

Notice to all Bidders.

**TENDER ADDENDUM AND CLARIFICATION No. 2 (TAC 2)**

**RE: Procurement of Plant Design, Supply, and Installation Services for Extension of Existing 132/33 kV Narok and Bomet Substations (KETRACO-PT-001-2024-LOT 2B)**

The following amendments are made to the specified provisions for the bidding documents for procurement of Plant Design, Supply, and Installation Services For Extension of Existing 132/33kV Narok and Bomet Substations (KETRACO-PT-001-2024-LOT 2B).

Save where expressly amended by the terms of this clarification, the Principal Tender Document shall continue to be in full force and effect.

Find herein Tender Addendum and Clarification No. 2, consisting of ninety-one (91) pages into the Principal Tender Documents as attached. This document should be returned along with dully filled Form of Tender.

All other terms and conditions of the Bidding document remain the same.

  
**PETER NJEHIA**  
**SENIOR MANAGER, SUPPLY CHAIN**

Tender Addendum and Clarification No. 2 of KETRACO/PT/001/2024-Lot 2B has been received and incorporated in the Tender Documents.

**Name of Tenderer (in \_\_\_\_\_  
block letters):**

**Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Signed for the Tenderer  
by (Name in block letters):** \_\_\_\_\_

**In the office bearer  
capacity of:** \_\_\_\_\_

## A. Addendum No. 2

1. The documents required to be submitted with the bid stated in **ITB 11.1** of Section II Bid Data Sheet has been amended as follows:-

ITB 11.1 (l)	<p>The Bidder shall submit the following additional documents in its Bid:</p> <p><i>Duly filled Price Schedules, The Project Schedule and all Technical Schedules with detailed information of offered materials and equipment, in which all required information, shall be filled completely as specified in the Tender documents.</i></p> <p><i>Documents that prove experience and eligibility for registration with NCA class 1 category. The winning bidder must provide evidence of successful registration upon issuance of notification of award and before contract signing.</i></p> <p><i>Comprehensive outage plan method statement demonstrating how to minimize the shut down time for implementation of the requisite activities for completion of works including but not limited to demolitions, displacements and/or new erections / installations, testing et c in view of the busbar reconfiguration from the current single bus arrangement to a double bus. Bidders have to demonstrate in their method statement that they are technically able to implement the project with minimal outage and in the most efficient way while allowing for power flow through the substation to the distribution feeders as works progress.</i></p> <p><i>Method statement clearly demonstrating completion of the requisite line termination gantries and applicable busbar(s) ahead of time in readiness for the transmission line Contractor to terminate the line.</i></p> <p><i>Copies of Type Test Reports and technical documents (catalogues, brochures, drawings) of each major equipment offered shall form part of the bid. Copies of Type Test Reports shall meet the following requirements:</i></p> <ol style="list-style-type: none"><li><i>a. All equipment being supplied shall conform to Type Tests as per Technical Specifications. Type test reports shall be carried out by an accredited laboratory independent from the manufacturer based on ISO/IEC Guide 25/17025 and the test reports submitted shall be of the tests conducted within last 10(ten) years to the date of bid opening.</i></li><li><i>b. Results of type tests shall have been conducted within the last ten years prior to the date of tender submission. The bidder shall submit contact details (Title, email and fax) of certifying laboratory.</i></li></ol>
--------------	---



- c. *Testing materials and equipment in Type Test Reports shall have the same code/ country/ manufacturer and technical parameters as offered materials and equipment. Type tests of non-conforming materials/equipment shall not be accepted.*
- d. *Type test reports shall include all items tested and results confirming that they meet the requirements of applied standards as stipulated in Tender Documents.*

#### **Code of Conduct for Contractor's Personnel (ES)**

The Bidder shall submit its Code of Conduct that will apply to the Contractor's Personnel (as defined in GCC Sub- Clause 1) employed for the execution of Installation Services (defined in GCC Sub- Clause 1) at the Site (or other places in the country where the Site is located), to ensure compliance with the Contractor's Environmental and Social (ES) obligations under the Contract. The Bidder shall use for this purpose the Code of Conduct form provided in Section IV. No substantial modifications shall be made to this form, except that the Bidder may introduce additional requirements, including as necessary to take into account specific Contract issues/risks.

#### **Management Strategies and Implementation Plans (MSIP) to manage the (ES) risks**

The Bidder shall submit Management Strategies and Implementation Plans (MSIPs) to manage the following key Environmental and Social (ES) risks:

- *Construction Environmental and Social Management Plan (C-ESMP)*
- *Management Strategies and Implementation Plans (MSIP), including:*
  - *Employee Code of Conduct*
  - *Safety and Health Plan*
  - *Gender Based Violence (GBV), Sexual Exploitation, and Abuse (SEA), Sexual Harassment (SH) prevention and response action plan*
  - *Chance Find Procedure*
  - *Management and Safety of Hazardous Materials*
  - *Resource Efficiency and Pollution Prevention and Management*
  - *Road Safety and Traffic Management Plan*
  - *Waste Management Plan*
  - *Labor Influx and Labour Management Plan*
  - *Emergency Preparedness and Response Plan,*

	<ul style="list-style-type: none"> <li>• <i>Stakeholder Engagement and Community Relations Plan</i></li> <li>• <i>Community Health and Safety and Security Plan</i></li> <li>• <i>Occupational Health and Safety Plan</i></li> <li>• <i>Child Protection Strategy</i></li> <li>• <i>HIV/AIDs Prevention Strategy</i></li> <li>• <i>Grievance Management Plan and Procedures</i></li> <li>• <i>Security Plan</i></li> </ul> <p><i>The prepared Plans at minimum will be consistent with the project prepared and disclosed ESIA, National laws and regulations, and the AfDB Integrated Systems (ISS)</i></p>
--	--

2. **Section IV:** Schedule of Rates and Prices (Price Schedules) have been revised and replaced. Refer to attached revised Price schedules for 132kV Bomet and Narok Substations. Bidders are required to fill in the new Price Schedules as these reflect all the changes made by the Employer in line with this Tender Addendum and Clarification.
3. **Section VII: Part 2-E-2 and Part 2-E-3: Schedules of Technical Information** for Narok and Bomet Substations respectively have been revised and replaced. Refer to attached revised Technical Schedules. Bidders are required to fill in the new Technical Schedules as these reflect all the changes made by the Employer in line with this Tender Addendum and Clarification.
4. **Section III - Evaluation and Qualification Criteria** Clause 2.2 (c) has been revised as follows:-

c. **Functional Guarantees of the Facilities**

The evaluation will be based on the losses indicated by the Contractor in the Guaranteed Technical Schedules.

The total capitalized cost of the losses will be added to the cost of transformers for comparing bids.

The cost of guaranteed power transformer no-load and load losses will be added to the transformer price, and the evaluated transformer cost will be calculated as per the following formula:

$$C_{Tev} = C_T + (L_n \times C_{Ln}) + (L_L \times C_{LL})$$

Where:

- $C_{Tev}$  = The evaluated cost of the transformer;
- $C_T$  = The cost of the transformer as indicated in the Schedule of Rates and Prices;
- $L_n$  = The no-load losses in kW, as indicated in the Schedule of Guaranteed Technical Characteristics;
- $L_L$  = The load losses in kW, at continuous maximum rating, as indicated in the Schedule of Guaranteed Technical Characteristics;

- $C_{Ln}$  = The cost per kW of no-load losses, that is USD 9,000 /kW;
- $C_{LL}$  = The cost per kW of load losses, that is, USD 4,000 /kW.

#### Specific additional criteria

The evaluation method, shall be as follows:

i. Evaluating transformer rating.

	Description	Required	For the purposes of evaluation an adjustment as calculated below will be added to the tender price.
1.	132/33kV Power Transformer - Rated power at site conditions (ONAN/ONAF)	23 MVA	Transformers with a rated power less than 2.5% of the required power rating will be rejected.  KSh 40,000/KVA for one percent (1%) or pro-rata for less than one percent drop in the above figure.
2	Transformer losses	<p>132/32 Power Transformer</p> <p>a. Maximum no load losses: 12 KW</p> <p>b. Maximum load losses at 75°C and rated frequency:</p> <ul style="list-style-type: none"> <li>▪ ONAF rated power (23MVA) and principal tapping- to be proved by test and calculation: 100 (Max) at 23MVA Base</li> </ul> <p>Auxiliary Transformer</p> <p>a. Max. No Load Losses :0.65 kW</p> <p>b. Max. Load Losses: 3.0 kW</p>	<p>Transformers with losses 2.5% above the required losses will be rejected</p> <p>After factory acceptance tests of transformers, in case of the tested load loss and no-load loss values differ from the guaranteed ones, the below penalties and be deducted from the Contract Price. Any values of 0.5 kW and above will be rounded up to the next full kW.</p> <p>- No Load: USD 9,000 / kW</p> <p>- Load Loss: USD 4,000 / kW</p>

5. Section X: Appendix 8 **Clause 4.4** and **clause 4.5** have been revised as follows:-

#### 4.4 During the Factory Acceptance Test for Transformers

During the Factory Acceptance Test, there shall be a penalty for each full kW of Transformer Losses (No Load Losses, on Load Losses and auxiliary power losses) and Noise level that exceed the values guaranteed as below:

(a) Transformers Losses

(i) No Load Losses: If the no load losses of a transformer exceed the guaranteed value, by more than the margins specified hereunder, a penalty as specified for each full kW in excess of the guaranteed value will be deducted from the Contract Price. The penalty will be 9,000 USD/kW. Any values of 0.5 kW and above will be rounded up to the next full kW.

(ii) On Load Losses: If the on-load losses (applies to auxiliary power losses as well) of a transformer exceed the value guaranteed, by more than the margins specified hereunder, a penalty as indicated for each full kW in excess of the guaranteed value will be deducted from the Contract Price. The penalty will be 4000 USD/kW. Any values of 0.5 kW and above will be rounded up to the next full kW.

#### Rejection of the Transformers

The Employer shall have the right to reject any transformer (after Factory Acceptance Test) if the actual values are in excess of the guaranteed values by more than the margins specified hereunder:

(a) No-load losses: + 2.5%

(b) Load-losses (forced cooling) : + 2.50%

(c) Total losses: + 2.5%

(e) Temperature rise limit resulting in rated: +0.0 K output.

For all other values, the margins stated in the IEC standards are applicable, unless specified otherwise elsewhere in these specifications. The values for all insulation and test levels shall be obtained from the description of the general technical requirements of these specifications.

#### 4.5 Limitation of Liability

Subject to para. 4.3 above, the Contractor's aggregate liability to pay liquidated damages for failure to attain the functional guarantees shall not exceed \_\_\_\_\_ percent (\_\_\_ %) of the Contract price.

#### 6. Section X: Contract agreement *Article 2: Clause 2.2 Terms of Payment* has been revised as follows: -

##### 2.2 Terms of Payment (Reference GCC Clause 12)

The terms and procedures of payment according to which the Employer will reimburse the Contractor are given in the Appendix (Terms and Procedures of Payment) hereto.

7. Section X: Contract agreement Article 3: Cl. 3.1 Effective Date has been revised as follows: -

Article 3. 3.1 Effective Date (Reference GCC Clause 1)

**Effective Date** The Effective Date from which the Time for Completion of the Facilities shall be counted is the date when all of the following conditions have been fulfilled:

(a) This Contract Agreement has been duly executed for and on behalf of the Employer and the Contractor;

(b) The Contractor has submitted to the Employer the Performance Security and the advance payment guarantee;

(c) The Employer has paid the Contractor the advance payment

Each party shall use its best efforts to fulfill the above conditions for which it is responsible as soon as practicable.

3.2 If the conditions listed under 3.1 are not fulfilled within two (2) months from the date of this Contract notification because of reasons not attributable to the Contractor, the Parties shall discuss and agree on an equitable adjustment to the Contract Price and the Time for Completion and/or other relevant conditions of the Contract.

8. **Section VII:** Employers Requirements – Contractor's representative and Key personnel has been revised as follows:-

**Contractor's Representative and Key Personnel**

*Contractor's representative and other key personnel for Narok and Bomet substations*

No.	Position	Requirements			
		Minimum Educational Degree	Total Work Experience (years)	Experience In Similar Work (years)	Special experience

P1	Contractor's Representative	Master's degree level with a Bachelor's degree in civil/mechanical/electrical engineering	20	15	Project management experience in at least 3 (three) 132 kV (and above) substation projects, among which at least 1 (one) shall be in Africa.
P2	Construction Manager and Site Supervisors				
	• Construction Manager	Master's degree level with a Bachelor's degree in electrical/mechanical/civil/Structural Engineering	15	10	Construction management experience in least 3 (three) 132 kV (and above) substation projects, among which at least 1 (one) shall be in Africa
	• Site Supervisor for Civil and structural Works(*)	Bachelor's degree in civil/ Structural Engineering	10	7	Site supervision experience in at least 3 (three) 132 kV (and above) substation projects
	• Site Supervisor for Electro-Mechanical works(*)	Bachelor's degree in Electrical/ civil/ Structural Engineering	10	7	
	• Site Supervisor for Testing and Commissioning(*)	Bachelor's degree in electrical Engineering	10	7	
P3	Project Planner	Bachelor's degree in construction management or engineering related field	10	7	Project planning experience in at least 3 (three) 132 kV (and above) substation projects, among which at least 1 (one) shall be in Africa
P4	Substation specialist				



	<i>Electrical primary design specialist</i>	<i>Bachelor's degree in electrical engineering</i>	<i>15</i>	<i>10</i>	<i>Substation designing experience in at least 3 (three) 132 kV (and above) substation projects</i>
	<i>Electrical secondary design specialist</i>	<i>Bachelor's degree in electrical engineering</i>	<i>15</i>	<i>10</i>	
<i>P5</i>	<i>Civil/Structural Design specialist</i>	<i>Bachelor's degree in civil/ Structural Engineering</i>	<i>15</i>	<i>10</i>	<i>Substation designing experience in at least 3 (three) 132 kV (and above) substation projects</i>
<i>P6</i>	<i>Social safeguards specialist(*)</i>	<i>Bachelor's degree in sociology, Development studies, community development or relevant field</i>	<i>10</i>	<i>8</i>	<i>Social safeguards experience in at least 3 (three) 132 kV (and above) transmission line or substation projects, among which at least 1 (one) shall be in Africa. Demonstrated experience in implementation or supervision of large-scale infrastructure projects funded by AfDB or an equivalent financial intermediary (e.g. the World Bank, IFC etc.). The projects needs to be of similar complexity with experience on children and women's right, community engagement, gender based violence prevention,</i>



					<i>addressing sexual exploitation, sexual abuse and sexual harassment cases etc.</i>
P7	<i>Safety, Health, and Environment specialist(*)</i>	<i>Bachelor's degree in environmental science, Occupational Health and Safety, Environmental Engineering, or relevant field</i>	10	8	<i>HSE experience in at least 3 (three) 132 kV (and above) transmission line or substation projects, among which at least 1 (one) shall be in Africa. Demonstrated experience in implementation or supervision of large-scale infrastructure projects funded by AfDB or an equivalent financial intermediary (e.g. the World Bank, IFC etc.). Must be a NEMA registered expert with a valid practicing license.</i>
P8	<i>Surveyor(*)</i>	<i>Bachelor's degree in surveying/ geomatic engineering</i>	10	7	<i>Surveying experience in at least 3 (three) 132 kV (and above) substation projects, among which at least 1 (one) shall be in Africa</i>

*\* One expert for each substation at Narok and Bomet*

*Notes:*

*All personnel shall be fluent in reading, writing and speaking the English language*

*The contractor's engineers who shall form part of the key personnel must be registered as Professional Engineers with the Engineers Board of Kenya. Compliance with this shall be mandatory upon award.*

### B. Tender Clarification No. 2 (TAC 2)

Sr. No.	Reference	Subject	Bidder's Specific Query	KE TRACO Response
1	Section III: Evaluation and Qualification Criteria, 4.2(b) Specific Experience	Specific experience	Tender prequalification for as per documents clause no. Section III: Evaluation and Qualification Criteria, 4.2(b) Specific Experience calls for experience in conversion of single busbar to Double busbar. We will like the specific experience requirement to be amended to similar configuration of substation completed or of similar complexity works completed.	Not accepted. Refer to the specific experience as in the evaluation and qualification criteria 4.2(b).
2	Section IV- Price Schedules -Narok 132-33kV SS Section IV- Price Schedules -Bomet 132-33kV SS rev 1	FAT, Training	We have observed that 'Item no. 18 - FACTORY ACCEPTANCE TESTS', and 'Item no. 21 - TRAININGS' are requested in both substations. Considering FAT and training are project specific requirement and not substation specific requirement. We therefore understand this is a typo error and in order to avoid duplication, request you to please modify either one of the price schedule.	For item 18-FACTORY ACCEPTANCE TEST, this is applicable for both substations. Refer to the price schedule. For item 21- TRAININGS, kindly refer to the price schedule and note that the quantity in Bomet substation is '0 and hence is only applicable in Narok substation.
3	Section VII: Employer's Requirements	Contractor's Representative and Key Personnel	For all the positions requested, the 'Special experience' requirement says '...experience in at least 3 (three) 132 kV (and above) transmission line projects, among which at least 1 (one) shall be in Africa." We assume that this is a typo error and the same should be Substation projects. Please confirm.	Confirmed. Refer to the amendment in item 8 of Addendum No. 2

4	Part 2-E-2-Narok-Schedules of Technical Info_Rev.1, Part 2-E-3-Bomet-Schedules of Technical Info_Rev.1	33/0.415kV AUXILIARY TRANSFORMER	<p>2.13 Losses</p> <p>2.13.1 No load losses at 75 °C, rated frequency and rated voltage on principal tapping Max. 0.75kW (for Narok) and Max. 0.65kW (For Bomet)</p> <p>2.13.2 Load losses at rated frequency, 75°C And rated current on principal tapping Max. 3.5kW (for Narok) and Max. 3.0kW (for Bomet)</p> <p>Please confirm different Max. losses are required for both substations.</p>	<p>The values indicated for Bomet Schedules of Technical Info shall be used as provided. Refer to the revised Schedules Of Technical Information for Narok substation in Addendum No. 2</p>
5	Section VI. Employer's Requirements PART 2 – Employer's Requirements 2.4 Service Conditions	(h) Altitude The height above sea level shall be considered 2000-2500 m (as per each substation technical data sheet).	<p>We understand that the site altitude for Narok &amp; Bomet substations is 2000 masl each. However, according to the information mentioned in this clause, it stipulates offering all equipment up to an altitude of 2500 masl. Consequently, all equipment will need to be offered with a higher frame, resulting in a higher price. Please confirm the final altitude to be considered?</p>	<p>The altitude indicated in the schedules of technical information for Narok and Bomet Substations shall be applicable</p>
6	3.2.5.2 Point On Wave Switching relay	Circuit Breaker	<p>Point On Wave Switching relay (or POW relay) that is also known as switching control relay shall be applied to control switching of 132kV circuit breakers for elimination of harmful electrical transients</p> <p>Please clarify this requirement. Is 132KV Circuit Breaker required with Controlled Switching (CSD)?</p>	<p>This shall not be applicable</p>
7	GTP-132KV CURRENT TRANSFORMERS 4.12. Rated current at max. site temperature :	Current Transformer	<p>Kindly note that only CT Ratios/Accuracy Class information is given on PSLD. Please inform Core details including VA Burden. Please revise the BOQ with core details.</p>	<p>Refer to the PSLD tender drawings with notes regarding the burden of the CT cores. The BOQ/Price schedules provide quantities required as per specifications and schedules of technical information</p>

8	GTP-132KV CAPACITIVE VOLTAGE TRANSFORMERS 5.22 Accuracy class for Winding 1, Winding 2, Winding 3	Capacitive Voltage Transformer	Please inform LV Winding details of CVT including accuracy class & burden. PSLD does not have sufficient information. Please revise the BOQ with CVT LV Winding details.	Refer to the PSLD tender drawings with notes regarding the burden of the CVT windings. The BOQ/Price schedules provide quantities required as per specifications and schedules of technical information
9	GTP- 33KV CURRENT TRANSFORMERS Rated current at max. site temperature	Current Transformer	Kindly note that only CT Ratios/Accuracy Class information is given on PSLD. Please inform Core details including VA Burden. Please revise the BOQ with core details.	Refer to the PSLD tender drawings with notes regarding the burden of the CT cores. The BOQ/Price schedules provide quantities required as per specifications and schedules of technical information
10	GTP-33KV VOLTAGE TRANSFORMERS Accuracy class for Winding 1, Winding 2, Winding 3	Voltage Transformer	Please inform LV Winding details of CVT including accuracy class & burden. PSLD does not have sufficient information. Please revise the BOQ with CVT LV Winding details.	Refer to the PSLD tender drawings with notes regarding the burden of the CVT windings. The BOQ/Price schedules provide quantities required as per specifications and schedules of technical information
11	Section VIII - General Conditions of Contract and PCC 14. Taxes and Duties	Taxes and Duties	The following taxes are <b>exempted</b> for this project for <b>Off Shore Supplies i.e Schedule No.1:</b> (i) Customs duties, (ii) import duties (iii) Value added Taxes (VAT) (iv) Withholding Taxes (WHT) (v) Railway Development Levy (RDL) vi) Ecowas Levy vii) Import Declaration Form (IDF) Fees. Please confirm	Under the recent exemption regime, Tax exemptions will be applicable on all taxable goods and services imported or purchased locally for the exclusive and direct use in execution of project. In this regard, exemptions shall be applicable per the tax laws of the Republic of Kenya. Exemptions are applicable for VAT as provided for under the First Schedule to the VAT Act 2013.

