



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: 9th April 2024

Clarification No. 1

In accordance with the **Tender for the Design, Supply, Installation, Testing and Commissioning of Transformer Deluge Fire Protection System for Ngong**, KenGen issues Clarification No. 1 as follows:

No.	REQUEST FOR CLARIFICATION	KENGEN'S RESPONSE
A	DRAWINGS	
1	Request for site layout drawing with dimensions. This will help to harmonize and quantify the amount of the following works.	Drawing not available. However, there shall be a second Mandatory Site Visit on 16th April 2024 at Ngong Wind Farm starting at 10.00 a.m. as per addendum No. 2 Bidders are encouraged to attend and confirm this physically
2	Exact No. and distance of road works i.e., excavations & making good.	No road works required. Excavations for piping should be standard 600mm deep by 600mm wide and back filling done.
3	Identify the exact point of Pump House & 40000lts pressed tank. (The exact point was not provided during the site visit)	Bidders are encouraged to attend the second site visit on 16th April 2024 at Ngong Wind Farm starting at 10.00 a.m. for this to be clarified.
4	Pipework & associates works from the existing elevated tank to the 40000lts tank and from the deluge system tank to respective TX(I,II & III).	Bidders are encouraged to attend the second site visit on 16th April 2024 at Ngong Wind Farm starting at 10.00 a.m. for this to be clarified.
5	What are existing services below the surface?	11kV Cables but the excavation is navigating those cables.
B	FIRE PUMP STANDARD	
6	Clarify the fire Pump Standard (NFPA 20/ EN 12845 / BS14710).	Diesel engine driven pump is not necessary (not included) because the station has a diesel generator to support the system in case of power failure.

	If the standard selected above includes an Engine Driven Fire Pump to meet the standard requirement, Do we add or just offer Electric Pump + Jockey as is currently on the bid Specs.	<i>Just offer the Electric Pump & Jockey Pump as indicated in the specifications</i>
C	SCADA LOCATION	
7	Kindly identify the location of the SCADA where the system control signal will be linked as require in the bid.	The SCADA location is approximately 100 metres from the designated pump house location. More clarification shall be done during the second site visit.
8	Also Clarify if the linking assorted works involves the following. * Earth works i.e excavations & making good for signal cabling connection from the system control panel at the pump house to premise hosting the SCADA. * Interior cabling at the SCADA premise : are the exiting trunking/duct for signal to pass through or surface trunking will be allowed?	<ul style="list-style-type: none"> • Earth Works, Excavations shall be done for the cabling from the pump house to the SCADA hook up/termination. • You shall be required to carry out standalone trunking unless otherwise advised during implementation phase. <p>Bidders are encouraged to attend the second site visit on 16th April 2024 at Ngong Wind Farm starting at 10.00 a.m for this to be clarified.</p>
D	EXPLOSION PROOF DEVICES	
9	Clarify if the detection and control devices & Hose cabinet should be explosion proof.	Yes, they should be explosion proof
E	WEATHER PROOF DEVICES	
10	Clarify if the field detection and control devices should be all weather proof.	Yes, they should be weather proof.
F	PUMP HOUSE	
11	Clarify the materials of the pump house i.e., civil type (concrete/ mason stone wall) or metallic shed? If Civil, provide the wall thickness, concrete class of foundation & Plinth, High of ventilation & type, window & door size, type of doors (fire doors standards). Also, the class of pressed steel tank foundation and type of soil at the site.	<ul style="list-style-type: none"> • Pump house – mason stone wall of 230mm (9”) thick with iron sheet room. minimum wall height is 10ft (Refer to page 81 of the tender document). • Concrete class of foundation/plinth – C20 • Ventilation – natural ventilation should be provided starting from 4ft above foundation and runs through to the ring beam level of the door and windows. <i>Note that the ventilation should be Louvre type (find attachment below – for windy area application).</i> • Window – ordinary with grill and glass but symmetrical to the size of the pump house. The size should be 5ft wide by 4ft high. • Door – Single standard door made of steel symmetrical to the size of the pump house. Should be 8ft high and 4ft wide. • Class of pressed steel tank foundation – use concrete class C25. • Type of soil – red volcanic soil (we don’t have test results)
G	ROAD WORKS	
12	What strength is desire if the works will affect existing roads?	Not applicable

H	WATER HYDRANT EQUIPMENT Clarify the type of hydrant equipment required as listed below.	
13	Delivery Hose nozzle type : Basic nozzles / AWG Hand Control / Selectomatic type?	Selectomatic
14	Does the system incorporate Manual fire monitor in the hydrant line?	No
15	Delivery Hose type: canvas / Rubber line?	Canvas
I	BIDDING CLOSING DATE	
16	We request you to please consider extending the bid closing date from 10th April 2024 to 24th April 2024, this will give us ample time to prepare our response documents after having received the answers to the above questions from your end	Extension of tender closing date granted to. 3rd May 2024 at 10.00 a.m. as per addendum No. 2.
17	As this is Tender has a design component We kindly request an extension of 6 weeks in order for our Designer to give a tentative design and our suppliers to provide competitive quotes	Extension of tender closing date granted to. 3rd May 2024 at 10.00 a.m. as per addendum No. 2.
18	We request the client to share site layout drawings for Hydraulic and Power calculations	Bidders are encouraged to attend the second site visit on 16th April 2024 at Ngong Wind Farm starting at 10.00 a.m on for this to be clarified.
19	Will you require one diesel pump with one electrical pump and one jockey pump to have a complete Diesel day tank Standby as per NFPA20	KenGen has a standby Generator which will serve the pumps in case of power outage so there is no need of this.

Figure 1, Louvre Type Ventilation



SUPPLIER 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 document.

Signed.....

Tenderer.....

Date.....