

City of Johannesburg

Johannesburg Water SOC Ltd

Turbine Hall 65 Ntemi Piliso Street Newtown Johannesburg Johannesburg Water PO Box 61542 Marshalltown 2107 Tel +27(0) 11 688 1400 Fax +27(0) 11 688 1528

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SUPPLY CHAIN MANAGEMENT UNIT

3 September 2025

RE: CLARIFICATION AND RESPONSE CIRCULATION NO.1

NOTICE TO TENDERERS

CLARIFICATION		
CONTRACT NUMBER:	JW 13897	
CONTRACT TITLE:	Northern Wastewater Treatment Works Expansion of Capacity Unit 5 – Phase 2 (Mechanical and Electrical Works)	
DEPARTMENT	JW- SCMU	
<u>Email</u>	thapelo.teane@jwater.co.za and nthabiseng.matabane@jwater.co.za;	

With reference to the above-mentioned tender please note the following clarification.

In accordance with Clause C3.1.1, herewith the amendment "Respond to a request for clarification received up to seven calendar days before the tender closing time stated in the tender data and notify all Tenderers who drew procurement documents" "Respond to a request for clarification received up to seven calendar days before the tender closing time stated in the tender data and notify all Tenderers who drew procurement documents". The response to the received queries is provided below.

Directors:

Ms Dineo Majavu (Chairperson), Mr Ntshavheni Mukwevho (Managing Director and Executive Director),
Mr Kgaugelo Mahlaba (Chief Financial Officer and Executive Director), Mr Sipho Mthembu, Ms Zandile Meeleso, Mr Pholoso Matjele,
Mr Kgaile Mogoye, Mr Molate Mashifane, Ms Pamela Mabece, Mr Collen Sambo, Mr Makoko Makgonye, Ms Thabiso Kutumela,
Mr Kefiloe Mokoena





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	QUERIES	RESPONSES
CL No.	Description (Tenderer)	Description (Employer/ Employer's Agent)
C1	May the Electronic Bill of Quantities provided with the tender documents be completed electronically and submitted in a printed version rather than the handwritten version.	Yes. The typed tender document and the completed Electronic BOQ is acceptable is acceptable.
C2	May the Technical Datasheets provided with the tender documents be completed electronically and submitted in a printed version rather than the handwritten version.	The typed tender document and the datasheet may be completed electronically.
C3	Please can we ask for a date for the official site inspection to take place.	The official site inspection took place. You were given a chance to do a site walk about if you had PPE or you can arrange with Thapelo Teane if you need to visit the site at the later stage.
	Please provide a more detailed breakdown of the client's expectations for the Contractor during the Trial Operation period. In particular, please clarify whether items such as consumables and chemicals will be provided at the client's expense or are to be supplied by the Contractor.	The trial and Operation period is when the contractor must prove to the client and the engineer that the system can perform successfully, according to specifications stated in the tender, for a continuous period, without breakdowns and stoppages due to equipment or installation failures. It is only the successful, continuous running of the plant that must be proven. I do not believe the contractor would have to supply any chemicals required for normal plant operation (but JW must confirm this) as all chemicals are available on site and connected.
C4		Mechanical Works: The trial and operation period will commence after all site acceptance tests as specified are completed and approved by the Employers Agent, Operation and Maintenance manuals submitted and approved and all training completed. Where appropriate snag lists should have been produced and a program of action to complete the snag list agreed with Employers
		agent. The contractor would be required to supply lubricants, commissioning spares, fine tuning /

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settings of all equipment as necessary to prove correctness of readings and equipment performance.

The purpose of the trial and operation period is to assess if all equipment supplied installed and tested meets the standards and specifications set out in the Contract Document, specifically the Project and Particular Specifications.

Once the Trial and Operation period is completed, the Contractor will be responsible to inspect the works periodically repair and/or replace defective equipment as part of the defect's notification period."

The contractor shall submit a detailed method statement for the performance of the Trial and Operation period detailing all proposed tests etc for approval by the Employers Agent.

