

Our Ref: KE-KETRACO-416094-CW-RFB

09 July 2025

Notice to all Bidders

RE: CLARIFICATION NO. 1

Contract Title: Design, supply, installation and commissioning of the 400/220 kV Kimuka Substation and Associated Transmission Lines

Contract No.: KE-KETRACO-416094-CW-RFB

In accordance with the Instructions to Bidders ITB 7 [Clarification of Bidding Document, Site Visit, Pre-Bid Meeting], the Employer, *Kenya Electricity Transmission Company Ltd. (KETRACO)* is providing responses to the clarifications requested by bidders in fifty-one (51) pages with attachments.



SENIOR MANAGER, SUPPLY CHAIN

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
1	4.2(a) Specific Experience	The similarity of the contract shall be based on the following: i) design, supply, installation and commissioning of a substation with voltage level of 380kV or above	As we understand in this point, we are able to provide our projects that have been constructed and satisfy all necessary requirement, whether they are AIS or GIS please confirm	Only AIS is acceptable.
2	Page 292 OF 488	Page 292 OF 488 Section VII. Employer's Requirements- B – Specifications clause 18.13.3 " Data provided by client"	As per clause mentioned, preliminary subsoil & survey report is to be provided by client i.e KETRACO. We have not received the same in the tender. Kindly share the preliminary subsoil & survey report as per tender clause both for 400 kV Kimuka sub station (New) & existing transmission lines associated with scope of work for this tender .	No data is available as contemplated by Clause 18.13.3 of Section VII Employer's Requirements. It is the responsibility of the Bidder to conduct topographical and geotechnical investigation both for bidding purposes and during project implementation. Bidders are encouraged to visit the respective sites to make their own assessments. Bidders are encouraged to visit site and conduct preliminary investigations. Those who wish to should send an official request to kimuka400procurement@ketraco.co.ke or kumika400procurement@ketraco.co.ke and provide the following information: - Proposed dates for visiting site(s) (at least one week prior to request). - Details of activities to be undertaken. - Details of the staff who will undertake the activities.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
3	Page 83 OF 85	Section VII. Employer's Requirements- A - Scope of Supply clause 32. " Temporary works"	As per the mentioned clause, the detailed scope of work is not clearly defined, specifically regarding: 1) Site Office: The dimensions (L × B × H) of the office structure are not specified. Detailed drawings and specifications for civil works are also not provided. Kindly provide the required drawings and specifications for establishment of the site office. 2) The scope under the subhead "Required Machineries, Tools & Instruments" is not detailed. Please specify the list of required equipment, tools, and machinery for temporary works.	• Details of the authorized personnel to receive permits to carry out any work in case working in live area. • Commitment to ensure staff visiting sites have Personal Protective Equipment. • In case of tests, method statement/schedule indicating what tests will be done, how the tests will be done, location of the tests, duration of the tests, machinery etc. • Commitment to restore the sites to their original condition after the tests. 1)The site office must fulfill all requirements described in clause 30 of Section-VII-2A-Scope & General Requirements. 2)According to clause 1.(Scope of work) of Section-VII-2A-Scope & General Requirements "The bidder shall visit the Substations sites before preparing his drawings and documents, foresee all eventualities that may arise during execution and taking into account of availability of labor, machineries, equipment and materials required and should make sure that the project works can be fulfilled and equipment, panels and etc. can be installed and commissioned for satisfactory operation of the Substations. Therefore, the required machineries, tools and instruments shall be

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				based on the bidder's assessment of scope requirements.
4	Page 12 OF 85	Section VII. Employer's Requirements- A - Scope of Supply clause 1. "Scope of work"	As per scope of work as mentioned , Prestressed steel water tank (30,000 liters) with automatic control for the main water supply shall be provided. Kindly confirm whether this tank is to be installed as an overhead tank or a ground-mounted tank . If it is an overhead tank, please specify the required height of elevation.	Refer to Addendum 3.
5	Page 13 OF 85	Section VII. Employer's Requirements- A - Scope of Supply clause 1. "Scope of work"	As per mentioned clause, "Compound boundary wall/chain-link fence with barbed wire equipped with electric shock facilities for the substation plot". To ensure accurate estimation, we kindly request the reference drawing and specifications related to the boundary wall, including: 1. Type of structure (Masonry wall, chain-link fence, or a combination). 2. Height and dimensions of the boundary wall/fence. 3. Details of electric shock facilities and installation requirements.	Refer to Addendum 3 and clause 18.23.13- "fencing and gates" of Section VII Employer's Requirements. Actual drawings shall be developed by the Contractor during detailed design phase subject to Employer's review and approval
6	Page 282 OF 488	Section VII. Employer's Requirements- B – Specifications clause 18.2 "General scope"	As per clause mentioned, "In the extension substations, the existing retaining walls shall be extended for extension area to ensure the required stability of the equipment's foundation. " Please provide the civil drawing of existing retaining wall .	If necessary, the Bidder is obliged to conduct their own due diligence and collect necessary data to inform their Bid.

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7	Price schedule 4A_SS Item no_ 15.33.6	Section_IV-Price schedule	As per price schedule item as mentioned, rate for following items is to be given: (1) Rock filled gabion structure (2) Rip -rap stone work. Please provide the reference drawings for the above mentioned items.	The Detailed Drawings shall be prepared by the Contractor and approve by Client/Consultant.
8	Price schedule 4A_SS Item no_ 15.3	Section_IV-Price schedule	The BOQ specifies excavation and backfilling as a lot , but it does not clearly indicate the specific area or volume where the quantity is to be calculated. Kindly confirm the total quantity or provide drawings specifying the area where the excavation and backfilling should be considered.	This shall be the responsibility of the bidder. The bidder is encouraged to visit site to collect any additional data that they may require to prepare their bid. The procedure for undertaking a site visit is outlined in the response to item no. 2 above.
9	Page 282 OF 488	Section VII. Employer's Requirements- B – Specifications 18.23.7. Concrete, Reinforced Concrete and Mortar	Specification Stated: "All structural concrete shall develop a minimum compressive cube strength (f'c) of 30N/mm² at 28 days." Interpretation: Based on this requirement, we will consider grade C25/30 as per Eurocode notation. Query: Kindly confirm if this interpretation is correct. Additionally, if a higher concrete grade is required during detailed engineering, please confirm that the extra cost for the upgraded grade shall be borne by the client (KETRACO). Your confirmation will help us ensure accurate cost estimation and compliance with the project requirements.	The technical specifications have provided a minimum compressive cube strength, any costs associated with a higher concrete grade during detailed design shall be borne by the bidder.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
10	Page 282 Of 488	Section VII. Employer's Requirements- B – Specifications clause 18.2" General scope" & clause 18.23.7.9 " Steel bar reinforcement"	As per mentioned clause "In Design of Reinforced concrete buildings minimum rebar yield point (Fy) shall be 4000 Kg/cm ² ". As per mentioned clause, Steel reinforcement shall comply with one of the following: Carbon steel bars for the reinforcement of concrete – BS 4449. Interpretation: BS 4449 defines different grades of reinforcement steel (e.g., B500A, B500B, B500C), and their yield strength is typically 500 MPa ($\approx 5100 \text{ Kg/cm}^2$), which is higher than 4000 Kg/cm ² . Query: Should BS 4449-compliant bars with a yield strength of 500 MPa be used, or is a lower yield strength of 4000 Kg/cm ² ($\approx 392 \text{ MPa}$) acceptable. Please clarify.	Refer to Addendum 3.
11	Section VII. Employer's Requirements- A - Scope of Supply Clause 1.1, Page 13	Section VII. Employer's Requirements- A - Scope of Supply Clause 1.1, Page 13 1.1 Site Location: The location of Kimuka substation is in the power grid map shown in the figure below	The map is not legible, please provide a legible copy.	The Coordinates of the new Kimuka 400/220 kV substation are mentioned in Section VII. Employer's Requirements- A - Scope of Supply Clause 1.1.
12	Section VII. Employer's Requirements- A - Scope of Supply Clause 1.3, Page 21	Section VII. Employer's Requirements- A - Scope of Supply Clause 1.21, Page 17 1.2.1 Works at New Kimuka 400/220 kV Substation:-	Bidder understand diameter 4 connecting Isinya 2 and future A-Tr. 4. Please confirm.	Confirmed. Refer to key SLD.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
		a) Two (2) partially populated diameters. Diameter 3 connecting Isinya 1 and future A-Tr. 3 and diameter 4 connecting Isinya 2 and A-Tr. 4		
13	Section VII. Employer's Requirements- A - Scope of Supply Clause 1.21., Page 17	1.2.3 Relocation of the one circuit currently operated at 220 kV, connected to the 220 kV yard of Suswa to the 400 kV yard of Suswa , and associated required secondary modifications and remote end works (including related Protection, SAS and Telecommunication systems re-setting, re-testing and re-commissioning). This circuit will need to be connected to an existing under bus arrangement system in order to access the 400 kV switchyard.	A) Bidder understand there is no scope in the existing 220kV Bay from which relocation to 400kV is envisaged. Please confirm. B) Bidder understand that the 400kV Bay are fully equipped with EHV equipments like Circuit Breaker, Current Transformer, Capacitive Voltage Transformers etc. Bidder scope included only termination of the 400kV Line at Line Gantry. Please confirm. C) Bidder understand Since the 400kV bay is fully equipped, hence RP(400kV Line Relay Protection Panel) and connection to SAS is already existing, bidder scope is re-test and re-commission the 400kV Bay. Please confirm. Any equipment supply for the 400kV Bay protection, SAS and Telecommunication is not envisaged. Please confirm.	A) Not confirmed. Refer to 1.3.4 of Section VII, Employers Requirement A- Scope of Supply B) For HV works this includes termination of the 400 kV line at line gantry. However, refer to 1.3.4 and 1.2.3 of Section VII, Employers Requirement A- Scope of Supply for all works required. C) Confirmed, no new bay protection, SAS and telecommunication is required. However modifications of these existing systems are part of the scope of works. Refer to 1.2.3 of Section VII, Employers Requirement A- Scope of Supply for all works required.

