



BID NUMBER: RW 1084657/22 R
MINIMUM CIBD CONTRACTOR
GRADING FOR THIS BID: 8 ME or Higher

DESIGN, MANUFACTURE, SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING AND PUTTING INTO SERVICE OF AN
ELECTRICAL & SMALL POWER AND LIGHTING INSTALLATION AND ASSOCIATED WORKS AT THE VEREENIGING CATHEDRAL
HEADER AND ENGINE ROOM 4 VALVE ISOLATION CHAMBERS AT VEREENIGING PUMPING STATION

BID NUMBER: RW 10386457/21R

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1. PROCEDURE TO BE OBSERVED

- Tender documents are available on the National Treasury website.
- Issue Date: 21 February 2022
- Site Viewing Date Time and Venue
- **09 March 2022 at 12:00pm Vereeniging Pumping Station**
- Closing date: **31 March 2022**
- Submissions must be deposited before 12:00 noon at No:522 Impala Road Glenvista, main gate.
- All submissions after closing date will be rejected.
- Contact persons: Ntikane Radebe and Vongani Mageza (Supply Chain).

2. VALIDITY PERIOD

- The tender shall remain valid for a period of 180 days from the date of closing of the tender. Rand Water reserves the right to extend the validity period if required.

3. PRE -QUALIFIERS

1. Fully completed and Signed Form of Offer.
2. Letter of Good Standing from the Department of Labour or an Accredited Institution.
3. Bidder must subcontract a minimum of 30% of the value of the contract (if above R30 million) to an EME/QSE that is a minimum 51% black owned.

The following evidence must be submitted:

- *Fully signed sub - contracting agreement with stipulating specialised categories including the percentages to be sub- contracted.*
- *CSD report/s for Subcontractor/s.*

4. PRE – QUALIFIERS CONT...

4. CIDB Registration for Subcontractor/s, where CIDB related works are subcontracted, each Subcontractor must also be registered with the appropriate CIDB grading in accordance with the value of the work to be undertaken by that Subcontractor, or are capable of being so prior to the evaluation of submissions, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the CIDB grading of this bid; in accordance with the CIDB prescripts.
 - *Where the CIDB requirement for subcontracted work is not met, this pre-qualifier has not been met.*
 - *Proof of B-BBEE status for Subcontractor/s*
5. Fully completed Local Content Declaration Forms for each of the designated sectors as provided and minimum stipulated thresholds for this bid, as outlined in Schedule (Page 27-31).

5. PRE – QUALIFIERS CONT...

6. Submission of Socio-Economic Development (SED) proposal in accordance with Rand Water's requirements and targets in T2.2.9 and the signing of the SED schedule in its entirety.

6. Evaluation Process

Rand Water conducts a two stage evaluation process for all bids, intending to provide services or goods to the organization as follows:

- First part of the evaluation process is the functionality evaluation (**Technical part of the tender document**).
- All bids evaluated at this stage must achieve a minimum of 60% scoring.
- Below 60 % will not be considered to second stage of the evaluation which is commercial evaluation.
- Part of the functionality evaluation Rand Water also uses a Financial Tolerance Range
- Award is then based on the preferential point system.
- **NB:** award based on quality of submission not reputation

7. BILL OF QUANTITIES

- BOQ or schedule of rates must be fully completed.
- This is for working only. All the information must be transferred into the tender document.

8. Technical - Returnables

- For the list of all relevant returnables refer to Page 10 of 64 **Table T2.1.4** (Technical Part)
- Technical Evaluation to be based on:
 - *Record of Previous Experience*
 - Performance of Previous work done with Rand Water
 - *Quality Management Systems*
 - *Human Resource Capacity*
 - *Equipment Resource Capacity*
 - *Risk Introduced by Tender Qualifications*
 - *Project Risk Management*
 - *Detailed Project Programme*
 - Method Statement
 - *Previous Experience, SHERQ, Quality of Workmanship and Safety*



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9. SCOPE OF WORKS

Purpose

Replacement of the 2500 mm diameter header pipeline in the Cathedral Chamber at System 5

Civil Works

- Demolition, supporting chamber temporary then rebuild Chamber
- Build a new isolation Chamber 6 metres deep for two isolation valves.

