KENYA ELECTRICITY GENERATING COMPANY PLC

RFx: 5000016523

TENDER FOR SUPPLY AND INSTALLATION, OF 11KV INDOOR METAL CLAD SWITCHGEAR PANEL & UNDERGROUND CABLE FOR KIPEVU III POWER STATION

(CITIZEN CONTRACTORS)

KGN-KIP-005-2025

27th March 2025

ADDENDUM No. 3

In accordance with the Procurement of **Tender for Supply and Installation, of 11KV Indoor Metal Clad Switchgear Panel & Underground Cable for Kipevu III Power Station**.

KenGen hereby issues **Addendum No. 3**

EXTENSION OF TENDER CLOSING DATE

INITIAL TENDER CLOSING DATE	REVISED TENDER CLOSING DATE
Tender Closing Date: ~~2nd April 2025 at 10.00 a.m.~~ Tender Opening Date: ~~2nd April 2025 at 10.30 a.m~~	Tender Closing Date: 9th April 2025 at 10.00 a.m. Tender Opening Date: 9th April 2025 at 10.30 a.m

SCHEDULE II- SUPPLY, INSTALL, TEST AND COMMISIONING 11KV UNDERGROUND CABLE AT KIPEVU III POWER STATION

The following additional specifications have been provided for the cable design and installation works

a) Cable Installation Depths

The cable shall be to the stated minimum depths of cover, where the depth shall be measured to the top surface of either the cable or the duct containing the cable.

The Cables and any ducts used shall never be installed at increased depths unless there is no other alternative, as increased depth reduces a cables rating.

In instances where these minimum depths cannot be achieved, the cables shall be installed with additional mechanical protection, in the form of either steel plates or steel ducts. In case of use of Steel ducts, they shall be of the same internal diameter as the plastic ducts, normally used for the 11kV cable to be installed and shall have a smooth internal bore with no internal welds or burrs.

The 11kV cable shall be installed to the following minimum depths, whether it is laid direct or installed in suitable ducts:

i. Footways, grass verges or private property = 800mm.

ii. Carriageways (including road crossings) = 1200mm.

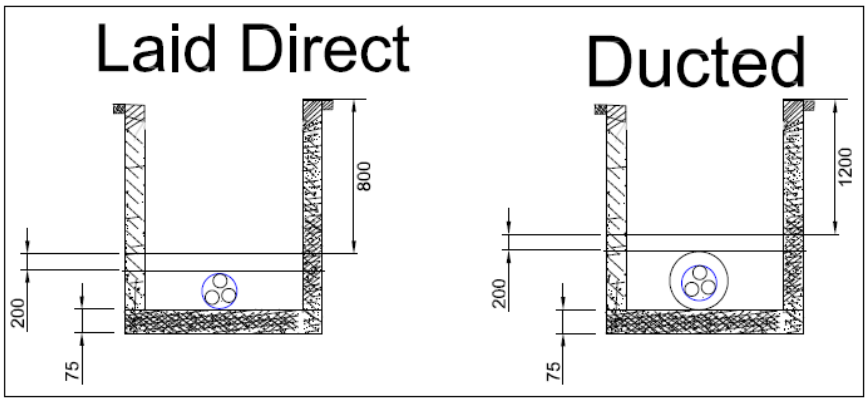


Figure 1: Cable trench layout

b) Trench Bedding

For the 11kV cable installation, a sand bedding material shall be used for the base of the trench, the depth of the trench shall be increased by the appropriate amount to ensure that the required minimum depth of cover is achieved. The bedding layer shall be compacted to a depth of 75mm and shall be installed covering the full width of the trench. The trench depth shall be increased to ensure that the required minimum depth of cover is maintained.

c) Cable Ducts

The cable shall only be installed into electricity cable ducts, where applicable. The cable ducts shall be black in colour and marked 'Electric Cable Duct' on two diametrically opposite sides. The Cable shall only be installed in ducts that are suitable sized to accommodate it, the allowable minimum duct Internal Diameter is 150mm.