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14	Section VII. Employer's Requirements- A - Scope of Supply Clause 1.2.3., Page 20	SINGLE LINE DIAGRAMS- HVDC Station at Suswa	D) Please provide the make of the existing SAS system.	D) The SAS in Suswa is SIEMENS.
15	Customer Doc no. :- EKPSIP_K1_G_W_00001_09	1.2.4 c) Mantling and connecting all the connection works on the 220 kV side of the IBT-1 to ensure the connection of the transformer is complete up to the feeder bay equipment. There is a cable in between but the cable connection is completed between the 2 cable sealing ends. f) Install the new RP 14 (IBT-1 protection panel) in the same location where the Suswa line protection panel was installed. g) Perform all wiring works required from this panel to the existing equipment in the 220 and 400 kV yards and also to 400 kV IBT1 panels.	A) Bidder understand there is no scope of 220kV EHV Cable . Please confirm. B) Please provide the make of the existing 400kV IBT1 Panel.	A) Confirmed B) The relays are ABB and SIEMENS for MAIN 1 and 2 respectively.

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16	Section VII. Employer's Requirements- A - Scope of Supply Clause 1.2.4., Page 20	1.3.2 400kV Loop out (of Kimuka 400/220kV substation): In addition, a tower (special tower if necessary) will be designed and constructed on Isinya – Kimuka corridor near Tower No.1 of the 220 kV line and connect to the existing 220 kV line (which has been designed and constructed at 400 kV) to Kimuka 220/66kV substation. 1.3 The Suswa 220 kV to Isinya 220 kV circuit has a LILO into Kimuka 220/66kV substation.	A) Bidder understand existing one no. single circuit of Suswa Isinya Line at 220kV rating is LILO at existing Kimuka 220/66kV Substation. Please confirm. B) Bidder understand that the 220kV LILO line to existing Kimuka 220/66kV Substation is designed at 400kV towers. Please confirm.	A. Confirmed. B. Confirmed. This existing LILO line is operated at 220 kV but the line is constructed for 400 kV line rating.
17	Section VII. Employer's Requirements- A - Scope of Supply Clause 1.3.2., Page 22 Clause 1.3 page 21	1.4 There shall be established temporary bypass works on Emergency Restoration System Towers (ERS) that shall be procured, supplied, and installed to ensure continuity of power supply between Suswa, Isinya substations as well as Kimuka 220/66 kV substation during the	Bidder understand during final interconnection of the LILO, temporary shutdown will be required. Same will be given by M/s KETRACO. Please confirm.	The Contractor is responsible for preparing all required documents, manpower, equipment that is required and make the shutdown application. The Employer will facilitate the request for the shutdown required.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
		construction of the LLOs. The ERS towers will be recovered and handed over to KETRACO after successful completion of LLO works.		
18	Section VII. Employer's Requirements- A - Scope of Supply clause 1.4 page 23	a) Project scope of work (Part 2-A, current section), technical specifications (Part 2-B), drawings (Part 2-D), technical data sheets (Part 2-E) and KETRACO Standard Operating Procedures are applicable	Please provide a copy of the KETRACO Standard Operating Procedure .	The winning bidder will be provided with this information subject to availability.
19	Section VII. Employer's Requirements- A - Scope of Supply clause 2.a) page 25	c) All temporary works required for arranging the shutdown with Employer and National Control Center are included in Contractor's scope of work.	Bidder request to exclude shutdown with Employer and National Control Center from the current scope.	Not accepted.

