	Works Information	Generation Engineering
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Compiled by



K Komape
Boiler Plant Engineer
Tutuka Power Station

Date: 29/08/2024


Functional Responsibility



P Chauke
Boiler Plant Manager (A)
Tutuka Power Station

Date: 2024/08/29

Approved by



L Masote
Engineering Manager
Tutuka Power Station

Date: 30/08/2024

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1 DESCRIPTION OF THE *WORKS*

1.1 INTRODUCTION

This scope of the works focuses on the supply and delivery of mobile oil purifier units for Tutuka power station. The mobile oil purifiers are critical for removal of foreign particle that contaminate our lube oil systems. These purifiers are integral to the proper functioning and reliability of the milling plant lube oil systems.

The primary objective of this scope of works include:

- Supply and delivery of 6 Mobile oil purifier units.

1.2 *CLIENTS'S OBJECTIVES AND PURPOSE OF THE WORKS*

The objective and purpose of this scope of works is to supply and delivery 6 Mobile Oil purifiers for Tutuka power station.

1.3 SCOPE OF THE *WORKS*

The objective and purpose of this scope of works is to supply and delivery of 6 Mobile Oil purifiers for Tutuka power station. These purifiers have been utilised successfully at Tutuka power station past and have yielded positive results in terms of removal of foreign contaminants on lube oil systems in the milling plant.

1.3.1 Supply and delivery Technical specification

- Supply and delivery of 6 new mobile oil purifiers for Tutuka. The Table below gives key specifications of the purifiers.

Oil purifier spec	
Nominal flowrate	30 litres per minute
Operating pressure	4-10 bar
Operating fluids	Mineral oil
Min inlet pressure	-0.4 – 0.5 bar
Viscosity range	10 – 400 mm ² /s
Fluid temperature range	-10 – 90 °C
Ambient temperature range	-10 – 45 °C
Filtration Capability	2 – 20 µm

1.3.2 Additional specification

- 4 wheel trolley.
- Suction strainer.
- 2" Suction hose.
- 2" Delivery hose.

- Hoses must be made of high tensile steel braiding.
- Hoses to have male quick release fittings.
- 15m Electrical cable 220 V.
- Screw pump.
- 220V Electrical motor.
- Flow meter.
- Stop start unit.
- Ball valves.
- Clogging indicator

1.4 INTERPRETATION AND TERMINOLOGY

1.4.1 List of Definitions

N/A

1.4.2 List of Abbreviations

Abbreviation	Meaning given to the abbreviation
AKZ	Anlagenkennzeichnungssystem
BBA	Boiler Bottom Ash
QCP	Quality Control Plan

2 MEETINGS AND START UP

2.1 MEETINGS

Initial site clarification meetings of a general nature will be convened and chaired by the assigned Buyer.

3 PROCUREMENT

3.1 PLANT AND MATERIALS

3.1.1 Quality

All plant and materials supplied, by the *Supplier*, are new, unused, and free from defects and imperfections. No reconditioned equipment and/or Materials are regarded as new under any circumstances.

Only components of high reliability are utilised, with a proven operating history to enable the plant to achieve required reliability and availability. Equipment and material design, engineering and manufacture is in accordance with the best modern practice applicable to high-grade products of the type to be furnished, so as to ensure the efficiency and reliability of the plant and the strength and suitability of the various parts for the plant.

Equipment and materials withstand ambient conditions and the variations of temperature arising under working conditions without distortion, deterioration, or undue strains in any part.

All parts are made accurately, and where practicable, to standard gauges so as to facilitate replacement and repairs. Like parts are interchangeable.

No repair of defective equipment and/or materials is permitted without the *Client's* acceptance and any such repair, if approved, is carried out to the satisfaction of the *Client*.

The *Client* is free to specify hold and witness points during the constructions. The *Supplier* issues preliminary notification of such hold and witness points.

3.1.2 Tests and inspections before delivery

The *Supplier* provides all test equipment required for plant and materials testing.

Inspection and testing prior to delivery are conducted in accordance with requirements of the *Client* Procurement Quality Standard QM58 par 3.5.5 and 3.5.6 with the control of the associated generated documents aligned to that standard and approved Project Quality Plan.

The *Client* carries out quality inspections at his discretion.

3.1.2.1 Inspection and Testing

All equipment and materials are comprehensively tested in accordance with the agreed Quality Control Plans (QCPs) prior to delivery. The *Client* reserves the right to appoint a representative or representatives to inspect all parts during refurbishment and erection, and to be present at any of the tests specified. Such witnessing of tests by the client, or if the *Client* chooses to waive the witnessing of any tests, does not relieve the *Supplier* of his responsibilities.

The *Client* inspects parts of the plant at his discretion during manufacturing stages and before shipment as per the agreed QCP.