12	Section VIII - General Conditions of Contract and PCC 14. Taxes and Duties	Taxes and Duties	<p>The following taxes are <b>exempted</b> for this project for <b>on Shore Supplies i.e Schedule No.2 &amp; Local services i.e Schedule No.4:</b></p> <p>(i) Value added Taxes (VAT)</p> <p>(ii) Withholding Taxes (WHT)</p> <p>Please confirm</p>	<p>Others include exemptions from Railway Development Levy (RDL), Import Duty, Excise Duty, and Import Declaration Form (IDF) Fees. The Contractor and their subcontractors (if any) shall be liable for payment of withholding tax as applicable in Kenya. Nothing in this clause shall prevent the Employer from withholding any taxes that the Employer is required under the laws of the Republic of Kenya to withhold. Where payments for the contract price are made directly to the Contractor, the Contractor shall make the necessary arrangements with the Employer to ensure that withholding tax is remitted to the Kenya Revenue Authority. In accordance with Treasury Circular No.15/2019 dated 11<sup>th</sup> December, 2019.</p>	<p>Under the recent exemption regime, Tax exemptions will be applicable on all taxable goods and services imported or purchased locally for the exclusive and direct use in execution of project. In this regard, exemptions shall be applicable per the tax laws of the Republic of Kenya.</p> <p>Exemptions are applicable for VAT as provided for under the First Schedule to the VAT Act 2013. The</p>
----	--	------------------	---	--	--



			Contractor and their subcontractors (if any) shall be liable for payment of withholding tax as applicable in Kenya. Nothing in this clause shall prevent the Employer from withholding any taxes that the Employer is required under the laws of the Republic of Kenya to withhold. Where payments for the contract price are made directly to the Contractor, the Contractor shall make the necessary arrangements with the Employer to ensure that withholding tax is remitted to the Kenya Revenue Authority. In accordance with Treasury Circular No.15/2019 dated 11th December,2019.
13	Section VIII - General Conditions of Contract and PCC 14. Taxes and Duties	Taxes and Duties	<p>The following taxes are <b>exempted</b> for this project for <b>Schedule No.3 Design Services</b></p> <p>(i) Value added Taxes (VAT)</p> <p>(ii) Withholding Taxes (WHT)</p> <p>Please confirm</p> <p>Under the recent exemption regime, Tax exemptions will be applicable on all taxable goods and services imported or purchased locally for the exclusive and direct use in execution of project. In this regard, exemptions shall be applicable per the tax laws of the Republic of Kenya.</p> <p>Exemptions are applicable for VAT as provided for under the First Schedule to the VAT Act 2013.The Contractor and their subcontractors (if any) shall be liable for payment of withholding tax as applicable in Kenya. Nothing in this clause shall</p>



				prevent the Employer from withholding any taxes that the Employer is required under the laws of the Republic of Kenya to withhold. Where payments for the contract price are made directly to the Contractor, the Contractor shall make the necessary arrangements with the Employer to ensure that withholding tax is remitted to the Kenya Revenue Authority. In accordance with Treasury Circular No.15/2019 dated 11 <sup>th</sup> December, 2019.
14	Section VIII - General Conditions of Contract and PCC 14. Taxes and Duties	Taxes and Duties	Taxes for the Subcontractor, clearing & Forwarding Agency <b>is exempted</b> as per main contractor. Please confirm.	<p>Tax exemptions will be applicable as per the outlined schedule to the contractor, subcontractor and the clearing and forwarding agency and specific to the execution of the project. In this regard, exemptions shall be applicable per the tax laws of the Republic of Kenya.</p> <p>The employer will facilitate the exemption based on the application and Master List provided by the Contractor and reviewed by the Employer / Employer's representative.</p>
15	-	Inspection	Please Clarify whether Third Party Inspection / Pre-shipment inspection (e.g. INTERTEK, SGS, BUREAU VERITAS, etc.) for the Imported Materials as per Kenya	Third Party Inspection / Pre-shipment inspection is mandatory as per Kenyan regulations.





			regulation is Mandatorily Required or Exempted for this project.	
16	ITB 18.1	Price Schedule	Please confirm that bidders can quote in US Dollar for Schedule No 04: Installation & other services portion.	Refer to Section I, ITB 18.1 and corresponding Section II, BDS ITB 18.1
17	-	Extension of Bid closing date	We are preparing our comprehensive bid with our maximum efforts to submit as per deadline. However, the major equipment manufacturers are requested at <b>least extension of four (04) weeks</b> of bid closing from present date i.e., 21.05.2024 to submit the comprehensive bid.	Refer to TAC 1 for the revised submission date
18	Section II - Bid Data Sheet ITB 23.1	The deadline for Bid submission is: Date: 21st May 2024 Time: 10:00 am EAT (East African Time)	Due to the arrival of the May Day International Labor Day, all the manufacturers in China will have a five-days holiday, and they cannot prepare the quotation before present bid submission date, so we kindly request a <b>Four weeks extension</b> of Bid Submission Date	Refer to TAC 1 for the revised submission date
19			We presume that the drawing is only for general reference and the bidder has to revise it and Quote the bid price as per their own design and estimation. Please confirm.	Drawing is for tender guidance; however, the bidder is to ensure compliance to the scope of works and technical requirements and quote as per the provided estimates in the price schedules.
20	Section VI. Employer's Requirements- A – Scope of Supply-1.1 Scope of Work	Shaded car parking	This item of shaded car parking is not included in the Section IV - Price Schedules. Please confirm if this is required.	Refer to the Revised Price Schedules for Narok and Bomet Substations in Addendum No. 2

21	Section VI. Employer's Requirements- A – Scope of Supply-1.1 Scope of Work	Extension of Substation Control Building, Civil works (including Excavation, concrete works, backfilling, and roofing) together with building services such as Lighting, Small Power System, Water Supply and Sewage System, HVAC, Water Solar Heating, Fire Detection and hand-held capsule fire extinguishers, Eyewash facility and access control	We presume that the item of control building do not include the broken repair of windows, doors, roof, surface, apron etc Please confirm	Refer to the Revised Price Schedules for Narok and Bomet Substations in Addendum No. 2
22	Section VI. Employer's Requirements- A – Scope of Supply-1.3 Substation Works	Upgrade of the drainage system including flood protection, storm water channels and storm drains shall be implemented around the whole substation perimeter, including the existing substation area, for complete dewatering of the compound. The existing drainage within the substation shall be upgraded to completely dewater the switchyard, and the existing transformer oil pit as well as protect against the current backflow of storm water towards the control building through the cable trench. Channels shall be surfaced by stone pitching or any other method as per the approval of the Client	We presume that the item do not include the broken repair of existing drainage system. Please confirm	Not confirmed. All damaged drainage works shall be restored to a function level. Refer to the Revised Price Schedules for Narok and Bomet Substations in Addendum No. 2
23	"Part 2-E-3-Bomet-Schedules of Technical Info_Rev.1, Page 4,16/355	The rated current of 132kV circuit breaker and isolator in technical information: For line & transformer bay is 1600A	The rated current is conflict in technical information and BOQ, the technical information of 3150A shall be followed, please kindly confirm.	The rated current of CB and isolator for Line feeder and transformer feeder shall be 1600A

	Part 2-E-3-Narok-Schedules of Technical Info_Rev.1, Page 4,16/355 Section IV- Price Schedules -Bomet 132-33kV SS rev 1, Item 1.1,1.2,1.3 & 1.4 Section IV- Price Schedules -Narok 132-33kV SS, Item 1.1,1.2,1.3 & 1.4"	For coupler bay is 3150A The rated current of 132kV circuit breaker and isolator in price schedule is only 1600A.		The rated current of CB and isolator for bus coupler feeder shall be 3150A  Refer to the Revised Price Schedule in Addendum No. 2
24	Section VII. Employer's Requirements- A - Scope of Supply, Page 14/447	II) Complete stringing of transmission line slack span (between terminal tower and line gantry inclusive of jumpers' termination on the terminal tower) with all related works for the new 132kV Narok-Bomet double circuit transmission line utilising ACSR Lynx as well as OPGW.	Please clarify whether conductor per each phase is a single Lynx wire or two Lynx wires	It is a single ACSR Lynx conductor
25	Section IV- Price Schedule : Schedule_1, Item No. 16.1 Schedule_4, Item No. 17.1		As per price schedule bidders needs to provide transport services for 24 months for vehicles. We understand that the same shall be for 12 months as the project completion period is 12 months. Please confirm our understanding.	Bidders to quote for provision of transport services for 24 months. Payment shall be made monthly upto the period which the Project Manager shall instruct.

26	<p>Section IV- Price Schedule : Schedule_1 , Item No. 16.1 Schedule_4 , Item No. 17.1</p>	<p>As per price schedule we need to provide transport services for 24 months for vehicles.</p> <p>Total 8 nos of vehicle to provided in the contract (6 SUV – Type 1 vehicle + 2 Truck – Type 2 vehicle ). Type 1 vehicle shall be provided within 2 months of contract effectiveness and Type 2 Vehicle after completion of construction work before commissioning of the project.</p> <p>With reference to above please confirm the following:</p> <ol style="list-style-type: none"> <li>1. When the transport service period commences for the respective type of vehicle.</li> <li>2. Please provide whether there is any preferred make for Type 2 Vehicle.</li> <li>3. Please confirm whether we need to supply Hydraulic winch with all vehicles. If yes, please provide the specifications for the same.</li> <li>4. Please confirm additional Fuel tank capacity for Type 1 vehicle and what shall be arrangement to fix additional fuel tank on the all new vehicles.</li> </ol>	<p>1. Refer to Section VII A, sub clause 21 for delivery on the different type of transport service. For Type 2, no service shall be considered only supply, delivery and handover to the client.</p> <p>2. This shall comply to the requirements provided in technical requirement section VII A, sub clause 21</p> <p>3. Refer to technical requirement section VII A, sub clause 21 for winch requirement.</p> <p>4. Additional fuel tank of 50 L is to be provided</p>
27	<p>Section III 3.1 Qualification; 4.2(b) Specific Experience</p>	<p>The clause states that</p> <p>(b) For the above or other contracts executed during the period stipulated in 4.2(a) above, a minimum experience in the following key activities:</p> <ul style="list-style-type: none"> <li>•Four (4) successfully accomplished and operated air insulated substations of 132/33kV with double busbar configuration.</li> </ul> <p>From above clause, we understand that substations executed with higher voltage rating (above 132 kV) also meets the requirement. Please confirm our understanding.</p>	<p>Confirmed</p>

28	Section III 3.1 Qualification; 4.2(b) Specific Experience		<p>The clause states that (b) For the above or other contracts executed during the period stipulated in 4.2(a) above, a minimum experience in the following key activities:</p> <ul style="list-style-type: none"> <li>• Conversion/Upgrade of 132kV switchyard from single busbar to double busbar arrangement</li> </ul> <p>From above clause, we understand that substation executed with higher voltage rating (above 132 kV) also meets the requirement. Please confirm our understanding.</p>	Confirmed
29	Section III 2.2 c Evaluation; (c) Functional Guarantees of the Facilities		<p>In the Functional guarantees formula - <math>CT_{ev} = CT + (L_n \times CL_n) + (LL \times CLL)</math>, cost per KW for losses are mentioned as below.</p> <ul style="list-style-type: none"> <li>▪ <math>CL_n</math> = The cost per kW of no-load losses, that is 900,000 KES/kW;</li> <li>▪ <math>CLL</math> = The cost per kW of load losses, that is, 500,000 KES/kW.</li> </ul> <p>But in Table for Specific additional criteria for Evaluating transformer rating, cost per KW for losses are mentioned as</p> <ul style="list-style-type: none"> <li>- No Load: USD 9,000 / kW</li> <li>- Load Loss: USD 4,000 / kW</li> </ul> <p>Please confirm which values shall be considered for loss capitalization.</p>	<p>USD 9,000 /kW and USD 4,000 /kW for no load and no-load losses respectively shall apply. Refer to amended section of part 1 and 3, i.e., Item 4 'Section III - Evaluation and Qualification Criteria Clause 2.2 (c)' and Item 5. 'Section X: Appendix 8 Clause 4.4 and clause 4.5' of Addendum No. 2</p>

30	Technical Data Sheet- 33/0.415kV AUXILIARY TRANSFORMER	From the data sheet serial No. 2.13.3 & 2.13.4, we have noted that evaluation rates for losses are mentioned.  But in Section III 2.2 c; Functional Guarantees of the Facilities/loss capitalization Evaluation criteria is mentioned only for power transformer. Kindly confirm whether loss capitalization is applicable for Auxiliary transformer also.	Refer to the relevant amended section of part 1 and 3 via Addendum No. 2
31	Completion Period	Please confirm that completion period for completion of pre-commissioning is 13 months.	Refer to section III part 2.2(a)
32	Section VIII: General Conditions of Contract, clause 26.2	The clause states that If the Contractor fails to attain Completion of the Facilities or any part thereof within the Time for Completion, the Contractor shall pay to the Employer liquidated damages.  From above we understand that Liquidated Damages shall be imposed if the pre-commissioning activities are not completed within 13 months from effective date. Please confirm our understanding.	Refer to section III part 2.2(a), Section VIII GCC clause 26, section IX, PCC 8.2 on time for completion

33	Section X: Contract Forms, Appendix 1. Terms and Procedures of Payment		<p>The clause states the "In the event that the Employer fails to make any payment on its respective due date, the Employer shall pay to the Contractor interest on the amount of such delayed payment at the rate of one-half percent (0.5%) <b>per annum</b> for period of delay until payment has been made in full".</p> <p>Kindly note that the interest rate for delayed payment is very less as compared to other tenders quoted in Africa. Request you to modify the clause as under:</p> <p>"In the event that the Employer fails to make any payment on its respective due date, the Employer shall pay to the Contractor interest on the amount of such delayed payment at the rate of one-half percent (0.5%) <b>per month</b> of delay until payment has been made in full".</p>	The proposed amendment is not acceptable.
34	PCC clause 14- Taxes and Duties		<p>We understand that VAT is exempt on imports of materials and equipments imported for the exclusive and direct use in the execution of the project. Accordingly prices in Schedule 1-PLANT, EQUIPMENT AND MANDATORY SPARES SUPPLIED FROM ABROAD shall be quoted exclusive of VAT.</p> <p>Please confirm our understanding.</p>	Tax exemptions will be applicable on all taxable goods and services imported or purchased locally for the exclusive and direct use in execution of project. In this regard, exemptions shall be applicable per the tax laws of the Republic of Kenya. Prices shall be quoted exclusive of VAT. The employer will facilitate the exemption based on the application and Master List provided by the Contractor and reviewed by the Employer / Employer's representative.

35	PCC clause 14- Taxes and Duties		<p>We understand that VAT is exempt on local purchases for the exclusive and direct use in the execution of the project. Accordingly, prices in Schedule 2 PLANT, EQUIPMENT AND MANDATORY SPARES SUPPLIED FROM WITHIN EMPLOYER'S COUNTRY OF ORIGIN shall be quoted exclusive of VAT.</p> <p>Please confirm our understanding.</p>	<p>Tax exemptions will be applicable on all taxable goods and services imported or purchased locally for the exclusive and direct use in the execution of project. In this regard, exemptions shall be applicable per the tax laws of the Republic of Kenya. Prices shall be quoted exclusive of VAT. The employer will facilitate the exemption based on the application and Master List provided by the Contractor and reviewed by the Employer / Employer's representative.</p>
36	Section III. Evaluation and Qualification Criteria; Clause 1.1 Domestic Preference		<p>We understand that for this tender, there is no domestic preference for equipment being supplied locally. Please confirm our understanding. If not, then request you to confirm the list of locally supplied equipment on which the preference shall be applicable.</p>	<p>Refer to Section I, ITB 34.1 and relevant Section II – Bid Data Sheet ITB 34.1</p>
37	Section IV- Price Schedules -Bomet 132-33kV SS rev 1	1.1&1.2	<p>The rated current of CB in BOQ requires 1600A, but the rated current of circuit breaker 1600A(transformer bay and line bay) and 3150A (busbar coupler bay) in the parameter table and single line diagram are inconsistent. Please confirm the rated current of circuit breaker.</p>	<p>Refer to the Revised Price Schedules in Addendum No. 2</p>
38	Section IV- Price Schedules -Bomet 132-33kV SS rev 1	1.3	<p>The rated current of DS in BOQ requires 1600A, but the rated current of DS 1600A(transformer bay and line bay) and 3150A (busbar coupler bay) in the parameter table and single line diagram are inconsistent. Please confirm the rated current of DS.</p>	<p>Refer to the Revised Price Schedules in Addendum No. 2</p>
39	Section IV- Price Schedules -Bomet 132-33kV SS rev 1	1.7&1.8&2.7&2.8	<p>Please provide the capacity of the CT &amp; CVT.</p>	<p>This should be as per the bid PSLD drawings</p>



40	Section IV- Price Schedules -Bomet 132-33kV SS rev 1	2.8	Please specify whether the 33kV voltage transformer is electromagnetic type or capacitive type.	This will be based on bidder's design provided all technical requirements are met
41	Section IV- Price Schedules -Bomet 132-33kV SS rev 1	2.8	The busbar 33kV voltage transformer in "Bomet KEY SLD Rev04" is not configured with a fuse, but it is configured in "Bomet 132kV_33kV SS PSLD". Therefore, please confirm whether the bus 33kV voltage transformer is equipped with a fuse.	The 33 kV voltage transformers are to be equipped with MCB's not fuses. This applies to 132 kV CVT's as well
42	2. Bomet 132kV_33kV SS PSLD		The secondary winding voltage of 132kV CVT and 33kV VT in the drawing is $110V/\sqrt{3}$ & $110V/3$ , but it is $110V/\sqrt{3}$ in the parameter table, which is contradictory. Please confirm the configuration according to the secondary winding voltage $110V/\sqrt{3}$ .	For 132 kV, the ratio is 132,000 V / $\sqrt{3}$ to 110 V / $\sqrt{3}$ and for 33 kV the ratio is 33000 V / $\sqrt{3}$ to 110 V / $\sqrt{3}$
43	2. Bomet 132kV_33kV SS PSLD		The existing transformer bay 132kV CT winding drawing is marked as 5 core, but the parameter is 6 core, which is contradictory. Please confirm that the existing transformer bay 132kV CT winding is 5 cores.	Existing 132kV line bay CT and Transformer Bay CT is 5core. The 5 core CTs shall be replaced with 6 core CT for Line Bay and Transformer bay. Refer to Section VII Employer's Requirement A, sub clause 1.3.2 and drawing 'Bomet 132kV_33kV SS SLD' which indicates scope of work including replacement of some existing CT's
44	Part 2-Employer's Requirements	1.3.1 Extension Works at Narok 132/33 kV Substation B)&C)	According to the description of the working scope, there should be two 33/0.45kV auxiliary transformers (one for the new auxiliary transformer bay and one to replace the existing auxiliary transformer bay), but there is only one 33/0.45kV auxiliary transformer in BOQ, so please confirm the number of auxiliary transformers.	Only one new 250 KVA 33/0.45kV auxiliary transformer shall be supplied and shall replace the existing auxiliary transformer. A new 33 kV Auxiliary transformer bay shall not be required.