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20	Section VII. Employer's Requirements- A - Scope of Supply clause 2.c) page 25	h) The height above sea level shall be considered as 1850m. 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 has been mentioned in the schedules of technical information (Part 2-E), the higher altitude category shall be considered.	Bidder understand that the equipment shall be provided for higher altitude category i.e 2000 m as existing altitude is 1850m. Please confirm.	Confirmed. Equipment shall be provided for 2000m altitude except as otherwise stated in the Schedule of Technical Information.
21	Section VII. Employer's Requirements- A - Scope of Supply clause 3.h) page 26	As part of the transportation plan the Contractor shall conduct a pre-road survey for the delivery of the respective power transformers from the dock to site. This survey should identify the entire route of transportation, any traffic	Bidder request to exclude pre-road survey from the dock to site, construction of temporary road, road widening or bridge strengthening from the current scope.	Not accepted.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
		restrictions for movement of large trailers, obstacles such as gantries, overhead lines and bridges, limitation of road and bridge widths, limitation of allowable axle load on bridges and the requirement of temporary road constructions at site. The survey shall be issued to KETRACO for approval prior to the completion of the transformer design. All transport costs including road widening or bridge strengthening are deemed to be included in the contract price.		
22	Section VII. Employer's Requirements- A - Scope of Supply clause 4 page 26	M) Forklift, 1 set for storage warehouse O) Aluminium ladder, 1 set	A) Please provide the capacity of Fork Lift. B) Please provide height of Aluminium Ladder	Refer to Addendum 3.
23	Section VII. Employer's Requirements- A - Scope of Supply clause 20 page 57 & 58	S) Mobile phones: The Contractor shall also provide airtime allowance of KES 10,000/- per month per phone for the duration of the contract.	Bidder request to exclude the Mobile phones from the current scope.	Not accepted.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
		The mobile phones shall meet the following minimum specifications: Type 1 & 2		
24	Section VII. Employer's Requirements- A - Scope of Supply clause 20 page 59 & 60	T Laptops/Rugged Laptop	Bidder request to exclude the Laptops from the current scope.	Not accepted.
25	Section VII. Employer's Requirements- A - Scope of Supply clause 20 page 60	High Speed Wi-Fi (Minimum 15mbps) for internet access.	Bidder request to remove from current scope. Please confirm..	Not accepted.
26	Section VII. Employer's Requirements- A - Scope of Supply clause 30.1 page 71	Daily stipend allowance of US\$ 200 per day to cater for incidental expenses for the entire duration of the design review period.	Bidder understand same is not envisaged for Employer's representative. Please confirm.	Confirmed. Refer to Section VII. Employer's Requirements- A - Scope of Supply clause 30.3, page 75.
27	Section VII. Employer's Requirements- A - Scope of Supply clause 30.3 page 76	A fuel card from a reputable oil company shall be provided for each vehicle loaded with a minimum of Ksh 100,000 per month.	Please provide the maximum limit of the fuel card required per vehicle/per month.	The fuel card from a reputable oil company shall be provided for each vehicle loaded with Ksh. 100,000 per month.
28	Section VII. Employer's Requirements- A - Scope of Supply	The vehicles shall be new as below table, purchased locally and shall be	Bidder request to exclude providing vehicles from current scope.	Not accepted.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
	clause 30.5 page 77	approved by the Employer before purchase		
29	Section VII. Employer's Requirements- A - Scope of Supply clause 35 page 84	35. Tree Growing Initiative	Bidder request to exclude "tree growing initiative" from the current scope.	Not accepted.
30	Section VII. Employer's Requirements- A - Scope of Supply clause 35 page 84	30.2. Living Accommodation for use by KETRACO During Operation The following are the specifications for the interiors of the Security Staff Housing: •Armoury:- Each unit of security staff housing shall have a permanently fixed and lockable armoury as per the requirements of the Critical Infrastructure Protection Unit.	Please provide the details of armoury requirement.	Refer to Addendum 3.
31	Section VII. Employer's Requirements- A - Scope of Supply clause 30.2 page 75	2.3.8. Suspension and Tension insulators: Disc insulators may be of ceramic material or toughened glass, and together with their metal fittings shall comply with the requirements of IEC 60383.	Bidder understand Polymer Long rod insulators are also acceptable. Please confirm.	Refer to Addendum 3.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
32	Section VII. Employer's Requirements- B – Specifications Clause 2.3.8 page 32	2.4. Bay Control Room The fibre optic cables shall be properly protected against physical damage and rodents. For that reason, outside of the BCR and control building they shall be installed in suitable galvanised iron heavy duty conduits.	Bidder understand fiber optic cables can be installed in HDPE pipes. Please confirm.	This is acceptable. Final Design is subject to approval by the Employer or Employer's representative.
33	Section VII. Employer's Requirements- B – Specifications Clause 2.4 page 33	The 400kV circuit breakers shall equipped with Point on Wave Switch (POW) to open or close breakers at a pre- determined point on the voltage waveform.	Bidder understand that Point on Wave Switch (POW) is not applicable for 220kV and below rated Circuit Breakers. Please confirm.	Confirmed
34	Section VII. Employer's Requirements- B – Specifications Clause 3.2.1 page 41	VHF mobile radio system and network shall be provided in each new substation including a station set, at least 4 portable handsets, battery and battery charger, suitable antenna with all required accessories e.g. RG, Helix cabling, AC & DC cabling, indication lamp and supported tower with suitable height	Bidder request to exclude VHF mobile radio system and network from the current scope.	Confirmed. This is not part of the scope of works and is not required.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
35	Section VII. Employer's Requirements- B – Specifications Clause 9 page 108	9.10.3.5. 48V DC distribution board The busbars shall be made of copper painted with suitable paint while all connection points shall be tin-plated	Bidder understand aluminium bus bars are also acceptable. Please confirm.	Not accepted. Follow requirements as provided as in 9.10.3.5 of Section VII, Employers Requirement B- Specifications
36	Section VII. Employer's Requirements- B – Specifications Clause 9.10.3.5 page 131	10.4.4.10. CCTV Integrated Closed Circuit Television (CCTV) System to be provided for the substation buildings and outdoor area, including:	Bidder understand CCTV system to be provided in new kimuka substation of 400/220kV only. Please confirm.	Confirmed
37	Section VII. Employer's Requirements- B – Specifications Clause 10.4.4.10 page 156	1. 415/240 LVAC Switchgear: – Main distribution board to be installed in the substation control building with two sections, fully metal enclosed design, draw-out type, comprising two incoming cubicles, one bus-section cubicle, one Emergency Diesel Generator/temporary commissioning supply cubicle, and separate cubicles	A) Bidder understand only incoming feeders are drawout type, other feeders will be fixed type. Please confirm. B) Bidder understand aluminium bus bars are also acceptable. Please confirm.	A) The MCCBs shall be draw-out type and MCCBs are fixed type but note that the type of outgoing circuit breakers (MCB/MCCB) are selected based on the CB rating and this will be specified during detail design stage and approved by Employer/Employer Representative B.) Not acceptable. Busbar must be copper.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
38	Section VII. Employer's Requirements- B – Specifications Clause 11.2.1 page 188	2. 110V DC System 110V DC Switchboard with two sections, fully metal enclosed design, draw-out type, comprising two incomers and one bus-section equipped with MCCBs of the required rating,	A) Bidder understand only incoming feeders are drawout type, other feeders will be fixed type. Please confirm. B) Bidder understand aluminium bus bars are also acceptable. Please confirm.	A)the MCCBs shall be draw-out type and MCBs are fixed type but note that the type of outgoing circuit breakers(MCB/MCCB) are selected based on the CB rating and this will be specified during detail design stage and approved by Employer/Employer Representative B). Not acceptable. Busbar must be copper .
39	Section VII. Employer's Requirements- B – Specifications Clause 11.2.2 page 189	18.24.1.2. Lighting Systems – Normal, Emergency and External:- Standard maintained illuminance (lux)	Please provide the Standard maintained illuminance (lux) value for the outside yard area.	Outside yard area including transformer area shall be required to have minimum lux level of 100 . For other areas refer to 18.24.1.2 of Section VII, Employers Requirement B- Specifications
40	Section VII. Employer's Requirements- B – Specifications Clause 18.24.1.2 page 330 & 331	The Contractor shall base his design calculations on fluorescent lamps of a white colour and a colour- rendering index of typically 95	Now a days in all Substation & power plant projects, LED lamps are envisaged. Please confirm LED lamps are also acceptable.	LED lamps acceptable however final approval shall be subject to approval by Employer /Employer's representative
41		20. 11kV Cables Sheath Bonding & Earthing Equipment	Sheath bonding are typically used in cable of 66kV and above, Employer is requested to exclude from current scope. Please confirm.	Not accepted. refer to clause 20 of Section VII, Employers Requirement B- Specifications
42	Section VII. Employer's Requirements- B – Specifications Clause 20 page 371	25.6.2. Indoor Earthing System Flat bare copper sized to carry the fault current shall be installed to form one ring inside the	Bidder request to accept 75mm x 12mm Galvanised Mild Steel Flats for indoor earthing and above earth earthing. Please confirm.	Not accepted

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
43	Section VII. Employer's Requirements- B – Specifications Clause 25.6.2 page 481	• Earthing grid: Lead-sheathed stranded copper conductor shall be used for main grid conductors and down leads connected to them. The lead sheath shall be at least 2 mm thick. . If especially there is problem of theft in the substation so the Copper-clad steel wire with equivalent cross section can be used only by the client approval.	Bidder request to accept 40mm dia Mild Steel Rod for Earthing grid.	Not accepted
44	Section VII. Employer's Requirements- B – Specifications Clause 25.6.5 page 482	General	Please provide the autocad drawing of the Kimuka (New) Substation Layout.	This will not be provided it is the Contractor responsibility to provide AutoCAD drawings during detailed design.
45	Schedule 1A_SS Item no. 13.1	13.1 11kV cables for connection between A.T.R. and Auxiliary & Earthing Transformer- 1lot	Please provide the distance between the A.T.R. and Auxiliary & Earthing Transformer.	This shall be as per the Contractor's design and Employer/Employer's Representative approval.
46	Schedule 4A_SS Item no. 25	25. TOTAL PRICE SCHEDULE 4A KIMUKA SUBSTATION	The SI no. is not applicable for pricing. Please confirm.	Confirmed. The totals of the items shall be aggregated in this line item.

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47	Section VII. Employer's Requirements- A - Scope of Supply clause 32 page 83	32. •Required machineries, tools and instruments •Site power and water supply •Ambulance facilities	A) Bidder understand the clause is applicable for new Kimuka 400/220kV Substation only. Please confirm. B) Please provide the List of required machineries, tools and instruments. C) Employer to provide 415V/11kV/33kV Power source at one point for further distribution by contractor. Please confirm. D) Please provide details of Ambulance facility requirement. Also please provide the distance of the nearest Hospital.	A) Not confirmed. The Contractor shall provide all temporary works detailed in Section VII. Employer's Requirements- A - Scope of Supply clause 32 for all Sites. B) This shall be determined by the Bidder / Contractor. C) Not confirmed. D) Bidder's should conduct due diligence.
48	Section VII. Employer's Requirements- B – Specifications Clause 9.1.1 page 108	VHF mobile radio system and network shall be provided in each new substation including a station set, at least 4 portable handsets, battery and battery charger, suitable antenna with all required accessories e.g. RG, Helix cabling, AC & DC cabling, indication lamp and supported tower with suitable height	A) Bidder understand Portable radio towers are not in the current scope. Please confirm. B) Any statutory clearance for VHF mobile radio system and network shall be obtained by employer. Please confirm.	A) Confirmed. This is not part of the scope of works and is not required. B) Confirmed. This is not part of the scope of works and is not required.
49	Schedule 1A_SS Item no. 1.18	All required material such as conductors, fittings , connector and calmps and etc as required regarding to connection of the 400kV Suswa-1 to switchyard 400kV with	Please define the breakup for 10 nos or else please specify the line item as 1 LOT. Please confirm.	Confirmed. Refer to the revised Price Schedules issued with Addendum 3.