Electronic Control and Instrumentation Works:

All the FATs, SATs, site inspections, instrument set-ups, COCs, data communications, cable testing, etc., should be complete and snag lists should have been produced before the trial and operation period starts. The contractor would be required to supply lubricants, commissioning spares, fine tuning of instruments, any measuring equipment required to prove correctness of readings, proof that analyser readings correspond with laboratory test results, instrument ranges are correct, etc.

Electrical Works:

The Engineer will have to witness the systems integration testing; however, the contractor will have to ensure the system is operational and meets the JW standards and safety requirements prior to the consultant's witness testing.

The trial and operation period for the electrical systems testing will typically include:

 Inspecting the Installation, i.e., (Check cables, cable trays, switchgear,

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		MCCs DBs earthing and labelling
		MCCs, DBs, earthing, and labelling against design.) - Earthing and Bonding, i.e., Confirm all equipment is properly earthed with measured earth resistance.) - Inspection of all panels. - Switchgear and MCC Testing, i.e., (Verify breaker operation, interlocks, protection settings, and contactor function.) - Transformer Testing, (Perform ratio test, insulation test, and check tap settings.) - Generator Tests, (automatic changeover checks, runtime verification.) - Motor Testing (Motor insulation, noload testing, directional rotation check.) - Voltage and Current Measurement, (Confirm correct supply voltages, phase rotation, and load balancing.) Operational Systems Integration Testing - Sequential Start-Up Testing, (Confirm pumps, blowers, mixers, and other equipment start in correct sequence.) - Inter-system Testing (Verify integration between PLCs, SCADA, MCCs, VSDs, instrumentation, and safety systems.) - Emergency Stop Testing, (Confirm Estop locations work as per design)
C5	1. The following drawings are individually referenced in the specification document (JW13897-TENDERDOCUMENT-NORTHERN-WASTEWATER-TREATMENT-003) but are not included in the drawing package (DRAWINGS-JW13897-Tender-Document). We kindly request these drawings, as pricing many aspects of the works will not be possible without this information.	Drawings issued with Addendum No 1.
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		ARCHITECTURAL HYPOCHLORITE PUMPSTATION BUND & PUMPS	303000141/12-073	
		ELUTRIATION PUMP STATION	303000141/12-074	
		EFFLUENT PUMP STATION CONCRETE AND BUILDING LAYOUT	303000141/12-081	
1		PRIMARY SEDIMENTATION TANKS — STR		
		PRIMARY SEDIMENTATION TANKS SHEET 1 OF 2 303000141/12-111 PRIMARY SEDIMENTATION TANKS SHEET 2 OF 2 303000141/12-112		
			CTURAL	
		FERMENTATION THICKENER	303000141/12-141	
		ELUTRIATION PUMPSTATION MIXING TANK	303000141/12-150 303000141/12-154	
		EXTENSION TO EXISTING ELUTRIATION PUMP STATION	303000141/12-157	
		FERMENTATION TERRACE PIPE		
		FERMENTATION TERRACE ELUTRIATION EFFLUENT & THICKENED SLUDGE PIPES	303000141/12-171	
		BALANCING TANK STRUCTUR	7/4	
		BALANCING TANK SHEET 1 OF 5 BALANCING TANK SHEET 3 OF 5	303000141/12-201 303000141/12-203	
		REACTOR - STRUCTURAL	5555574772-255	
		REACTOR DETAILS OF INTERNAL WALLS SHEET 1 OF 3	303000141/12-303	
		AND RECYCLE A PUMPSTATION REACTOR DETAILS OF INTERNAL WALLS SHEET 2 OF 3	303000141/12-304	
		REACTOR DETAILS OF INTERNAL WALLS SHEET 3 OF 3	303000141/12-305	
		AND RECYCLE B PUMPSTATION REACTOR PLATFORMS AND BRIDGES	303000141/12-308	
		REACTOR FLOOR SLAB	303000141/12-307	
		REACTOR PLATFORM AND BRIDGES REACTOR ARCHIMEDES SCREW PUMPSTATION	303000141/12-309 303000141/12-312	
		REACTOR ARCHIMEDES SCREW PUMPSTATION	303000141/12-313	
1		CLARIFIERS — STRUCTURAL	303000141/12-401	
1		CLARIFIER SHEET 1 OF 2 CLARIFIER SHEET 2 OF 2	303000141/12-401	
		CLARIFIERS — PIPEWORK		
		CLARIFIER TERRACE FEED PIPES EFFLUENT DISPOSAL — PIPEWOF	303000141/12-434 RK	
1		DISINFECTION CONTACT TANK LAYOUT OF STEEL PIPES	303000141/12-473	
		EFFLUENT PUMP STATION		
		EFFLUENT PUMPSTATION WASTE SLUDGE TREATMENT — STRUC	303000141/12-485	
		THATE DECODE THE THEFT I - STROT	01010-2	
		WASTE SLUDGE THICKENER SHEET 1 OF 2	303000141/12-508	
		WASTE SLUDGE THICKENER SHEET 2 OF 2	303000141/12-509	
		OTHER DETAILS NEW ELUTRATION PUMPSTATION - MECHANICAL	303000141/12-160	
		EXISTING ELUTRATION PUMPSTATION - MECHANICAL	303000141/12-161	
		EXISTING WAS PUMPSTATION - MECHANICAL	303000141/12-162	
		In addition under section P	S 9.10.1	
		In addition under section P Drawing number JW13897 missing		Refer to Addendum No 1 for Correction.
	The	Drawing number JW13897 missing ere is an ambiguity on the g	'-CE-211 is	The generator rating for the Unit 5 standby set
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	The	Drawing number JW13897 missing ere is an ambiguity on the ging. The BoQ is calling for 160 the drawing is indicating 1	generator 00 kVA and 1000 kVA.	The generator rating for the Unit 5 standby set must be 1600kVA and not 1000kVA. Tenderers are to price the 1600 kVA
	The	Drawing number JW13897 missing ere is an ambiguity on the ging. The BoQ is calling for 160 the drawing is indicating 1 Drawing JW13021R-5E2-	generator 00 kVA and 1000 kVA.	The generator rating for the Unit 5 standby set must be 1600kVA and not 1000kVA.
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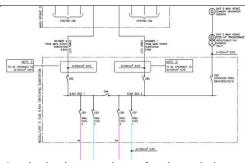


