

CONTRACT JW 14425
BUSHKOPPIE WASTEWATER TREATMENT WORKS: INFRASTRUCTURE RENEWAL PLAN –
TENDER BRIEFING - MINUTES

<u>CONTRACT NUMBER:</u>	JW 14425
<u>CONTRACT TITLE:</u>	BUSHKOPPIE WASTEWATER TREATMENT WORKS: INFRASTRUCTURE RENEWAL PLAN
<u>DEPARTMENT:</u>	CAPEX
<u>DATE OF MEETING:</u>	06 MARCH 2025
<u>TIME OF MEETING:</u>	13:00 PM
<u>VENUE FOR MEETING:</u>	BUSHKOPPIE WASTEWATER TREATMENT WORKS MAIN ADMIN BUILDING
<u>CLOSING DATE:</u>	07 APRIL 2025
<u>CLOSING TIME:</u>	10:30AM

1. WELCOME

Ms. **Gcina Ndela** welcomed everyone who attended the tender briefing meeting and introduced JW personnel.

NAME & SURNAME	EMAIL ADDRESS	DEPARTMENT
Gcina Ndela	Gcina.ndela@jwater.co.za	Supply Chain
Tshilidzi Takalani	tshilidzi.takalani@jwater.co.za	Supply Chain
Peter Louw	Peter.louw@jwater.co.za	Capex
Ntshengedzeni Maphiri	ntshengedzeni.maphiri@jwater.co.za	Capex

2. CONTACT PERSONS

Technical Queries:

Mr Peter Louw

Email: peter.louw@jwater.co.za

Telephone number: 011 688 1676

Commercial Queries:

Ms. Gcina Ndela

Email: gcina.ndela@jwater.co.za

Telephone number: 011 688 1796

3. SUPPLY CHAIN MANAGEMENT PRESENTATION

- Mr. **Gcina Ndela** indicated that this is an open tender briefing meeting, and attendance is **COMPULSORY**. Bidders who did not attend the briefing meeting will **NOT** be considered for this tender. Therefore, bidders must make sure that they sign the attendance register provided during briefing meeting session.

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- Tender documents are available in PDF format at no cost on the Johannesburg Water website (www.johannesburgwater.co.za) and on <https://www.etenders.gov.za>.
- Tender documents need to be bound and contain all pages. Tenderers therefore need to ensure that the tender document is submitted in its entirety with no pages or parts missing. The order of the documents must be as set out on the Web page and all pages arranged correctly.
- The tender document must be completed in full, and all the forms must be fully completed and signed accordingly.
- The tender document must be filled in using black ink. Any mistakes must be struck-off and corrected with a single black ink line and signed (authenticated) by the tenderer.
- Tender documents may be completed electronically without altering or tampering of any of the text (terms, conditions, specifications etc.) in the tender documents.
- The use of correction fluid (Tippex) to correct mistakes is not allowed and if used the tender will be disqualified.
- Tenderers are required to hand submit one original hard copy and a soft copy on a USB flash drive, however tenderers who did not submit the USB will not be disqualified. Electronic submissions of tenders are not allowed.
- The required CIDB grading for the tender is 9ME. Tenderers must ensure that their CIDB status is Active at time of evaluation at the required class and grade to avoid elimination.
- Tenderers must be registered on the Central Supplier Database (CSD) and provide their registration MAAA**** number on the cover page of the tender document. Tenderers must ensure that they are always tax compliant on CSD.
- The 90/10 points scoring system will be applicable to this tender. 90 points will be allocated to price and the remaining 10 points will be for specific goals.

4. SPECIFIC GOAL POINTS ALLOCATION

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The Specific Goal Allocation will be scored as follows:

- 6 points for businesses owned by 51 % or more women.
- 4 points for businesses located within the boundaries of COJ Municipality.
- Tenderers tendering as JV must submit a JV BBBEE certificate.
- Make sure that your pricing schedule is fully complete and signed. Tenders must not leave blank spaces on the pricing schedule. The Form of offer must be completed and signed.
- Make sure that all requested information is submitted. It is the tenderers responsibility to make sure that all the requested documents are submitted and are bound together (i.e.no loose papers are allowed).
- Tenderers must make sure that they read and understand the requirements of the tender, contract data, special conditions, and general conditions of the tender.
- The tenders will be valid for 150 days after the closing date or any other duration agreed to by the tenderer and JW prior to tender validity expiring.
- Co-bidding is prohibited. (Tenderer being a member / owner / shareholder in more than one consortium / entity for the same project). Please read MBD 9 Certificate of Independence prior to signing the declaration.
- Tenderers are encouraged to note the closing date and time of the tender; late tenders will not be accepted. The closing date for this tender is **07 April 2025 at 10:30.** All bids are to be deposited in the tender box allocated on the ground floor at **65 Ntemi Piliso Street Turbine Hall, Newtown, Johannesburg.**
- No bids will be considered from persons in the service of the state.
- Each bid must be submitted in a separate, properly sealed envelope on which the Name and Address of the bidder, The Tender Number and Description must be clearly written on the envelope.
- Tender documents submitted via courier services will be accepted provided that the bidder instructs such courier company or its representative to deposit the tender document in the tender box provided. Under no circumstances should tender documents be handed to an employee of JW.