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		completion the connection between of the feeder's equipment as per scope of work- 10 Nos.		
50	Section VII. Employer's Requirements- B – Specifications Clause 10.1.3 page 142	10.1.3. Scope of Work for SCS Protocol converters are required in case of mismatch between SAS protocol and protocol required by NCC and RCC.	Please provide the existing communication protocols at NCC and RCC.	IEC 60870-5-104, IEC 61850, MODBUS, DLMS, SNTP
51		General	Please provide the Employer approved Vendor and Sub-contractor List.	The Employer does not have an approved vendor or sub-contractor list. Refer to the requirement in Section III, Item 1.4: Subcontractors/Manufacturers.
52	Schedule 4A_SS Item no. 15.16.10	Solar Water Heater with backup electric heating element-1 Lot	Please provide capacity of the water heater.	Refer to the revised Price Schedules issued with Addendum 3.
53		General	Please provide the drawings of the Tower along with BOM as mentioned in the Schedule 1B	Tower outline drawings have been provided for reference purposes in Addendum 3. The actual design and the bill of materials shall be developed by the bidder during the detailed design phase.
54	Section VII. Employer's Requirements- B – Specifications Clause 10 page 140	10.Substation Control System The required modification of SCS in the associated SS shall also be included to carry out renaming and updating the SLD and to integrate the extension to	Bidder understand that the Regional Control Centre is located at Lessos.	Not correct. NCC and RCC is in Nairobi In addition for existing stations, the required modification work includes renaming and updating the SLD , alarms, events and all associated changes in the existing SAS/SCS and to integrate the extension to the central SCADA/EMS system at Juja Road NCC and NSCC. For new stations, this includes a new

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		the central SCADA/EMS system at the National Control Center (NCC) and Regional Control Center (RCC) and National System Control Center (NSCC)		SAS/SCS and also includes incorporating and integrating the new station in the existing central SCADA/EMS at Juja Road NCC and NSCC.
55	Schedule 1A_SS Item no. 10.9	Required equipment for modification works at existing PABX in Lessos RCC including all necessary Licenses, Network switches and any other facilities for communication with NCC, RCC and NSCC- 1Lot		Not correct. NCC and RCC is in Nairobi. Refer to Addendum 3 for the revised Price Schedules. In addition, required equipment for modification works at existing PABX in Juja Road NCC including all necessary Licenses, Network switches and any other facilities for communication with NCC, RCC and NSCC is in the scope of work
56	Section VII. Employer's Requirements- E – Schedules of Technical Information CI 6.2.3	Clause 6.2.3 Rated short circuit withstand current and its duration- 40kA/3sec	Bidder understand the fault current rating to be considered as 40KA/1 sec. Please confirm.	Confirmed. The rated short circuit withstand current and its duration is 40kA/1sec.
57		25.5 Electrical Parameters for Earthing Calculation: Fault Current 40kA- 1 Sec for 400kV & 220kV		
58	Input List - Suswa		AC and DC Auxilliary voltage of substation/ No. of sources	This shall be provided to the winning Bidder.
59	Input List - Suswa		ACDB and DCDB drawings of substation	This shall be provided to the winning Bidder.
60	Input List - Suswa		Kiosk Layout/ Space for Protection panels in the Kiosk	This shall be provided to the winning Bidder.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
61	Input List - Suswa		Location of CRP, automation panel, fote/ Remote communication panel.	This shall be provided to the winning Bidder.
62	Input List - Suswa		Make & Model of existing SAS system, protocols for remote monitoring and control.	SIMATIC WinCC Version: 7.4 SP1
63	Input List - Suswa		Inputs For Line Distance/Differential Relay: 1. Type of teleprotection interface. 2. Existing Relay Make 3. Through OPGW? 4. Distance between 400/220kv Kimuka and 220/66kv Kimuka S/s	1. This is hardwired to the communication panel that has 4 channels implemented through fiber optic. 2. <u>Main 1 (Distance Relay):</u> Make: SIEMENS 7SA87 Sip 5 Product Code: 7SA87-DAAA-AAO-0AAAAO-AP0111-12111B-A000-000ACO-CB1BA1-CB1CGO-CEO Version: V07.54 <u>Main 2:</u> Make: SIEMENS 7SD Sip 4 MLFB No.: 7SD5221-5DB99-7HK4---0R0S Version: V04.74.00 3. Confirmed 4. Bidder is to conduct due diligence
64	Input List - Suswa		Any hardware or software upgrades required for integration, including any applicable license fees for additional data points to interface our scope in the Existing HMI.	Modifications related to incorporating the new/revised terminal/remote points are required. Any changes required are in the scope of works .

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
65	Input List - Suswa		SAS Inputs: 1. Data acquisition and communication protocols (e.g., IEC 61850, Modbus). 2. Existing SAS architecture 3. Communication connectivity Diagram/Architecture 4. Types and specifications of Remote Terminal Units (RTUs) and IEDs 5. Requirement of Ethernet Switches for NTMAC Sub-systems connectivity 6. Capability to cater present scope bays without any upgradation/capacity enhancement	1. IEC 60870-5-104, IEC 61850, MODBUS, DLMs, SNTP. 2. This shall be provided to the winning Bidder. 3. This shall be provided to the winning Bidder. 4. This shall be provided to the winning Bidder. 5. No requirement of new switches in Suswa. 6. Modification and/or upgrade/capacity enhancement or required replacements of any required devices/equipment with new ones is in the scope of works of this contract.
66	Input List - Suswa		Existing FOTE/PLCC communication infrastructure	FOTE ABB -FOX 615
67	Input List - Suswa		Detail of DGA, ODS, FOS Etc., along with protocol in Reactor and their interfacing with SAS.	This shall be provided to the winning Bidder.
68	Input List - Suswa		Reactor rating Plate/Schematic/documents showing Reactor signals & NCT details(in case CT is external).	This shall be provided to the winning Bidder.
69	Input List - Suswa		Trench Layout	This shall be provided to the winning Bidder.
70	Input List - Suswa		Final/Approved Single Line Diagram	SLD is already provided as part of the drawings. Refer to drawing no. 17.As-Built-Suswa-400-220kV-SS-400kV-SLD and 18.As-Built-Suswa-400-220kV-SS-220kV-SLD.
71	Input List - Suswa		Final/Approved Protection SLD. CT PT core Allocation - In case of PSLD not available	Drawing no. 19.As-Built-Suswa-400-220kV-SS-400kV-PSLD provided in the Bidding document. Further detailed drawings shall be provided to the winning Bidder.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
72	Input List - Suswa		1. Make & Model of Existing Busbar scheme-Centralised/Decentralized 2. Existing Busbar Panel Drawings 3. CT/IO modules available for present scope 4. Peripheral Bay Units for bays under present scope are available at site	Busbar protection for the bay to Isinya is already installed and commissioned. The scope of works includes revision of settings and retesting. Drawings will be provided to the winning Bidder.
73	Input List - Suswa		CSD details including Make, Model, Mounting details, Size, Dimensions, wiring diagram, Applicable Feeders, communication protocol (If applicable)	This shall be provided to the winning Bidder.
74	Input List - Suswa		Dimension of existing panel including base frame, position of equipment's, mimic position, if applicable Board Formation marking exact location of the panel to be supplied Bus wiring slot, Bus bar cutout location Existing Coupling panel details-hole size, position of holes, Location and feasibility of Cable entry	This shall be provided to the winning Bidder.
75	Input List - Isinya		AC and DC Auxiliary voltage of substation/ No. of sources	This shall be provided to the winning Bidder.
76	Input List - Isinya		ACDB and DCDB drawings of substation	This shall be provided to the winning Bidder.
77	Input List - Isinya		Kiosk Layout/ Space for Protection panels in the Kiosk	This shall be provided to the winning Bidder.
78	Input List - Isinya		Location of CRP, automation panel, fote/ Remote communication panel.	This shall be provided to the winning Bidder.
79	Input List - Isinya		Make & Model of existing SAS system, protocols for remote monitoring and control.	For 400 kV Isinya SAS is SICAM WIN CC 220 kV Isinya