45	Part 2-Employer's Requirements	1.3.2 Extension Works at Bomet 132/33 kV Substation B)&C)	According to the working scope description, one 250kVA 33/0.45kV auxiliary transformer was newly installed (one replaced the existing auxiliary transformer bay auxiliary transformer), and one 1000kVA 33/0.45kV existing auxiliary transformer was repaired; However, there is a new auxiliary transformer bay in the drawing, which is contradictory. Please confirm the working scope.	Only one new 250 KVA 33/0.45kV auxiliary transformer shall be supplied and shall replace the existing auxiliary transformer. A new 33 kV Auxiliary transformer bay shall not be required.
46	Part 2-Employer's Requirements	3.2.3 Gas Handling Equipment	Gas handling device is mentioned in the technical requirements, but it is not included in BOQ, please confirm whether the gas handling device is provided, and if so, please confirm the number of gas handling device for each substation.	Refer to the price schedules where this item is already included.
47	Part 2-Employer's Requirements	2.4 Service Conditions	In the environment requirements, the altitude is 2000-2500m. In the parameter table, the altitude is 2000m. Please specify the altitude design criteria.	Refer to response in TAC 2 Clarification item no. 5
48	Part 2-E-2-Narok-Schedules of Technical Info_Rev.1	33/0.415kV AUXILIARY TRANSFORMER	Parameter requirements: 1.1-Nominal power rating at site conditions: 250kVA; 2.4-Rated capacity of secondary winding at site conditions:315kVA; There is a difference between items 1.1 and 2.4. Please confirm the auxiliary transformer power is 250kVA.	Refer to the revised schedules of technical info of Narok in Addendum no. 2
49	Section VI. Employer's Requirements- A – Scope of Supply	Section VII. Employer's Requirements- A - Scope of Supply - 1.3.1	Please clarify whether the existing auxiliary transformer at site will be still used or not for each of the substation.	Refer to response in TAC 2 Clarification item no. 44
50	Section VI. Employer's Requirements- A – Scope of Supply	Section VII. Employer's Requirements- A - Scope of Supply - 1.3.1	It mentions "Upgrade/replacement of the entire SAS and SCADA system to include the existing bays and new (extension) bays." Please confirm Upgrade or replacement of the entire SAS are all accepted.  If the existing SAS is upgraded instead of replacement, the Completion of Human Machine Interface Systems	Replacement of the entire SAS and SCADA system is required.

		and Computers in the Price Schedules need not to be provided. Please confirm.	
51	Section IV- Price Schedules	The quantity of item 7.4 - Bay control Panels is 3 No. That means 3 Bay control units need to be located in one control panel. Please confirm the quantity of panels.	Refer to the PSLD tender drawings that indicate where the BCUs are to be located. Each control panel only has one BCU and the number of panels as indicated in the price schedule is correct
52	Section IV- Price Schedules	Please clarify the detailed work scope for item 8.1 - Equipment for Modification works at Remote SS.	Refer to Section VII Employer's Requirement A sub clause 1.3.1-t for Narok Substation and sub clause 1.3.2-r for Bomet Substation.
53	Section IV- Price Schedules	Please clarify the detailed requirement for item 9.1.1 - Telecoms Spares.	The list of spares has been added in the Price Schedules for Narok Substation. The line item has been removed in Bomet substation Price schedules. Refer to the revised price schedules for Narok substation in Addendum No.2
54	Section VII. Employer's Requirements- B- Specifications E. Schedules of Technical Information	The requirement in the Technical Data Sheets for LV cables is different with the specification. Please confirm which one is prior.  Specifications-15.23: All cables shall be halogen free. Technical Data Sheets of LOW VOLTAGE CABLES: Material and thickness of outer sheath - extruded P.V.C	Halogen free type is required. Refer to the revised schedules of technical info of Narok Substation and revised schedules of technical info of Bomet Substation in Addendum No. 2

55			Please clarify the manufacturer of SCADA System at NCC.	The existing NCC uses ABB system
56	Section IV- Price Schedules -Narok 132-33kV SS	Schedule 4_SS 13.26-Extension of guard room to include collocation room	<p>Does this item refer to "Substation Guard House to be combined with the Telecom Collocation Room" mentioned in document "Part 2-Employer's Requirements- 1.1 Scope of Work"? According to "15.3 Guard House with Telecom collocation room", including:</p> <ul style="list-style-type: none"> <li>-Customer Equipment Room (with minimum dimensions 6.9m*5.2m*3.5m) ;</li> <li>-Main Equipment Room (with minimum dimensions 5.2m*2.5m*3.5m) ;</li> <li>-Battery/Storage Room (with minimum dimensions 3.5m*2m*3.5m) ;</li> <li>-Ladies and Gents Washrooms (with minimum dimensions 3.2m*2.8m*3m)</li> </ul> <p>-office room; -guard room, -kitchen room. Please confirm.</p>	<p>Substation Guard House combined with Collocation room shall meet the following minimum dimensions:</p> <ul style="list-style-type: none"> <li>i. Guard Room - 4.0m x 3.0m</li> <li>ii. A kitchenette that is accessible from the guardroom (plinth area &gt; 7.5m<sup>2</sup>)</li> <li>iii. Ladies and Gents Washrooms (each with minimum dimensions of 2m*1.5m). The same should be accessible from the outside.</li> <li>iv. Battery room - 3m x 2m fully installed with an eyewash sink.</li> <li>v. Telecom Equipment room - 5m x 4.5m. This shall utilize false floor as that adopted in the control building.</li> </ul> <p>A cable trench shall be built between the telecom equipment room and the main control building. The trench shall be fully equipped with cable trays and covers ready to facilitate cable laying.</p>
57	Part 2-Employer's Requirements	1.1 Scope of Work	From the work scope description, it mentions that shaded car parking work, but there is no description in the BOQ for Bomet and Narok SS. Please clarify.	Shaded car parks are to be implemented in both Narok and Bomet substations. Refer to response in TAC 2 Clarification item no. 20
58	Part 2-Employer's Requirements	1.3.1 Extension Works at Narok 132/33 kV Substation	From the work scope description, it mentions that one borehole shall be sunk, but there is no description in the BOQ about rehabilitation of existing water supply system with borehole. Please clarify.	Refer the revised Price Schedules of Narok in Addendum No. 2

59	Part 2-Employer's Requirements	1.3.2 Extension Works at Bomet 132/33 kV Substation	From the work scope description, it mentions that Construction of approximately 1000m external access road, but it mentions that Rehabilitation and spot improvement of any damaged sections of existing external access road in in the BOQ, and during site visit, the length of access road is about 185m.Please clarify.	Refer to the revised Price Schedules of Bomet in Addendum No. 2
60	Section II - Bid Data Sheet	ITB 21.3 The written confirmation of authorization to sign on behalf of the Bidder shall consist of: Duly executed Power of Attorney	The bidding document does not provide a template for the power of attorney. Can we provide a template for the power of attorney by ourselves and complete the signature and seal?	Yes
61	Section II - Bid Data Sheet--ITB 34.1	ITB 34.1 BDS	The description of Domestic Preference in BDS is "A margin of domestic preference shall not apply."  However, in Section III - Evaluation and Qualification Criteria, it is described as "only the CIP price of each bid of the equipment offered from outside the Borrower's country as quoted under Schedule 1 shall be increased by 15% (five percent)."  Which one do we need to refer to?	Refer to Section I, ITB 34.1 and relevant Section II – Bid Data Sheet ITB 34.1 on when Domestic Preference under section III Evaluation and Qualification Criteria applies
62	Section VII: Employer's Requirements	Section VII: Employer's Requirements	There is a description in the bidding documents: "The contractor's engineers who shall form part of the key personnel must be registered as Professional Engineers with the Engineers Board of Kenya." Are we required to provide corresponding certificates during the bidding stage?	Refer to item 8 of Addendum No. 2. On the issue of registration of Engineers as professionals with Engineers Board of Kenya, compliance with this shall be mandatory upon award
63	Section IV - Bidding Forms	Section IV - Bidding Forms	Is it sufficient for the contractor to provide either <b>bid security</b> or <b>bid bond</b> ?	Confirmed

64	Section II - Bid Data Sheet	ITB 23.1	Because there are lots of problems after site visit need to be certified and public holiday for International Labor Day in China, the preparation time for the bid documents and bid security is not enough. To study the requirements of this tender very well and provide the best offer, we humbly request KETRACO to extend the Bid Submission Date to 21th June, 2024. Please confirm.	Refer to TAC 1 on the revised submission date
65	Section III: Evaluation and Qualification Criteria	3.1 Qualification-4.2(b) Specific Experience	Refer to "Four (4) successfully accomplished and operated air insulated substations of 132/33kV with double busbar configuration", please confirm it cannot meet this requirement if the voltage of the air insulated substation is 110kV or above 132kV.	The requirement is for 132 kV and above voltages. 110 kV does not qualify
66			Can we participate in the tender directly as a foreign Company? Or must we have a registered local entity?	Refer to Section 1, Part A Clause 4 of the bid documents for requirements.
67			Are there any special exemptions/deductions on equipment coming from abroad for the project (especially VAT)? If not, will the normal COMESA exemptions apply?	Under the recent exemption regime, Tax exemptions will be applicable on all taxable goods and services imported or purchased locally for the exclusive and direct use in execution of project. In this regard, exemptions shall be applicable per the tax laws of the Republic of Kenya. Exemptions are applicable for VAT as provided for under the First Schedule to the VAT Act 2013. Others include exemptions from Railway Development Levy (RDL), Import Duty, Excise Duty, and Import Declaration Form (IDF) Fees. The Contractor and their

			subcontractors (if any) shall be liable for payment of withholding tax as applicable in Kenya Nothing in this clause shall prevent the Employer from withholding any taxes that the Employer is required under the laws of the Republic of Kenya to withhold. Where payments for the contract price are made directly to the Contractor, the Contractor shall make the necessary arrangements with the Employer to ensure that withholding tax is remitted to the Kenya Revenue Authority. In accordance with Treasury Circular No.15/2019 dated 11th December, 2019.
68		Considering that the technical information only has the substation line layout without any structural drawings, kindly share the substation's structural design drawing or detailed structural weight.	Development of structural drawings shall be part of the contractor's scope of works. The provided drawings are sufficient at bidding stage.
69	Technical Data Sheet, f) EARTHING AND LIGHTNING PROTECTION, 1.1.6 Maximum Resistance of Earthing/Grounding System requires 1Ω In Section VII. Employer's Requirements, 15.20 Earth and Lighting Protection, requires earthing resistance of approx. 0.1 Ω.	Please clarify that which data is correct for earthing. (Narok and Bomet)	Maximum value of 1 ohm is required. The value indicated in the schedules of technical info for Bomet and Narok apply.
70	Technical Data Sheet, a) SITE CONDITIONS, 4. Altitude of Area shows	Please clarify that which data should we use for service condition for equipments and substation.	Refer to response in TAC 2 Clarification item no.5



		that the altitude is 2000m. In Section VII.Employer's Requirements 2.4 Service Conditions, (h) Altitude: The height above sea level shall be considered 2000-2500 m		
71		Technical Data Sheet, b) 132 kV OPEN TERMINAL SWITCHGEAR 1.10.1, For Bus Coupler feeder requires 3150A Section IV. price schedule 1, 1.2 .132kV Circuit Breaker (3 phase) 1600A, 31.5kA - single pole	The data from bus feeder and circuit breaker has conflict. Please clarify which data we should use for relevant equipments	Refer to response in TAC 2 Clarification item no.23
72		Price schedule, sheet1,15.5 and 15.6 the content repetition.	Please clarify that 1 lot is enough or not	The two line items refer to two different items. Refer to the revised Price Schedules of Narok and Bomet in Addendum No. 2
73		Technical data sheet. b)132kv OPEN TERMINAL SWITCHGEAR. surge arrester 8.24/8.25, there are two type of requirements. one for porcelain and another for composite polymer	Please clarify that which type of surge arrester is required	Porcelain is preferred.
74		part 1 Section VII: page 182, Contractor's Representative and Key Personnel. all key personnel experience requires similar work for 132kV transmission project. but this is a pure substation project.	Please clarify is substation experience is acceptable for this tender	Refer to response in TAC 2 Clarification item no.3
75		Whether the civil work for narok and bomet extension include the recover of existing substation civil works.	Please clarify.	Confirmed. This shall be required where necessary to ensure functionality of completed works



76		For narok substation, have reserved circuit space for extension, can we use existing reserved space, if not, do we need to reserved new circuit space for future extension.	Please clarify	This will be in accordance to the Bidder's design to ensure that the scope of works is executed as per the technical requirements. The shared SLD indicates scope which must be incorporated in the current project works with regards to space provision.
77		when the price schedule and Part 2 employer's requirements has conflict work scope , which documents has the highest priority	Please clarify	Refer to Section X- contract forms, clause 1.1 and 1.2
78		According to the information from site visit, Ketraco said before the work of extension, the SCADA system need to upgrade into GE DS Agile system	Please clarify whether this upgrade work include in the extension work scope	Refer to TAC 2 Clarification item no 50. A new SCADA system is required
79		In technical data sheet, the surge arrester 8.17/8.18. require 145 and 116, this data will increase the cost for equipments	we suggest this two data change into 120 and 96, is this acceptable	Confirmed. Refer to the amended schedules of technical information for Narok and for Bonmet in Addendum No. 2
80		In the contract, the method of payment is not cleared	Please clarify the method of payment and portation	Refer to Section X-contract forms, Appendix 1
81	PART 2 - Employer's Requirements; SLD Auxiliary Tranformer		As per the Scope of Work, existing 100KVA Auxiliary Transformer is to be dismantled and new Auxiliary Transformer is to be installed. While as per the SLD, it shows Two Nos. of Auxiliary Transformer - One existing and One New. Please confirm supply of Auxiliary Transformer (250KVA) Qty is - 1 No. or 2 Nos.	Refer to response in TAC 2 Clarification item no. 44

82	PART 2 – Employer's Requirements; Existing Cable Trench		Please confirm whether the existing cable trench is to be dismantled or kept as it is. As we have to modify the 132kV Line equipment, hence we presume that the cable trench is to be shifted. Please confirm.	Confirmed. However, note that this is an EPC contract, and this will be based on the design developed and approved for implementation and work methodology in compliance to the scope of work and technical requirements
83	PART 2 – Employer's Requirements; LV AC & DC SLD		Please provide the scheme of LT AC & DC SLD. We understand the for LV AC SLD: Two Incomer from Auxiliary Transformer and one incomer from DG Set or One incomer from Auxiliary transformer and one incomer from DG are to be considered. Please confirm.	The scheme will be provided to the successful bidder.  In addition, see response in TAC 2 Clarification item no. 44 on number of auxiliary transformers to be considered
84	PART 2 – Employer's Requirements; Existing Control Room		Existing control room extension means that we have to extend control and relay panel room only. Please confirm. Also, please confirm whether we have to extend ACDB & DCDB Room also.	The control building extension is required to cover the additional control and protection panels, the additional battery bank and charger and additional feeders for the LVAC and LVDC distribution boards.
85	PART 2 – Employer's Requirements; Plot area of BOMET SS		As per Plot plan for BOMET 132/33kV SS, we understand that the plot area is not sufficient to accommodate total nos. of new 132kV Bays. Plot area need to be extended. Please confirm the Plot area for BOMET SS.	Refer to Section VII A Employer's requirements Clause 1.2.2 which demonstrates there is more land beyond what is presently developed and enough to accommodate the projected work scope.
86	PART 2 – Employer's Requirements; Fence extension		Please confirm whether fence extension is required around the new 132/33kV SS.	Fence extension/modifications shall be required. Refer to Section VII A clause 1.3.1 and 1.3.2 and Price schedules, schedule 4 no 13.8 and 13.9

87	PART 2 – Employer's Requirements; Existing Guard House drawing		Please provide existing Guard house drawing which needs to be extended.	Refer to revised Part 2-D in Addendum No. 2 for existing guard house drawing for Narok SS which is similar for both substations
88	PART 2 – Employer's Requirements; Existing CRP & RTU make		Please confirm existing RTU and CRP make for BOMET SS.	RTU make is DIGI GRID - Gateway software ICE TOOLSET, HIMI is GE- IFIX and CRP make is GE and MICOM however note response in TAC 2 Clarification item no. 50
89	PART 2 – Employer's Requirements; 33kV Isolator		As per GTP, 33kV Isolator shall be Horizontal Double Break/Centre break. But in the existing substation there is motorised 33kV load break Isolator Switch. Please confirm whether we have to supply as per existing or not.	Note that this is an EPC contract, and this will be based on the bidder's design and methodology in compliance with the scope of work and technical requirements. The same shall however be subject to Employer's approval.
90	PART 2 – Employer's Requirements; Dismantling Work		To extend the 33kV Bay, please confirm whether we have to dismantle existing lightning mast.	Note that this is an EPC contract, and this will be based on the bidder's design in compliance with the scope of work and technical requirements. The same shall however be subject to Employer's approval.
91	PART 2 – Employer's Requirements; UPS		Please confirm whether we have to consider any UPS supply for emergency lighting.	Refer to Section VII B sub clause 15.18.1.2 on supply of emergency lighting
92	PART 2 – Employer's Requirements; UPS & UPS DB		Please confirm whether 6000KVA UPS with UPS DB Supply are in supply scope or not.	Confirmed. Refer to Price Schedules for Narok and Bomet substations Schedule 1 and 2 item 13.4 and schedule 4 item 14.1.9

93	PART 2 – Employer's Requirements; FMS & DAU	Please confirm whether Fault Monitoring system (FMS) and Data Acquisition Units (DAU) are in supply scope or not. The same are not asked in the price schedule. Hence, we presume that we do not have to consider FMS and DAU in supply scope. Please confirm our understanding.	Confirmed. FMS and DAU are not required
94	PART 2 – Employer's Requirements; Cabel Tray	Please confirm whether outdoor and indoor cable trenches are required with cable trays or angle supports.	Cable trays are required. Refer to Revised Price Schedules for Narok and Bomet substations in Addendum No. 2
95	PART 2 – Employer's Requirements; Drawing	As per Scope of work, "A list of the drawings attached to bid documents is given in the Part 2-D." Please provide the drawings.	Refer to revised Part 2-D in Addendum No. 2
96	Section VI. Employer's Requirements PART 2 – Employer's Requirements 2.4 Service Conditions; (h) Altitude	<p>The clause states that The height above sea level shall be considered 2000-2500 m (as per each substation technical data sheet).</p> <p>Important Note: All main and spare equipment shall be provided for proper operation in four altitude categories (to optimize main equipment/ spare parts and achieve interchangeability at country level), including 1000, 1500, 2000 and 2500 meter above sea level. In case of other range may have been mentioned in the schedules of technical information (Part 2-E), the higher altitude category shall be considered.</p> <p>We understand that the site altitude for Narok &amp; Bomet substations is 2000 masl each. However, according to the information mentioned in this clause, it stipulates offering all equipment up to an altitude of 2500 masl. Please confirm the Altitude level to be considered.</p>	Refer to response in TAC 2 Clarification item no. 5