- Tender documents may not be submitted via the South African Post Office as only tender documents received in the Tender Box at the time of closing will be considered.
- Tenderers must continuously revisit the JW web page for any communication send to tenderers, as there might be a problem with the emails send to the tenderers.
- Tenders will be opened in public soon after the closing time but not later than 11:00 at the tender office located at Turbine Hall, 65 Ntemi Piliso Street, Newtown, Johannesburg 2001, ground floor. Tenderers names and total prices, where practical will be read out and recorded.

5. SUPPORTING DOCUMENTS

- SARS TAX PIN No.
- Municipal statement of account for both Director and Company (not older than three (03) months or a valid lease agreement).
- 3 year (3-sets) financial statements (audited where applicable).
- Joint Venture / Consortium Agreement signed by all parties.
- Valid BBBEE Certificate or copy thereof or a valid sworn affidavit.
- A completed and signed Invitation to Bid form MBD 1
- A completed and signed Declaration of Interest form MBD 4
- Complete and sign MBD 5 (Declaration for Procurement above R10m)
- A completed and signed Preference Points Claim Form MBD 6.1
- A completed and signed Declaration of Bidder's Past Supply Chain Management Practices MBD 8
- A completed and signed Certificate of Independent Bid Determination (MBD 9)

6. SCOPE OF WORKS

1. The scope of works presentation covered the overview of the Tender and Scope of Work (SoW). It is highlighted that the detailed tender requirements and SoW are contained in the Tender Document.
2. The Scope includes **Civil, Building, Structural, Mechanical, Electrical and Control & Instrumentation** work.
3. The overall site General arrangement explained from a Google Earth image and specific structures explained from the site photos and 3D models.
4. The objective of the project is to undertake refurbishment / replacement / upgrade at the following areas at the BWwTW:
 - A. Head of Works Module 1
 - B. Head of Works Module 2
 - C. Primary Sedimentation Tanks
 - D. Fermenters
 - E. Bio-Reactor Units 1 to 4
 - F. Clarifiers Units 1 to 4 (3 Clarifiers per unit)
 - G. Sludge Dewatering Building
 - H. Wash Water Pump Station
 - I. Final Effluent Pump Station
 - J. Lime Plant
 - K. Emergency Overflow Dam
 - L. Internal Access Roads
 - M. New Wash Water Filter Station
 - N. Electrical Refurbishment
 - O. Control & Instrumentation (C&I)
 - P. Security Upgrade (Around the whole site)

Brief details of the scope of work of different sections A to P is given as indicated below:

- **Head of works Main Inlet** scope include Flume installation, Bypass channel and walkway, access road and paved area, installation of Trash screen, installation of actuated sluice gate at the outlet of overflow from main inlet channel.
- **Head of Works Module 1 Coarse Screens:** Refurbish and actuate the entrance sluice gate, refurbish/replace screens, replace Screw Conveyor with Hydraulic Conveyor, Refurbish Bin Area, Refurbish MCC, PLC Panels and Cabling.

