

## **SPECIFICATIONS OF GOODS REQUIRED**

### **1. Background**

uMngeni-uThukela Water requires service for the supply, delivery, installation and commissioning of a 125 kVA prime rated standby diesel generator for the 321 Prince Alfred Street, PMB Offices.

### **2. Description of goods/ services required**

The supplier will be required to supply, deliver, install and commission the backup electrical system as defined in the scope of work, (refer to Section 5). The system is to follow all regulatory specification as defined in the specific SANS standards and as well as adhere to the requirements set by the Msunduzi Local Municipality.

### **3. Deliverables/Key Outcomes.**

The supplier will be required to supply, deliver, install and commission the backup electrical system as defined in the scope of work, (refer to Section 4). The system is to follow all regulatory specification as defined in the specific SANS standards and as well as adhere to the requirements set by the Msunduzi Local Municipality.

The Project Specifications (PS) forms an integral part of the contract and supplements the Standard Specifications and UMngeni-uThukela Water Particular Specifications. They contain a general description of the works, the site and the requirements to be met.

In the event of any discrepancy between a part or parts of the Standardized or Particular Specifications and the Project Specifications, the Project Specifications shall take precedence. In the event of a discrepancy between the Specifications and the drawings and / or the Bill of Quantities, the drawings take precedence, thereafter the Bill of Quantities. In all events, the discrepancy shall be brought to the attention of the Employer's Agent before the execution of the work under the relevant item.

Project Specification (PS)

PS 1. uMngeni-uThukela Water requires service for the supply, delivery, installation and commissioning of a 125 kVA prime rated standby diesel generator for the 321 Prince Alfred Street, PMB Offices.

PS. 2.

Overview and Details of Contract

PS. 2.1

Overview

The main components of the contract comprise:

PS. 2.1.1

The supply, delivery, installation and commissioning of a 125 kVA prime rated standby diesel generator with automatic changeover for the 321 Prince Alfred Street, PMB Offices. The changeover panel shall include a TCP/Ethernet communication protocol for future linking to the SCADA system. The generator shall be the silent-type and meets the Msunduzi Municipality bylaws for that area.

PS. 2.1.2

The generator must be installed in an outdoor weatherproof enclosure as per 4.2.2.1.

#### PS. 2.1.3

A Certificate of Compliance (COC) must be supplied for the installation.

#### PS. 2.1.4

Factory acceptance tests (FAT) will only be attended by the project manager and/or his designate.

#### PS. 2.2

The generator and installation must comply with the following:

##### PS. 2.2.1

The outdoor weatherproof enclosure must be manufactured from 2mm thick 3CR12 stainless steel. The enclosure must be vandal proof.

##### PS. 2.2.2

The installation must include all cables between the generator and the existing outdoor distribution board (DB). This includes supply cables, mains sensing and any other cable required to make the installation fully functional. All supply cables must be rated for the full load rated current of the existing DB. In addition to this, cable sizing must allow for volt drop over distance if applicable. Cable size must be approved prior to installation.

##### PS. 2.2.3

Main supply cables in and out must be XLPE cable with copper conductors. Mains Cables must be mounted on heavy duty galvanised industrial cable ladder or heavy duty cable tray where applicable. Cables may be 4 core cables or sectorial cables.

##### PS. 2.2.4

In addition to a low level fuel cut-off the diesel tanks must have an analogue fuel level sensor with a 4-20mA output corresponding to 0-100% fuel level. The level must be indicated on a separate digital indicator mounted in the changeover panel.

##### PS. 2.2.5

The generator must have an automatic fuel cut-off valve for fire protection. This can be activated by a fusible link.

##### PS. 2.2.6

The following signals must be wired to terminals in the changeover panel:

- Generator running
- Current
- Voltage
- Power
- kWh

- Mains fail
- Low fuel
- Common Alarm
- Fuel Level – analogue 4-20mA signal
- Battery Charger Fail

#### PS. 2.2.8

The generator must preferably be a Deepsea controller or similar approved by UMngeni-uThukela Water, mounted in the changeover panel.

#### PS. 2.2.9

The automatic changeover panel must be set mounted. The changeover panel must be rated for the full load current of the main incomer. Changeover circuit breakers must be 4 pole with overlapping neutral i.e the neutral must be the first to make and the last to break.

#### PS. 2.2.10

All applicable cables buried in the ground must be installed in sleeves. Trenching must be as per UMngeni-uThukela Water's Standard Specification. Deviations must be cleared with the Project Manager

#### PS. 2.2.11

Sleeves must be 110mm PVC or similar approved where applicable.

#### PS. 2.2.12

The generator must be supplied with a full tank of fuel.

#### PS. 2.2 13

The following Technical Questionnaires must be completed for each of the generator sets being offered:

## 1. Evaluation Process

The RFQ will be evaluated using a two (02) stage evaluation approach:

### 1.1 First stage: Mandatory/ Administrative Requirements

1. SBD 4 – Bidders disclosure
2. Bidder completed the Technical Questionnaire table 1-10
3. Bidders must have a CIDB Grading of **1EB/EP** or Higher (Submit proof of CIDB registration)

## 1.2 Second Stage: Price and Preference goals

1. Subsequent to the evaluation of mandatory/ administrative requirements, the second stage of evaluation of the bids will be in respect of price and preferential procurement only.
2. Tenderer is tax compliant
3. In compliance with the Preferential Procurement Regulations 2022, the 80/20 preference point system is applicable: points for this bid shall be awarded for:
  - a) Price; and (80) and Preference as defined in SBD 6.1 (20)
4. The Preference Goals that have been identified for this bid is stipulated in SBD 6.1
5. Preferential goals and applicable points for this tender in terms of Preferential Procurement Regulations 2022, are indicated in the table below:

	Description	80/20	Evidence to be provided
HDI	Atleast 51% Black owned company	10	BBBEE Certificate/Sworn affidavit
RDP	SA Owned Enterprise	10	CIPC/CSD Documents
<b>Total points for preferential goals</b>		<b>20</b>	

6. Failure on the part of a bidder to submit proof or documentation required in terms of this RFQ to claim points for specific goals, will be interpreted to mean that preference points for specific goals are not claimed by the bidder.
7. Uuw reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by Uuw.
8. Uuw reserves the right to conduct negotiations with the qualifying bidder/s regarding any terms and conditions, including price(s), of a proposed contract where applicable Uuw reserves the right not to accept the lowest financial offer or any offer