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. Margin of Preference

13.1. The applicable margins of preference and their application methodology are as follows: **Not Applicable**

## 14. 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.

## 15. Notification of Award and Debriefing

NamWater 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, NamWater 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:	<b>NamWater</b>
Procurement Reference Number:	<b>G/RFQ/NW-028/2023</b>
Subject matter of Procurement:	<b>Supply and Delivery of HDG Steel Pipe Specials, Pipe Couplings, Valves, Fasteners &amp; Gaskets for Mile 7 Reservoir under Kuiseb Delta New Scheme</b>

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 BSD.

The validity period of the Quotation is.....**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	

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

**Date:** .....

**Procurement Ref No.:** .....

**To: Namibia Water Corporation Ltd., 176 Iscor Street, Ai-//gams Building, Windhoek**

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

### QUOTATION FOR Supply and Delivery of steel pipe specials, flexible pipe couplings, fasteners & gaskets for the Windhoek Airport Pump Station

Procurement Ref No. G/RFQ/NW-028/2023

INSTRUCTIONS TO THE PUBLIC BODY		INSTRUCTIONS TO BIDDERS				
At time of preparation of the RFQ, Columns A to I shall be filled in by the Public Entity. [To be filled by the Public Entity]		<u>Bidders shall fill-in columns F, G &amp; H and fill the total</u> E= mark with a *if an equivalent is quoted F= Rate per unit G=Total price for one item ( C x F) <ul style="list-style-type: none"> <li>• If an equivalent is quoted, please attach to your quote appropriate technical information &amp; specification</li> <li>• Bidders shall fill in and sign the bottom section of this page</li> </ul>				
A	B	C	D	F	G	H
Item no.	Description of Goods	Quantity	Unit of measure	Price per unit NAD <sup>1</sup>	Total price without VAT NAD	VAT: NAD
<b>Lot 1: PIPEWORK</b>						
1	350NB at PN10 pipe with both ends flanged hdg	1	Each			
2	n/a	n/a	n/a	n/a	n/a	n/a
3	n/a	1	Each			
4	350NB at PN10 pipe with a plain end and a flanged end plus a restraining flange hdg	1	Each			
5	350NB at PN10 - 250NB at PN10 reducer with both end flanged hdg	1	Each			
6	N/A	n/a	n/a	n/a	n/a	n/a
7	250NB at PN10 tee piece with one end flanged plus two plain ends each with a restraining flange hdg	1	Each			
8	n/a	n/a	n/a	n/a	n/a	n/a

9	250NB at PN10 - 200NB at PN10 reducer with both end flanged hdg	1	Each			
10	N/A	n/a	n/a	n/a	n/a	n/a
11	250NB at PN10 bend with a flanged plus a plan with a restraining flange hdg	1	Each			
12	n/a	n/a	n/a	n/a	n/a	n/a
13	250NB at PN10 pipe with both ends flanged hdg	1	Each			
	<b>Transport: Pipework (if applicable)</b>	1	Sum			
	<b>Pipework Sub-Total</b>					
<b>Lot 2: COUPLINGS</b>						
3	350NB at PN10 dedicated flange adaptor hdg	1	Each			
8	250NB at PN10 dedicated flange adaptor hdg	3	Each			
	<b>Transport: Couplings (if applicable)</b>	1	Sum			
	<b>Couplings Sub-Total</b>					
<b>Lot 3: VALVES</b>						
2	350NB at PN10 gate valve flanged according BS EN 558-2008 , Basic Series 14 (290mm face to face length) or basic series 29 (315bmm face to face length)	1	Each			
10	200NB at PN10 check valve flanged according BS EN 558-2008 , Basic Series 14 (230mm face to face length)	1	Each			
12	250NB at PN10 check valve flanged according BS EN 558-2008 , Basic Series 14 (250mm face to face length)	1	Each			
14	250NB at PN10 gate valve flanged according BS EN 558-2008 , Basic Series 14 (250mm face to face length) or basic series 29 (255mm face to face length)	1	Each			
	<b>Transport: Valves (if applicable)</b>	1	Sum			
	<b>Couplings Sub-Total</b>					

<b>Lot 4: GASKETS and FASTENERS</b>						
15	200NB PN10 Ring gasket	4	Each			
16	250NB PN10 Ring gasket	10	Each			
17	350NB PN10 Ring gasket	6	Each			
18	M20 x 90mm HDG Bolts	70	Each			
19	M20 x 75mm HDG Bolts	76				
20	M20 HDG Nuts	200	Each			
21	M20 HDG Washers	200	Each			
22	M20 x 1000mm HDG Threaded rod	8	Each			
	<b>Transport: Gaskets, Bolts, Nuts, Washers and Rods (if applicable)</b>	1	Sum			
				<b>GASKETS and FASTENERS Sub-Total</b>		
	Delivery [Days/Weeks]			<b>TOTAL</b>		
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 QUOT

## SECTION IV: SPECIFICATIONS AND PERFORMANCE REQUIREMENTS

### 1.1. General

The supplier shall refer to the attached assembly and parts drawing.

