

ADDENDUM TO CONTRACT NO:
BSW245/ODENWWTW/22

BLOEM WATER

REFURBISHMENT OF ODENDAALSRUS WWTW,
ASSOCIATED PUMP STATIONS AND PROVISION
OF SECURITY FENCE

Project	:	REFURBISHMENT OF ODENDAALSRUS WWTW, ASSOCIATED PUMP STATIONS AND PROVISION OF SECURITY FENCE
Bid No	:	BSW245/ODENWWTW/22

ADDENDUM 1.1: Additional description of Electrical Scope of Works

Add the following under PART C3 Scope of Works Item C3.1.2: Overview of the Works:

“The electrical scope of work at Odendalsrus WWTW starting at the connection to the bulk electrical connection involves, a Medium Voltage (11kV) connection to the new 315kVA (11kV to 400V 3phase) miniature substation, positioned close to the Biofilter Pump Station. The 400V 3phase power is fed from the miniature substation to a new Biofilter Pump Station Motor Control Center (MCC).

The New Bio filter MCC feeds and controls the power the electrical driven equipment in the pump station, instruments, site lights, small power & lighting of the building and a new Inlet works MCC. The new Inlet works MCC feeds and controls the power to the electrical driven equipment at the inlet works, Instruments, Site lighting, small power & lighting at the inlet works.

The electrical scope of works also allows for the complete earthing and lightning protection system, to protect the equipment and ensures the safety of personnel working on the site.

PLC technology will be implemented to control, in automatic mode, and monitor the electrically driven equipment and instruments on the plant, the PLC will be connected to a SCADA system to assist the operators with operation of the plant, monitoring of plant

parameters and legislative reporting, example green drop. The SCADA will also be connected to the cloud to assist supervisors to have access to the plant information from anywhere so they can assist operators if required.

Due to the time constraint under with the tender was compiled, there might be discrepancies between the electrical scope and the mechanical scope, it is this important that the electrical bill is completed as is, the final electrical design for construction will be given to the successful bidder based on the rates tendered. It is also important that the electrical contractor/sub-contractor has a proven record in doing WWTW work, as the legislative and quality requirements for WWTW electrical work is of a very high level.”

ADDENDUM 1.2: Electronic EXCEL Bill acceptable

Section T1.2

Bid Data

Item 2.11: Alterations to Document

Omit:

“To correct errors made, draw a line through the incorrect entry and write the correct entry above in black ink and place the full signatures of the authorised signatories next to the correct entry.”

And replace with:

“Completed Excel format of Bills will be accepted in lieu of a handwritten completed Bill. The correct population of formulas, rates etc., remains the responsibility of the Bidder. Bidder are required to submit the completed excel bill on usb/ memory stick”

ADDENDUM 1.3: Local contractor participation

SECTION C3.3 PROCUREMENT IS STRICKLY APPLICABLE TO THIS PROJECT AND REMAINS AS PER THE TENDER DOCUMENT.

This notice serves the purpose of **emphasizing and highlighting** **Section C3.3: Procurement.**

C3.3 PROCUREMENT

C3.3.1 Procurement Principles

The Employer decided to adopt the Standard of Uniformity in Construction Procurement published by the Construction Industry Development Board (CIDB) for his procurement process.

The Standard for Uniformity in Construction Procurement establishes minimum requirements that:

- promote cost efficiencies through the adoption of a uniform structure for procurement documents, standard component documents and generic solicitation procedures;
- provide transparent, fair and equitable procurement methods and procedures in critical areas in the solicitation process;
- ensure that the forms of contract that are used are fair and equitable for all the parties to a contract; and
- enable risk, responsibilities and obligations to be clearly identified.

C3.3.2 Preference Point Scoring System

The Preference Points Scoring system will be applied as indicated in Part T1.2, 3.11.3 Method 4.

C3.3.3 Sub-contractors

The Contractor shall subcontract targeted enterprises directly in the performance of the contract to the extent that the total financial value of such sub-contracts, in accordance with all the requirements of this document, is sufficient to achieve the contract participation goal provided for in the contract.