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
80	Input List - Isinya		Inputs For Line Distance/Differential Relay: 1. Type of of teleprotection interface. 2. Existing Relay Make 3. Through OPGW? 4. Distance between 400/220kv Kimuka and 220/66kv Kimuka S/s	SAS is GE Viewer Version: 1.1.3 1. This is hardwired to the communication panel that has 4 channels implemented through fiber optic 2. <u>Main 1 (Distance Relay):</u> Make: REL670 Order Code: 1MRK002812-AB Version: 1.1.01 <u>Main 2 (Line Differential):</u> Make: SIEMENS Siprotec 7SD5 Order No.: 7SD5221-5CB99(0S2S)-3HM4 Version: V4.74. 3. Confirmed 4. Bidder is to conduct due diligence
81	Input List - Isinya		Any hardware or software upgrades required for integration, including any applicable license fees for additional data points to interface our scope in the Existing HMI.	Any changes/modifications required to incorporate the new/revised terminal/remote points is part of the scope of works for this contract.
82	I Input List - Isinya		SAS Inputs: 1. Data acquisition and communication protocols (e.g., IEC 61850, Modbus). 2. Existing SAS architecture 3. Communication connectivity Diagram/Architecture 4. Types and specifications of Remote Terminal Units (RTUs) and IEDs 5. Requirement of Ethernet Switches for NTMAC Sub-systems connectivity 6. Capability to cater present scope bays without any upgradation/capacity enhancement	1. IEC 60870-5-104, IEC 61850, MODBUS, DLMS, SNTP. 2. This shall be provided to the winning Bidder. 3. This shall be provided to the winning Bidder. 4. This shall be provided to the winning Bidder. 5. No requirement of new switches in Isinya 6. Modification and/or upgrade/capacity enhancement is in the scope of works of this contract.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
83	Input List - Isinya		Existing FOTE/PLCC communication infrastructure	FOTE ABB -FOX 615
84	Input List - Isinya		Detail of DGA, ODS, FOS Etc., along with protocol in Reactor and their interfacing with SAS.	This shall be provided to the winning Bidder.
85	Input List - Isinya		Reactor rating Plate/Schematic/documents showing Reactor signals & NCT details(in case CT is external).	This shall be provided to the winning Bidder.
86	Input List - Isinya		Trench Layout	This shall be provided to the winning Bidder. SLD is already provided as part of the drawings. Refer to drawing no. 21.As-Built-Isinya-400-220kV-SS-400kV-SLD and 22.As-Built-Isinya-400-220kV-SS-220kV-SLD.
87	Input List - Isinya		Final/Approved Single Line Diagram	
88	Input List - Isinya		Final/Approved Protection SLD. CT PT core Allocation - In case of PSLD not available	
89	Input List - Isinya		1. Make & Model of Existing Busbar scheme-Centralised/Decentralized 2. Existing Busbar Panel Drawings 3. CT/IO modules available for present scope 4. Peripheral Bay Units for bays under present scope are available at site	Any changes/modifications required to incorporate the new/revised terminal/remote points is part of the scope of works for this contract.
90	Input List - Isinya		CSD details including Make, Model, Mounting details, Size, Dimensions, wiring diagram, Applicable Feeders, communication protocol (If applicable)	This shall be provided to the winning Bidder.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
91	Input List - Isinya		Dimension of existing panel including base frame, position of equipment's, mimic position, if applicable Board Formation marking exact location of the panel to be supplied Bus wiring slot, Bus bar cutout location Existing Coupling panel details-hole size, position of holes, Location and feasibility of Cable entry	This shall be provided to the winning Bidder.
92	Input List - Kimuka		AC and DC Auxilliary voltage of substation/ No. of sources	This shall be provided to the winning Bidder.
93	Input List - Kimuka		ACDB and DCDB drawings of substation	This shall be provided to the winning Bidder.
94	Input List - Kimuka		Kiosk Layout/ Space for Protection panels in the Kiosk	This shall be provided to the winning Bidder.
95	Input List - Kimuka		Location of CRP, automation panel, fote/ Remote communication panel.	This shall be provided to the winning Bidder.
96	Input List - Kimuka		Make & Model of existing SAS system, protocols for remote monitoring and control.	Type: GE Viewer Version: 1.1.3
97	Input List - Kimuka		Inputs For Line Distance/Differential Relay: 1. Type of teleprotection interface. 2. Existing Relay Make 3. Through OPGW? 4. Distance between 400/220kv Kimuka and 220/66kv Kimuka S/s	1. This is hardwired to the communication panel that has 4 channels implemented through fiber optic 2. <u>Line Differential Relay Details for Suswa Line</u> Make: SIEMENS 7SD MLFB No.: 7SD5221-4DB99-7GK0---0S2J Firmware Version: V04.72.01 <u>Line Differential Relay Details for Isinya Line</u> Make: GE L90 Order Code: L90-J05-HKH-F8N-H6G-L8L-

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
				N6G-S6C-U6C-W7D Version: 6.0x 3. Confirmed 4. Bidder is to conduct due diligence.
98	Input List - Kimuka		Any hardware or software upgrades required for integration, including any applicable license fees for additional data points to interface our scope in the Existing HMI.	Any changes/modifications required to incorporate the new/revised terminal/remote points is part of the scope of works for this contract.
99	Input List - Kimuka		SAS Inputs: 1. Data acquisition and communication protocols (e.g., IEC 61850, Modbus). 2. Existing SAS architecture 3. Communication connectivity Diagram/Architecture 4. Types and specifications of Remote Terminal Units (RTUs) and IEDs 5. Requirement of Ethernet Switches for NTMAC Sub-systems connectivity 6. Capability to cater present scope bays without any upgradation/capacity enhancement	1. IEC 60870-5-104, IEC 61850, MODBUS, DLMS, SNTp. 2. This shall be provided to the winning Bidder. 3. This shall be provided to the winning Bidder. 4. This shall be provided to the winning Bidder. 5. No requirement of new switches in Kimuka. 6. Modification and/or upgrade/capacity enhancement is in the scope of works of this contract.
100	Input List - Kimuka		Existing FOTE/PLCC communication infrastructure	FOTE ABB -FOX 615
101	Input List - Kimuka		Detail of DGA, ODS, FOS Etc., along with protocol in Reactor and their interfacing with SAS.	This shall be provided to the winning Bidder.
102	Input List - Kimuka		Reactor rating Plate/Schematic/documents showing Reactor signals & NCT details (in case CT is external).	This shall be provided to the winning Bidder.
103	Input List - Kimuka		Trench Layout	This shall be provided to the winning Bidder.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
104	Input List - Kimuka		Final/Approved Single Line Diagram	SLD is already provided as part of the drawings. Refer to drawing no. 15.Kimuka-220-66kV-SS-220kV-SLD.
105	Input List - Kimuka		Final/Approved Protection SLD. CT PT core Allocation - In case of PSLD not available	Drawing no. 16.Kimuka-220-66kV-SS-220kV-PSLD is provided in the Bidding document. Further detailed drawings shall be provided to the winning Bidder.
106	Input List - Kimuka		1. Make & Model of Existing Busbar scheme-Centralised/Decentralized 2. Existing Busbar Panel Drawings 3. CT/IO modules available for present scope 4. Peripheral Bay Units for bays under present scope are available at site	Busbar protection is already installed and commissioned. The scope of works includes revision of settings and retesting. Drawings will be provided to the winning Bidder.
107	Input List - Kimuka		CSD details including Make, Model, Mounting details, Size, Dimensions, wiring diagram, Applicable Feeders, communication protocol (If applicable)	This shall be provided to the winning Bidder.
108	Input List - Kimuka		Dimension of existing panel including base frame, position of equipment's, mimic position, if applicable Board Formation marking exact location of the panel to be supplied Bus wiring slot, Bus bar cutout location Existing Coupling panel details-hole size, position of holes, Location and feasibility of Cable entry	This shall be provided to the winning Bidder.
109	Part 1, Section I , ITB 31.2	The determination shall not take into consideration the qualifications of other firms such as the Bidder's subsidiaries, parent	ITB 31.2 states that the qualifications of specialized subcontractors may be considered when evaluating the bidder's qualifications. Could you please confirm whether key personnel from specialized subcontractors, as specified in Section III,	This is not acceptable.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
		entities, affiliates, subcontractors (other than Specialized Subcontractors if permitted in the bidding document), or any other firm.	1.4—such as the Control and Protection System (CRP) manufacturer, Substation and Automation Systems and Communication Systems manufacturer, Civil Works subcontractor, and Electromechanical Works subcontractor—can be considered in the assessment of the bidder's key personnel qualifications?	
110	Part 1, Section III, 1.2 Contractor's Representative and other Key Personnel	The Bidder must demonstrate that it will have suitably qualified Contractor's Representative and other suitably qualified (and in adequate numbers) key personnel.		This is not acceptable.
111	Part 1, Section III, 2 Evaluation of Technical Part, Table	1: Specific Experience of the Bidder 1b: Specific Experience of the bidder: the Employer will assess whether the bidder (or subcontractor) has relevant construction and quality assurance experience.	As stated, the employer will assess whether the bidder (or subcontractor) has relevant construction and quality assurance experience. As a bidder, we may list one or more Civil Works and/or Electromechanical Works subcontractors in the bidding form <i>Proposed Subcontractors for Major Items of Plant and Installation Services</i> , indicating our intention to subcontract the relevant works to one of the listed subcontractors. Could you please confirm whether, during the technical evaluation, the employer will determine the bidder's specific experience scores based solely on the bidder's experience, solely on the subcontractor's experience, or a combination of both?	The Employer will determine the Bidder's experience based on a combination of both.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
112	Part 1, Section III, 1.2 Contractor's Representative and other Key Personnel	P1, Project Manager /Contractor's Representative, At least three (3) completed similar projects in similar position in the last ten (10) years.	Clause 4.2(a) Specific Experience clearly defines the criteria for determining the similarity of contracts. However, the key personnel qualification requirements do not explicitly specify the criteria for assessing the similarity of projects that key personnel have worked on. Could you please confirm the basis on which project similarity will be determined under the key personnel qualification requirements?	The Employer reserves the right to assess the adequacy of the submitted personnel on a case-by-case basis.
113	Part 1, Section III, 2 Qualification, 4.2(a) Specific Experience	The similarity of the contracts shall be based on the following: i) design, supply, installation and commissioning of a substation with voltage level of 380 kV or above.		
114	Part 1, Section II Bid Data Sheet (BDS), ITB 17.5 (a) and (d)	All goods and services imported or purchased locally by the Contractor, for exclusive and direct use in the project shall be exempt from Excise Duty, Import Duty, Value Added Tax (VAT), Import Declaration Fee (IDF) and Railway Development Levy (RDL) in accordance with the applicable laws in Kenya.	As stated, all goods and services imported or purchased locally by the contractor shall be exempt from Excise Duty and Value Added Tax (VAT). Could you please confirm whether the employer will be responsible for handling the entire tax exemption process— including applications to and approvals from the Ministry of Energy, Treasury, and KRA — for subcontractors and local suppliers?	The process will involve coordinated effort between the Employer and the Contractor. The Contractor will initiate the request to enable the Employer to facilitate the request through Ministry of Energy, National Treasury, and Kenya Revenue Authority. However, the Contractor must engage a competent agent to follow up with the relevant agencies such as Kenya Revenue Authority, Kenya Bureau of Standards, and Kenya Ports Authority.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
115	Part 1, Section IV Bidding Forms	Schedule No. 2, 3,4,5,6	In the bidding forms, only Price Schedules No. 2 to No. 6 are provided. However, the number of schedules and the format of these schedules in the Excel version of the Price Schedule differ. For example, there is no designated space for the bidder's signature. Could you please clarify this discrepancy? Should we adhere to the bidding forms or the Excel version? Additionally, will you be updating the Excel version to include a signature space?	Each schedule shall have the name and signature of bidder.
116			Please provide geological survey data for the newly built kimuka substation	Refer to Item no. 2 above.
117			Please provide a topographic survey map of the site for the new Kimuka 400kV substation, as well as the elevation of the once-in-a-century flood level.	It is the responsibility of the Bidder to conduct any necessary assessments both for bidding purposes and during project implementation. Bidders are encouraged to visit the respective sites to make their own assessments. Bidders are encouraged to visit site and conduct preliminary investigations. The procedure for making requests is provided in Item no. 2 above.
118	Section IV-Price	Section IV-Price_Schedules 15.1.4	The description of Solar PV Modules in the bidding documents (Section IV-Price_Schedules 15.1.4) is relatively simple. Can you provide specific requirements, such as whether to only provide solar street lights or to construct a centralized photovoltaic inverter system.	Requirements are already provided. Refer to Clause 11 of Section VII, Employers Requirement B- Specifications