All flanges of fabricated pipe specials shall conform to SANS 1123/1000/3 unless otherwise denoted.

All flanges of pipe specials shall be fitted in the two-hole-top off the centreline configuration.

### 1.2. Pipework

Steel pipes shall comply with SANS 62 or SANS 719 Grade B/C as per drawing specifications.

The wall thickness of fittings (Tees and bends) shall be according to the ANSI (ASA) B16.9 fittings standard wall thickness schedule or thicker.

Unless otherwise stated, all manufactured pipe specials shall comply with the following specifications:

Nominal Diameter	Outside Diameter	Minimum Wall Thickness
25NB	33.7 mm (as per SANS 62)	3.25 mm
80NB	88.9 mm (as per SANS 62)	4.05 mm
100NB	114.3 mm (as per SANS 62)	4.5 mm
150NB	165.1 mm (as per SANS 62)	4.5 mm
200NB	219.1 mm (as per SANS 719)	4.5 mm
250NB	273.0 mm (as per SANS 719)	4.5 mm
350NB	355.6 mm (as per SANS 719)	4.5 mm

All sockets will be of stainless steel grade 316. Where stainless steel 316 sockets are welded to mild steel, stainless steel **309L** shall be used as the filler metal.

All pipework welding shall be done as per SANS 10044 for steel fusion welding. Mating surfaces shall be welded all around their mating periphery.

All steel surfaces shall be blast clean to SANS 10064 and the final finishing shall comply with S.I.S. 05 5900 grade Sa 2.5. before galvanizing.

Unless otherwise stated, all pipe specials, flanges and flexible pipe coupling items shall be hot-dip galvanized to SANS ISO 1461:1999.

Note: The average galvanizing layer thickness shall not be less than 150 microns and the minimum thickness at any spot, not less than 100 microns.

### **1.3. Pipework Couplings**

Flexible flange adaptor couplings will be supplied and delivered to join plain-ended pipes to flanged valves, fittings and pipes.

Only Klamflex dedicated flexible pipe couplings or similar shall be acceptable:

The couplings shall allow for angular misalignment ( $\pm 6^\circ$ ) and axial adjustment.

All coupling welding shall be done per SANS 10044 for steel fusion welding.

All flange adaptors shall be complete and ready for installation with the necessary sleeves, rubber wedge rings and clamping bolts and nuts.

All steel surfaces shall be blast clean to SANS 10064 and the final finishing shall comply with S.I.S. 05 5900 grade Sa 2.5. before galvanizing or primer.

Unless otherwise stated, all pipe specials, flanges and flexible pipe coupling items shall be hot-dip galvanized to SANS ISO 1461:1999.

Note: The average galvanizing layer thickness shall not be less than 150 microns and the minimum thickness at any spot, not less than 100 microns.

**All dedicated flange adaptors shall be suitable for installation with restraining rods. Should dedicated flange adapters have a raised edge that contacts the gasket with installation, not less than 90% of the appropriate gasket area shall be in contact with the flange adapter.** Flush faced flange adapters will be preferred.

#### **1.4. Flanged Gate Valve Design**

##### **(a) Operating Requirements and Standards**

The required gate valve is of double-flanged resilient seated gate valve type. The gate valve will be installed as isolation valves for potable water applications.

**The flange drilling shall be to SANS 1123-1000/3 and the pressure rating shall be 10 bar (PN10). Flange design face to face according to BS EN 558-2008 BASIC SERIES 14 or BS EN 558-2008 BASIC SERIES 29.**

WRAS or equivalent standard certified for drinking water.

##### **(b) Materials of Construction**

EPDM sealing rings (on the bonnet) shall be replaceable without dismantling the valve.

The leading edges of the sealing rings shall be slightly chamfered.

Valves with adjustable seats/seals **will not be accepted**. The valves shall be tight in both directions.

Measures to prevent over travel of the disk when closed shall be in place.