97	PART 2 - Employer's Requirements; CT & CVT Parameter		As per PLSD, 132kV CT & CVT and 33kV CT & CVT parameters like knee Point Burden, Voltage, Rct, Magnetising Current are not mentioned. Please confirm the details.	Refer to the PLSD tender drawings with notes regarding the burden of the CT cores and CVT windings.  The other details requested will be as per the bidder's design subject to the Employer's/Consultant's approval
98	PART 2 - Employer's Requirements; Existing 33kV Structure drawing		Please provide existing 33kV Structure drawing for extension of 33kV BUS.	This will be provided to the successful bidder.
99	PART 2 - Employer's Requirements; Existing Control Room Location		We understand that for existing Control room extension, sufficient space is not available once we extend the 33kV Bus portion. Please confirm on which side we have to extend the Control Room.	Note that this is an EPC contract, and this will be based on the bidder's design in compliance to the scope of work and technical requirements and subject to Employer's approval.
100	PART 2 - Employer's Requirements; C. Shutdown will be given only one circuit at one time. All temporary works required for arranging the shutdown with Client and National Control Center are included in Contractor's scope of work. Shutdown that results in total station outages for more than one day (8 hours) will not be possible.		<p>The existing system is with one line and one trafo bay with single bus arrangement. There is no space provision for the second bus. Hence the conversion from single bus to double bus with partial shutdown is not possible to be achieved. Complete substation will be under total outage during the construction period.</p> <p>1) Please confirm that complete outage will be provided.</p> <p>2) Please confirm that no arrangement to for continuity of MV load is in scope of work of this Contract.</p> <p>3) If reply to item 1 is negative (i.e complete outage for full construction period is not provided, please clarify how KETRACO envisages to carry out the work without shutdown. Please provide layout of existing and proposed arrangement to understand how it is possible and also to ensure that all bidders are at same level in their techno-commercial scope understanding.</p>	<p>1. Complete outage will not be provided</p> <p>2. No arrangement for continuity of MV load is required. As per SECTION VII A sub clause 1.1, MV loads supply shall not be interrupted for more than 8 hours. The interruption/shutdown shall not be provided on consecutive days.</p> <p>3. Note that this is an EPC contract, and it is up to the bidder to come up with a design and solution as well as methodology of working to implement the scope of works</p>

		<p>4) If reply to Item 2 above is negative (i.e. some arrangement is required to be done by Contractor of this Contract for Load continuity, please clarify how the same will be achieved by clarifying detailed scope of such temporary arrangement)</p> <p>5) Please note that the space available between gantry and power transformer is not sufficient to accommodate two 132kV bus. Hence, the incoming gantry will be moved towards the existing Terminal Tower. Please confirm that the connection from existing Terminal Tower for line xxx to relocated gantry within S/S will be done by T/L contractor. Any calculation to prove the adequacy of the existing terminal tower will be done by T/L contractor.</p>	<p>within the outage constraints required.</p> <p>4. Note that this is an EPC contract and it is up to the bidder to come up with a design and solution to implement the scope of works with no load supply interruption more than the limit requirement.</p> <p>5. These works are part of the scope of works under this project. Refer to SECTION VII A sub clause 1.3.1 hh and clause 1.3.2ee</p>
101	Layout	Layout	<p>This is an EPC contract, and this will be based on the bidder's design in compliance with the scope of work and technical requirements. The same shall however be subject to Employer's Approval.</p>
102		Section VII. Employer's Requirements- A - Scope of Supply; Clause 2.d) Extent of Works	<p>Complete outage will not be provided. This is an EPC contract, and it is up to the bidder to come up with a design and solution to implement the scope of works within the outage constraints required.</p>
103		Section VII. Employer's Requirements- B -Specifications; Clause 14.12.7	<p>Not accepted. Type test will need to be conducted on the transformer as per Section VII B- clause 14.12.7</p>

			Further, since the completion period of the project is 13 months, performing type test again is not envisaged.	
104		Section VIII: General Conditions of Contract; Clause 10.8	<p>We request you to modify the clause as under:</p> <p>In the event that the Employer shall be in breach of any of his obligations under this Clause, the additional cost-plus reasonable profit incurred by the Contractor in consequence thereof shall be determined by the Project Manager and added to the Contract Price.</p>	Not acceptable.
105		Section VIII: General Conditions of Contract; Clause 29.1	<p>We request you to modify the clause as under:</p> <p>The Contractor shall, subject to the Employer's compliance with GCC Sub-Clause 29.2, indemnify and hold harmless the Employer and its employees and officers from and against any and all suits, actions or administrative proceedings, direct claims, demands, losses, damages, costs, and reasonable expenses of whatsoever nature, including attorney's fees and expenses, which the Employer may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Contract by reason of: (a) the installation of the Facilities by the Contractor or the use of the Facilities in the country where the Site is located; and (b) the sale of the products produced by the Facilities in any country.</p>	Not acceptable.



106	<p>Section VIII: General Conditions of Contract; Clause 37</p>	<p>We request you to modify the clause as under:          "Force Majeure" shall mean any event beyond the reasonable control of the Employer or of the Contractor, as the case may be, and which is unavoidable notwithstanding the reasonable care of the Party affected, and shall include, without limitation, the following:          (a) war, hostilities or warlike operations whether a state of war be declared or not, invasion, act of foreign enemy and civil war          (b) rebellion, revolution, insurrection, mutiny, usurpation of civil or military government, conspiracy, riot, civil commotion and terrorist acts          (c) confiscation, nationalization, mobilization, commandeering or requisition by or under the order of any government or de jure or de facto authority or ruler or any other act or failure to act of any local state or national government authority          (d) strike, sabotage, lockout, embargo, import restriction, port congestion, lack of usual means of public transportation and communication, industrial dispute, shipwreck, shortage or restriction of power supply, epidemics, Pandemic, quarantine and plague          (e) earthquake, landslide, volcanic activity, fire, flood or inundation, tidal wave, typhoon or cyclone, hurricane, storm, lightning, or other inclement weather condition, nuclear and pressure waves or other natural or physical disaster          (f) shortage of labor, materials or utilities where caused by circumstances that are themselves Force Majeure. Further we suggest that the Bank Guarantee shall not be invoked/enforced by the Employer during the subsistence/continuance of the Force Majeure event.</p>	Not acceptable.
-----	--	--	-----------------



107	Section VIII: General Conditions of Contract; Clause 40.4	<p>We request you to modify the clause as under:</p> <p>In all cases where the Contractor has given a notice of a claim for an extension of time under GCC 40.2, the Contractor shall consult with the Project Manager in order to determine the steps (if any) which can be taken to overcome or minimize the actual or anticipated delay. The Contractor shall thereafter comply with all reasonable instructions which the Project Manager shall give in order to minimize such delay. If compliance with such instructions shall cause the Contractor to incur extra costs and the Contractor is entitled to an extension of time under GCC. 40.1, the amount of such extra costs plus reasonable profit shall be added to the Contract Price.</p>	Not acceptable.
108	Section VIII: General Conditions of Contract; Clause 41	<p>We request you to add the following clause:</p> <p>41.5 If the suspension has continued for more than 20 (twenty) days, the Contractor may request the Employer's permission to proceed. If the Employer does not give permission within 10 days after being requested to do so, the Contractor may, by giving notice to the Employer, treat the suspension as an omission of the affected part of the Works. If the suspension affects the whole of the Works, the Contractor may give notice of termination under Sub-Clause 42.3 [Termination by the Contractor].</p>	Not acceptable.

109	Section VIII: General Conditions of Contract; Clause 41.3	<p>We request you to modify the clause as under: If the Contractor's performance of its obligations is suspended or the rate of progress is reduced pursuant to this GCC Clause 41, then the Time for Completion shall be extended in accordance with GCC Sub-Clause 40.1, and any and all additional costs or expenses plus reasonable profit incurred by the Contractor as a result of such suspension or reduction shall be paid by the Employer to the Contractor in addition to the Contract Price, except in the case of suspension order or reduction in the rate of progress by reason of the Contractor's default or breach of the Contract.</p>	Not acceptable.
110	Section VIII: General Conditions of Contract; Clause 42.1	<p>We request you to modify the clause as under: The Employer may at any time terminate the Contract for any reason by giving the Contractor a notice of termination that refers to this GCC Sub-Clause 42.1. The termination shall take effect 28 days after the later of the dates on which the Contractor receives this notice or the Employer returns the Performance Security. The Employer shall not terminate the Contract under this Sub-Clause in order to execute the Facilities either on its own, or by engaging other third-party contractors.</p>	Not acceptable.
111	Section VIII: General Conditions of Contract; Clause 42.3.4	<p>We request you to modify the clause as under: 42.3.4 If the Contract is terminated under GCC Sub-Clauses 42.3.1 or 42.3.2, the Employer shall pay to the Contractor all payments specified in GCC Sub-Clause 42.1.3, and reasonable compensation for all loss, except including loss of profit, or damage sustained by the Contractor arising out of, in connection with or in consequence of such termination.</p>	Not acceptable.

112		Price Schedule	<p>All main and spare equipment shall be provided for proper operation in four altitude categories (to optimize main equipment/ spare parts and achieve interchangeability at country level), including 1000, 1500, 2000 and 2500 meter above sea level. In case of other range may has been mentioned in the schedules of technical information (Part 2-E), the higher altitude category shall be considered.</p> <p>As per details, given in "Site conditions, cl. No. 4" Altitude of Installation of Transformer for both the locations shall be <math>\leq 2000</math> m.a.s.l. Kindly review &amp; confirm our understanding.</p>	<p>Refer to the altitude indicated in the schedules of technical information for Narok and Bomet substations</p>
113		Price Schedule	<p>The new power transformer shall be capable of operating in parallel with the existing power transformer.</p> <p>Parallel operation will be possible between the Transformer supplied in this offer.</p> <p>However If parallel operation is required with any existing transformer. Please give existing transformer rating plate (Rating, Vector group, Ratio, OLTC tapping range), Existing transformer impedances (Max. voltage tap, Normal volt. tap, Min. Volt. tap). Existing OLTC, AVR details and existing OLTC schematics.</p>	<p>Refer below to the existing transformer details:</p> <p>A. BOMET SS</p> <p>1. Rating is 18/23 MVA ONAN, ONAF</p> <p>2. Vector group is Dyn11</p> <p>3. Rated voltage and Tap Range is 132<math>\pm</math> 8X 1.67% / 33 kV</p> <p>4. Impedance Max Tap 10.16, Nominal Tap 9.58, Min Tap 9.80</p> <p>B. NAROK SS</p> <p>1. Rating is 18/23 MVA ONAN, ONAF</p> <p>2. Vector group is Dyn11</p> <p>3. Rated voltage and Tap Range is 132<math>\pm</math> 8X 1.67% / 33 kV</p> <p>4. Impedance Max Tap 10.16, Nominal Tap 9.57, Min Tap 9.81</p>
114		Data sheet, Cl.no. 11.2	OLTC-Manufacturer- MR, Vacuum type	Not accepted.

		OLTC shall be of Hitachi Energy, Sweden or other make. Please Confirm	Requirement as indicated in the schedules of Technical Info in section d, clause 11.2 shall apply
115	Data sheet; Cl.no.15.1.1	<p>Insulation Levels, Lightning impulse withstand voltages / One min power frequency withstand: HV winding: 750 KVp / 275 KVrms</p> <p>As per IEC 60076, the insulation level for a 145 kV system voltage shall be 650 kVp / 275 kVrms. However, in the data sheet, the insulation level has been stated as 750 kVp / 275 kVrms, which appears to be incorrect and not in accordance with the IEC 60076-3 standard. The insulation level should be revised to align with the IEC 60076 standard, which specifies 650 kVp / 275 kVrms for a 145 kV system voltage.</p> <p>Please confirm</p>	Confirmed. Refer to revised technical schedule of info for Narok and Bomet substations in Addendum No. 2.
116	Transformer Oil	For clarity. Transformer Oil shall be Shell DIALA S4 ZX-I, However, factory Acceptance Tests will be done using our test oil (Indian make) which is fully inhibited mineral oil type A as per IEC 60296.	Not accepted. Requirement as indicated in the schedules of Technical Info in section d, clause 27.1 shall apply
117	Transformer	We note that Short circuit test is required to be carried out on Power transformers. However, with long delivery period of transformers will further get extended if short ckt test is to be carried out and it will not be possible to complete the project in stipulated completion period. Please confirm that short circuit test is not require to be carried out on 23 MVA power transformer	Short circuit withstand test is to be done by calculation not by test. Refer to revised technical schedule of info for Narok and Bomet substations in Addendum No. 2.



118	Substation Boundry/Fencing	<p>Boundary wall or Chainlink fence required for entire plot or only for Substation portion.</p> <p>Do we need to provide fencing for both i.e. plot as well as Substation portion?</p> <p>For vacant area i.e. outside Substation area but inside plot area, do we need to provide earthing, gravel, lighting?</p> <p>Do we need to level that vacant area?</p> <p>Please clarify.</p>	<p>On fences, Refer to Section VII A clause 1.3.1 and 1.3.2 and Price schedules, schedule 4 no 13.8 and 13.9. The property fence is already provided for.</p> <p>Earthing, gravel, lighting, levelling shall only be done within the extent of the substation area and the scope of works area.</p>
119	REQUEST FOR AN EXTENSION IN PROCUREMENT DEADLINE FOR EXTENSION OF EXISTING 132133 KV NAROK AND BOMET SUBSTATIONS	<p>We had attended the pre-bid meeting on 23rd April, 2024 in KETRACO and participated in Site Visit on 24th April, 2024 at Narok and Bomet Substations</p> <p>In order to obtain all the requirements and complete our perfect bidding documents for your further assessment, We humbly request for an extension of one month to submit the bidding documents, that is the final submission will be submitted on 21 st June, 2024.</p>	<p>Refer to TAC 1 for the revised submission date</p>
120		<p>With reference to the tender subjected above, we hereby request for a clarification on the following issues.</p> <p>1. Considering that the technical information only has the substation line layout without any structural drawings, kindly share the substation's structural design drawing or detailed structural weight</p>	<p>Refer to response in TAC 2 Clarification item no 68</p>

121			Please provide the data sheet of Existing Power Transformer to connect them in Parallel with the new scope.	Refer to response in TAC 2 Clarification item no. 113
122	Section VII, Clause 1.3.1, point j.		- Scope of hardware in contractor scope to connect SCADA & Telecom with dispatch centre	Note that this is an EPC contract, and this will be based on the bidder's design in compliance with the scope of work and technical requirements. The same shall be subject to Employer's approval.
123	Section III, Clause 4.2(a), 4.2(b)	Specific Experience	Instead of completion of contracts within last eight (8) years, can be changed to last ten (10) years starting 1st January 2014.	This is not acceptable
124	Standard procurement document, page 1, point 1		It is mentioned that "the Government of Kenya has applied for financing from the African Development Bank (AfDB) and this contract will be jointly financed by Korean Exim Bank (EDCF)." So, has the loan being applied or the line of credit has already been sanctioned?	The loan has been approved
125			Discuss with the client regarding the dates of site visit and whether site visit is mandatory or not?	Site visit was already conducted on 24th April 2024 and was not mandatory.
126			Client to clarify that the goods imported from foreign countries are 100% exempted of all kind of Duties, taxes and levies, and client will provide us with the required documentation to support during importation	Refer to PCC clause 14.3
127	Section III, Clause 4.2(b)	Specific Experience	it is mentioned that "Four (4) successfully accomplished and operated air insulated substations of 132/33kV with double busbar configuration". Client to confirm whether they are referring to only AIS substation or GIS substation of 132kV or high voltage level can also be considered.	Refer to Section III, 3.1 point 4.2b that indicates air insulated substation. GIS is not acceptable

128		Can the bid security be issued from the bidder's country	Refer to Section 1, clause 20
129		<p>Please confirm that VAT shall not be applicable on the goods import from foreign countries.</p>	<p>Under the recent exemption regime, Tax exemptions will be applicable on all taxable goods and services imported or purchased locally for the exclusive and direct use in execution of project. In this regard, exemptions shall be applicable per the tax laws of the Republic of Kenya.</p> <p>Exemptions are applicable for VAT as provided for under the First Schedule to the VAT Act 2013. Others include exemptions from Railway Development Levy (RDL), Import Duty, Excise Duty, and Import Declaration Form (IDF) Fees. The Contractor and their subcontractors (if any) shall be liable for payment of withholding tax as applicable in Kenya Nothing in this clause shall prevent the Employer from withholding any taxes that the Employer is required under the laws of the Republic of Kenya to withhold. Where payments for the contract price are made directly to the Contractor, the Contractor shall make the necessary arrangements with the Employer to ensure that withholding tax is remitted to the Kenya Revenue Authority in accordance with</p>

				Treasury Circular No.15/2019 dated 11th December, 2019.
130				Please confirm the %age of performance guarantee required.
131				Please confirm the land to construct the new bays has already been acquired by the Client.
132				Considering that the technical information only has the substation line layout without any structural drawings, kindly share the substation's structural design drawing or detailed structural weight
133	Power Transformer TDS Cl.no. 11.2	Power Transformer OLTC		Please confirm whether OLTC can be offered make other than MR i.e ABB Sweden or any Indian manufacturer make
134	Power Transformer TDS Cl.no. 15.1.1	Power Transformer Insulation Levels		As per IEC 60076, the insulation level for a 145 kV system voltage shall be 650 kVp / 275 kVrms. However, in the technical data sheet, the insulation level has been stated as 750 kVp / 275 kVrms, which are not in line with IEC 60076-3 standard. Please confirm BIL levels to be considered as 650 kVp / 275 kVrms for a 145 kV system voltage as per IEC.
				Not accepted. Requirement as indicated in the schedules of Technical Info in section d, clause 11.2 shall apply
				Refer to response in TAC 2 Clarification item no. 115





135	Technical specification Cl. No 14.9	Transformer Capitalisation	<p>Capitalisation rates mentioned in specification: \$ 9000 (nine thousand US Dollar) for no-load losses (Po) \$ 4000 (four thousand US Dollar) for load losses (Pk),</p> <p>Whereas, Capitalisation rates mentioned in documents "Transformer capitalisation / Section III - Functional guarantees": CLn = The cost per kW of no-load losses, that is 900,000 KES/kW; CLL = The cost per kW of load losses, that is, 500,000 KES/kW.</p> <p>Kindly confirm which capitalisation rates needed to be followed.</p>	Refer to response in TAC 2 Clarification item no. 29
136	General	Transformer Testing	<p>Transformer Oil mentioned as Shell Diala S4 ZX-I and same shall be supplied at site. However please confirm whether during factory Acceptance Tests, Indian make oil which is fully inhibited mineral oil type A as per IEC 60296 can be used as per standard practice.</p>	Refer to response in TAC 2 Clarification item no. 116
137			Kindly share the layouts of the existing Narok 132/33kV substation & Existing Bonet 132/33kV Substation.	Refer to revised Part 2-D in Addendum No. 2
138	PCC clause 14- Taxes and Duties	PCC clause 14- Taxes and Duties	<p>We understand that VAT is exempt on imports of materials and equipments imported for the exclusive and direct use in the execution of the project. Accordingly, prices in Schedule 1-PLANT, EQUIPMENT AND MANDATORY SPARES SUPPLIED FROM ABROAD shall be quoted exclusive of VAT.</p> <p>Please confirm our understanding.</p>	Refer to PCC clause 14.3