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
119			Does the design scope of this project include the expansion of inbound guidance optical cables and SDH equipment boards on the opposite side (SUSWA, ISINYA).	All modification related works, inclusive of design scope, required to execute all required telecommunication between Existing 400 kV Suswa, Existing 400 kV Isinya Existing 220 kV Kimuka and the New 400/220 kV Kimuka are part of the scope of works.
120			If it involves the expansion of the aggregation equipment in the Network Control Centre (NCC), should we consider?	Question reference is not clear.
121			If a joint venture consists of two or more enterprises, please clarify whether the employer will only accept a single comprehensive bid security or is able to accept multiple bid security issued separately by each member enterprise of the joint venture. It should be noted that in both cases, the total amount of the performance bonds remains the same.	A single bid security must be issued in the event of a joint venture.
122	Section III - Qualification 1.2 Contractor's Representative and other Key Personnel Section IV - Bidding Forms Contractor's Representative and other Key Personnel Schedule	While Section III – Qualification Criteria specifies 18 key personnel positions, we have noted that the Contractor's Representative and other Key Personnel Schedule includes two additional positions not listed in the Qualification Criteria: • Sexual Exploitation, Abuse and Harassment	Could you please confirm whether the Bidder is required to provide detailed information, including qualifications and experience, for these two additional positions as part of the bid submission	The Bidder will use Form PER-1 and Form PER-2 as templates to provide information for only the key personnel listed in Clause 1.2 - Contractor's Representative and other Key Personnel in Section III – Evaluation and Qualification Criteria.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
		(SEAH) Expert • Cyber Security Expert/s		
123	Section_IV- Price_Schedules Schedule No. 5. Grand Summary	under Schedule No. 5: Grand Summary, the Employer has pre-filled the Provisional Sum amounts as USD 700,000 under the FC column and KSh 10,000,000 under the LC column	Please confirm that the amounts under 'Provisional Sum' in Schedule No.5 – Grand Summary (USD 700,000 and KSh 10,000,000) are fixed and should be incorporated in the bidder's price schedules without modification.	Confirmed. The provisional sums indicated in Schedule No.5 – Grand Summary (USD 700,000 and KSh 10,000,000) are fixed.
125	Section-VII Specification	Section-VII Specification-12.7 Energy Meter:	Section-VII Specification-12.7 Energy Meter: Energy meters shall be numerical and of the 3-phase 4-wire measuring principle and conform to IEC62053-22 accuracy class 0.2s for active meters and IEC62053-23 accuracy class 2.0 for reactive meters. However, it requires accuracy 0.2 for energy meter. Please clarify which one is prior.	Class 0.25 is required.
126	Section-VII Specification	Section-VII Specification 12.4	There are specification for Smart Meter mentioned in 12.4 but not in BOQ. Please confirm Smart Meters is not needed for the project.	The price schedules list tariff metering under line item 16. These meters must comply with the requirements provided in Clause 12 of Section VII, Employers Requirement B-Specifications

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
127	Section-VII Specification	Section-VII Specification-11.1	Section-VII Specification-11.1 The 110V DC supply system shall comprise 2 x 50% rated duty, Nickel-Cadmium (Ni-Cd) type battery units Section-VII Specification-11.3.3.1 The 110 V battery system shall comprise 2 x 1000% rated duty Nickel-Cadmium (Ni-Cd) type battery units. Please confirm 2 x 50% rated duty battery units instead of 2 x 1000% rated duty battery units to be provided considering the future bays.	Refer to Addendum 3.
128	Section-VII Specification	Section-VII-2E-Schedules of Technical Information	In the TDS of Protection Control and Metering, there are TDS of Under & Over Voltage Relay, Breaker Failure Protection (with Short zone) , STUB Protection, Directional Earth Fault Relay, Over Flux Relay,etc, which are not listed in the BOQ. Please confirm these relays function can be included in the main protection relay instead providing separate relay and BOQ is prior.	Protection implementation shall be as per Clause 8 of Section VII, Employers Requirement B- Specifications and the Protection SLD drawings provided with the tender documents.
129		Section-VII-2E-Schedules of Technical Information	In the TDS of k) PROTECTION CONTROL AND METERING, there are Energy Meters and Fault Recorder, which are repetitive with the separate TDS o) FAULT MONITORING SYSTEM and z) TARIFF METERING SYSTEM. Please confirm these parts only need to be filled in the o) FAULT MONITORING SYSTEM and z) TARIFF METERING SYSTEM.	Bidders are to fill and provide details as presented in the Section-VII-2E-Schedules of Technical Information.
130	Section_IV-Price_Schedules	Section_IV-Price_Schedules_16-5-24	Please clarify the purpose of BOQ item 10.3.4 Outdoor Cabin	The cabins are to house a telephone set for outdoor use. Refer to Clause 9.12.2.5 of

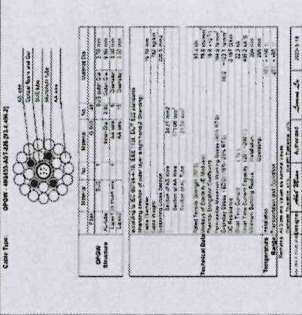
No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
				Section VII, Employers Requirement B-Specifications.
131	Section_IV- Price_Schedules	Section_IV- Price_Schedules_16-5-24	Please clarify the purpose of BOQ item below. We think they are repetitive and only 1 lot of ODF including 3 panels to connect 3 substations need to be provided. 10.11.1 Optical Distribution panel (Main & Collocation Communication room), 10.11.2, Optical Distribution Unit (OCDF) for 48 cores fiber (Main Communication room) 10.11.3 Digital Distribution Unit (ODF) for 48 cores fiber	No, they are not repetitive. These are all required. Refer to Section VII, Employers Requirement B- Specifications for purposes of these items.
132	Section_IV- Price_Schedules_1 6-5-24	Item 10.12.5	For the BOQ item 10.12.5 Power supply with backup battery, there are no related technical specification and TDS. Please clarify.	This power supply is related to EPABX system for communication between guard house and individual Staff housings. This shall be as per bidder's design subject to approval of Employer and Employer's representative.
133		Section-VII Specification	Please confirm MCB is accepted for outgoing feeder of AC sub-distribution panel.	The MCCBs shall be draw-out type and MCBs are fixed type but note that the type of outgoing circuit breakers(MCB/MCCB) are selected based on the CB rating and this will be specified during detail design stage and approved by Employer/Employer Representative.
134	Section-VII Specification	15.1.1& 15.2.1	Please confirm the draw-out type cubicle is only need for BOQ 15.1.1 AC Main and distribution panels not for 15.2.1 110Vdc Main and distribution panels.	The MCCBs shall be draw-out type and MCBs are fixed type but note that the type of outgoing circuit breakers(MCB/MCCB) are selected based on the CB rating and this will be specified during detail design stage and approved by Employer/Employer Representative

