

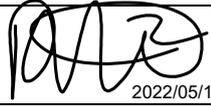
	Order for Provision of Sandblasting and Surface Preparation Services for Matimba Power Station	Doc. no. F/290/007
		Rev.1.0
		Total pages 1 of 3
Matimba Power Station		Reference Document: PS/290/003

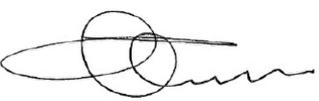
Unit: 1 2 3 4 5 6 O/P

Outage IR GO OTHER

Outage Date

Function

System	System Engineer	Date
Boiler	Kenneth Maboko	 2022/05/19 PP
FAC & RBI	Lesego Shongoane	 2022/05/19

	APPROVED	Date
P Hloka Boiler Manager	 p.p.	2022/05/19
J Mathobela Engineering Manager		2022/05/19

1. SCOPE

The scope of the document defines the scope and technical criteria by which tenderers for the supply of labour and equipment for sandblasting work at Matimba Power Station will be evaluated.

2. Works Information

Sandblasting strips a surface of dirt, rust, old paint and grease and prepares it for refinishing, repair and inspections using pneumatic, electrical, or mechanical equipment. This activity relies on manual labour and it is physically demanding. The working environment is often dusty and loud and the sandblaster is frequently exposed to potentially dangerous situations, toxic chemicals, and risk electrocution. The minimum PPE required to work in this environment include:

- Hard hat
- Safety-toe work boots and
- Hearing Protection
- Safety harness
- Safety goggles

The scope of work includes the supply of labour and equipment for conducting Sandblasting related activities at Matimba Power Station from Unit 1-6. Work will mainly be performed inside the units (Boiler and Turbine side), but the contractor may also be required to work in other areas as in when required by Eskom.

Sandblasting grit to be supplied & used:

- Afri-grit 60/80 or preferably using a micro blast grit 60/80.
- Aluminium oxide. Size grading 240 only

Activities include, but are not limited to sandblasting and therefore surface preparation on the following plant areas:

2.1 Boiler Plant Area

- Sandblasting on Evaporator Trifurcations & Bifurcations – 16, 63 & 83 metre levels
- Sandblasting on Evaporator -screw wall-Tubes for fireside corrosion inspections (16ML – 63ML)
- Sandblasting on Evaporator –slope and hopper nose tubes for WT and visual inspections
- Sandblasting on Evaporator – All burner boxes internally & externally for WT, Visual & External Corrosion inspections
- Sandblasting on the Evaporator – All wall mountings external to the boiler for MPIs (i.e. manholes, sootblower & tube leak detector boxes from 63ML – 99ML)
- Sandblasting on Evaporator distribution headers (4ML, 8ML & 12ML)
- Sandblasting in the Boiler Dead Space 104ML – connecting welds on Superheater 1 inlet headers and Evaporator outlet headers.
- Sandblasting on Superheater 2 & Superheater 4 – for removal of ash build-up

- Sandblasting on Reheater 2, Superheater 2 & Superheater 4 – penetration tubes for WT & micro cracks inspections
- Sandblasting on Reheater 2, Superheater 2, Superheater 3 & Superheater 4 – for Tube SOLO inspections

2.2 FAC Scope of work

- Sandblasting on sootblower piping bends
- Sandblasting on boiler drains & vent lines
- Sandblasting on the boiler blowdown vessel and HP & LP heaters

2.3 HP Pipework (Inter-connecting Pipework, Main Steam, Cold Reheat & Hot Reheat)

- Sandblasting on headers, bends, stubs, welds & spool pieces for various NDTs
- Sandblasting on thermocouple pockets for various NDTs
- Sandblasting on attemperators, valves & T-Pieces
- Sandblasting on drain & vent lines

NB – Working platforms and removal of lagging and cladding will be provided for by Eskom