139	PCC clause 14- Taxes and Duties	PCC clause 14- Taxes and Duties	<p>We understand that VAT is exempt on local purchases for the exclusive and direct use in the execution of the project. Accordingly, prices in Schedule 2 PLANT, EQUIPMENT AND MANDATORY SPARES SUPPLIED FROM WITHIN EMPLOYER'S COUNTRY OF ORIGIN shall be quoted exclusive of VAT.</p> <p>Please confirm our understanding.</p>	Refer to PCC clause 14.3
140	Section III. Evaluation and Qualification Criteria; Clause 1.1 Domestic Preference	Section III. Evaluation and Qualification Criteria; Clause 1.1 Domestic Preference	<p>We understand that for this tender, there is no domestic preference for equipment being supplied locally. Please confirm our understanding. If not, then request you to confirm the list of locally supplied equipment on which the preference shall be applicable.</p>	Refer to response in TAC 2 Clarification Item no. 36
141	<p>Section VII. Employer's Requirements- A - Scope of Supply, 1.1 Scope of Work</p> <p>Section IV: Bidding Forms</p> <p>Section IX: Particular Conditions of Contract, PCC 26. Completion Time Guarantee</p>	<p>Scope of work</p> <p>Construction Schedule</p> <p>Liquidated Damages</p>	<p>Scope of Work:</p> <p>"Complete stringing of transmission line slack spans (between terminal tower and line gantry inclusive of jumpers' termination on the terminal tower) with all related works for the new 132kV Narok-Bomet double circuit transmission line utilizing ACSR Lynx as well as OPGW both at Narok and Bomet Substation ends."</p> <p>Construction Schedule:</p> <p>"Timeline for completion of the line termination gantries and the related busbar(s) to facilitate termination of the transmission line within the first 8-months from contract effectiveness."</p> <p>From the Scope of work, we understand that only line termination gantries and associated hardware are to be completed and No Busbar works required to be done wrt to mentioned milestone (within first 8-months from contract effectiveness).</p>	<p>Line termination works are to be completed as a priority and within 8-months from effective date to allow line contractor to terminate the transmission line and complete their work scope. In case of a delay, the related transmission line termination works shall have to be undertaken by the Substation Contractor at No additional cost to KETRACO as described and designed.</p>

			Please confirm our understanding is correct. Further, in case this activity is not completed within first 8-months, then the contractor shall be liable to pay liquidated damages @0.5% per week of the incomplete amount corresponding to line termination gantries only and not the entire contract value. Please confirm.	
142	Narok Key SLD, Bomet Key SLD Price Schedule : Schedule_1_SS Technical Data Sheet for 132kV CB	132KV Circuit Breaker	As per Single Line Diagram and Technical Data sheets, 132kV CB for Bus Coupler Bay shall be 3150A. However as per price schedule Sr. 1.1 & 1.2, all Circuit Breakers are 1250A. 3150A Circuit Breaker is not included. Please confirm 132kV Circuit Breaker rating for Bus Coupler and confirm whether single pole or gang operated type.	Refer to response in TAC 2 Clarification item no. 23
143	Narok Key SLD, Bomet Key SLD Price Schedule : Schedule_1_SS Technical Data Sheet for 132kV Isolator	132KV Isolator	As per Single Line Diagram and Technical Data sheets, 132kV Isolator for Bus Coupler Bay shall be 3150A. However as per price schedule Sr. 1.3, Isolators are 1600A. Please confirm 132kV Isolator rating for Bus Coupler Bay.	Refer to response in TAC 2 Clarification item no. 23
144	Narok Key SLD, Bomet Key SLD Price Schedule : Schedule_1_SS Technical Data Sheet for 33kV CB	33KV Circuit Breaker	As per Single Line Diagram and Technical Data sheets, all 33kV Circuit Breakers shall be 2000A. However as per price schedule Sr. 2.1, all 33kV Circuit Breakers are mentioned as 1600A. Please confirm 33kV Circuit Breaker rating.	Refer to the revised Price schedules for Narok and Bomet Substations in Addendum No. 2
145	Narok Key SLD, Bomet Key SLD Price Schedule : Schedule_1_SS Technical Data Sheet for 33kV Isolator	33KV Isolator	As per Single Line Diagram and Technical Data sheets, 132kV Isolator for Bus Coupler Bay shall be 3150A. However as per price schedule Sr. 1.3, Isolators are 1600A. Please confirm 132kV Isolator rating for Bus Coupler Bay.	Refer to response in TAC 2 Clarification item no. 23

146	Section VII. Employer's Requirements- B - Specifications - 6. Surge Arrester	Surge Arrester	Please confirm whether Surge Arrester with Polymer Insulator can be offered instead of porcelain type.	Refer to response in TAC 2 Clarification item no. 73
147	Section VII. Employer's Requirements- B - Specifications - 14 Power Transformers Price schedule-1 Sr. 3.2 & 3.3	Fire Protection	We understand that for Power Transformer Fire protection, only portable CO2 type fire extinguishers are to be supplied. Any other protections such as Nitrogen Injection fire protection system are not required. Please confirm.	Refer to Section VII B clause 14.10 on when nitrogen injection is required. For other fire protection systems required these are indicated in the employer's requirements and price schedules
148	Section VII. Employer's Requirements- A - Scope of Supply, 1.3.1 (v) Price schedule-1 Sr. 13.2.2, 13.2.3	110V Battery Set	As per scope of works, One set of 400AH, 110V Battery set with 100A charger is to be supplied. However as per price schedule two nos 110V Battery Set and Charger are to be supplied. Further in TDS charger rating is also mentioned as 300A which is very high for 400AH battery.  Please review scope for 110V Battery & Charger and confirm charger rating in TDS.  Also please confirm scope related to existing 300AH battery installed in substation.	1 set of 110 V batteries and battery charger to be provided. Refer to revised schedules of technical information as well as the Revised Price schedules for Narok and Bommet substations. Refer to Section VII A- 1.3.1 v and 1.3.2 t for scope of works regarding existing batteries
149	Section VII. Employer's Requirements- A - Scope of Supply, 1.3.1 (c) Price schedule-1 Sr. 4.1 Single Line Diagram, Protection single line diagram	Auxiliary Transformer	As per scope of works, Existing auxiliary transformer (100kVA) is to be replaced with new 250kVA auxiliary transformer at same place. However as per SLD, new auxiliary transformer is indicated in new bus section-2. Removal of existing auxiliary transformer is not indicated. Protection single line diagram indicates, new 250kVA Transformer on new bus section-2 and replacement of existing 100kVA transformer by new 250kVA transformer.	Refer to response in TAC 2 Clarification item no. 44

			Quantity for 250kVA Auxiliary Transformer in price schedule is only 1 Set	
			Please review and clarify scope for 250kVA Auxiliary transformer and existing 100kVA transformer.	
150	Section VII. Employer's Requirements- A - Scope of Supply, 1.3.1 (ee)  Price schedule-4 Sr. 13.27 Construction of Generator House	DG Set Building	As per price schedule-4, DG set is to be installed in building. Please provide drawing for DG building as per KETRACO practices. Please confirm whether DG set can be housed in control building extension (in separate room) instead of separate building.	DG cannot be housed in the control building. In regard to DG building drawing, note that this is an EPC contract and this will be based on the bidder's design in compliance to the scope of work and technical requirements. The location of the DG house should be appropriate located within the substation area per design.
151	Section VII. Employer's Requirements- B - Specifications - 3.2.5.2 Point On Wave Switching relay	POW relay for CB	As per specification, requirement for Point on wave switching relay is mentioned. Please check and confirm scope for this relay as generally this relay is used for 400KV Transmission lines & Reactor bays. Please review and confirm for which bay CBs this device is to be supplied.	Refer to response in TAC 2 Clarification item no. 6
152	Section VII. Employer's Requirements- B - Specifications - 15.23 Low Voltage Power and Control Cables (LV Cables)	LV Control Cables	Please confirm that for LV control cables, both armouring & copper tape shielding to be considered as per clause 15.23.3. Further all control cables shall be PVC insulated, termite resistant, vermin proof and as per clause 15.23.1 for outer sheath. Please confirm.	Refer to section VII B 15.23.1 which states that all cables shall be of halogen free type, flame retardant, low smoke density. All control cables should have armour and copper shielding. PVC is not halogen free and hence not accepted

153	Section VII. Employer's Requirements- B - Specifications - 15.23 Low Voltage Power and Control Cables (LV Cables)	LV Power Cables	Please confirm whether LV Power cables are armoured OR without armoured. Also please confirm requirement of copper tape screen for control cables. Further we understand all LV power cables are XLPE insulated, with Halogen free-Low Smoke-Flame retardant outer sheath as per clause 15.23.1. Please confirm.	Refer to section VII B 15.23.1 which states that all cables shall be of halogen free type, flame retardant, low smoke density. All control cables should have armour and copper shielding
154	Section VII. Employer's Requirements- B - Specifications - 16 Earthing And Lightning Protection	Earthing	We understand that existing main earthing grid is to be extended for proposed extension works as per layout extension works. As per site visit information main earthing grid is 95sqmm CU stranded conductor, and same to be extended for proposed extension works. Please confirm.	Note that this is an EPC contract and this will be based on the bidder's design in compliance to the scope of work and technical requirements
155	Technical Data Sheet - j) LOW VOLTAGE DC SYSTEM	48V Battery & Charger	In Technical data sheets, technical parameters for 48V DC Battery and Charger are also indicated. We understand any data related to 48V DC Battery, Charger is not to be filled in TDS. Please confirm	Confirmed
156	Section VII. Employer's Requirements- B - Specifications - 3.3 Disconnectors and Earth Switches Technical Dats Sheet- 132kV Disconnecter / 33kV Disconnecter	132kV Disconnecter	We understand that Bus Transfer switching capability is not required for 132kV Busbar disconnectors. Please confirm.	Confirmed
157	Section VII. Employer's Requirements- B - Specifications - 3.3 Disconnectors and Earth Switches	132kV Disconnecter	In Technical Data sheets, class E2 is mentioned for earthswitch for both 132kV & 33kV Disconnecter. We understand that 132kV & 33kV earth switches associated with disconnecter shall be class E0 without making current capability. Please review and confirm.	The schedules of technical info do not mention E2 class for earth switches. Short circuit values in the schedules of technical info are validated

	Technical Dats Sheet- 132kV Disconnector / 33kV Disconnector		Also confirm short circuit capability for earth switch for 132kV & 33kV.	
158	Section VII. Employer's Requirements- B - Specifications - 3.3 Disconnectors and Earth Switches  Technical Dats Sheet- 132kV Disconnector / 33kV Disconnector	132kV Disconnector	Please confirm that 132kV & 33kV Disconnector & earth switches shall be with Aluminium blade with solver plated copper contacts.	Refer to the schedules of technical information
159	Section VII. Employer's Requirements- B - Specifications - 3.3 Disconnectors and Earth Switches  Technical Dats Sheet- 132kV Disconnector / 33kV Disconnector	33kV Disconnector	As per Technical Data sheets, 33kV disconnector and earth switch are mentioned as motor plus manual operated type. Please review and confirm requirement.	Disconnectors and Earth switches are required to be both motor operated and manual operated.
160	Section IV- Price Schedule Bommet S/S; Schedule_1, Item No. 3.2	Extension of Existing 132/33 kV Bommet SS	With reference to Schedule_1, Item no 3.2, we understand that there is no requirement of fire water tank, fire pump room, hydrant system for extension work. Please confirm our understanding.	Confirmed
161	Section IV- Price Schedule Bommet S/S; Schedule_1, Item No. 3.2	Extension of Existing 132/33 kV Bommet SS	With reference to Schedule_1, Item no 3.2, we understand that there is no requirement of nitrogen injection fire protection system (NIFPS) for new transformers/reactors. Please confirm our understanding.	Confirmed

162	Section IV- Price Schedule Bomet S/S; Schedule_1, Item No. 3.3	Extension of Existing 132/33 kV Bomet SS	We presume that 50 kg wheeled Dry-Powder Fire extinguisher for Power Transformer is to be provided. Hence, we shall not consider the Nitrogen injection fire protection system (NIFPS) for transformers/reactors. Please confirm our understanding.	Confirmed
163	PART 2 – Employer's Requirements	Extension of Existing 132/33 kV Bomet SS	We presume that there is provision in the Existing FDA cum Annunciation panel located in the existing Control Building to take the FDA Signal & to connect with detectors & devices of extended portion in current scope. So new FDA panel is not required separately for extended portion for Fire detection system. Please confirm our understanding.	A new Fire Detection and Alarm system is required for the extension portion of the control building. Refer to the Revised Price Schedules of Bomet schedule 4 no 13.25
164	PART 2 – Employer's Requirements	Extension of Existing 132/33 kV Bomet SS	Existing fire protection system layouts and fire alarm system layouts are not provided along with the tender document. Request you to kindly provide the same for extending in the extension portion area.	A new Fire Detection and Alarm system is required for the extension portion of the control building. Refer to the Revised Price Schedules of Bomet schedule 4 no 13.25
165	PART 2 – Employer's Requirements SLD & PSLD	Extension of Existing 132/33 kV Bomet SS	As shown in PSLD, Bus coupler bay current transformer rating is 2000/1600/800 A. Request you to confirm whether we can propose 132kV bus bar current rating as 2000A, 31.5 kA, 3 sec instead of 3150 A, 31.5 kA, 3 sec.	Not accepted.  Refer to the SLD for busbar current rating
166	PART 2 – Employer's Requirements SLD	Extension of Existing 132/33 kV Bomet SS	As shown in SLD, 132kV bus bar rating is 3150 A, 31.5 kA, 3 sec. We understand that we have to propose suitable size of Al tube/ QUAD conductor for 132 kV main bus 1 and bus 2. Request you to please confirm whether Al tube/ QUAD conductor is to be used.	Note that this is an EPC contract, and this will be based on the bidder's design in compliance with the scope of work and technical requirements. The same shall however be subject to Employer's approval.



167	PART 2 - Employer's Requirements SLD	Extension of Existing 132/33 kV Bonnet SS	Please confirm whether the 132 kV bus bar type is Rigid Bus or Strung Bus.	Note that this is an EPC contract, and this will be based on the bidder's design in compliance with the scope of work and technical requirements
168	PART 2 - Employer's Requirements- Technical specification SLD PSLD	Extension of Existing 132/33 kV Bonnet SS	In Technical specification, Section 6, clause 6.1.2, It is mentioned to take bus bar rating from SLD. In SLD, 33kV bus bar rating is not given. As per PSLD, existing 33 kV bus bar rating given is 1250 A. Please confirm whether we can consider 33kV bus bar rating as 1250A for extension work.	Confirmed, 1250A, 25KA, 3 SEC is to be used for 33 kV busbars
169	PART 2 - Employer's Requirements Layout	Extension of Existing 132/33 kV Bonnet SS	Please provide existing layout plan and Section of BOMET Substation.	Refer to revised Part 2-D in Addendum No. 2
170	PART 2 - Employer's Requirements Layout	Extension of Existing 132/33 kV Bonnet SS	Please provide existing control room layout for extension/modification work.	Refer to revised Part 2-D in Addendum No. 2
171	PART 2 - Employer's Requirements Layout	Extension of Existing 132/33 kV Bonnet SS	Please confirm whether we have to dismantle the existing 132 kV line (SOTIK-1) equipments and bus bar for modification from single bus to double bus scheme.	Confirmed. Also note that this is an EPC contract, and this will be based on the bidder's design in compliance to the scope of work and technical requirements.
172	PART 2 - Employer's Requirements Layout	Extension of Existing 132/33 kV Bonnet SS	Please provide drawing of 33kV structure.	This will be provided to the successful bidder
173	Section IV- Price Schedule Narok S/S; Schedule_1, Item No. 3.2	Extension of Existing 132/33 kV Narok SS	With reference to Schedule_1, Item no 3.2, we understand that there is no requirement of fire water tank, fire pump room, hydrant system for extension work. Please confirm our understanding.	Confirmed

174	Section IV- Price Schedule Narok S/S; Schedule_1, Item No. 3.2	Extension of Existing 132/33 kV Narok SS	With reference to Schedule_1, Item no 3.2, we understand that there is no requirement of nitrogen injection fire protection system (NIFPS) for new transformers/reactors. Please confirm our understanding.	Confirmed
175	Section IV- Price Schedule Narok S/S; Schedule_1, Item No. 3.3	Extension of Existing 132/33 kV Narok SS	We presume that 50 kg wheeled Dry-Powder Fire extinguisher for Power Transformer is to be provided. Hence, we shall not consider the Nitrogen injection fire protection system (NIFPS) for transformers/reactors. Please confirm our understanding.	Confirmed
176	PART 2 – Employer's Requirements	Extension of Existing 132/33 kV Narok SS	We presume that there is provision in the Existing FDA cum Annunciation panel located in the existing Control Building to take the FDA Signal & to connect with detectors & devices of extended portion in current scope. So new FDA panel is not required separately for extended portion for Fire detection system. Please confirm our understanding.	A new Fire Detection and Alarm system is required for the extension portion of the control building. Refer to Revised Price Schedule of Narok schedule 4 no 13.25
177	PART 2 – Employer's Requirements	Extension of Existing 132/33 kV Narok SS	Existing fire protection system layouts and fire alarm system layouts are not provided along with the tender document. Request you to kindly provide the same for extending in the extension portion area.	A new Fire Detection and Alarm system is required for the extension portion of the control building. Refer to Revised Price Schedule of Narok schedule 4 no 13.25
178	PART 2 – Employer's Requirements SLD & PSLD	Extension of Existing 132/33 kV Narok SS	As shown in PSLD, Bus coupler bay current transformer rating is 2000/1600/800 A. Request you to confirm whether we can propose 132kV bus bar current rating as 2000A, 31.5 kA, 3 sec instead of 3150 A, 31.5 kA, 3 sec.	Not accepted. Refer to the SLD for busbar current rating
179	PART 2 – Employer's Requirements SLD	Extension of Existing 132/33 kV Narok SS	As shown in SLD, 132kV bus bar rating is 3150 A, 31.5 kA, 3 sec. We understand that we have to propose suitable size of AI tube/ QUAD conductor for 132 kV main bus 1 and bus 2.	Note that this is an EPC contract, and this will be based on the bidder's design in compliance to the scope of work and technical requirements

			Request you to please confirm whether Al tube/ QUAD conductor is to be used.	
180	PART 2 - Employer's Requirements SLD	Extension of Existing 132/33 kV Narok SS	Please confirm whether the 132 kV bus bar type is Rigid Bus or Strung Bus.	Note that this is an EPC contract, and this will be based on the bidder's design in compliance to the scope of work and technical requirements
181	PART 2 - Employer's Requirements- Technical specification SLD PSLD	Extension of Existing 132/33 kV Narok SS	In Technical specification, Section 6, clause 6.1.2, It is mentioned to take bus bar rating from SLD. In SLD, 33kV bus bar rating is not given. As per PSLD, existing 33 kV bus bar rating given is 1250 A. Please confirm whether we can consider 33kV bus bar rating as 1250A for extension work.	Confirmed, 1250A, 25KA, 3 SEC is to be used for 33 kV busbars
182	PART 2 - Employer's Requirements Layout	Extension of Existing 132/33 kV Narok SS	Please provide existing control room layout for extension/modification work.	Refer to revised Part 2-D in Addendum No. 2
183	PART 2 - Employer's Requirements Layout	Extension of Existing 132/33 kV Narok SS	Please confirm whether we have to dismantle the existing 132 kV line (OLKARIA-1) equipments and bus bar for modification from single bus to double bus scheme.	Confirmed. Also note that this is an EPC contract and this will be based on the bidder's design in compliance to the scope of work and technical requirements
184	PART 2 - Employer's Requirements Layout	Extension of Existing 132/33 kV Narok SS	Please provide drawing of 33kV structure.	This will be provided to the successful bidder