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
135	Section_IV-Price_Schedules_1 6-5-24	15.3.1	As required in the BOQ of the quantity of 15.3.1 48Vdc distribution panel is 3, we think the quantity should be 2. Please confirm.	Not confirmed. Follow the quantities indicated in the Price Schedules.
136		Section-VII-2E-Schedules of Technical Information	In the TDS of t) CCTV SURVEILLANCE AND ACCESS CONTROL, 5KVA BATTERY BACKUP SUPPLY are required. Please provide the required capacity for the batteries or clarify the required discharge time for batteries' capacity calculation.	Refer to Addendum 3. The design shall be as per bidder's design subject to approval of Employer and Employer's representative.
137		Section-VII-2D-Drawings-5.Kimuka-400-220kV-SS-220kV-PSLD Section_IV-Price_Schedules_16-5-24	It requires Main I distance protection (21) and MainII differential protection(87L) for 220kV line in the drawings, which is conflicted with the BOQ Main I 87L and MainII 87L. Please clarify which one is prior.	Main I and Main II shall both be line differential. Refer to Addendum 3 for revised Drawing No 5. Kimuka-400-220kV-SS-220kV-PSLD and revised Price Schedules.
138			Please clarify the manufacture of existing SCADA system and NMS system at NCC.	ABB
139			Please clarify the manufacture of existing SCADA system at the existing 220kV Kimuka Substation and 400kV Suswa Substation.	<u>220 kV Kimuka SAS details:</u> Type: GE Viewer Version: 1.1.3 <u>Suswa SAS details:</u> SIMATIC WinCC Version: 7.4 SP1
140			Please clarify the existing line relay type of 220kV Kimuka Substation and 400kV Suswa Substation.	Refer to item no. 97 and 63 above.
141			Please clarify the existing telecommunication equipment manufacture and type of 220kV Kimuka Substation and 400kV Suswa Substation.	Refer to item no 100 and 66 above.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
142		Section_IV- Price_Schedules_16-5-24	Please clarify the teleprotection signalling equipment need to be provided or not for the below item in the BOQ. 10.5.2 Required equipment for modification works at existing Teleprotection Signalling Equipment in existing Suswa 400/220 KV substation 10.6.2 Required equipment for modification works at existing Teleprotection Signalling Equipment in existing existing Isinya 400 KV substation	Note that there is already teleprotection implemented in both 400 kV Suswa and 400 kV Isinya however any modifications that will be required to achieve teleprotection between 400 kV Suswa and 400 kV Kimuka and between 400 kV Isinya and 400 kV Kimuka will be in the scope of works and are covered under these line items.
143		Section-VII Specification Section-VII-2E-Schedules of Technical Information	It requires Halogen free for LV Cables in the technical specification, which is conflicted with the PVC material requirement in the Schedules of Technical Information. Please clarify which one is prior.	Follow the schedules of Technical Information.
144	Section-VII-2B- Specification	18.3 Control Building	The tender documents require the modified of the battery room windows within the existing substation. Whether this work within the scope, and if yes, please provide the specific renovation requirements.	This will not be in the scope of works as the control building shall be new.
145	Section_IV- Price_Schedules_1 6-5-24 Section-VII-2A- Scope & General Requirements Section-VII-2B- Specification	Item 15.10.5 1.Scope of work 18.17. Water, Electricity and Other Services	Discrepancy exists between the quantity of elevated water tanks (4) specified in the BOQ, the scope of work (5), and technical requirements (3x5000, 6x1500). Please clarify which one to follow.	Refer to Addendum 3.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
146	Section-VII-2D-Drawings Section_IV-Price_Schedules_1 6-5-24	Item 20.3 Drawing 14-7.Kimuka-400-220kV	The General Layout (Scope of Work) drawing 14-7.Kimuka-400-220kV does not include Technical staff and Security staff House , while BOQ-Schedule 3A/4A contains related design and quantities. The bidder understands that the relevant house shall be included of the scope work. Please confirm.	Confirmed.
147	Section_IV-Price_Schedules_1 6-5-24 Section-VII-2E-Schedules of Technical Information	w)HEATING VENTILATION AND AIR CONDITIONING (HVAC)	BOQ lists 15 exhaust fans, while the Schedules of Technical Information requires 25. Please clarify which one to follow	Refer to Attachment 1 for the revised Price Schedules/BOQ.
148	Part 1	Bid data sheet - ITB 20.1	Request you to please guide us, the bid security issuance require from Employer's country only or it shall be accepted from any other country bank, which have correspondent with employer's country ?	The Bid Security may be issued by a reputable bank or a non-bank financial institution from an eligible country but with a local corresponding bank/financial institution.
149	Part 1	Bid data sheet - ITB 11.2 (i)	Results of type tests shall have been conducted within the last seven years prior to the date of tender submission. Is it acceptable if any manufacturer has type test within the last ten (10) years.	Refer to Addendum 3.
150	Part 1	Bid data sheet - ITB 11.2 (i)	Please confirm, can we submit the type test reports with few title pages of total report, which shows clearly manufacturer name, product name and test laboratory details?	The bidder shall submit the entire report including contact details with its bid, not just a few pages.
151	Part 1	1.4 [Qualification] Subcontractors/Manufacturers	For Power/Auto Transformers for 400/220 kV substations required, 15 years of manufacturing experience of power transformers rated 400/220kV, 150MVA and	Not acceptable.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
			above. Is it acceptable 14 years of manufacturing experience ?	
152	Section - VII-2B- Specification	Surge arrester	As per the technical specification, requirement is for Porcelain type surge arresters but some manufacturer have completely phased out the manufacturing of porcelain housed surge arresters and the same cannot be offered. They will offer for Polymer surge arresters. Please note that porcelain and polymer housed surge arresters are functionally same subjected to change in external housing, height and mounting dimensions. Please confirm, is it acceptable?	Confirmed. Polymer type housing for surge arrester is acceptable as indicated in Section VII. Employer's Requirements- E- Schedules of Technical Information clause b, 8.24 and 8.25 for 400 kV and clause c, 8.24 and 8.25.
153	Section - VII-2B- Specification	Surge arrester	About housing material, there is deviation in technical specification and given datasheet, please confirm which one we consider?	Both Porcelain and Polymer are acceptable as indicated in Section VII. Employer's Requirements- E- Schedules of Technical Information clause b, 8.24 and 8.25.
154	Section - VII-2B- Specification	OPGW	1. Crush test - Aluminum clad steel tube structure is better than aluminum tube in terms of lateral pressure resistance, as can be seen through manufacturer internal testing, the aluminum clad steel tube structure can withstand a pressure of 15kN, whereas the aluminum tube structure deforms when subjected to a force of 5kN in the time unit. So please accept the same. 2. Impact test - Aluminum-clad steel tube structure has better impact resistance than aluminum tube structure.	Not Accepted. Refer to the specifications as provided in the tender documents.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
155	Section - VII-2B-Specification	OPGW	Attached picture of previously supplied OPGW, request to please accept the same. 	Submissions by the bidder will be evaluated during evaluation stage.
156	Section - VII-2B-Specification	Substation and LULO line Equipment	Please confirm the altitude level is 1850 m or 1000 m?	It is 1850m. Refer to Clause 2.1.4 of Section VII, Employers Requirement B-Specifications.
157	Section - VII-2D-Drawings	Drawings	Request to please provide all drawings in soft copy of DWG format.	Request not accepted.
158	Section - IV	Price Schedule, 15.1.4	1. Request to please confirm the Solar PV System required along with battery energy storage system or without? 2. Please confirm, is it require including with 5 year operation & maintenance?	1. Refer to Clause 11.3.2 of Section VII, Employers Requirement B-Specifications. 2. Refer to GC Clause 27.
159	Section - IV	Price Schedule, 1.11 - CVT	For 400kV Capacitive voltage transformer, for Protection and Measuring, Two Cores (1-phase) , please confirm is it 2 core?	Refer to the tender single line diagrams that indicate different types of CVTs based on their application.
160	Specific Procurement Notice	5. The bidding document in English is available for download by interested eligible Bidders via this link: https://www.ketraco.co.ke/procurement/tenders/open-tenders	Please confirm, whether Bidder need to also purchase the bidding documents on or before bid submission. If yes, please inform the tender purchasing fees along the bank details.	Bidding documents are not for sale.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
161	BDS ITB 21.3	The written confirmation of authorization to sign on behalf of the Bidder shall consist of: a power of attorney established in the name of the signatory of the bid issued by legally authorised representative(s) of the Bidder.	Please confirm any Specific format of Power of Attorney to be followed . Please confirm whether Power of Attorney to be executed in the legal stamp paper of bidders home country and attestation of notary in bidders home country.	For bid submission purposes, there is no specific format other than what is prescribed in BDS ITB 21.3. For contract signing purposes, the winning Bidder must submit a Power of Attorney in the format prescribed by the Land Registration Act (Form LRA-6) available on the website of the State Department for Lands and Physical Planning: https://lands.go.ke . The Power of Attorney must be signed by an authorized legal representative and be registrable with the Registrar of Documents in Kenya.
162	BDS ITB 22.1	Three (3) hard copies and Two (2) soft copies in flash disks for the Technical Part.	What is flash disk? Whether Bidder can able to submit Two (2) soft copied in pendrives, please confirm.	Flash disk is a portable data storage device, also referred to as a pen drive.
165	Section_IV- Price_Schedules_1 6-5-24	Price Schedule	As per tender price schedule provision for quoting has been given in one Foreign currency i.e USD .If bidder want to quote in Multiple foreign currency ,whether the price schedule can be modified accordingly . Also please indicate the maximum number of currency bidder can quote.	Refer to ITB 18.2 and BDS ITB 18.1.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response												
166	BDS ITB 17.5 (a) and (d)	All goods and services imported or purchased locally by the Contractor, for exclusive and direct use in the project shall be exempt from Excise Duty, Import Duty, Value Added Tax (VAT), Import Declaration Fee (IDF) and Railway Development Levy (RDL) in accordance with the applicable laws in Kenya.	Bidder understanding is that any taxes & Duties is not part of the bid evaluation and bidder need not to consider the same for any imported or local goods & services.	Taxes and duties will be evaluated. Exclusions for bid evaluation are listed in ITB 36.1. Refer to GC and PC 14.1 for the tax and duties obligations of the Contractor.												
167	Section VIII – General Conditions of Contract 224 21.3	Transportation	For Inland transportation within the employer's country, if any local tax is applicable for transportation, same is not in bidders scope.	Refer to GC Clause 14.1.												
168	BDS ITB 32.2		Our understanding is against factor 1 (a) & 1 (b) , specific experience of bidder to be submitted and shall be evaluated. Here 'subcontractor' is not applicable. <table><tr><th>Factor #</th><th>Description of criteria</th><th>Maximum Points</th></tr><tr><td>1</td><td>Specific Experience of the Bidder</td><td>20</td></tr><tr><td>1a</td><td>Specific Experience of the bidder: the Employer will assess whether the bidder (or subcontractor) has relevant design experience</td><td>10</td></tr><tr><td>1b</td><td>Specific Experience of the bidder: the Employer will assess whether the bidder (or subcontractor) has relevant construction and quality assurance experience</td><td>10</td></tr></table>	Factor #	Description of criteria	Maximum Points	1	Specific Experience of the Bidder	20	1a	Specific Experience of the bidder: the Employer will assess whether the bidder (or subcontractor) has relevant design experience	10	1b	Specific Experience of the bidder: the Employer will assess whether the bidder (or subcontractor) has relevant construction and quality assurance experience	10	Refer to item no. 111 above.
Factor #	Description of criteria	Maximum Points														
1	Specific Experience of the Bidder	20														
1a	Specific Experience of the bidder: the Employer will assess whether the bidder (or subcontractor) has relevant design experience	10														
1b	Specific Experience of the bidder: the Employer will assess whether the bidder (or subcontractor) has relevant construction and quality assurance experience	10														