Pipelines

- Removal of existing 2500 mm Pipeline
- Rigging and installing new pipeline
- Welding and inspection

Electrical & Automation Works

- Upgrading Actuators and powering new panels actuators and accessories.
- Installation of Control Panels
- SCADA

Mechanical

- Inspection and repairs on vlaves
- Supply new 900mm valves(butterfly & gate)
- Submersible pump installation
- Walkways upgrade

- Demolish the concrete structure in segments without damaging the 2500 mm pipeline. Support the structure temporary, then rebuild the structure after completion the installation of the pipeline.
- Removal of 2500mm diameter header pipeline inside the chamber including 2500 mm valves
- The four 1600mm diameter butterfly valves on the incoming lines from the filters must be replaced.
- The Chlorine dosing equipment inside the Cathedral must be replaced.
- Install fans for extracting chlorine gas from inside the chamber if there is a leak.
- A new valve chamber must be constructed over the northern and southern legs of the Cathedral Header entering in to Engine Room 4 with 2500mm diameter valves. This will ensure that the two legs of the header can be isolated in future for maintenance (R028765/100).
- Upgrade the Electrical and Automation equipment
- Installation of submersible pump for draining the chamber

- Detailed building design including all civil, structural, Mechanical and electrical (small power and lighting) design work.
- Detailed designs of all aspects of the Cathedral Header which include mechanical, electrical and automation designs. The designs are to comply with the specifications listed in these tender documents. This includes HAZOP studies that shall be facilitated by consultants recognised in this field.
- Demolition of Chamber, supporting and rebuilding
- Construction of isolation chamber and rebuilding of chamber and associated services such as storm water, drainage and all in accordance with the approved civil and architectural drawings. All building finishes and general building work as per the Architectural and Civil part of the System Specification shall be included.

- Trenching and backfilling of a blown fibre optic cable from Header to Engine Room control room.
- Rehabilitation and landscaping of all areas affected by construction work.
- Supply and installation of all process, mechanical, electrical and automation equipment in accordance with the approved detailed design.
- SCADA, HMI and PLC software development.
- Commissioning, putting into service, proving and performance testing of the complete of the Header.
- WKS coding and labelling of all equipment, cabling and panels.
- Training of Rand Water personnel (Operations and Maintenance, and Asset Management Staff).

- Updating and submission of all supplied and generated documentation required by this specification to as-built status.
- Provision of a data book containing statutory certification and other documentation required by the relevant specifications for the equipment.

- Project and Contract management (including the preparation and circulation of Minutes of contract meetings).
- Servicing and maintenance of the installed equipment, from the time of putting into service until the issue of the Performance Certificate.
- Rectification of all defects identified during the Defects Liability Period.
- All work to comply with legislative requirements (not limited to the OHSACT and Environmental Management Plan) as well as Rand Water and external standards referred to in the Tender Document.
- All work to comply with requirements listed in Section 5 – “Site Information” of this document.