- **Head of Works Module 1 and 2 Blower room:** Construct New Building (Module 2), Install Piping to Degritters, remove existing blowers, modify plinths, install new blowers, refurbish MCC, PLC Panels and Cabling.
- **Head of Works Module 1 Compressor room:** Remove old compressors, install new compressors, refurbish air receiver, refurbish MCC, PLC Panels and Cabling.
- **Head of Works Module 1 Degritters:** Refurbish Air Lift System, remove old classifiers, modify area for 2 New Classifiers, replace Screw Conveyor, refurbish Bin Area (Module1) and Construct Bin Area (Module 2), refurbish MCC, PLC Panels and Cabling.
- **Head of Works Wash Water System:** Install Wash Water Storage Tank, Install Booster Pumps and Interconnecting Piping to Module 1 and 2 areas, MCC, PCL panels and Cabling.
- **Primary Sedimentation Tanks 1 to 5:** Remove existing Mechanical Equipment, refurbish Concrete, refurbish Bridge, Scum Baffle Plate & Weir Plate, replace Sludge Scraper, actuate incoming Sluice Gates, refurbish MCC panels and Cabling, refurbish PLC panels and Cabling and the scope excludes Sludge Pump Stations Modifications & Refurbishment.
- **Fermenters:** Remove existing Mech Equipment, refurbish Concrete, replace Mechanical Equipment, refurbish MCC panels and Cabling, refurbish PLC panels and Cabling, and the scope excludes Sludge Pump Station Modification & Refurbishment.
- **Bio-reactors:** Removal of existing Mixers, Installation of new Mixers, replace submerged bearing of Screw Pumps, Installation of flow measurement in inlet channels, refurbish MCC panels and Cabling, refurbish PLC panels and Cabling, and the scope excludes replacement of RAS Pump Screws.
- **Secondary Clarifiers:** Remove existing Mechanical equipment, refurbish Concrete, refurbish Bridge, Scum Baffle Plate & Weir Plate, Replacement of Sludge Scraper, replacement of Scum Troughs and Scum Scraper, refurbish MCC panels and Cabling, refurbish PLC panels and Cabling
- **Sludge Dewatering Building:** Concrete screed to floor and WAP for use at Poly Silo and make-up area.

- **Effluent Pump Station:** Replacement of Effluent Pumps, adding additional flow meter, Relocation and Replacement of Pressure Relief Valve, Re-commissioning of VSD's on control of Effluent Pumps, Refurbish MCC panel and Cabling, Refurbish PLC panel and Cabling.
- **Existing Wash Water Pump Station:** Replace Sand Filters, Replace WW Storage Tank, Replace Booster Pumps, Replace Blower, Replace WW Transfer Pumps, Refurbish MCC panels and Cabling, Refurbish PLC panels and Cabling and Replace part of rising main pipeline.
- **New Wash Water Filter Station:** Divert effluent, Construction of new building, Installation of Mech Equipment, Delivery Pipe to Effluent PS Sump, Install new MCC panel and Cabling, and Install new PLC panel and Cabling.
- **Lime Plant:** Relocation of Lime Silo, Install new Lime Make-up Tanks, Replacement of Mixers, Replacement of Mech Equipment in Lime Clarifiers, Refurbish MCC panel and Cabling and Refurbish PLC panel and Cabling.
- **Emergency Overflow Dam:** Modification to overflow Channel, Installation of flow meter, Replacement of control of pumps, Replacement of mini-sub, Refurbish MCC panel and Cabling and Refurbish PLC panel and Cabling.
- **Internal Access Roads:** Repair Potholes, Repair cracks, replace broken Kerbs, Remove and Replace broken slabs, Remove and Replace broken paving blocks, Chip and Spray over Asphalt Roads
- **Electrical Substations refurbishment** requirements were explained, and the scope of electrical works includes the following: Upgrade 11kV Network, Refurbish Substation No. 0, Refurbish Substation No. 1, Refurbish Substation No. 2, Refurbish Substation No. 3, Refurbish HoW Substation and Refurbish Blowers Substation.
- **Electrical refurbishment** in other areas were further explained and the scope of works includes the following: 11kV 630A RMU's, 11kV 800A metal clad vacuum circuit breakers, Programming of incomer / feeder & motor protection relays, 11kV / 110V 200VA VT panel, Battery Tripping Unit (BTU), MV cabling and termination, MV cable jointing and Cable route markers, Excavation & backfilling of cable trenches, LV cable and termination, Motor stop start stations including pedestals, LV control panels, MCC panels, Re-equipping of motor starter drive cubicles, Junction boxes, Limit switches,

Proximity switches, Earth conductors, Cable ladders, Emergency standby generator, As-built drawings & cable schedules, FAT of all equipment and the issuing of relevant test certificates as per specification & M manual and Pressure tests of all cables after installation.