All cable duct joints shall be installed in accordance with the manufacturers' instructions or recommendations and should be installed in such a way to prevent those damaging cables as they are installed. All cable ducts and tubes entering substations or buildings shall be sealed with the appropriate duct seal, to prevent the ingress of gas and water, even if the ducts do not contain a cable.

d) Cable and Duct Warning Signs

The cable and the ducts shall be protected through use of plastic Tile Tapes. The tile tape shall at a minimum be 200mm by 2.5mm (width x Thickness), laminated with a clear and distinctive warning that can alert future excavators of the presence of the buried cable. The tape shall be placed at least 200mm from the top of the cable or duct.

Figure 2: Cable and duct warning

e) Cable location devices

The contractor shall provide and employ the rated cable locating devices (e.g., ground penetrating radar, cable finders) to accurately locate and mark the position of Low, Medium, and High Voltage underground cables.

REVISED TECHNICAL EVALUATION

STAGE 2: TECHNICAL EVALUATION ON CAPACITY TO DELIVER THE CONTRACT

Technical evaluation shall be carried out only if the tender is determined to be responsive to the preliminary examination. Bidder must demonstrate conformance to ALL technical specifications and requirements as per section V of the tender document, and as tabulated below.

No	Requirements	Tenderer's response (PASS/FAIL)
TR 1	The Bidder must demonstrate conformance to all the technical specifications and requirements through duly filled Schedule I Technical Schedule- 11kV Indoor Metal Clad Switchgear panel. **"Yes" or "Compliant", only-answers for descriptive responses will be considered non-responsive.**	
TR2	The Bidder must attach the manufacturer warranties for the following equipment: i. Switchgear Panel- Metallic enclosure complete with busbars and earth Switch ii. Circuit Breaker iii. Voltage Transformer iv. Current Transformer v. Multifunction Protection Relay	
TR 3	The Bidder must attach the relevant brochures/Technical Data Sheets for the following: i. Switchgear Panel- Metallic enclosure ii. Busbars iii. Earth switch iv. Circuit Breaker v. Voltage Transformer	

No	Requirements	Tenderer's response (PASS/FAIL)
	vi. Current Transformer vii. Multifunction Protection Relay viii. Energy Measurement device i. Ammeter ii. Voltmeter iii. Control devices	
TR 4	Bidder must submit Test Certificates for the following: i. Switchgear Panel- Metallic enclosure complete with busbars and earth switch ii. Circuit Breaker iii. Voltage Transformer iv. Current Transformer v. Multifunction Protection Relay vi. Energy Measurement device vii. Ammeter viii. Voltmeter	
TR 5	Bidder must demonstrate conformance to all the technical specifications and requirements through duly filled Schedule II Technical Schedule- 11kV Underground Cable. **"Yes" or "Compliant", only-answers for descriptive responses will be considered non-responsive.**	
TR 6	Bidder must attach the manufacturer warranties for the following equipment: i. 11kV Underground Power cable	
TR 7	Bidder must attach the relevant brochures/Technical Data Sheets for the following: i. 11kV Underground Power cable ii. Cable termination Kit and Management accessories	
TR 8	Test Certificates for the following: i. 11kV Underground Power cable ii. Cable termination Kit	
TR 9	Bidder to submit a detailed training proposal as per the requirements in the technical schedule	
TR 10	Contractor Qualification EPPRA Licensed Contractor Class A1- Attach evidence	
TR 11	Provide duly filled Project Work Schedule	

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 clarification has been incorporated in the tender proposal.