Flanges shall be used in the two-hole-top configuration

The valves shall be supplied with hand wheels.

**(c) Materials of Construction for all Gate Valves**

<b>Component</b>	<b>Material Type</b>	<b>Material Specifications</b>
Body	SG Iron / Ductile Cast Iron	BS 2789 Gr 420/12, SABS 936 SG 42 / EN-JS 1030 (GGG-40)
Bonnet	SG Iron / Ductile Cast Iron	BS 2789 Gr 420/12, SABS 936 SG 42 / EN-JS 1030 (GGG-40)
Disk (Wedge)	SG Iron / Ductile Cast Iron / Stainless steel  Epoxy Coating / Rubber lined	BS 2789 Gr 420/12, SABS 936 SG 42 / EN-JS 1030 (GGG-40)
Shaft (Stem)	Stainless Steel /  Zinc free Bronze	SS Grade 431/420
Bushing / Bearings	Zinc-Free Bronze	BS 1400 LG2
External Fasteners	Stainless Steel	Grade 316/431
Internal Fasteners	Stainless Steel	Grade 316/431
Seals	EPDM / Nitrile / Viton	EPDM / Nitrile / Viton
Packing	Graphite Fibre	<b>Note:</b> No Asbestos
Internal & External Coating	Epoxy according to GSK guidelines	The total DFT shall be not less than 250µm

The bolts of the gate valves to be of grade 8.8 unless stated otherwise. All fasteners where applicable shall be SABS 136-1972. All bolts, nuts, threaded rods and washers, excluding stainless steel fasteners, shall be hot dip galvanized as per SABS ISO 1461: 1999. **Electroplated bolts, nuts and washers shall not be accepted.**



#### (d) Operating Requirements

The valve shall be capable of withstanding a maximum operating pressure of at least **10 Bar** (PN10) at 40°C under all operating conditions.

The wedge shall operate satisfactorily under the specified conditions.

The valves shall be able to open and close satisfactorily under a flow velocity of **4 m/s**.

### 1.5. Flanged Check Valve Design

#### (a) General Requirements and Standards

The valves shall be required to prevent backflow in potable water applications.

**The valves will be installed in a horizontal direction.**

All valves shall be of the axially opening, radially guided, silent closing type.

**Dual plate (double door), tilting / swing disk type non-return valves will not be accepted.**

Valves with lower critical velocities will receive preference provided that pressure loss across the valve is not significantly compromised.

The valves are WRAS or equivalent standard certified for drinking water.

**The flange drilling shall be to SANS 1123-1000/3 and the pressure rating shall be 10 Bar (PN10).**

The valves are pressure tested according to EN12266-1 (ISO5208).

**Flange design face to face according to BS EN 558-2008 BASIC SERIES 14.**

#### (b) Materials of Construction for All Check Valves

Component	Material Type	Material Specifications
Body	SG Iron / Ductile Cast Iron	BS 2789 Gr 420/12, SABS 936 SG 42 / EN-JS 1030 (GGG-40)
Disk	Stainless steel/ Bronze	SS Grade 431/420 CuSn12-C
Diffuser	SG Iron / Ductile Cast Iron /	BS 2789 Gr 420/12,

	Stainless steel/Bronze Epoxy Coating / Rubber lined	SABS 936 SG 42 / EN-JS 1030 (GGG-40)
Spring	Stainless Steel	SS Grade 431/420
Stem	Stainless Steel	SS Grade 431/420
Bearings	Zinc-Free Bronze	BS 1400 LG2
External and Internal Fasteners	Stainless Steel	Grade 316/431
Seals	EPDM / Nitrile / Viton	EPDM / Nitrile / Viton
Internal & External Coating	Epoxy according to GSK guidelines	The total DFT shall be not less than 250µm

### (c) Operating Requirements and Sizing

The valve shall be capable of withstanding a maximum operating pressure of **16 Bar** (PN16) at 40°C under all operating conditions.

The disk shall operate satisfactorily under the specified conditions.

The valve shall be capable of drop-tight sealing in both directions at a pressure difference equal to the rated working pressure in the closed position.

The valves shall be able to stay open under a nominal pipe flow velocity (critical velocity) of **1.5 m/s**.

The valves shall be fully open at minimum pressure differential (**cracking pressure**) of **5 mWh**.