- The **Control & Instrumentation (C&I)** scope of works of the instrumentation equipment includes the following: The supply, installation and commissioning of 15 level meters (1 hydrostatic pressure and 14 ultrasonic level), The supply, installation and commissioning of 14 flow meters (6 flume, 4 clamp-on, 3 weir and 1 magnetic flow meter), The supply, installation and commissioning of 4 pressure meters, The supply, installation and commissioning of 1 pH meter, and the supply, installation and commissioning of 1 low level switch and 2 pressure switches, The supply and installation of IJBs for several motorised equipment (Refer to Volume 2 SoW document P.17), The supply, delivery and installation of the PLC hardware as specified, The supply, delivery, installation, splicing and testing of fibre patch panels, The supply, delivery, installation, splicing and termination of data communication fibre-optic cables, and Removal of old existing cabling, old racking, old instrument panels and old Junction Boxes for Sections A, J and H. Setting up and Programming of two existing Siemens VSDs (Variable Speed Drivers for two 90kW Final Effluent centrifugal pumps because these pumps and VSDs were installed sometime ago and the VSDs were never set-up properly.
- **Site Security Upgrade:** Construction of a new Gate House / Guard House, Guard Monitoring System, Access Control at Gate 2, Upgrade of CCTV cameras and Refurbish & Upgrade Lighting.
- The prescribed sequencing chart is an attachment to the scope of works document, the Scope of Work is divided into two sections (section 1 and 2) of 18 months each. The overall time for achieving practical completion is 36 months, and it is important to understand the sequencing of the works in different areas and the structures that can be completed belonging to sections 1 and 2 accordingly. Certificate of practical completion will be issued after Months 18 for section 1 and months 36 for section 2. Section 1 must be completed first before access can be granted to work on areas that are under sections 2.
- The Tenderer's are advised to pay special attention to the requirements for security on site during construction as there are safety risks on site, the security related items are provided in the BoQ must be priced adequately.

7. EVALUATION CRITERIA

The Functionality Requirements consist of the following:

1. COMPANY EXPERIENCE on Electro-Mechanical Projects

- Experience Requirement: Experience on two or more more ***Electro-Mechanical projects*** for waste or potable water treatment projects with capacity of at least 20Mℓ/d (each), with a construction value of at least R80m (ex VAT) each.
- Supporting Documents: Supporting documents required include Reference Letters as per T2.1.6 (or on client letterhead with functional required information) and Completion / Approval Certificates.
- Scoring:
 - 0 points: No relevant projects completed / No supporting documents.
 - 7 points: Completed a minimum of two (2) Electro-Mechanical projects with the required construction value.
 - 10 points: Completed more than two (2) Electro-Mechanical projects with the required construction value.

2. COMPANY EXPERIENCE on Electrical Projects

- Experience Requirement: Experience on two or more more ***Electrical projects*** for waste or potable water treatment projects with capacity of at least 10Mℓ/d (each), with a construction value of at least R20m (ex VAT) each.
- Supporting Documents: Supporting documents required include Reference Letters as per T2.1.6 (or on client letterhead with functional required information) and Completion / Approval Certificates.
- Scoring:
 - 0 points: No relevant projects completed / No supporting documents.
 - 7 points: Completed a minimum of two (2) Electrical projects with the required construction value.
 - 10 points: Completed more than two (2) Electrical projects with the required construction value.

3. COMPANY Specific Method Statement

- Requirement: Specific Method Statement which addresses: Sequencing of the works as described in the scope of work. Approach statement and Introduction which illustrates understanding of the scope. Quality Control Plan. Specific construction method statements as required in annexure 5 PS 3.4 (Part 3 Scope of Work).
- Supporting Documents: Sequencing of the works, Quality Control Plan (Maximum of 4 pages)
- Scoring:
 - 0 points: Generic Method Statement / Not aligned to the project
 - 7 points: Adequately addressed all the minimum requirements highlighted in annexure 5 PS 3.4
 - 10 points: Exceeded all the minimum requirements highlighted in annexure 5 PS 3.4.

4. KEY PERSONNEL - Contract Manager Qualifications and Experience

- Minimum Qualification: A degree (BSc/BEng or BTech) in Civil/Mechanical Engineering.
- Professional Registration: Required registration as Pr. Eng., Pr. Tech.Eng., PrCPM, or PrCM.
- Project Experience: Experience on two or more Electro-Mechanical projects for waste or potable water treatment projects with capacity of at least 20Mℓ/d (each), with a construction value of R80m ex VAT (each).
- Scoring:
 - 0 points: 0 – 1 Projects completed.
 - 15 points: 2 – 3 Projects completed.
 - 25 points: More than 3 Projects completed.

5. KEY PERSONNEL – Site Manager Qualifications and Experience

- Minimum Qualification: National Diploma or BSc or BEng Engineering (Civil / Mechanical)
- Professional Registration: Registration as a Candidate Professional in the Built Environment (ECSA or SACPCMP) or more.
- Project Experience: Experience on two or more Electro-Mechanical projects for waste or potable water treatment projects with capacity of at least 10Mℓ/d (each), with a construction value of R50m ex VAT (each).
- Scoring:

- 0 points: 0 – 1 Projects completed.
- 12 points: 2 – 3 Projects completed.
- 15 points: More than 3 Projects completed.