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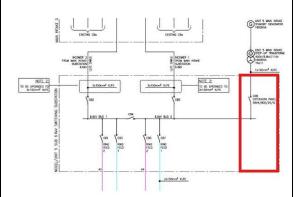
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 Is the image above for the existing Unit 5 Module 1 MV reticulation? If so then this board would be the Actom Board if I am correct where we will tie in the Actom Generator Panel to the existing board. The image above represents the existing MV switchgear panel with 4 outgoing feeders CB1, CB2, CB5 and CB7, CB8 the Generator Extension Panel will tie into the existing board as indicated in the indicated in the image below.



- 2. I don't see a single diagram drawing for Unit 5 Module 2 in the drawing pack. Please can this be provided.
- 3. The MV board also requires 2 Isolators and 4 feeders. Would this not be a ring main unit? There are also no specifications as to what the amperage should be and the other boards are all 6.6kV but the new board is 11kV.
- 4. Will the 2 Isolators behave like 2 incomers and what are their

The Single line diagram for the Bioreactor for Module 2 was included in the tender documents the drawing number is JW13021R-5E2-SM01. It has been Reattached your reference. The portion highlighted in RED is the extension from the generator Step-up portion. The board is an Actom SBV4 MV switchgear.

There are no existing RMUs present currently. This will be an MV Switchgear. The respective datasheet for the Unit 5 Module 2 MV Switchgear has been attached for your information.

Refer to Datasheet JW13898-E-007-1 MV Switchgear.