Signed ……Date ……

Tenderer ……Rubber Stamp……

Appendix I: Cable and Other services Layout

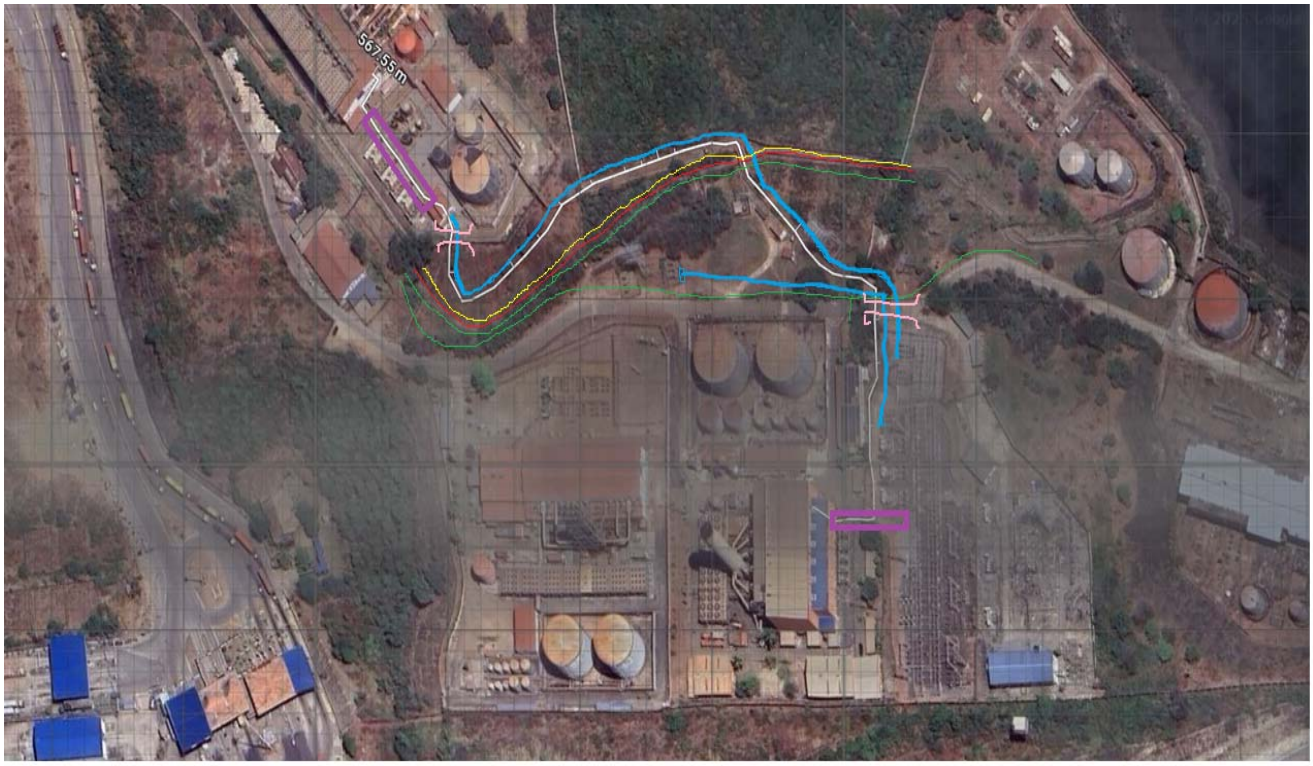
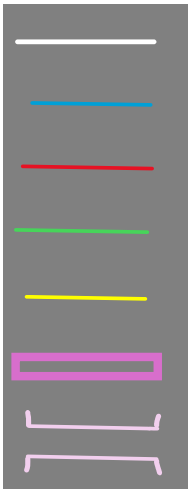


Figure 1: Cable and Other Services layout map (Source Google Maps)

Legend:



New 11kV Underground 132kV cable, buried approximately 0.8m

Underground 132kV cable, buried approximately 0.9m.

Oil pipeline, buried at approximately 1.2m

Fibre optic cable buried approximately 0.6m

Oil pipeline surface laid

Existing trenches new 11 kV to use these trenches where possible.

Cabro road crossing

NOTES:

1. Contractors shall take adequate precautions to protect other service lines existing. Any damage arising from the works of the contractor shall be made good at the cost of the contractor.
2. Affected services e.g., roads shall be returned to their former state by the contractor at the contractor's cost to the satisfaction of the client.
3. Contractor shall submit as built cable map layout after commissioning before payments are made.
4. For road crossing, cable shall be laid in a duct observing 1.2m length from the duct; the approximate road width is 9m.