185	Section II – Bid Data Sheet (BDS) ITB 11.1 (I)	<p>As per the clause, Bidder has to submit documents that prove experience and eligibility for registration with NCA class 1 category. The winning bidder must provide evidence of successful registration within three months after issuance of notification of award.</p> <p>We understand that bidder can submit evidence to KETRACO after award of contract.</p> <p>There is no mandatory requirement to submit the same along with technical bid.</p> <p>Please confirm our understanding.</p>	<p>Refer to Section II, BDS ITB 11.1</p> <p>The bidder should provide <b>documents that prove experience and eligibility for registration with NCA class 1 category.</b></p> <p>Upon being successful the winning <b>bidder must provide evidence of successful registration under NCA class 1 category upon issuance of notification of award and before contract signing.</b></p> <p>The above are two separate requirements, the first is on bidding stage and the second is applicable for the winning bidder.</p>
186	Section VII: Employer's Requirements, Contractor's Representative and Key Personnel, Notes Page No. 185	<p>As per the Employers requirement Notes:</p> <p>"The contractor's engineers who shall form part of the key personnel must be registered as Professional Engineers with the Engineers Board of Kenya."</p> <p>Kindly confirm whether bidder can submit data related to proposed key personnel's registration as Professional Engineers with the Engineers Board of Kenya after award of contract.</p>	<p>Refer to response in TAC 2 Clarification item no. 62</p>
187	Section VII: Employer's Requirements, Contractor's Representative and Key Personnel, Notes Page No. 182	<p>As per the Employers requirement Notes:</p> <p>For Contractor's Representative and Key Personnel, under No. P2, Site Supervisor for Tower Erection and Site Supervisor for Stringing are asked.</p> <p>Please confirm whether the same are required for substation project.</p>	<p>Confirmed.</p> <p>Refer to Section VII A clause 1.3.1 and 1.3.2</p>

188	Section VII: Employer's Requirements, Contractor's Representative and Key Personnel, Notes Page No. 185		As per the Employers requirement Notes: For Contractor's Representative and Key Personnel, under No. P4, Transmission line specialists are asked. We understand that it is typo error and same should be read as substation specialist. Please confirm our understanding.	Refer to response in TAC 2 Clarification item no. 3
189	Section VII: Employer's Requirements, Contractor's Representative and Key Personnel, Notes Page No. 185		As per the Employers requirement Notes: For Contractor's Representative and Key Personnel, special experience requirement is asking about experience in Transmission line projects. We understand it should be for substation. Please confirm our understanding.	Refer to response in TAC 2 Clarification item no. 3
190	Section VII: Employer's Requirements, Contractor's Representative and Key Personnel, Notes Page No. 185		" * One expert for each substation at Narok and Bonnet" is mentioned on the page. However, there is no marking of " * " provided for any of the requirement. Please confirm. Also, please provide the list of experts to be submitted.	Refer to item 8 of Addendum No. 2 revising related section of Part 1 and 3 document.
191	Section VII. Employer's Requirements- B - Specifications; Clause 4.3		As per the clause, One complete set each of special tools in new condition as needed for operation, maintenance and repairs as well as for changing out components of substations and overhead lines and for storing dismounted parts shall be included in the delivery. We request you to please provide the details of tools and equipment to be provided so that all bidders consider the same.	The tools and equipment are as per the manufacture's recommendation as needed
192	Part-I Section-I Instructions to Bidders, Sub-clause 20, Section II Bid Data sheet		We understand that the Bid Security in the form of Bank Guarantee issued by a Bank from the bidder country i.e. India shall be acceptable. Please confirm.	Refer to response in TAC 2 Clarification item no. 128

193	Section II – Bid Data Sheet (BDS); Clause ITB 21.1	As per ITB 21.1 in Bid data Sheet the “Drawings must be provided mandatory in both PDF and original editable CAD (DWG) format.” Kindly confirm which drawings are required in CAD format.	All drawings.
194	Section IV: Bidding Forms - Page No. 112 - Bidding Form submission "Plant".	Please provide the list of supporting documents required to demonstrate our position for the mentioned Bidding Form "Plant"	Please refer to Section VIII GCC Cl. 1.1 on definition on 'Plant'
195	Source of Fund	We understand that project is jointly funded by African Development Bank (AfDB) & Korean Exim Bank (EDCF). Please confirm.	Confirmed
196	Section I - Instructions to Bidders, Section II – Bid Data Sheet (BDS)	<p>"If an unconditional guarantee is issued by a non-bank financial institution located outside the Employer's Country the issuing non-bank financial institution shall have a correspondent financial institution located in the Employer's Country to make it enforceable unless the Employer has agreed in writing, prior to Bid submission, that a correspondent financial institution is not required. In the case of a bank guarantee, the Bid Security shall be submitted either using the Bid Security Form....."</p> <p>We understand that Bid Security in the form of Bank Guarantee submitted from an Indian Bank is acceptable. Please confirm.</p>	Refer to response in TAC 2 Clarification item no. 128



197	Section IV: Bidding Forms  Section IX: Particular Conditions of Contract, PCC 26. Completion Time Guarantee	Construction Schedule Liquidated damages	<p>Timeline for completion of the line termination gantries and the related busbar(s) to facilitate termination of the transmission line within the first 8-months from contract effectiveness.</p> <p>Applicable rate for liquidated damages: one-half percent (0.5%) of the Contract Price per week.</p> <p>The above rate applies to the price of the part of the Facilities, as quoted in the Price Schedule, for that part for which the Contractor fails to achieve Completion within the particular Time for Completion</p> <p>We understand that in case milestone of line termination gantries... is not completed within first 8-months, then the contractor shall be liable to pay liquidated damages @0.5% per week of the incomplete amount corresponding to line termination gantries only and not the entire contract value.</p> <p>Please confirm our understanding is correct</p>	Refer to response in TAC 2 Clarification item no. 141
198	Part 2-Employer's Requirements	Clause 15.3	Provide The Drawing for Guard House with Telecom collocation room which include Customer Equipment Room, Main Equipment Room, Battery/Storage Room, Ladies and Gents Washrooms.	Refer to TAC 2 Clarification item no. 56
199	Section IV- Price Schedules -Bomet 132-33kV SS rev 1; Section IV- Price Schedules - Narok 132-33kV SS	Schedule_4_SS, 13.27	Provide the Drawing for generator house	This is an EPC contract, and this will be based on the bidder's design in compliance to the scope of work and technical requirements. The same shall be subject to Employer's approval.
200	Section IV- Price Schedules -Bomet 132-33kV SS rev 1; Section IV- Price Schedules - Narok 132-33kV SS	Schedule_4_SS; 13.17	Mention The Type of Foundations and Provide and the Drawing for Miscellaneous foundations required to complete the works (such as NER, DG, tanks, etc.)	This is an EPC contract, and this will be based on the bidder's design in compliance to the scope of work and technical requirements



201	Section IV- Price Schedules -Bomet 132-33kV SS rev 1; Section IV- Price Schedules - Narok 132-33kV SS	Schedule_4_SS; 13.21	The price schedule states that "the existing retaining walls shall be extended for extension area," however it does not specify whether a slope stabilisation wall or an RCC retaining wall is required. Please provide the drawing and mention its length.	Refer to Section VII B clause 15.2. Necessary design and drawing are on the scope of the bidder.
202	Section III: Evaluation and Qualification Criteria, 4.2(b) Specific Experience	Specific experience	Tender prequalification for as per documents clause no. Section III: Evaluation and Qualification Criteria, 4.2(b) Specific Experience calls for experience in conversion of single busbar to Double busbar. We will like the specific experience requirement to be amended to similar configuration of substation completed or of similar complexity works completed.	Refer to response in TAC 2 Clarification item no. 1
203	Section IV- Price Schedules -Narok 132-33kV SS Section IV- Price Schedules -Bomet 132-33kV SS rev 1	FAT, Training	We have observed that 'Item no. 18 - FACTORY ACCEPTANCE TESTS', and 'item no. 21 - TRAININGS' are requested in both substations. Considering FAT and training are project specific requirement and not substation specific requirement. We therefore understand this is a typo error and in order to avoid duplication, request you to please modify either one of the price schedule.	Refer to TAC 2 Clarification item no. 2
204	Section VII: Employer's Requirements	Contractor's Representative and Key Personnel	For all the positions requested, the 'Special experience' requirement says '....experience in at least 3 (three) 132 kV (and above) transmission line projects, among which at least 1 (one) shall be in Africa.' We assume that this is a typo error and the same should be Substation projects. Please confirm.	Refer to TAC 2 Clarification item no. 3



205	Part 2-E-2-Narok-Schedules of Technical Info_Rev.1, Part 2-E-3-Bomet-Schedules of Technical Info_Rev.1	33/0.415kV AUXILIARY TRANSFORMER	<p>2.13 Losses</p> <p>2.13.1 No load losses at 75 °C, rated frequency and rated voltage on principal tapping Max. 0.75kW (for Narok) and Max. 065kW (For Bomet)</p> <p>2.13.2 Load losses at rated frequency, 75°C And rated current on principal tapping Max. 3.5kW (for Narok) and Max. 3.0kW (for Bomet)</p> <p>Please confirm different Max. losses are required for both substations.</p>	Refer to TAC 2 Clarification item no. 4
206			Considering five-day's holiday (Labour Day) in China, kindly give us a one-month extension from the current deadline 21st May, 2024 to 21st June, 2024 to allow us to prepare a fully perfect documents.	Refer to TAC 1 on the revised submission date
207	Section I - Instructions to Bidders, Section II - Bid Data Sheet (BDS)	Bid Security	<p>We understand that Bid security from non-financial institution viz. such as an insurance, bonding or surety company is acceptable/</p> <p>- Please confirm that our understanding is correct</p>	Refer to Section I, ITB Clause 20.3
208	Section IX: Particular Conditions of Contract	Time for Commencement and Completion	<p>The Time for Completion of the whole of the Facilities shall be twelve (12) months from the Effective Date as described in the Contract Agreement.</p> <p>- We propose time for completion shall be eighteen (18) months from the Effective date.</p>	Not accepted. Section IX PCC 8.2 shall prevail

209	Section IX: Particular Conditions of Contract	Taxes and duties	<p>We understand that Tax exemptions will be applicable on all taxable goods and services imported or purchased locally for the exclusive and direct use in execution of project. Exemptions are applicable for VAT as provided for under the First Schedule to the VAT Act 2013. Others include exemptions from Railway Development Levy (RDL), Import Duty, Excise Duty, and Import Declaration Form (IDF) Fees.</p> <p>- Please confirm VAT exemptions shall be applicable to subcontractors as well.</p>	<p>Tax exemptions will be applicable as per the outlined schedule to the contractor, subcontractor and the clearing and forwarding agency and specific to the execution of the project. In this regard, exemptions shall be applicable per the tax laws of the Republic of Kenya.</p> <p>The employer will facilitate the exemption based on the application and Master List provided by the Contractor and reviewed by the Employer / Employer's representative.</p>
210	Section IX: Particular Conditions of Contract	Withholding tax	<p>The Contractor and their subcontractors (if any) shall be liable for payment of withholding tax as applicable in Kenya.</p> <p>- Please confirm the applicable rate of WHT.</p>	<p>The Contractor/subcontractors shall be liable for payment of withholding tax as applicable in Kenya. WHT rates vary depending on the residency status of the payee as guided on the KRA website <a href="https://www.kra.go.ke/">https://www.kra.go.ke/</a></p>
211	Section IX: Particular Conditions of Contract	Mode of payment	<p>The Employer may instruct its bank to issue an irrevocable confirmed documentary credit made available to the Contractor in a bank in the country of the Contractor</p> <p>- We understand that all payments for this contract viz. Schedule-1, schedule-2, schedule-3, schedule-4 shall be through Letter of credit (LC). Also, the charges related to payment of LC shall be to KETRACO's account. Please confirm.</p>	<p>This is not applicable in this contract.</p>

212	Section IX: Particular Conditions of Contract	Terms and Procedures of Payment	<p>Schedule No. 1 -</p> <p>Sixty percent (60%) of the total or pro rata CIP amount upon Incoterm "CIP", upon delivery to the carrier</p> <p>Twenty percent (20%) of the total or pro rata CIP amount upon Incoterm "CIP", upon erection and installation</p> <p>- We propose to please modify as below:</p> <p>Eighty percent (80%) of the total or pro rata CIP amount upon Incoterm "CIP", upon delivery to the carrier</p>	Not acceptable. Section X Appendix 1 shall prevail
213	Section VII. Employer's Requirements- A - Scope of Supply	Energy meters	<p>Replacement of energy meters in existing bays and installation of new energy meters in the extension bays</p> <p>- Please confirm the quantities of energy meters</p>	Refer to the Price schedules for Narok and Bomet substations on Meters.
214	Section VII. Employer's Requirements- A - Scope of Supply	Relocation	<p>Supply and installation of One (1) No. 33/0.415kV, 250 kVA, ONAN auxiliary transformer, Dyn11, with 5 taps in step of 2.5% and z =4.5%. The existing transformer shall be decommissioned and delivered to the Client and the new one shall be installed in its place. All related modifications / replacement / relocation / completion work included in the scope of work. Changeover facilities with the generator to be provided. All related modifications/replacement/relocation/completion works shall be included in the scope of work</p> <p>- Please confirm the location/distance of stores for delivery</p>	Location of the existing auxiliary transformers shall be in the respective substations i.e. for Narok SS, the auxiliary transformer shall be delivered / handed over in Narok SS and for Bomet SS, the auxiliary transformer shall be delivered/handed over in Bomet SS.
215			<p>Provide the Electrical Substation Layout for Bomet Substation and Narok Substation KETRACO, Kenya.</p>	Refer to revised Part 2-D in Addendum No. 2. These drawings are for the existing layout drawings. Bidder is to develop the layout drawings as per the scope of works and technical requirements for the Employer's approval

216	Section IV- Price Schedules -Bomet 132-33kV SS rev 1; Section IV- Price Schedules - Narok 132-33kV SS	Schedule_4_SS	Provide the Natural and Finish Ground level of Existing Bomet Substation and Narok Substation KETRACO, Kenya.	This will be established by the successful bidder during detail design stage. However, if any bidder finds it necessary prior to bid submission, KETRACO can facilitate prospective bidders access to the specific sites for data collection.
217	Section IV- Price Schedules -Bomet 132-33kV SS rev 1; Section IV- Price Schedules - Narok 132-33kV SS	Schedule_4_SS	Kindly Provide the Geotechnical Investigation Data for Bomet Substation and Narok Substation KETRACO, Kenya.	It is the bidder's responsibility to undertake geotechnical investigation as per section VII A clause 1.1 and Price Schedule, Schedule 4 item 13.4
218	Section IV- Price Schedules -Bomet 132-33kV SS rev 1; Section IV- Price Schedules - Narok 132-33kV SS	Schedule_4_SS	Provide the peripheral ground level, including the retaining wall section, which can be used for demolition and extension. Work can be done on the retaining wall.	The retaining wall shall be informed by the EPC contractors final design
219	Section IV- Price Schedules -Bomet 132-33kV SS rev 1; Section IV- Price Schedules - Narok 132-33kV SS	Schedule_4_SS	Kindly Provide the Individual drawing of Control Room Building, guard room to include collocation room and Generator House	Refer to revised Part 2-D in Addendum No. 2 for the existing control room building layout and existing guard house drawings.  For guard room/collocation room refer to TAC 2 Clarification item no. 56.  The generator house will be based on the bidder's design in compliance to the scope of work and technical requirements.

220	Section IV- Price Schedules -Bomet 132-33kV SS rev 1; Section IV- Price Schedules - Narok 132-33kV SS	Schedule_4_SS	Provide any nearby disposal places for removable soil.	This is the responsibility of the EPC contractor to identify. Bidder's to undertake own evaluation.
221	Section IV- Price Schedules -Bomet 132-33kV SS rev 1; Section IV- Price Schedules - Narok 132-33kV SS	Schedule_4_SS	Please confirm the Provided Rainfall intensity is applicable for new S/S	Refer to Technical Schedules of Information for Site Conditions item 13
222	Section IV- Price Schedules -Bomet 132-33kV SS rev 1; Section IV- Price Schedules - Narok 132-33kV SS	Schedule_4_SS	Is there a step-cutting option if the future shift was on one level and the existing shift was on another? (Can bidder propose development of substation in multiple levels. Please confirm)	This is an EPC contract, and this will be based on the bidder's design in compliance to the scope of work and technical requirements subject to Employer's / Employer's representative approval.
223	Section IV- Price Schedules -Bomet 132-33kV SS rev 1; Section IV- Price Schedules - Narok 132-33kV SS	Schedule_4_SS	Provide the Dead End Tower Location for Kouritenga Substation	Kouritenga substation does not exist. Clarification is not clear. However, the Narok-Bomet line terminal tower locations shall be dictated by the final approved layout to be developed by EPC Contractor. Coordination with transmission line Contractor shall be required during contract execution.
224	Section IV- Price Schedules -Bomet 132-33kV SS rev 1; Section IV- Price Schedules - Narok 132-33kV SS	Schedule_4_SS	Request you to share the detail (Length, width, Type) of access road from nearest highway/local road to substation gate.	This is the responsibility of the EPC contractor to conduct due diligence and collect any necessary information

225	Section IV- Price Schedules -Bomet 132-33kV SS rev 1; Section IV- Price Schedules - Narok 132-33kV SS	Schedule_4_SS	Provide the Existing Gantry and Equipment Structural Drawing with Foundation Drawing need to relocate or Demolished.	The actual equipment structures to be relocated or demolished will be subject to the final design. Any required drawings shall be provided to the successful bidder.
226	Section IV- Price Schedules -Bomet 132-33kV SS rev 1; Section IV- Price Schedules - Narok 132-33kV SS	Schedule_4_SS	Provide Existing Cable trench Section and Drain Section for Both Substation.	This will be provided to the successful bidder. However, the actual design is the responsibility of the EPC contractor.
227	Section IV- Price Schedules -Bomet 132-33kV SS rev 1; Section IV- Price Schedules - Narok 132-33kV SS	Schedule_4_SS	The Scope of Land is Levelled or Undulated Kindly Provide the Contour Drawing for Both Substation.	Refer to revised Part 2-D in Addendum No. 2 for existing substations. KETRACO can facilitate prospective bidders access to the specific sites for data collection during bidding stage if required by any bidder
228	General	Drawing	Please furnish following drawings for existing Narok substation - 1. Electrical Layout plan and section drawings for 132kV & 33kV switchyards 2. Foundation and outdoor Cable Trench layout 3. Switchyard Earthing Layout with details for main and equipment earthing details 4. Control Building Layout with panel arrangement 5. Control Building civil drawings plan and elevation with roof details. 6. Switchyard drain layout.	1. Refer to revised Part 2-D in Addendum No. 2 2. Drawings will be provided to successful bidder for existing layout. 3. Drawings will be provided to successful bidder 4. Refer to revised Part 2-D in Addendum No. 2 for existing control room building layout. 5. Drawings will be provided to successful bidder 6. Drawings will be provided to successful bidder