#### The valves respective operating volumetric flow and pipe flow velocities.

#	Check Valve	Flow (m <sup>3</sup> /h)	Pipe Size (mm)	Flow Velocity (m/s)
1	200NB	225	200	2.0
2	250NB	351	250	2.0

The bolts for the check valves to be of grade 8.8 or better. All fasteners where applicable shall be SABS 136-1972. All bolts, nuts, threaded rods and washers, excluding stainless steel fasteners, shall be hot dip

galvanized as per SANS 121/ISO 1461: 1999. **Electroplated bolts, nuts and washers shall not be accepted.**

### **1.6. Fasteners**

The bolts to be of **grade 4.8** unless stated otherwise. All fasteners where applicable shall be ISO metric according to SANS 1700. All bolts (full thread), nuts, threaded rods and washers shall be hot-dip galvanized as per SANS ISO 1461: 1999. **Electroplated bolts, nuts and washers shall not be accepted.**

### **1.7. Gaskets**

**The gasket OD should be dictated by the flange specifications.** The gaskets shall be of non-asbestos compressed fibre or graphite type. The gaskets shall be suitable for potable and raw water at temperatures from 0°C to 60°C. The gaskets shall have a thickness of 3mm.

**Full faced gaskets will not be accepted.**

## SECTION V: SPECIFICATIONS AND COMPLIANCE SHEET

Procurement Reference Number: **G/RFQ/NW-028/2023**

Item No	Technical Specification Required	Compliance of Specification Offered	Details of Non-Compliance/ Deviation (if applicable)
<i>A*</i>	<i>B*</i>	<i>C</i>	<i>D</i>
<b>1</b>	<b>Pipe work specials</b>		
	All flanges and pipes as denoted conform to SANS 1123/1000/3	<b>Yes or No</b>	
	The flanges shall be fitted in the two-hole-top orientation. (EN 1092-2)	<b>Yes or No</b>	
	Steel pipes 150NB and smaller shall comply with the SANS 62 Medium specification	<b>Yes or No</b>	
	Steel pipes 200NB and larger shall comply with the SABS 719 Grade B specification	<b>Yes or No</b>	
	Therefore, the pipe wall thickness are as specified in <b>Section IV</b>	<b>Yes or No</b>	
	All sockets will be of stainless steel grade 316.	<b>Yes or No</b>	
	Where stainless steel 316 sockets are welded to mild steel, stainless steel 309L shall be used as the filler metal.	<b>Yes or No</b>	
	All steel surfaces shall be blast clean to SANS 10064 and the final finishing shall comply with S.I.S. 05 5900 grade Sa 2.5 before galvanizing.	<b>Yes or No</b>	
	Average galvanizing layer thickness is at least 70 microns.	<b>Yes or No</b>	
	Galvanizing layer minimum thickness at any spot is not less than 55 microns.	<b>Yes or No</b>	

<b>2</b>	<b>Pipework Couplings (Dedicated Flange adaptor)</b>		
	Klamflex dedicated flange adapters or similar, suitable for mild steel pipe according to SANS 719 outside diameters	<b>Yes or No</b>	
	Make of pipework couplings (Dedicated Flange adaptor)	.....	
	The couplings are suitable for installation with flanges SANS 1123 - 1000/3.	<b>Yes or No</b>	
	The couplings are suitable for installation with restraining threaded bars.	<b>Yes or No</b>	
	Coupling coating is hot dipped galvanising.	<b>Yes or No</b>	
	Coupling Flanges Material is ductile Iron	<b>Yes or No</b>	
	Coupling Body Material is ductile iron	<b>Yes or No</b>	
	Supporting literature is attached	<b>Yes or No</b>	
<b>3</b>	<b>Flanged Gate Valve</b>		
	Make & model of valves offered	.....	<b>N/A</b>
	The valves shall be NFS or DVGW or WRAS or ACS or KIWA or WaterMark™ Schedule - Level 1 or SVGW certified / approved for drinking water.	<b>Yes or No</b>	
	Valves shall be internally and externally coated according to EN 14901 or DIN 30677 or GSK or AS/ZNS 4158 regulations / guidelines.	<b>Yes or No</b>	
	The valves shall be pressure tested in accordance with EN 12266 or ISO 5208	<b>Yes or No</b>	
	The PN10 valves shall fit between flanges drilled to SANS 1123/1000/3.	<b>Yes or No</b>	
	The flanges shall be fitted in the two-hole-top orientation. (EN 1092-2)	<b>Yes or No</b>	
	The valve flanges shall have raised faces.	<b>Yes or No</b>	