The Contractor will be required to sub-contract the any specialised works to a specialist Sub-contractor, familiar with the type of work.

C3.3.4 Participation of Targeted Enterprises

3.3.4.1 Introduction

This document provides for the setting of participation targets (contract participation goal) for a contract and the measurement of key participation indicators to be used in the audit of compliance with set contract participation goals during the execution of the contract.

The BLOEM WATER has determined the minimum Contact Participation Goal (CPG) for this contract to be 30%.

3.3.4.2 Requirements

- a) The Contractor shall subcontract targeted enterprises directly in the performance of the contract to the extent that the total financial value of such sub-contracts, in accordance with all the requirements of this document, is sufficient to achieve the contract participation goal provided for in the contract.
- b) The Contractor must submit to the principal Agent / Engineer details **of his plan to achieve the minimum contract participation goal in the Contract Participation Goal Implementation Plan** (see Annexure A), **within five (05) working days of being instructed to do so.** If no such instructions are given, these plans must be submitted to the principal Agent / Engineer before or with the submission of the first claim for payment.
- c) The Contractor must enter into written contractual agreements with all the targeted enterprises cited in the Contract Participation Goal Implementation Plan and shall, as soon as is practicable, but not later than the commencement of such subcontracted

works and / or services, furnish the principal Agent / Engineer with copies of such agreements and the written acceptances thereof.

ADDENDUM 1.4: Extension of Closing date

Requests have been received by tenderers for extension of the tender closing date.
*The project is nationally regarded as an **emergency project** rendering that no extension of time will be allowed and tender closing date remains as published: 06 September 2022 at 12h00.*

ADDENDUM 1.5: Two envelope system

Section T1.2: Bid Data

Omit Clause 2.13.6:

“A two-envelope procedure will not be followed.”

And replace Clause 2.13.6 with:

“A two-envelope procedure will be followed.

Separate enclosed envelopes (as per Tender Advertisement Notice) one for the technical part and one for the pricing data (Bill of Quantities) must be submitted.”

Addendum 1.6: Process Controller Class 0 to Class III Learnerships and Training

Refer to Section C7: Project Specifications

Section Section 3.7.14: Operation AND Maintenance: QUALIFICATION AND REQUIREMENTS

Add the following under the heading: Learnerships:

‘The training to be done under this Heading: Learnerships cover training for all Process Controllers Level Class 0 to Class III of the WWTW operational staff throughout the 12 months O&M period. (excluding the Process Controller Class IV AND Class V Training levels under a separate Payment Item).

The applicable payment item for this is:

Bill A: Section C7: Operation and Maintenance

Payment Section C7.7 in Bill A refers:

Monthly Allowed Training Provision (Class 0 to III)	Months	12
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Addendum 1.7 Process Controller Class IV TO Class V Training

Refer to Section C7: Project Specifications

Section Section 3.7.14: Operation AND Maintenance: QUALIFICATION AND REQUIREMENTS

Add the following under the heading: Learnerships:

“Process Controller Class IV to Class V Training:

During the testing and commissioning period as well as the 12 months O&M period, the Contractor shall train the treatment works process controllers in the operation and maintenance of the equipment supplied under this contract. Prior to commencement of this operator training, a draft copy of the Operating and Maintenance Manual shall be available on site. On completion of commissioning, the Manual shall be updated in light of experience gained during the commissioning of the plant and the final copies as required in terms of the Contract shall be submitted.

At Start up:

- The entire training period of no less than 10 working days shall be supervised by a certified Class V operator and a representative of the Contractor in full time attendance on Site during the normal 8 hour working day. Course content and presentation shall be of professional quality and training shall be provided on site, as well as at facilities made available by the Employer for this purpose.*

During the 12-month operation period:

- The entire training period of no less than 2 working days per month shall be supervised by a certified Class V operator and a representative of the Contractor in full time attendance on Site during the normal 8 hour working day. Course content and presentation shall be of professional quality and training shall be provided on site, as well as at facilities made available by the Employer for this purpose.*

Provision of lecture materials (10 sets) including the diagrams and procedures in a smaller format

Theoretical training, including lectures in the theory of sewage treatment, biological nutrient removal technology as implemented in this Contract, and operation of the various configurations.

