

# Specification to supplying, testing, commissioning, and training of Pulse welding machine in Germiston main plant (TE)

## Specification and Document Compiled by:

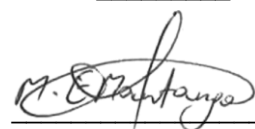
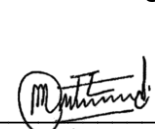
Name & Surname kgobisa Makena

Signature  \_\_\_\_\_

Date 27/October/2022

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Date 28-10-2022

## Recommended by:

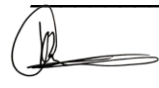
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Date 02/11/2022

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Date 03 / 11 / 2022

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## 1. SCOPE OF WORK INSTRUCTION

- 1.1 This specification is strictly for the supplying, testing, commissioning, and training of pulse welding machine at Germiston main plant (TE)

## 2. MINIMUM REQUIREMENTS:

This specification does not absolve the supplier of sound engineering practices.

Material to be supplied should be SABS approved and of first grade.

**THIS SPECIFICATION IS FOR:** pulse welding machines.

- \*Rated input voltage/frequency: 3 PHASE, 380V $\pm$ 10%, 50 /60HZ
- \* Rated input capacity(kva):23.4
- \*Rated input current:36.1A
- \*Duty cycle (40 degrees): 60% $@$ 500A
- \* OCV (V): around 106
- \*Output current range: 25-500A
- \*Trigger mode: 2/4T, Spot, repeat
- \*Wire size: 0.8, 1.0, 1.2, 1.6
- \*Double pulse frequency (Hz):0.5-5
- \*Job channels:100
- \*Protection glass: IP23
- \*Dimensions (L X W X H): 655 X 324 X 546
- \*Metal type: Carbon Steel / Stainless Steel / Aluminium / Nickel Alloys
- \*The package should include the relevant full gas bottle and the locking system
- \*The pulse machine should include intelligent remote equipped with 8m cable, Great for setting welding parameter inside vessels or on top of structures with limited visibility
- \*The latest and more advanced pulse welding machine is recommended

## 3. GUARANTEE

The Contractor shall guarantee the civil/machine for a period of twelve (12) months

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**4. SAFETY COMPLIANCE:**

- 4.1 The Contractor's personnel will have to attend a compulsory safety induction course at the Transnet plant before they commence work/enter within the plant, which will be for the expense of Transnet.
- 4.2 The employees of the contractor shall at all-times adhere to Transnet Engineering's security and safety procedure.
- 4.3 Wearing of appropriate PPE is always mandatory when entering the workshops.
- 4.4 The bidder to supply three set of manuals, for operation, maintenance and spares list
- 4.5 Bidders to provide training for maintenance and the operation of the machine

**5. BIDDERS SHALL STATE:**

- 5.1 Whether all essential renewable parts for the machines / equipment will be readily available in the Republic of South Africa
- 5.2 What after-sales service for the machines / equipment can be offered?
- 5.3 Where similar machine has been supplied in the Republic of South Africa

**Acceptance Column:**

<b>Name &amp; Surname:</b>	
<b>Company Name:</b>	
<b>Signature:</b>	<b>Date:</b>

**By signing on the acceptance column, the supplier acknowledges that he understands the content of the specification. He/She shall conform to the requirements specified in the specification. He/She has the authority within his delegation to represent and sign on the company's behalf.**

**END OF SPECIFICATION FOR PULSE MACHINE**

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