	The valves resilient seated standard is according to EN 1074 or EN 1171.	<b>Yes or No</b>	
	The valve shall be of the non-rising spindle type	<b>Yes or No</b>	
	Gate valves face-to-face dimensions standard is <b>EN 558-1, basic series 14 or 29.</b> <ul style="list-style-type: none"> <li>• 350NB at PN10: 290 or 315 mm</li> <li>• 250NB at PN10: 250 or 255 mm</li> </ul>	<b>Yes or No</b>	
	What is the face-to-face length of the offered 350NB at PN10 gate valve?	.....mm	
	What is the face-to-face length of the offered 250NB at PN10 gate valve?	.....mm	
	Valve bodies material is SG Iron / Ductile Cast Iron	<b>Yes or No</b>	
	Bonnets material is SG Iron / Ductile Cast Iron	<b>Yes or No</b>	
	Gate (wedge) material is SG Iron / Ductile Cast Iron/Stainless Steel	<b>Yes or No</b>	
	Gate (wedge) coating is Epoxy Coating / Rubber lined	<b>Yes or No</b>	
	Valve shafts material is stainless steel 316, 420, 430F, 431 or duplex.	<b>Yes or No</b>	
	Stem nuts Material bronze or dezincification resistant brass	<b>Yes or No</b>	
	Supporting literature is attached	<b>Yes or No</b>	
	Supporting literature attached have all the information confirmed above.	<b>Yes or No</b>	
<b>4</b>	<b>Flanged Check Valve</b>		
	Make & model of check valves offered	.....	
	The valves shall be NFS or DVGW or WRAS or ACS or KIWA or WaterMarkTM Schedule - Level 1 or SVGW certified / approved for drinking water.	<b>Yes or No</b>	

Check valves face-to-face dimensions standard is <b>EN 558-1, basic series 14.</b>		
<ul style="list-style-type: none"> <li>• 250NB at PN10: 250 mm</li> <li>• 200NB at PN10: 230 mm</li> </ul>	<b>Yes or No</b>	
What is the face-to-face length of the offered 250NB at PN10 check valve?	..... <b>mm</b>	
What is the face-to-face length of the offered 200NB at PN10 check valve?	..... <b>mm</b>	
The valves shall be able to fully open at minimum pressure of 5mWh.	<b>Yes or No</b>	
The valves shall be able to open and close satisfactorily under a nominal pipe flow velocity of 1.5 m/s.	<b>Yes or No</b>	
Nozzle check valve type.	<b>Yes or No</b>	
Axially opening, radially guided, non-slam check valve type.	<b>Yes or No</b>	
Cracking pressure of the offered 250NB at PN10 check valve	..... <b>mWh</b>	
Critical velocity of the offered 250NB at PN10 check valve	..... <b>m/s</b>	
Cracking pressure of the offered 200NB at PN10 check valve	..... <b>mWh</b>	
Critical velocity of the offered 200NB at PN10 check valve	..... <b>m/s</b>	
The body of the valve is made of ductile cast iron {BS 2789 Gr 420/12, SABS 936 SG 42 / <b>EN-JS 1030 (GGG-40)}</b>	<b>Yes or No</b>	

	The disk of the valve is made of Stainless Steel (SS Grade 431/420) or Bronze (CuSn12-C)	<b>Yes or No</b>	
	The spring and stem of the valve are made of Stainless Steel (SS Grade 431/420).	<b>Yes or No</b>	
	The Bearings are off Zinc-Free Bronze (BS 1400 LG2)	<b>Yes or No</b>	
	External and Internal Fasteners are made from stainless steel	<b>Yes or No</b>	
	Internal & External Coating: Epoxy according to GSK guidelines	<b>Yes or No</b>	
	General Technical Supporting information (material, drawing, etc.) for the Check Valve will be attached	<b>Yes or No</b>	
	Head Loss Characteristics and Range of Operation Chart {Flow (m <sup>3</sup> /h) vs Size (mm) vs Pressure Drop (mWh or mbar)} for the Check Valves will be attached	<b>Yes or No</b>	
<b>5</b>	<b>Fasteners</b>		
	Hexagon bolt heads and nuts as per SABS 136-1972 (Grade 4.8)?	<b>Yes/No</b>	
	Hot dip galvanized in accordance with SANS ISO 1461: 1999 standard	<b>Yes/No</b>	
<b>6</b>	<b>Gaskets</b>		
	Suitable for potable water	<b>Yes/No</b>	
	Compatible temperature range: <b>-10°C to 50°C</b>	<b>Yes/No</b>	
	Pressure rating is 10 bar	<b>Yes/No</b>	



	Material is non-asbestos compressed fiber or graphite type	Yes/No	
	Thickness is at least 3mm	Yes/No	
	Gasket is of ring type	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.]*

*\* Columns A and B to be completed by Public Entity.*

All Tenders shall be accompanied with detailed supporting literature for the pumps, couplings and motors to enable NamWater to evaluate the conformity to specification and include additional features.

