



KENYA ELECTRICITY GENERATING COMPANY PLC

TENDER No. KGN- GOGO-01-2019

**TENDER FOR SUPPLY, INSTALLATION & COMMISSIONING OF 10T OVER HEAD ELECTRIC CRANE AT GOGO POWER STATION**

**Date: 15<sup>th</sup> April, 2019**

**CLARIFICATION No. 1**

In accordance with the “Tender For Supply, Installation & Commissioning Of 10T Over Head Electric Crane at Gogo Power Station” KenGen hereby issues **Clarification No. 1**.

|   | <b>Inquiry</b>   | <b>Clarification</b>  |
|---|------------------|---|
| 1 | Crane Location   | Indoor  |
| 2 | Crane type       | Single Girder (Double Girder acceptable) Electric Operated                        |
| 3 | Crane Capacity   | 10 Ton (Metric)   |
| 4 | Total Height     | ≤20,000 mm  |
| 5 | Lifting height   | ≤20,000 mm  |
| 6 | Span             | 7,160 mm  |
| 7 | Long Travel      | 24,000 mm   |
| 8 | Operation system | Pendant   |
| 9 | Duty hours       | Class C, Moderate Service as per Crane Manufactures Association of America (CMAA) |

**SPECIFICATION FOR 10t OVERHEAD ELECTRIC CRANE**

|    |                  |   |   |
|----|------------------|---|---|
| 1. | Performances     | Lifting capacity up                                     | 10t (metric)                                    |
|    |                  | Type of suspension                                      | Motorized trolley and bridge                    |
|    |                  | Height of lift  | ≥20m  |
|    |                  | Hoisting speed  | Dual speed                                      |
|    |                  | Duty of hoist   | Class II, indoor                                |
| 2. | Control system   | 2-speed contactor controller                            | Use for hoisting, bridge and trolley traversing |
| 3. | BRIDGE           | Material Construction                                   | Heavy duty material                             |
|    |                  | Dimension   | Wheel to wheel centerline - 7160mm              |
|    |                  | Transverse rail (Installed)                             | Wheels to fit on the existing rail              |
|    |                  | Wheels  | Wheels to fit on the existing rail              |
| 4. | Safety           | All motors  | Thermal protection                              |
|    |                  | Mechanical overload protection                          | Overload protection                             |
|    |                  | Hoisting limit switch                                   | Over lifting and over lowering                  |
|    |                  | Backup limit switch                                     | Gravity /counterweight limit switch             |
|    |                  | Upper Limit for hoist                                   | Block operated upper limit switch               |
|    |                  | Limit switch for trolley and bridge travel              | Both sides                                      |
| 5. | Speeds           | Hoisting speed (dual speed)                             | 3.5-8.5m/min & 0.4-1.6m/min                     |
|    |                  | Trolley traversing (dual speed)                         | 6 - 20m/min & 2-6m/min                          |
|    |                  | Bridge transverse ( dual speed)                         | 15- 45m/min & 4-12m/min                         |
| 6. | Operating system | Push button pendant suspended on steel with link chain. | ON/OFF Indicating lamps                         |
|    |                  | Pendant cable length                                    | 20 METRES                                       |
| 7. | Motors           | Phase   | 3phase  |
|    |                  | Hertz   | 50hz±5%   |
|    |                  | Voltage   | 415V±10%  |
|    |                  | Enclosure   | Totally enclosed                                |
|    |                  | Insulation  | Class F   |
|    |                  | Cooling   | Fan cooled                                      |
|    |                  | Duty  | Induction motor                                 |
|    |                  | Starting  | Suitable for frequent starting                  |

|     |                    |   |  |
|-----|--------------------|---|--|
| 8.  | Hook               | Trunnion style block and hook, hook rotate 360° | Hook rotates 360°, fitted with safety latch. |
| 9.  | Hoist brake        | Brake design                                    | Electro-magnetic                             |
| 10. | Control panel      | IP 55 degree of protection                      | IP55   |
| 11. | Trolley dimensions | Manufactured to conform to IS: 2062             | Manufactured to conform to IS: 2062          |

**ACKNOWLEDGEMENT OF CLARIFICATION No.1**

We, the undersigned hereby certify that the clarification is an integral part of the document and the alterations set out in the clarification have been incorporated in the tender proposal.

Signed.....

Tenderer.....

Date.....