Training of operational staff in the adjustment and determination of the correct setting of the sluice gates, weirs and recycle pumps for the various process configurations.

Training of the operators in the determination and setting of:

- the optimum immersion depths for the required oxygen transfer rates*
- bypass facilities*
- process configurations*
- recycle flow rates*

- *sludge age control mechanisms*
- *structure isolation*
- *Training of operators in emergency procedures*
- *Power failures*
- *Chemical dosing*
- *Chlorine handling*
- *Training of operators and maintenance personnel in the operation of MCCs Control system software and/or timer setting*
- *Alarm conditions and basic fault finding*
- *Overview of PLC programming for the purposes of making changes and re-loading programs if PLCs are replaced (only if used in the Contract)*
- *Monitoring and downloading of data from loggers*
- *Motor protection relay and settings*
- *Training of operators and maintenance staff in the inspection and maintenance procedures required for all mechanical and electrical equipment*
- *Routine inspection and logging of data*
- *Greasing and oil changes*
- *Planned preventative maintenance*
- *Training of operators and maintenance staff in the MV switchgear and system Detailed overview of 11kV protection and settings*
- *Tuition on setting of 11kV protection”*

The applicable payment item for this is:

Bill A: Section C7: Operation and Maintenance

Payment Section C7.7 in Bill A refers:

C7.17		<i>Monthly allowance for the Training of appointed Matjhabeng Staff in</i>				
		<i>Operating and Maintenance training at the Odendaalsrus WWTW (allow for 5 members) (Process Controllers Class IV to Class V)</i>	<i>Months</i>	<i>12</i>		

Addendum 1.8: Spare Parts Preventative Maintenance

Refer to Section C7: Project Specifications

Section Section 3.7.14: Operation AND Maintenance: QUALIFICATION AND REQUIREMENTS

Add the following:

“SPARE PARTS

GUARANTEE AND MAINTENANCE

The Contractor shall guarantee and maintain the complete items listed under the spare parts for a period of twelve months after first delivery of the plant/equipment.

LIST OF SPARE PARTS REQUIRED

The spare parts to be included and priced for in the submission:

1. *Generator:*
 - a. *Oil filter*
 - b. *Air filter*
 - c. *Reserve oil*
2. *Screens:*
 - a. *Complete set of chains for replacement (Qty 2)*
 - b. *Gearbox breather, oil for oil change, Copper washer*
 - c. *Top sprockets – set*
 - d. *Bottom turn-over assembly – Set*
3. *Press*
 - a. *Gearbox breather*
 - b. *Oil for oil-change*
 - c. *Copper washer*
 - d. *Brushes*
4. *Sluice gates*
 - a. *Spare hand wheels qty 1*
 - b. *Bearing Qty 1*
5. *Classifier*
 - a. *Top & Bottom bearings/bush assemblies Qty 1*
 - b. *Gearbox breather, oil for oil-change & Copper washer Qty 1*
6. *Raw sewage pumps*
 - a. *Spare rotating assembly*
 - b. *Oil for oil change*
 - c. *Set of belts*
 - d. *Oil sight glass*
7. *Trickling filter feed pumps:*
 - a. *Spare rotating assembly*
 - b. *Oil for oil change*
 - c. *Set of belts*
 - d. *Oil sight glass*
8. *WAS pumps*
 - a. *Spare rotating assembly*
 - b. *Oil for oil change*

Bill A: Section C7: Operation and Maintenance

The following Payment Items in Payment Section C7.15 and C7.16 in Bill A refers:

C7.15		Monthly Allowed Preventative Maintenance cost (Fitter and labor)	Months	12		
C7.16		Monthly Allowed Preventative Maintenance cost for spare parts, consumables, transport, storage, labor, etc.	Months	12		

The costing for parts, tools, transport, storage and associated labour costs shall be included in the payment Items as per above.”