**NOTE: Tenders 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**) [www.namwater.com.na](http://www.namwater.com.na) 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.

## SECTION VII: SPECIAL CONDITIONS OF CONTRACT

Procurement Reference Number: **G/RFQ/NW-028/2023**

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

Subject and GCC clause reference	Special Conditions
<b>Site</b> <b>GCC 1.1(m)</b>	The Site/final destination for delivery of the Goods is:  <b>NamWater</b> <b>Head Office,</b> <b>Windhoek</b>
<b>Incoterms Edition</b> <b>GCC 4.2(b)</b>	Incoterms shall be governed by the rules prescribed in Incoterms 2010.
<b>Notices</b> <b>GCC 8.1</b>	Any notice shall be sent to the following addresses:  For NamWater, the address and the contact name shall be:  <b>Procurement Management Unit</b> (Tel: +264 61 71 2225)  <b>E-mail: <a href="mailto:Bids@namwater.com.na">Bids@namwater.com.na</a></b>  <b>Private Bag 13389 Windhoek, Namibia.</b>   For the Supplier, the address and contact name shall be:  _____
<b>Delivery and Documents</b> <b>GCC 13.1</b>	The Goods are to be delivered <b>8 - 12 weeks</b> 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

Subject and GCC clause reference	Special Conditions
<b>Price Adjustment</b> GCC 15.1	The price charge for the Goods supplied and the related Services performed shall not be adjustable.
<b>Terms of Payment</b> 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
<b>Terms of Payment</b> GCC 16.3	NamWater shall make payments not later than thirty days after submission of an invoice and its certification.
<b>Terms of Payment</b> 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.
<b>Performance Security</b> GCC 18.1	(i) No performance security is required
<b>Packing</b> GCC 23.2	The packing, marking and documentation within and outside the packages shall be: <b>As per Manufacturer Original packaging Marking and Documentations</b>
<b>Transportation</b> GCC 25	The Goods shall be delivered: DDP – Delivered Duty Paid
<b>Inspection and Test</b> GCC 26.1	The inspection and tests shall be to ensure conformance to the specifications
<b>Location of Inspection and Tests</b> GCC 26.2	The inspections and tests shall be conducted at: <b>NamWater</b> <b>Aigams Building</b> <b>Northern Industrial Area</b> <b>Windhoek</b>