229	Section VII. Employer's Requirements- A - Scope of Supply, 1.2.1 Existing Narok 132/33kV Substation	Substation plot	In said clause, plot is indicated in red with plot coordinates. Please confirm whether boundary wall is in scope for the entire plot or only for the extended substation required as per scope of works.	Refer to the revised price schedules of Narok SS in Addendum No. 2
230	Section VII. Employer's Requirements- A - Scope of Supply, 1.2.1 Existing Narok 132/33kV Substation	Land Development	Plot size is marked in red in the Figure-1. Please confirm scope for the land development. We understand that land development to be carried out only for area required for the extension works and not for entire plot. Please confirm.	Land development shall only be done as per the scope of works, refer to Section VII A 1.3
231	Section VII. Employer's Requirements- A - Scope of Supply, 1.2.1 Existing Narok 132/33kV Substation  Narok Key SLD Narok Price Schedule : Schedule_1_SS	Scope for addition of second bus	As per SLD & google earth image provided in bid document, existing substation is with single bus bar. As per scope of works, second bus is to be added and all existing bays to be connected with same with additional disconnecter. As per existing bus and equipment arrangement, there is no vacant space is left for addition of second bus. To add second bus, we need to shift existing Olkaria line bay equipment along with gantry to make space for second bus.  However any scope related to relocation of existing bay is not mentioned in price schedule and scope of works. You are requested to review and clarify.	Refer to revised price schedules of Narok in Addendum No. 2  The scope is about reconfiguration of the substation and EPC contractor responsibility to design and implement a functional substation.
232	Section VII. Employer's Requirements- A - Scope of Supply, 1.2.1 Existing Narok 132/33kV Substation  Narok Key SLD Narok Price Schedule : Schedule_1_SS	Extension scope	Please furnish following drawings for extension works - 1. Electrical Layout plan and section drawings for 132kV & 33kV extension works with modification in existing layout. 2. Scope of land development and boundary wall  Please also confirm line take off orientation for New Narok-Bomet Lines.	1. Refer to revised Part 2-D in Addendum No. 2 for existing layout drawings. Modification drawings and other related drawings are in the scope of the bidder as per their design. 2. Refer to response in TAC 2 Clarification item no. 229 and 230



				The exact position of terminal tower shall be dictated by the final substation layout to be developed by the substation's EPC contractor. Coordination with the transmission line contractor shall be necessary during contract execution.
233	Section VII. Employer's Requirements- A - Scope of Supply, 1.3.1 Extension Works at Narok 132/33 kV Substation (w)	Busbar extension - Demolition of existing busbar	Demolition of existing 132kV busbar is mentioned in scope of works. Please clarify scope of works involved for this scope. Please also confirm conductor type and size for the new Busbars.	The scope of works is as per Section VII A clause 1.3.1 .  On the conductor type and size see TAC 2 Clarification item no. 166
234	Section VII. Employer's Requirements- A - Scope of Supply, 1.3.1 Extension Works at Narok 132/33 kV Substation  Narok Key SLD Narok Price Schedule : Schedule_1_SS	132kV Busbar disconnecter	Please confirm whether pantograph type busbar disconnector are to be considered or busbar disconnectors for new and existing bays.	Refer to the schedules of Technical information for Narok substation
235	Section VII. Employer's Requirements- A - Scope of Supply, 1.3.1 Extension Works at Narok 132/33 kV Substation (x)  Narok Key SLD	132kV CT replacement for existing bays	As per scope existing CTs are to be replaced with new CT for existing Line and Transformer bays. Please confirm that existing structure and foundation shall be utilised to install new CTs. Please provide drawings for existing CT structure and foundation, and MAKE of existing CTs.	For the new CT's for the existing line and transformer bays, new equipment structures and associated foundations are required. This is to be included in the bidder's quote



	Narok Price Schedule : Schedule_1_SS			This will be provided to the successful bidder
236	Section VII. Employer's Requirements- A - Scope of Supply, 1.3.1 Extension Works at Narok 132/33 kV Substation (c), (u), (v)  Narok Key SLD Narok Price Schedule : Schedule_1_SS	Modification in existing LV AC & DC systems	As per scope of works, existing auxiliary transformer is to be replaced with new transformer, New 110V, 400AH battery to be supplied and to be integrated with existing DC system.  Please furnish existing AC & DC auxiliary system SLDs and panel drawings to verify modifications required as per scope of works.	
237	Section VII. Employer's Requirements- A - Scope of Supply, 1.3.1 Extension Works at Narok 132/33 kV Substation (l), (m)	Modification in SAS and Telecom system	Please confirm make of existing SAS and Telecommunication system. Also please furnish architecture drawings for existing SAS and telecommunication systems.	Refer to Response in TAC 2 Clarification Item no. 88 for SAS  Telecommunication is ABB
238	Section VII. Employer's Requirements- A - Scope of Supply, 1.3.1 Extension Works at Narok 132/33 kV Substation (l), (m)	Modification in SAS and Telecom system	Please confirm existing SAS system and IEDs installed in existing system are based on IEC61850 protocol.	Protection relay and BCU are IEC 61850 compliant  For SAS, note the response in TAC 2 Clarification Item no. 88
239	Narok Price Schedule : Schedule_1_SS, Sr. 9.4, 9.5, 9.6,	Modification/Integration in NCC/RCC/NSCC	Please confirm make of existing SAS and Telecommunication system at NCC, RCC and NSCC. Please confirm details of existing network management system installed in NCC, RCC and NSCC. Further please furnish existing Telecommunication network architecture details associated with Narok & Bonmet substation and NCC, RCC and NSCC.	NCC make is ABB.  Refer to revised Part 2-D in Addendum No. 2 for the telecommunication network architecture details

240	<p>Section VII. Employer's Requirements- A - Scope of Supply, 1.2.1 Existing Narok 132/33kV Substation</p> <p>Narok Key SLD</p> <p>Narok Price Schedule : Schedule_1_SS</p>	33kV Switchyard extension	<p>Please confirm following details for 33kV switchyard -</p> <ol style="list-style-type: none"> <li>1. 33kV Busbar details, type and size.</li> <li>2. Layout for 33kV switchyard plan and elevation.</li> </ol> <p>Further we understand that for 33kV OG feeders, 33kV line side hardware, insulator, conductor are not in scope.</p>	<p>1. This is an EPC contract and this will be based on the bidder's design in compliance to the scope of work and technical requirements</p> <p>2. This is an EPC contract and this will be based on the bidder's design in compliance to the scope of work and technical requirements</p> <p>Confirmed, 33kV line side hardware, insulator, conductor are not in scope.</p>
241	<p>Section VII. Employer's Requirements- A - Scope of Supply, 1.2.1 Existing Narok 132/33kV Substation (ee)</p>	DG House	Please provide plan and elevation drawings for DG house.	Note that this is an EPC contract and this will be based on the bidder's design in compliance to the scope of work and technical requirements
242	Narok Price Schedule : Schedule_1_SS, Sr. 1.10b	132kV Bus CVT	<p>Quantity for 132kV Bus CVT is mentioned as 1 No.</p> <p>Please check and confirm that Bus CVT is only required to be provided on one phase and not on all three phases.</p>	Confirmed
243	General	Drawing	<p>Please furnish following drawings for existing Bomet substation -</p> <ol style="list-style-type: none"> <li>1. Electrical Layout plan and section drawings for 132kV &amp; 33kV switchyards</li> <li>2. Foundation and outdoor Cable Trench layout</li> <li>3. Switchyard Earthing Layout with details for main and equipment earthing details</li> <li>4. Control Building Layout with panel arrangement</li> <li>5. Control Building civil drawings plan and elevation with roof details.</li> <li>6. Switchyard drain layout.</li> </ol>	<p>1. Refer to revised Part 2-D in Addendum No. 2 for the existing layout.</p> <p>2. Drawings will be provided to successful bidder</p> <p>3. Drawings will be provided to successful bidder</p> <p>4. Refer to revised Part 2-D in Addendum No. 2 for the existing control room building layout.</p> <p>5. Drawings will be provided to successful bidder</p>

			6. Drawings will be provided to successful bidder
244	Section VII. Employer's Requirements- A - Scope of Supply, 1.2.2 Existing Bommet 132/33kV Substation	Substation plot	In said clause, plot is indicated in red with plot coordinates. Please confirm whether boundary wall is in scope for the entire plot or only for the extended substation required as per scope of works.
245	Section VII. Employer's Requirements- A - Scope of Supply, 1.2.2 Existing Bommet 132/33kV Substation	Land Development	Plot size is marked in red in the Figure-1. Please confirm scope for the land development. We understand that land development to be carried out only for area required for the extension works and not for entire plot. Please confirm.
246	Section VII. Employer's Requirements- A - Scope of Supply, 1.2.2 Existing Bommet 132/33kV Substation  Bommet Key SLD Bommet Price Schedule : Schedule_1_SS	Scope for addition of second bus	As per SLD & google earth image provided in bid document, existing substation is with single bus bar. As per scope of works, second bus is to be added and all existing bays to be connected with same with additional disconnecter. As per existing bus and equipment arrangement, we may need to re-align existing line bay equipment along with gantry to facilitate connection with new bus.  However any scope related to relocation of existing bay is not mentioned in price schedule and scope of works. You are requested to review and clarify.
			Refer to revised price schedules of Narok substation in Addendum No. 2

247	<p>Section VII. Employer's Requirements- A - Scope of Supply, 1.2.2 Existing Bomet 132/33kV Substation</p> <p>Bomet Key SLD Bomet Price Schedule : Schedule_1_SS</p>	<p>Extension scope</p>	<p>Please furnish following drawings for extension works -</p> <ol style="list-style-type: none"> <li>1. Electrical Layout plan and section drawings for 132kV &amp; 33kV extension works with modification in existing layout.</li> <li>2. Scope of land development and boundary wall</li> </ol> <p>Please also confirm line take off orientation for New Narok-Bomet Lines.</p>	<p>1. Refer to revised Part 2-D in Addendum No. 2 for the existing layout drawings. Modification drawings and other related drawings are in the scope of the bidder as per their design.</p> <p>2. Refer to response in TAC 2 Clarification item no. 229 and 230.</p> <p>3. The exact position of terminal tower shall be dictated by the final substation layout to be developed by the substation's EPC contractor. Coordination with the transmission line contractor shall be necessary during contract execution.</p>
248	<p>Section VII. Employer's Requirements- A - Scope of Supply, 1.3.2 Extension Works at Bomet 132/33 kV Substation (dd)</p>	<p>Busbar extension - Demolition of existing busbar</p>	<p>Demolition of existing 132kV busbar is mentioned in scope of works. Please clarify scope of works involved for this scope. Please also confirm conductor type and size for the new Busbars.</p>	<p>The scope of works is as per Section VII A clause 1.3.2 .</p> <p>On the conductor type and size see TAC 2 Clarification item no. 166</p>
249	<p>Section VII. Employer's Requirements- A - Scope of Supply, 1.3.2 Extension Works at Bomet 132/33 kV Substation</p> <p>Bomet Key SLD Bomet Price Schedule : Schedule_1_SS</p>	<p>132kV Busbar disconnecter</p>	<p>Please confirm whether pentograph type busbar disconnector are to be considered or busbar disconnectors for new and existing bays.</p>	<p>Refer to the schedules of Technical information for Bomet substation</p>

250	Section VII. Employer's Requirements- A - Scope of Supply, 1.3.2 Extension Works at Bommet 132/33 kV Substation (dd)  Bommet Key SLD Bommet Price Schedule : Schedule_1_SS	132kV CT replacement for existing bays	As per scope existing CTs are to be replaced with new CT for existing Line and Transformer bays. Please confirm that existing structure and foundation shall be utilised to install new CTs. Please provide drawings for existing CT structure and foundation.	Refer to response in TAC 2 Clarification item no. 235
251	Section VII. Employer's Requirements- A - Scope of Supply, 1.3.2 Extension Works at Bommet 132/33 kV Substation (c), (s), (t)  Bommet Key SLD Bommet Price Schedule : Schedule_1_SS	Modification in existing LV AC & DC systems	As per scope of works, existing auxiliary transformer is to be replaced with new transformer, New 110V, 400AH battery to be supplied and to be integrated with existing DC system.  Please furnish existing AC & DC auxiliary system SLDs and panel drawings to verify modifications required as per scope of works.	This will be provided to the successful bidder
252	Section VII. Employer's Requirements- A - Scope of Supply, 1.3.2 Extension Works at Bommet 132/33 kV Substation (l), (m)	Modification in SAS and Telecom system	Please confirm make of existing SAS and Telecommunication system. Also please furnish architecture drawings for existing SAS and telecommunication systems.	Refer to Response in TAC 2 Clarification item no. 88 for SAS  Telecommunication is ABB
253	Section VII. Employer's Requirements- A - Scope of Supply, 1.3.2 Extension Works at Bommet 132/33 kV Substation (n), (n)	Modification in SAS and Telecom system	Please confirm existing SAS system and IEDs installed in existing system are based on IEC61850 protocol.	Protection relay and BCU are IEC 61850 compliant.  For SAS, note the response in TAC 2 Clarification Item no. 88

254	Bomet Price Schedule : Schedule_1_SS, Sr. 9.4, 9.5, 9.6,	Modirication/integration in NCC/RCC/NSCC	Please confirm make of existing SAS and Telecommunication system at NCC, RCC and NSCC. Please confirm details of existing network management system installed in NCC, RCC and NSCC. Further please furnish existing Telecommunication network architecture details associated with Narok & Bomet substation and NCC,RCC and NSCC.	NCC make is ABB.
255	Section VII. Employer's Requirements- A - Scope of Supply, 1.2.2 Existing Bomet 132/33kV Substation  Bomet Key SLD Bomet Price Schedule : Schedule_1_SS	33kV Switchyard extension	Please confirm following details for 33kV switchyard - 1. 33kV Busbar details, type and size. 2. Layout for 33kV switchyard plan and elevation.  Further we understand that for 33kV OG feeders, 33kV line side hardware, insulator, conductor are not in scope.	1.This is an EPC contract and this will be based on the bidder's design in compliance to the scope of work and technical requirements 2. This is an EPC contract and this will be based on the bidder's design in compliance to the scope of work and technical requirements  Confirmed, 33kV line side hardware, insulator, conductor are not in scope.
256	Section VII. Employer's Requirements- A - Scope of Supply, 1.2.2 Existing Bomet 132/33kV Substation	33kV Switchyard extension	As per the plot details in bid document and space required for new 33kV bays, space available adjacent to existing 33kV switchyard may not be sufficient. Please confirm location of 33kV switchyard considering 33kV OG lines	This is an EPC contract, and this will be based on the bidder's design in compliance with the scope of work and technical requirements.
257	Section VII. Employer's Requirements- A - Scope of Supply, 1.2.2 Existing Bomet 132/33kV Substation (d)	Recovery of existing auxiliary transformer	In scope, recovery of 1000kVA transformer is mentioned. We presume that rating is 100kV and not 1000kVA. 1000kVA is typographical error.	Confirmed, this is 100 KVA
258	Section VII. Employer's Requirements- A - Scope of Supply, 1.2.2 Existing	DG House	Please provide plan and elevation drawings for DG house.	Note that this is an EPC contract, and this will be based on the bidder's design in compliance with the scope of work and technical requirements



	Bomet 132/33kV Substation (hh)			
259	Bomet Price Schedule : Schedule_1_SS, Sr. 1.10b	132kV Bus CVT	Quantity for 132kV Bus CVT is mentioned as 1 No. Please check and confirm that Bus CVT is only required to be provided on one phase and not on all three phases.	Refer to response in TAC 2 Clarification item no. 242
260	Section VII. Employer's Requirements- A - Scope of Supply, 1.2.2 Existing Bomet 132/33kV Substation (cc)	External approach road	As per scope 1000M external approach road to be constructed. Please confirm road width and road type i.e. concrete road OR bitumen road. Also please confirm whether drain is to be considered along with approach road.	Refer to revised price schedule of Bomet in Addendum No. 2
261		Proposed 132/33kV Bomet S/S Extension Layout Plan	Please provide the tender Purpose 132/33kV SS Bomet layout plan and Section layout.	Refer to revised Part 2-D in Addendum No.2 for the existing layout drawings.
262		Proposed 132/33kV Bomet S/S Extension SLD	Please specify the type of Bus bar to be used for 132kV and 33kV, whether Rigid Aluminium tube or Strung bus.	This is an EPC contract, and this will be based on the bidder's design in compliance to the scope of work and technical requirements
263		PART 2 - Employer's Requirements	Please confirm whether the type of 132kV Current transformer to be used is live tank or dead tank.	Live tank is to be used
264		PART 2 - Employer's Requirements SLD	As shown in SLD, there is one outdoor two core neutral current transformer for power transformer. This item is not mentioned in Price schedule. Please include the same.	Refer to the Revised price schedule of Narok and Bomet substations in Addendum No. 2
265		PART 2 - Employer's Requirements	Please confirm for power transformer, short time current rating is 31.5kA for 1 sec or 2 Sec.	Refer to the schedules of technical information for Narok and Bomet substations
266		PART 2 - Employer's Requirements	Section 14.1.1, as per power transformer specification details, we understand that Online Condition Monitoring (DGA & ODS) for power transformer is not required. Please confirm our understanding.	Confirmed

267	Proposed 132/33kv Bomet S/S Extension SLD	Bushing and neutral current transformers for existing power transformer are not shown in SLD. Request you to please check and confirm. Further, please mention the same in Price schedule also.	Provided drawings in Section 2-D are sufficient
268	Proposed 132/33kv Bomet S/S Extension SLD	Single phase CVT (2 core) provided for 132kV bus bar is only one number. We presume that 3 single phase CVTs per bus should be provided. So the total number of required CVTs (1-phase, 2-core) are six. Please check and confirm.	Refer to response in TAC 2 Clarification Item no. 242
269	PART 2 – Employer's Requirements	Please confirm 132kV disconnector switch main blade material type is copper or aluminium.	Refer to response in TAC 2 Clarification Item no. 158
270	PART 2 – Employer's Requirements	Please confirm 132kV disconnector switch to be used is Horizontal Double Break or Horizontal Center Break or Pantograph type.	Refer to the technical schedules of technical information
271	PART 2 – Employer's Requirements	Pantograph Type isolator is not included in Price schedule. If Main bus is of Aluminium Tube, then we have to use Pantograph type isolator. Please confirm.	This is an EPC contract, and this will be based on the bidder's design in compliance to the scope of work and technical requirements
272	Proposed 132/33kv Bomet S/S Extension SLD	For bus coupler bay, provided 132kV disconnector switch is without earthing switch. We presume that it should be with one earth blade disconnector switch. Please check and confirm our understanding.	Refer to SLD for Bomet substation. This shall prevail
273	PART 2 – Employer's Requirements Section IV- Price Schedules -Bomet 132-33kV SS, SLD	For bus coupler bay, provided disconnector switch is Motorized disconnector (3-phase) 132kV, 1600A, 31.5kA, without earthing switch with earth mat. As per SLD, disconnector switch rating is 132kV, 3150A, 31.5kA 1 sec. Required number is 2 quantity. Please check and confirm.	Refer to response in TAC 2 Clarification item no. 23