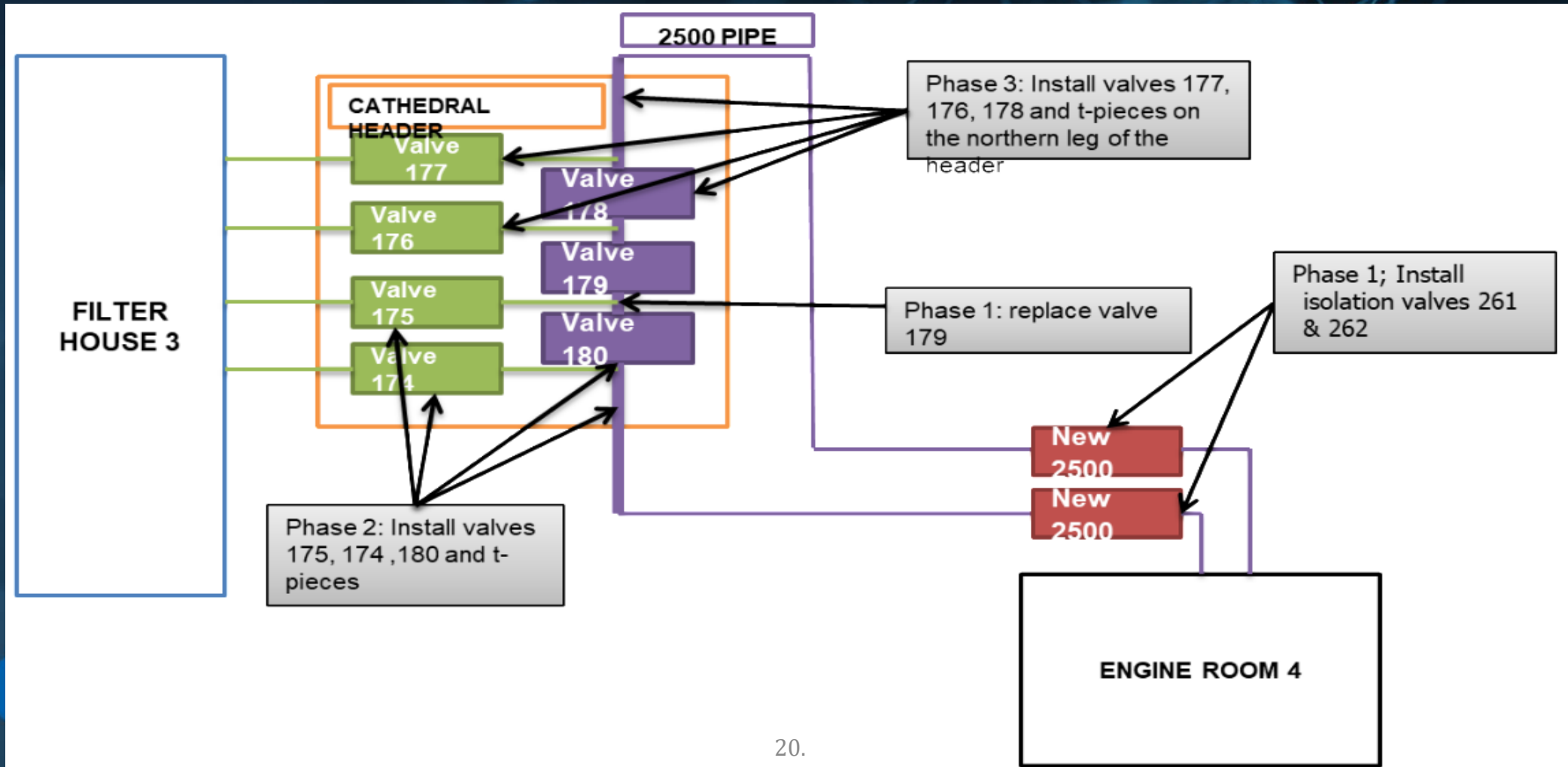
- The Contractor shall refer to the System Specification document RW 01197/15 for this tender. This document provides the detailed scope for each of the major components of the Chlorine Plant including all buildings and associated structures.

10. ANNEXURES ATTACHED WITH BID DOCUMENTS

- Annexure A of SAT1286:2011 Local Production and Content
- Annexure B of SAT1286:2011 Local Content Declaration
- Annexure C of SAT 1286:2011 Local Content Declaration – Summary Schedule
- Annexure C2.2: Pricing Schedule / Bill of Quantities (BOQ)
- Annexure C.3.2: Scope of Works (Including drawings, where applicable)
- Annexure C.4: Site Information

11. PLAN VIEW

Numbering of new valves to installed



11. PLAN VIEW



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