



KENYA ELECTRICITY GENERATING COMPANY PLC

KGN-NGONG-003-2024

RFx: 5000014938

**TENDER FOR THE DESIGN, SUPPLY, INSTALLATION, TESTING AND
COMMISSIONING OF TRANSFORMER DELUGE FIRE PROTECTION
SYSTEM FOR NGONG**

(Open National)

Date: 22nd April 2024

Addendum No. 3

In accordance with the **Tender for the Design, Supply, Installation, Testing and Commissioning of Transformer Deluge Fire Protection System for Ngong**, KenGen issues Addendum No. 3 as follows:

1. CHANGES & ADDITIONAL INFORMATION:

The site layout drawing is now provided. Please check on our website under drawings section

**1.1 WATER SUPPLY LINE FROM OVERHEAD TANK TO 40,000 LITRE
FIRE SYSTEM WATER STORAGE TANK:**

- a. The pipe connection from the Overhead Tank Main Water Storage Tank be changed from 75mm Galvanized Pipe to 3” HDPE PN 20 pipe
- b. The 50,000 litre overhead tank will be availed but the contractor will be expected to provide for connection to the existing 3” discharge point at 10m above ground
- c. The length of the water supply pipework from the Overhead Tank to 40,000 Litre storage tank is approximately 260m.
- d. The buried water supply pipe should be at least 2ft from ground level and line route should have sufficient concrete location markers above ground (at 20m intervals).
- e. Isolation valve for the water supply must be provided at the Overhead tank at ground level and at the discharge point to the 40,000 Litre fire Water tank

- f. The 40,000 Litre Fire water tank must have provision for a float valve (to shut when full) and overflow line

1.2 PUMP HOUSE, AND WATER STORAGE

- a. The fire pump house, its control panel and 40,000 litre tank, shall be located at a location just outside the fenced areas indicated on the site layout drawing (as indicated)
- b. The fire pump house shall have a slightly slopping flat concrete roof (not iron sheet roof) with an appropriate provision of water drainage.
- c. The outlet pressure for the fire dousing system with hydrant is hereby increased from 500 Litre/min to 2000 Litres/min
- d. The fire pump house shall be of minimum dimensions 10ft by 10 ft. and 10ft high. The Pump House shall have adequate man space for maintenance and inspection works in future.
- e. The fire system shall not include a standby pump but piping provision for a standby system should be provided complete with a powered control panel. Provision for change over to the standby must be provided.
- f. 415V Power supply for the pumps shall be from the MVAC room and shall be routed to the pump house via existing underground trunking as much as possible but provision for last mile excavations to reach the pumphouse must be made. Power supply rating is 415V Breaker, 100A.
- g. Approximate signals and power supply cabling distance from the pumphouse to the MVAC room is 100m.

1.3 FIRE SYSTEM PANEL, CONTROL AND SCADA

- a. The fire panel shall be located next to the existing fire panel inside the office building corridor with a siren provision in case the system activation.
- b. A dedicated Fire system Desktop computer shall be provided to be located at the Gamesa Control room. The computer shall have an appropriate SCADA software to provide status of the substation fire system with provision for manual or auto control with suitable graphics on display monitor.
- c. SCADA Communication cabling from the fire panel to the Gamesa Control room shall be via existing underground trunking. Approx.. length 100m.
- d. Existing Cable Layout Drawings at the substation and to the Gamesa control room is provided. Please check on our website under drawings section.

SUPPLIER ACKNOWLEDGEMENT OF ADDENDUM No.3

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

Signed.....

Tenderer.....

Date.....