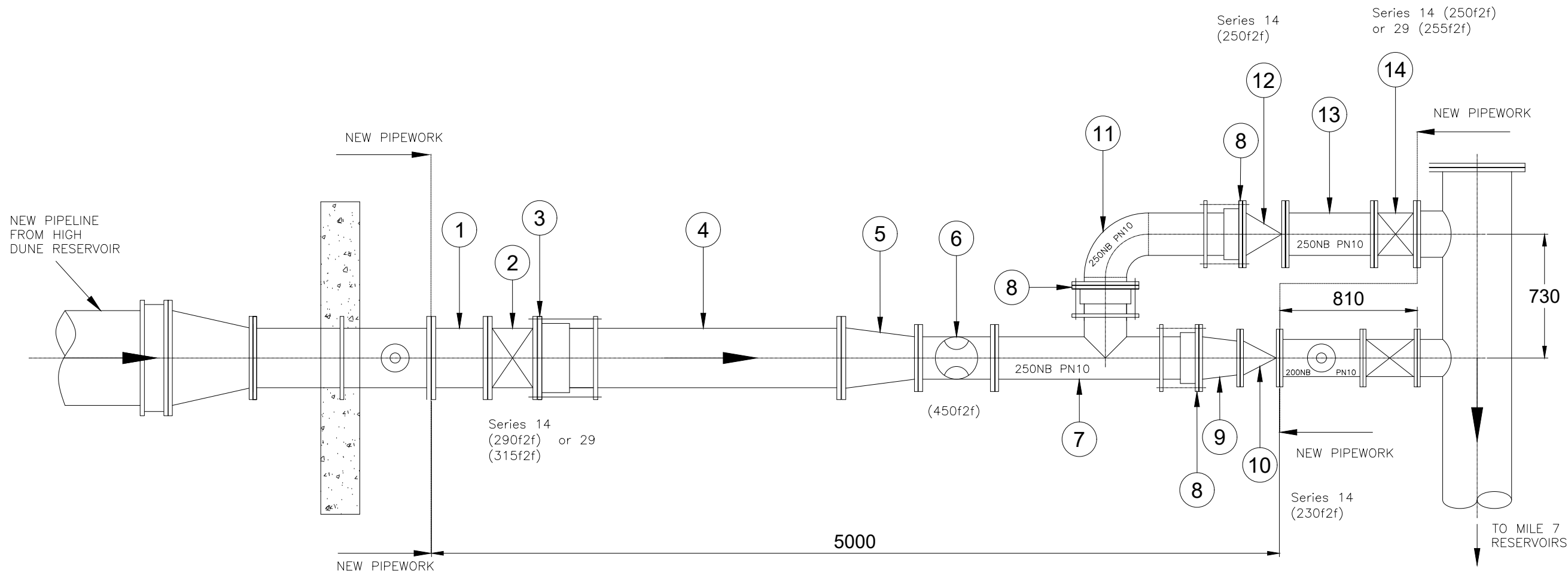
Subject and GCC clause reference	Special Conditions
<b>Liquidated Damages</b> <b>GCC 27.1</b>	Liquidated damages for the whole contract are 0.5% per day. The maximum amount of liquidated damages for the whole contract is 10% of the final contract price.
<b>Warranty</b> <b>GCC 28.3</b>	The period of validity of the warranty shall be: <b>12 Months</b>
<b>Repair and Replacement</b> <b>GCC 28.5</b>	The period for repair or replacement shall be: <b>14 days</b>

## QUOTATION CHECKLIST SCHEDULE

**Procurement Reference No.: G/RFQ/NW-028/2023**

Description	Attached	Not Attached
Quotation Letter		
List of Goods and Price Schedule		
Specification and Compliance Sheet		
Evidences for conformity of Goods		
Valid company Registration Certificate Copy from <b>Ministry of Trade and Industry</b>		
Original valid good standing Tax Certificate from <b>Inland Revenue</b> or a valid certified copy of an original certified by the Namibian Police of good standing Tax Certificate		
Original valid good Standing Certificate from <b>Social Security Commission</b> or a valid certified copy of an original certified by the Namibian Police of good standing Tax Certificate		
Valid Affirmative Action Compliance Certificate, proof from <b>Employment Equity Commissioner</b> that bidder is not a relevant employer, or exemption issued in terms of Section 42 of the Affirmative Action Act, 1998;		
<b>Documentations</b> <ul style="list-style-type: none"> <li>• Technical Supporting information for the <b>dedicated flange adaptor (couplings)</b>.</li> <li>• Technical Supporting information (material, drawing, etc) for the <b>gate valves</b>.</li> <li>• General Technical Supporting information (material, drawing, etc.) for the <b>Check Valve</b></li> </ul>		

<ul style="list-style-type: none"><li>• Head Loss Characteristics and Range of Operation Chart {Flow (m<sup>3</sup>/h) vs Size (mm) vs Pressure Drop (mWh or mbar)} for the <b>Check Valves</b></li></ul>		
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ASSEMBLY DRAWING

NOTES :