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	 amperages? What protection is required on them? 5. What is the amperage of the 4 feeders and what protection is required on them? 6. It is also clear in the tender document the only specifications provided for switchgear is the 6.6kV extension panel to the existing ACTOM panels. The new 11kV Board has no specifications. 	Refer to Datasheet JW13898-E-007-1 MV, the outgoing breakers are to be rated 630A with Overload and short-circuit protection Refer to Datasheet JW13898-E-007-1 MV, The MV boards will be rated at 11kV. The voltage on site is currently 6.6kV with intention to move to 11kV in the near future hence the MV infrastructure must be rated for 11kV or dual wound in case of transformers
C8	It appears that the original Volume 1 document has been removed from both the eTenders portal and the Joburg Water website and replaced with a new version. Original Document: JW13897- TENDER-DOCUMENT-NORTHERN- WASTEWATER-TREATMENT-003 Updated Document: TENDER- DOCUMENT-NORTHERN- WASTEWATER-TREATMENT-007 Please confirm what changes have been made between these two versions, and advise which document should be regarded as the official tender submission version	It was cleared at the briefing that you need to download the new version to be uploaded document and discard what you had. There were pages missing in the original document.
C9	BOQ items 1.7.1 – 1.7.3 require a provisional amount to be calculated based on items 1.6.1 – 1.6.3 respectively. However, these referenced items are for temporary works and are not relevant to cost variations relating to foreign exchange. Please confirm the correct items that should be referenced so that this can be rectified.	PS6.6 Foreign Exchange Risks The provision of forward cover against foreign exchange fluctuations on the imported content of all equipment required under the contract might be required. In his Tender, the Tenderer must state the value of the imported content of each item and the applicable currencies and the exchange rates on which his tender was based. The successful Tenderer might be required to take out forward cover on all foreign exchange transactions required in his tender for this contract, the rate applied shall be that ruling at the date of commencement of the Contract when that is stated in the Letter of Acceptance. Amounts tendered shall be adjusted for foreign exchange variations up to the date for commencement of the Contract; any

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Mr Kefiloe Mokoena

Ms Kethabile Mabe (Company Secretary), Johannesburg Water SOC Ltd Registration Number: 2000/029271/30





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		fluctuations after this date shall be for the Contractor's account.
		Should have been 1.7.1 to 1.7.3 and not 1.6.1 to 1.6.3 Typing error
		The provisional amount must be calculated by the Contractor and inserted for line item 1.7.1.
		Line item 1.7.2 is calculated at 10% of Line item 1.7.1.
		Line item 1.7.4 is calculated at 5% of Line item 1.7.2.
	PS 9.13 Section 13 (Odour Control) does not specify average/peak inlet H₂S concentrations which is required to size an odour control system.	Referring to P&ID drawing number JW 13897-ME-038 / 30300141-12-038 – The H ₂ S concentration is specified as 50 – 300 ppm (under Line No 1).
C10	Without this information we cannot size the system. We believe this is simply an omission. Can we ask for confirmation of the H ₂ S inlet concentration?	1) The odour control system should be designed and priced on H2S concentration of -: a) Minimum – 50 ppm b) Average – 100 ppm c) Peak – 300 ppm
C10		 Tenders to allow in their pricing for onsite monitoring of H₂S levels over a two-week period and should be included under item 13.1.1 of the BOQ.
		3) Tenderers to add in an additional item under Item 13.2.7 of the BOQ as follows: Item No, 13.2.8 – Payment Reference, PS 13.4 – Description, Equipment supplied
		under item 13.1.9 – Unit No, – Quantity 1

-End-

Directors:

Ms Dineo Majavu (Chairperson), Mr Ntshavheni Mukwevho (Managing Director and Executive Director),

Mr Kgaugelo Mahlaba (Chief Financial Officer and Executive Director), Mr Sipho Mthembu, Ms Zandile Meeleso, Mr Pholoso Matjele,

Mr Kgaile Mogoye, Mr Molate Mashifane, Ms Pamela Mabece, Mr Collen Sambo, Mr Makoko Makgonye, Ms Thabiso Kutumela,

Mr Kefiloe Mokoena

Registration Number: 2000/029271/30