274	PART 2 - Employer's Requirements Section IV- Price Schedules -Bomet 132-33kV SS,	Please confirm Schedule_1_SS, 132kV PRIMARY PLANT, line item 1.3, required number is 3 as other two is bay coupler disconnect switch of different rating.	See the revised price schedules of Bomet substation in Addendum No. 2
275	Proposed 132/33kv Bomet S/S Extension SLD	CVT's are connected to 132kV bus bar without isolator as shown in SLD. Please confirm.	Confirmed
276	Proposed 132/33kv Bomet S/S Extension SLD	Please confirm whether Auxiliary transformer connection with 33kV bus bar is through circuit breaker or isolator.	This will be through fuses, refer to Price schedule of Bomet substation.
277	PART 2 - Employer's Requirements Section IV- Price Schedules -Bomet 132-33kV SS, Technical datasheet	Rating of Auxiliary transformer as given in Price schedule is 33/0.415 kV, 250 KVA, while as per GTP rating given is 33/0.415 kV, 315 KVA. Please specify which rating of Auxiliary Transformer is to be used.	Refer to the revised schedule of technical info of Bomet substation in Addendum No. 2
278	PART 2 - Employer's Requirements Section IV- Price Schedules -Bomet 132-33kV SS, Technical datasheet	As per Price schedule, Item no - 1.2, Given number of quantity for 132kV Circuit Breaker (3 phase) 1600A, 31.5kA - ganged is two. As per SLD required number is only one. Please confirm exact requirement.	One (1) 132 kV 1600 A Circuit breaker for transformer bay and One (1) 132 kV 3150A Circuit breaker is required. Refer to revised price schedule of Bomet substation in Addendum No. 2
279	PART 2 - Employer's Requirements Section IV- Price Schedules -Bomet 132-33kV SS, Technical datasheet	As per Price schedule, Item no - 1.2, For bus coupler bay given CB is 132kV Circuit Breaker (3 phase) 1600A, 31.5kA - ganged. As per SLD/GTP required rating of CB is 132kV Circuit Breaker (3 phase) 3150A, 31.5kA - ganged. Quantity required is one. Please confirm the exact requirement.	One (1) 132 kV 1600 A Circuit breaker for transformer bay and One (1) 132 kV 3150A Circuit breaker is required. Refer to revised price schedule of Bomet substation in Addendum No. 2

280	PART 2 – Employer's Requirements SLD	As per Price schedule, Item No 2.1, 33kV Circuit Breaker (3 phase) 1600A is mentioned, while as per SLD it is mentioned 2000A. Please confirm the 33kV Circuit Breaker Rating.	33 kV Circuit breaker should be rated at 2000A. Refer to revised price schedule of Bomet and Narok substation in Addendum No. 2
281	PART 2 – Employer's Requirements Technical Datasheet	As per GTP, given 110V battery charger current rating is 300A, while in technical specification current rating given is 100A. Please confirm which current rating of battery charger is to be considered.	Charger current rating is 100A. Refer to revised schedule of technical info of Bomet and Narok substations in Addendum No. 2
282	PART 2 – Employer's Requirements	As per Technical Specification max 8 Hrs Shutdown is given. We may require continuous shutdown of more than 8 hrs as per site requirement. Please confirm whether the same is acceptable.	As per SECTION VII A sub clause 1.1, shutdown shall not be more than 8 hours. The interruption/shutdown shall not be provided on consecutive days.
283	PART 2 – Employer's Requirements	As per Scope of Work, Existing Control Room extension / Modification is required. Please provide Existing Control Room Equipment Layout.	Refer to revised Part 2-D in Addendum No. 2 for the existing control building layout
284	General	Please confirm the soil resistivity value for estimating earthing quantity.	This is an EPC contract, and this is in the bidder's scope to collect this information
285	General	Please confirm the Conductor / Al Tube Requirement for below: 1) 132kV Main Bus Bar - AL Tube / Strung Bus 2) 132kV Equipment to Equipment - Conductor 3) 33kV Main Bus - AL Tube 4) 33kV Equipment to Equipment - Conductor	This is an EPC contract, and this will be based on the bidder's design in compliance to the scope of work and technical requirements
286	General	Please confirm outdoor lighting fixture mounting is on gantry structure or lighting mast.	These are on the lighting masts, however this is an EPC contract and this scope of work will be based on the bidder's design in compliance to

			the scope of work and technical requirements
287	General	We understand that in BOMET Existing SS, 132kV Line and 132kV Transformer Bay is 90 Degree placed. We have to upgrade Single 132kV Bus to Double Bus. Hence We have to Dismantle the 132kV Line & Transformer Bay with all Equipment and re-arrange with New 132kV proposed Layout with Double Bus. Please confirm our understanding.	Confirmed, however this is an EPC contract, and this will be based on the bidder's design in compliance to the scope of work and technical requirements
288	General	Please provide existing layout drawing: 1. Layout plan & Section Layout 2. Earthing layout 3. Control room equipment layout 4. Cable trench layout 5. Lightning Protection Layout 6. Erection key diagram	1. Refer to revised Part 2-D in Addendum No. 2 for existing layout. 2. Drawings will be provided to the successful bidder 3.Refer to revised Part 2-D in Addendum No. 2 for existing layout 4. Drawings will be provided to successful bidder 5.Drawings will be provided to successful bidder 6.Drawings will be provided to successful bidder
289	General	Please provide existing Make and Model number of existing SAS of Bomet SS.	Refer to Response in TAC 2 Clarification item no. 88
290	General	Please confirm whether the Main -1 & Main-2 Protection Relay has to be of same make or different make.	Refer to Section VII B clause 7.2.1.2 c
291	General	Please confirm whether the Substation integration with NCC & LCC is required or not.	Refer to Section VII B clause 8.2.1 and price schedules
292	General	Please confirm whether existing LVAC & LVDC Board extension is required or Sufficient Spare feeders are available.	Confirmed, extension is required, refer to the price schedules

293	Proposed 132/33kv Narok S/S Extension Layout Plan	Please provide the tender Purpose 132/33kV SS Narok layout plan and Section layout.	Refer to revised Part 2-D in Addendum No. 2 for the existing substation layout.
294	Proposed 132/33kv Narok S/S Extension SLD	Please specify the type of Bus bar to be used for 132kV and 33kV, whether Rigid Aluminium tube or Strung bus.	This is an EPC contract, and this will be based on the bidder's design in compliance to the scope of work and technical requirements
295	PART 2 – Employer's Requirements Current Transformer	Please confirm whether the type of 132kV Current transformer to be used is live tank or dead tank.	Refer to response in TAC 2 Clarification item no. 263
296	PART 2 – Employer's Requirements SLD	As shown in SLD, there is one outdoor two core neutral current transformer for power transformer. This item is not mentioned in Price schedule. Please include the same.	Refer to response in TAC 2 Clarification item no. 264
297	PART 2 – Employer's Requirements Power Transformer	Please confirm for power transformer, short time current rating is 31.5kA for 1 sec or 2 Sec.	Refer to the schedules of technical information for Narok and Bomet substations
298	PART 2 – Employer's Requirements	Section 14.11, as per power transformer specification details, we understand that Online Condition Monitoring (DGA & ODS) for power transformer is not required. Please confirm our understanding.	Confirmed
299	Proposed 132/33kv Narok S/S Extension SLD	Bushing and neutral current transformers for existing power transformer are not shown in SLD. Request you to please check and confirm. Further, please mention the same in Price schedule also.	Provided drawings in Section 2D are sufficient
300	Proposed 132/33kv Narok S/S Extension SLD	Single phase CVT (2 core) provided for 132kV bus bar is only one number. We presume that 3 single phase CVTs per bus should be provided. So the total number of required CVTs (1-phase, 2-core) are six. Please check and confirm.	Refer to response in TAC 2 Clarification Item no. 242
301	PART 2 – Employer's Requirements	Please confirm 132kV disconnect switch main blade material type is copper or aluminium.	Refer to response in TAC 2 Clarification item no. 158

302	PART 2 – Employer's Requirements	Please confirm 132kV disconnecter switch to be used is Horizontal Double Break or Horizontal Center Break or Pantograph type.	Refer to the technical schedules of technical information
303	PART 2 – Employer's Requirements	Pantograph Type isolator is not included in Price schedule. If Main bus is of Aluminium Tube, then we have to use Pantograph type isolator. Please confirm.	This is an EPC contract, and this will be based on the bidder's design in compliance to the scope of work and technical requirements
304	Proposed 132/33kv Narok S/S Extension SLD	For bus coupler bay, provided 132kV disconnecter switch is without earthing switch. We presume that it should be with one earth blade disconnecter switch. Please check and confirm our understanding.	Refer to SLD for Narok substation. This shall prevail
305	PART 2 – Employer's Requirements Section IV- Price Schedules -Narok 132-33kV SS, SLD	For bus coupler bay, provided disconnecter switch is Motorized disconnecter (3-phase) 132kV, 1600A, 31.5kA, without earthing switch with earth mat. As per SLD, disconnecter switch rating is 132kV, 3150A, 31.5kA 1 sec. Required number is 2 quantity. Please check and confirm.	Refer to response in TAC 2 Clarification item no. 23
306	PART 2 – Employer's Requirements Section IV- Price Schedules -Narok 132-33kV SS,	Please confirm Schedule_1_SS, 132kV PRIMARY PLANT, line item 1.3, required number is 3 as other two is bay coupler disconnecter switch of different rating.	See revised price schedule of Narok substation in Addendum No. 2
307	Proposed 132/33kv Narok S/S Extension SLD	CVTs are connected to 132kV bus bar without isolator as shown in SLD. Please confirm.	Confirmed
308	Proposed 132/33kv Narok S/S Extension SLD	Please confirm whether Auxiliary transformer connection with 33kV bus bar is through circuit breaker or isolator.	This will be through fuses, refer to Price schedule of Narok substation.



309	PART 2 – Employer's Requirements Section IV- Price Schedules -Narok 132-33kV SS, Technical datasheet	Rating of Auxiliary transformer as given in Price schedule is 33/0.415 kV, 250 KVA, while as per GTP rating given is 33/0.415 kV, 315 KVA. Please specify which rating of Auxiliary Transformer is to be used.	Refer to revised schedule of technical info of Narok substation in Addendum No. 2
310	PART 2 – Employer's Requirements Section IV- Price Schedules -Narok 132-33kV SS, Technical datasheet	As per Price schedule, Item no - 1.2, Given number of quantity for 132kV Circuit Breaker (3 phase) 1600A, 31.5kA - ganged is two. As per SLD required number is only one. Please confirm exact requirement.	Refer to the revised price schedules of Narok substation in Addendum No. 2
311	PART 2 – Employer's Requirements Section IV- Price Schedules -Narok 132-33kV SS, Technical datasheet	As per Price schedule, Item no - 1.2, For bus coupler bay given CB is 132kV Circuit Breaker (3 phase) 1600A, 31.5kA - ganged. As per SLD/GTP required rating of CB is 132kV Circuit Breaker (3 phase) 3150A, 31.5kA - ganged. Quantity required is one. Please confirm the exact requirement.	Refer to the revised price schedules of Narok substation in Addendum No. 2
312	PART 2 – Employer's Requirements SLD	As per Price schedule, Item No 2.1, 33kV Circuit Breaker (3 phase) 1600A is mentioned, while as per SLD it is mentioned 2000A. Please confirm the 33kV Circuit Breaker Rating.	Refer to the revised price schedules of Bomet and Narok substations in Addendum No. 2
313	PART 2 – Employer's Requirements	As per GTP, given 110V battery charger current rating is 300A, while in technical specification current rating given is 100A. Please confirm which current rating of battery charger is to be considered.	Refer to the revised schedule of technical info of Bomet and Narok substations in Addendum No. 2
314	PART 2 – Employer's Requirements	As per Technical Specification max 8 Hrs Shutdown is given. We may require continuous shutdown of more than 8 hrs as per site requirement. Please confirm whether the same is acceptable.	As per SECTION VII A sub clause 1.1, shutdown shall not be more than 8 hours. The interruption/shutdown shall not be provided on consecutive days.

315		PART 2 – Employer's Requirements	As per Scope of Work, Existing Control Room extension / Modification is required. Please provide Existing Control Room Equipment Layout.	Refer to revised Part 2-D in Addendum No. 2 for the existing control building layout.
316		General	Please confirm the soil resistivity value for estimating earthing quantity.	This is an EPC contract, and this is in the bidder's scope to collect this information
317		General	Please confirm the Conductor / Al Tube Requirement for below: 1) 132kV Main Bus Bar - Al Tube / Strung Bus 2) 132kV Equipment to Equipment - Conductor 3) 33kV Main Bus - Al Tube 4) 33kV Equipment to Equipment - Conductor	This is an EPC contract, and this will be based on the bidder's design in compliance to the scope of work and technical requirements
318		General	Please confirm outdoor lighting fixture mounting is on gantry structure or lighting mast.	These are on the lighting masts, however this is an EPC contract and this scope of work will be based on the bidder's design in compliance to the scope of work and technical requirements
319		General	Please provide existing layout drawing: 1. Layout plan & Section Layout 2. Earthing layout 3. Control room equipment layout 4. Cable trench layout 5. Lightning Protection Layout 6. Erection key diagram	Confirmed, however this is an EPC contract and this will be based on the bidder's design in compliance to the scope of work and technical requirements
320		General	Please provide existing Make and Model number of existing SAS of Narok SS.	Refer to Response in TAC 2 Clarification item no. 88
321		General	Please confirm whether the Main -1 & Main-2 Protection Relay has to be of same make or different make.	Refer to Section VII B clause 7.2.1.2 c
322		General	Please confirm whether the Substation integration with NCC & LCC is required or not.	Refer to Section VII B clause 8.2.1 and price schedules

323	General	Please confirm whether existing LVAC & LVDC Board extension is required or Sufficient Spare feeders are available.	Confirmed, extension is required, refer to the price schedules
324	NAROK & BOMET Substation Control Building	Request to provide the plan and elevation of existing control building with extension plan.	Refer to revised Part 2-D in Addendum No. 2 for the existing control building layout.
325	NAROK & BOMET Substation Guard House Building	Request to provide the plan and elevation of existing guard house building with extension plan.	Refer to revised Part 2-D in Addendum No. 2 for the existing guard house drawing for Narok SS which is similar for both substations
326	NAROK & BOMET Substation Layout	Please provide the substation layout with demarkation of extension area.	Refer to revised Part 2-D in Addendum No. 2 that shows the existing layout.
327	NAROK & BOMET Topographic Survey and information	Since it is extension work, so we presume that we will be provided levelled substation sites. Please confirm.	Refer to Section VII A clause 1.1
328	NAROK & BOMET Existing equipment drawing	Please provide existing equipment structure and foundation drawing.	This will be provided to the successful bidder
329	Technical Specification Wind Pressure	<p>We request you kindly confirm the wind pressure considering below loading cases for Substation Structure design;</p> <p>A) High Wind Pressure</p> <p>i) Wind pressure on structure exposed area</p> <p>ii) Wind Pressure on Conductor and insulator</p> <p>B) Reduced Wind Pressure</p> <p>i) Wind pressure on structure exposed area</p> <p>ii) Wind Pressure on Conductor and insulator</p> <p>C) Nominal Wind Pressure</p> <p>i) Wind pressure on structure exposed area</p> <p>ii) Wind Pressure on Conductor and insulator</p>	<p>Refer to the schedules of technical information for Narok and Bomet substations, Site conditions, wind velocity. The wind pressure calculations shall be the responsibility of the bidder.</p>



330	Technical Specification Seismic zone	Please confirm Seismic acceleration.	Refer to the schedules of technical information for Narok and Bomet substations, Site conditions
331	NAROK & BOMET Septic tank - Control Room	We request you to provide the typical drawing of septic tank. Further, please confirm the construction of new septic tank is required or not.	A new septic tank is not required. However, integration of the new sewerage system to the existing sewerage system shall be required as per the scope of works.
332	General Geo-technical Survey report	Please provide preliminary geotechnical information for all respective substation.	Refer to response in TAC 2 Clarification item no. 217
333	General Structural DWG	Kindly provide civil structural drawings of Existing substation, so that we can propose the same system.	Provided drawings in Section 2-D are sufficient. Any additional ones shall be provided to the winning bidder.
334	NAROK & BOMET Existing Drainage Type	Please specify the construction type of drain. Brick work or RCC concrete type.	Refer to Section VII B clause 15.17.9.
335	NAROK & BOMET Plot Fence and boundary fence.	Please provide the details and type of Plot fence and substation fence of existing substation.	Refer to Section VII A - Clause 1.1 and Price Schedule, schedule 4 item no 13.8 and 13.9
336	NAROK & BOMET EXISTING INTERNAL ROAD	Please Provide the details of Internal Road type and width of the internal road.	Refer to drawings in Section 2-D and Section VII A - Clause 1.1 and Price schedule, schedule 4 item 13.19
337	NAROK & BOMET WATER SUPPLY SCOPE	Please Provide the details of water supply system scope under contractor.	Refer to Section VII A - Clause 1.1 and Price Schedules 13.28 and 13.29
338	NAROK & BOMET DIESEL GENERATOR ROOM	Please provide the diesel generator Room Size.	This is an EPC contract, and this will be based on the bidder's design in compliance to the scope of work and technical requirements

339	Completion Period Section III - Evaluation and Qualification Criteria; Clause 2.2(a) & Section IX: Particular Conditions of Contract; Clause PCC 8	As per clause 2.2 (a) of Section III, completion period is mentioned as 13 months (12 + 1 = 13 months i.e. 1 month shall be the maximum period allowed for testing and commissioning). However, same in clause PCC 8 of Section IX: Particular Conditions of Contract is mentioned as 12 months. Request you to please confirm the exact completion period.	Refer to Section III- Evaluation and Qualification Criteria; Clause 2.2(a) that states "Time to complete the Plant and Installation Services from the effective date specified in Article 3 of the Contract Agreement for determining time for completion of pre-commissioning activities is: <b>twelve (12) months.</b> "
340	Domestic Preference Section II – Bid Data Sheet (BDS); Clause ITB 34.1 & Section III. Evaluation and Qualification Criteria; Clause 1.1	Domestic Preference as mentioned in BDS (Section II ) is <b>Not Applicable</b> . However the same is mentioned as <b>Applicable on schedule 1</b> in Section III. Please confirm whether the domestic preference is applicable or not.	Refer to Section II – Bid Data Sheet (BDS), ITB 34.1
341	Subcontractor/ Manufacturer's QR Section III: Evaluation and Qualification Criteria; Clause 3.4	Under clause 3.4 (Subcontractors) of Section III, Qualification criteria for Manufacturer's of Towers, gantries and Structures, Conductors, Insulator and Fitting is mentioned. We presume that same will not be applicable for Substation as the value of these items is very low. Please confirm.	Refer to Section III- Evaluation and Qualification Criteria; Clause 3.4, the criteria here shall apply as indicated
342	Subcontractor/ Manufacturer's QR Section III: Evaluation and Qualification Criteria; Clause 3.4	Under clause 3.4 (Subcontractors) of Section III, Qualification criteria for Manufacturer's of Control and protection system (CRP) and Substation and Automation systems, and communication systems (SASCS), Experience with the latest technology improvements and state of the art is to be submitted along-with the bid. Please confirm which document is to be submitted for "Experience with latest technology improvement and state of the art".	These can include documentary evidence of sub-contractor/ manufacturer compliance to IEC 61850, cyber security and additional experience in new technologies



343		Price Schedule no. 4 Item no. 21. Training	Under Item no. 21 (Training) of Price Schedule No. 4, quantity is provided only for Site Operation and Maintenance Training. For all the other items (Substation equipment design and training, Protection and Control for Electrical Power Systems Training, Power System Analysis - Communication & Substation Control System - Civil/Structural Design Training- Telecommunication (MUX) Application and Design.) quantity is not mentioned. We presume that Site Operation and Maintenance Training is only to be quoted. Please confirm.	Confirmed for Bomet substation. All trainings are applicable for Narok substation.
344	Technical Data Sheet Part 2-E-2-Narok-Schedules of Technical Info_Rev.1 Part 2-E-3-Bomet-Schedules of Technical Info_Rev.1 a) SITE CONDITIONS - Sr. 12	Thickness of Ice	In technical data sheet under site conditions Ice thickness of 5mm is mentioned. Kindly note that ice thickness condition is only mentioned in technical data sheet site conditions. In technical specification - Part 2-Employer's Requirements, ice loading condition is not mentioned for any equipment/structures/accessories etc.  We understand that ice loading is not required in Narok and Bomet area. You are requested to please review ice loading condition and update TDS accordingly.	Conditions as per the schedules of technical info site conditions shall prevail