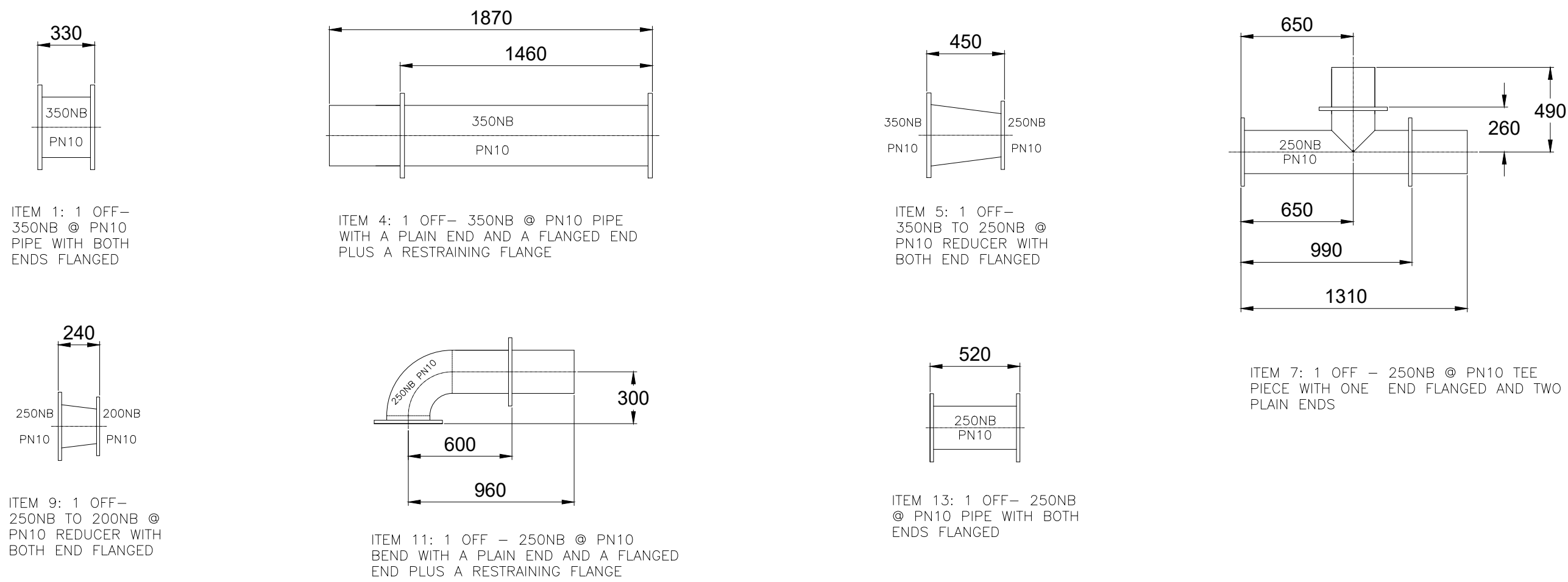
MANUFACTURING INSTRUCTIONS

- ALL FLANGES (INCLUDING RESTRAINING FLANGES) SHALL COMPLY WITH SANS 1123-1000/3 EXCEPT IF SPECIFIED OTHERWISE. ALL FLANGES TO BE FITTED TWO-HOLE-TOP.
- ALL PIPE WORK 50-150 NB SHALL COMPLY TO SANS 62-HEAVY PIPE WORK 200 NB AND LARGER SHALL COMPLY WITH SABS 719 GRADE B WITH WALL THICKNESS SUITABLE FOR THE RATED FLANGE OR MINIMUM 10 BAR.
- DIAMETER TO FIT THE RESPECTIVE FLANGE ADAPTORS:  

NB	PIPE OD
50	60,3
80	88,9
100	114,1
150	168,3
200	219,1
250	273,0
350	355,6
- ALL PIPE WORK AND STEEL SURFACES SHALL BE HOT DIPPED GALVANISED.
- ALL STEEL SURFACES SHALL BE BLAST CLEAN TO SABS 064 AND THE FINAL FINISH SHALL COMPLY WITH S.I.S. 05 5900 GRADE Sa 2.5. BEFORE HOT DIPPED GALVANISING.

INSTALLATION INSTRUCTIONS

- GAP SETTINGS FOR FLANGE ADAPTORS AND PIPE COUPLINGS SHALL BE SET TO 19 mm FOR SIZES UP TO 300 NB
- GAP SETTINGS FOR FLANGE ADAPTORS AND PIPE COUPLINGS SHALL BE SET TO 32 mm FOR SIZES 350 UP TO 500 NB



PARTS DRAWING

2				
1				
NO.	AMENDMENTS	DATE	BY	



SCHEME  
 KUISEB DELTA NEW SCHEME:  
 HIGH DUNE - MILE 7 FLOW METER

DRAWING  
**PIPEWORK**

SURVEYED	DRAWN	TRACED
JN SHIGWEDHA	JN SHIGWEDHA	AUTOCAD
DESIGNED CIVIL	DESIGNED ELEC.	DESIGNED MECH.
JN SHIGWEDHA	JN SHIGWEDHA	JN SHIGWEDHA
CHECKED CIVIL	CHECKED ELEC.	CHECKED MECH.
M KAYOFA	M KAYOFA	M KAYOFA
APPROVED CIVIL	APPROVED ELEC.	APPROVED MECH.

GENERAL MANAGER ENGINEERING AND SCIENTIFIC SERVICES		
DATE	SCALE	SHEET NO.
07/2022	1:14	1 OF 1
REGISTRATION NO.		
14/XX/X/X-XXX RX		