6. KEY PERSONNEL – Mechanical Engineering Senior Foreman Qualifications and Experience

- Minimum Qualification: National Diploma or BSc or BEng Engineering (Mechanical), or higher.
- Project Experience: Experience on three or more Electro-Mechanical projects for waste or potable water treatment projects with a capacity of at least 10Mℓ/d (each).
- Scoring:
 - 0 points: 0 – 2 Projects completed.
 - 6 points: 3 – 4 Projects completed.
 - 10 points: More than 4 Projects completed.

7. KEY PERSONNEL – Civil Engineering Senior Foreman Qualifications and Experience

- Minimum Qualification: National Diploma or BSc or BEng Engineering (Civil), or higher.
- Project Experience: Experience on three or more Civil / Electro-Mechanical projects for waste or potable water treatment projects with a capacity of at least 10Mℓ/d (each).
- Scoring:
 - 0 points: 0 – 2 Projects completed.
 - 6 points: 3 – 4 Projects completed.
 - 10 points: More than 4 Projects completed.

8. KEY PERSONNEL – Electrical and C & I Engineering Senior Foreman Qualifications and Experience

- Minimum Qualification: National Diploma or BSc or BEng Engineering (Electrical or C&I), or higher.

- Project Experience: Experience on three or more Electro-Mechanical projects for waste or potable water treatment projects with a capacity of at least 10Mℓ/d (each).
- Scoring:
 - 0 points: 0 – 2 Projects completed.
 - 6 points: 3 – 4 Projects completed.
 - 10 points: More than 4 Projects completed.

9. KEY PERSONNEL – Safety Officer Qualifications and Experience

- Minimum Qualification: National Diploma (Safety Management) /National Diploma (Environmental Health/Environmental Science/ Environmental Management) /SAMTRAC / SHEOMTRAC/ SHEMTRAC / MESHTRAC /NEBOSH or any other course.
- Professional Registration: Must be registered with SACPCMP in the Construction Health and Safety Sector.
- Project Experience: Experience on three or more related projects (Water / Wastewater Treatment, Bulk Pipelines, Motor Control Centres, Mechanical installations in an Industrial Environment) with a minimum value of R20m ex. VAT (each) (post-qualification).
- Scoring:
 - 0 points: 0 – 2 Project completed.
 - 7 points: 3 – 4 Projects completed.
 - 10 points: More than 4 Projects completed.

*NB: Bidders must achieve a minimum functionality score of **70** out of **100** to be considered for further evaluation.

8. **SMME Requirements**

- Pay special attention to Contract Data Clause C1.2.1.2.14: Special Conditions
- Apart from subcontractors identified by the Contractor for the execution of certain sections of the Works, **subcontractors shall also include SMME's (Small Medium**

and Micro Enterprises), who are identified from the Local Community for the execution of certain sections of the Works identified by the Contractor.

- A **minimum value of 20%** (twenty percent) of the Contract Price shall be subcontracted to SMME's.

9. TENDER DATES

Tender Closing: **10:30 on 7 April 2025**. No late submissions will be accepted under any circumstances. Tender documents must be submitted in sealed envelopes, clearly marked with the reference number **JW 14425** and they must be deposited in the tender box. Under no circumstances must the tender document be given to JW employee or security personnel.

10. QUESTIONS AND ANSWERS

Bidders were advised to submit their questions in the form of technical queries directed to the Employer. All queries and corresponding responses will be documented in the document titled *JW 14425 BUSHKOPPIE WASTEWATER TREATMENT WORKS INFRASTRUCTURE RENEWAL PLAN - Technical Queries - ZC Response*. Participants are encouraged to refer to this document for further clarification.

CLOSURE

- Should bidders need any clarity, all queries are to be submitted 10 days before the closing date.
- Mr Peter Louw thanked all who attended the briefing session, and the meeting was adjourned.
- A short site visit was taken to the Head of Works area only.
- Site visit is granted for the following days:

FIRST SITE VISIT

DATE: 14 March 2025 (This Friday)
TIME: 1PM
VENUE: Bushkoppies Wastewater Treatment Works

SECOND SITE VISIT

DATE: 19 March 2025 (Next Wednesday)
TIME: 1PM
VENUE: Bushkoppies Wastewater Treatment Works

Please note that site visits is only granted during the stipulated date and time only. Bidders are advised to wear safety shoes.