



**KENYA ELECTRICITY GENERATING COMPANY PLC**

**RFx: 5000011856**

**KGN-GDD-013-2023**

**TENDER FOR SUPPLY AND TESTING OF ASSORTED MOTORS FOR OLKARIA 1AU AND IV POWER PLANTS.**

*(Citizen Contractors)*

Dated: 17<sup>th</sup> February, 2023

**Clarification No.2.**

In accordance with the **Tender for Supply and Testing of Assorted Motors for Olkaria 1AU and IV Power Plants**, KenGen issues a **Clarification No. 2** as follows:

No.	BIDDER'S CLARIFICATION REQUEST	KenGen's RESPONSE
1.	Part 2, Section V Technical evaluation of the motors Pg 64. Tender Document According to the technical evaluation of the motors table (pg. 64) an emergency oil pump has been included in the technical evaluation list but omitted in the supply requirements table on page 56. Additionally, during the site visit on 7th February 2023, it was stated that the emergency oil pump is not part of the requirements.  Kindly advise.	The Technical Evaluation table for Assorted Motors in Schedule A is hereby amended to expunge the Emergency oil pump Motor, <b>Refer to Addendum No.2</b>
2	According to the technical specifications (Pg. 68), the requirements for the heavy duty crimping tool with a foot pedal have been stated. However, the manufacturers are requesting for a photo of the	<b><u>SCHEDULE C: ASSORTED TOOLS</u></b> The specifications are emphasized as follows:

crimping tool so that they can have a better understanding of the required item.

Kindly advise.

**Item No. 1. Hydraulic Crimping tool with Complete with Foot Pump 16 - 625 mm<sup>2</sup>**

- Crimping force: 250 kN  
Hydraulic system with 250kN crimping force
- Crimping range: 16-625 mm<sup>2</sup>  
Extremely wide cross-section range up to 625 mm<sup>2</sup>
- Operating pressure: max. 700 bar
- Weight - 17.6 kg
- Foot pump with two-stage hydraulics
- Head with quick coupling, 360° rotation when not pressurized
- Manual retract as required
- suitable for 25-series interchangeable crimping dies, wide crimping
- Preferable make: Part number *HK252*

**Item No. 2. Bearing Induction Heater**

- Bore diameter range: 20–300 mm (0.8–11.8 in.)
- Operating area (w × h): 100 × 135 mm (3.9 × 5.3 in.)
- Coil diameter: 95 mm (3.7 in.)
- Voltage: 200–240 V/50–60 Hz, TIH 030m/230V
- Standard yokes (included) to suit bearing/work-piece minimum bore diameter: 65 mm (2.6 in.); 40 mm (1.6 in.); 20 mm (0.8 in.)
- Maximum power consumption: 2.0 kVA
- Coil diameter: 95mm
- Temperature control: 20-250 °C
- Control time: 0-60minutes
- Maximum temperature: 400 °C
- Dimensions (w × d × h): 460 x 200 x 260mm
- Preferable make: Part no *TIH 030m/230V*

***Other features:***

- High heating capacity of up to 40 kg bearing

		<ul style="list-style-type: none"> <li>• Compact lightweight design; just 21 kg (46 lb), facilitating portability</li> <li>• Capable of heating a 28 kg (62 lb) bearing in just 20 minutes</li> <li>• Supplied standard with three yokes, allowing bearings with a bore diameter from 20 mm (0.8 in.) up to a maximum weight of 40 kg (90 lb) to be heated.</li> <li>• Induction coil located outside the heater's housing enables a shorter heating time and lower energy consumption</li> <li>• Foldable bearing support arms allow larger diameter bearings to be heated, and reduce the risk of the bearing toppling during heating.</li> <li>• Magnetic temperature probe, combined with a temperature mode pre-set at 110 °C (230 °F), helps prevent bearing overheating.</li> <li>• Unique remote control, with operating display and control panel, makes the heater easy and safe to use.</li> <li>• Internal yoke storage, for smaller yoke(s), reduces the risk of yoke damage or loss.</li> <li>• Integrated carrying handles allow for easy movement of the heater in the workshop.</li> </ul>
3	<p>The technical requirements on the technical specifications state that The manufacturer shall give a warranty of not less than one year after testing at site of the Electrical motors, while the Technical evaluation table for the Motors states that the warranty shall be 2 years after commissioning. Please Clarify how many years Warranty should be provided by the Manufacturer</p>	<p>The Manufacturer shall provide a <b>Warranty of One year</b> after testing.</p>
4	<p>Technical drawings for Schedule B: 90KW Cooling Tower fan motors have not been provided on the Tender document nor on Addendum 1. Please clarify on the existing motor drawings required</p>	<p>The Frame number of the existing motor has been provided on the Specifications. The drawings attached by the bidders shall be compared with what is available on site. A photo of the nameplate of existing motor is provided below</p>
5	<p>The space Heaters and Thermistor details for Item 3; Oil vapour extractor and Item 4; EHC pump motor have not been provided. Advise if you require them and provide their technical specifications</p>	<p>Both Motors have in-built space heaters and Thermistors  <u>EHC oil pump</u>  Thermistors; 2-wire, 1 pc per phase with a max temp rating of 180deg.  Space Heaters; 240V, 38W  <u>Vapour extractor</u>  Thermistors; 2-wire, 1 pc per phase with a max temp rating of 180deg.  Space Heaters; 240V, 11W</p>

**SUPPLIER ACKNOWLEDGEMENT OF CLARIFICATION NO.2**

We, the undersigned hereby certify that the Clarification No.2 is an integral part of the document and the alterations set out in Clarification has been incorporated in the Tender Proposal.

Signed.....

Tenderer.....

Date.....