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
169	Appendix 1. Terms and Procedures of Payment	<u>Schedule No. 1. Plant and Equipment Supplied from Abroad:</u> *Ten percent (10%) of the total CIP amount as an advance payment against receipt of invoice and an irrevocable advance payment security for the equivalent amount made out in favour of the Employer. The advance payment security may be reduced in proportion to the value of the plant and equipment delivered to the site, as evidenced by shipping and delivery documents. *Sixty percent (60%) of the total or pro rata CIP amount upon Incoterm "CIP", upon delivery to the carrier within ninety (90) days after receipt of invoice and the following documents: i. Copy of a signed commercial invoice wicopy of cargo insurance certificate iii.Copy of a clean non-	For better cash flow and industrial practice Bidder's Proposal for payment terms as follows: <u>Schedule No. 1. Plant and Equipment Supplied from Abroad:</u> *Ten percent (10%) of the total CIP amount as an advance payment against receipt of invoice, and an irrevocable advance payment security for the equivalent amount made out in favour of the Employer. The advance payment security may be reduced in proportion to the value of the plant and equipment delivered to the site, as evidenced by shipping and delivery documents. *Eighty percent (80%) of the total or pro rata CIP amount upon Incoterm "CIP", upon delivery to the carrier within ninety (90) days after receipt of invoice. i. Copy of a signed commercial invoice ii. Copy of Quality Assurance Certificate iii. Copy of Factory Acceptance Test Report where applicable iv. Copy of inspection certificate approved by the Procuring Entity. * Five percent (5%) of the total or pro rata CIP amount upon issue of the Completion Certificate, within ninety (90) days after receipt of invoice.	Not acceptable.

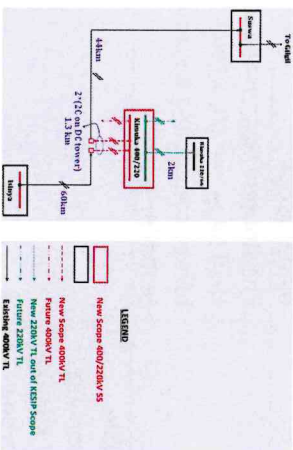
No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
		negotiable transport document (i.e. On-Board Ocean Bill of Lading or Waybills) iv. Certificate of Origin issued by the Chamber of Commerce of the manufacturer's country v. Detailed packing list vi. Copy of Certificate of Conformity vii. Copy of Factory Acceptance Test Report *Twenty percent (20%) of the total or pro rata CIP amount upon Incoterm "CIP", upon erection and installation, within ninety (90) days after receipt of invoice and the following documents: *Five percent (5%) of the total or pro rata CIP amount upon issue of the Completion Certificate, within ninety (90) days after receipt of invoice. *Five percent (5%) of the total or pro rata CIP amount upon issue of the Operational Acceptance Certificate, within ninety	* Five percent (5%) of the total or pro rata CIP amount upon issue of the Operational Acceptance Certificate, within ninety (90) days after receipt of invoice	

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
		(90) days after receipt of invoice.		
170	Section IV - Bidding Forms- Letter of Bid - Financial Part	Commissions, gratuities and fees: We have paid, or will pay the following commissions, gratuities, or fees with respect to the Bidding process or execution of the Contract:	Please clarify the requirement of commissions, gratuities and fees	Not applicable.
171	1.4 Subcontractors/M anufacturers	QR requirement of Manufacturers- 15 years of manufacturing experience of -----	Whether Credentials of parent company can be submitted on behalf of its sister company established in different country where from the materials to be sourced . Please clarify	This is not acceptable.
172	Section III – Evaluation and Qualification Criteria	<u>Civil works</u> <u>Subcontractor/Electromechanical works</u> <u>subcontractor</u> The subcontractor shall meet the minimum requirements and experience for registration with National Construction Authority (NCA) for class two (NCA 2) category under building engineering works. Evidence of this eligibility must be provided at the bidding stage. Proof of successful registration shall be provided by the successful bidder upon	If a Foreign Bidder doesn't have NCA & class 2 (NCA2) Certificate and furnish a declaration to regarding registration as per tender clause under NCA in the event of an award but other experience under the said clause is met by foreign bidder , in that senerion bidder can use his own experience for civil & electromechanical work.	This question is not clear.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
		commencement of the contract.		
173	Subcontractors/Manufacturers		In the event of an award if the contractor proposes any new suppliers/manufacturer which was not part of their bid, will be accepted by Employer or not subject to the new proposed manufacture meeting the QR required for that particular product.	This is not acceptable.
174		Soil Data/Report	Please provide the Soil data of proposed Kimuka Substation.	Refer to item no. 2 above.
175	Disconnecter	GTP for Isolator	Please confirm Type of Disconnecter is Horizontal Double Break or Horizontal Center Break, Current Rating, Voltage Rating.	Refer to Section VII. Employer's Requirements- E – Schedules of Technical Information which indicates allowed type of disconnectors, current and voltage ratings. Refer to SLD drawings as well for current and voltage ratings.
176	Disconnecter	GTP for Isolator	We have gone through the Technical details and observed Electrical endurance class of disconnectors as 'Class E2'. In this regard, we wish to inform you that, our Earth Switches of Disconnectors are with Electrical Endurance 'Class E0' type and suitable for off Load disconnectors only. It can withstand Short Time current and does not have any Short Circuit making capacity i.e E2 Type.	Refer to schedules of technical information for required parameters.
177	Service Condition_3.h	Altitude consideration	We understand that the altitude to be considered for the subject project is 1850m. Kindly confirm.	Refer to item no. 156 above.
178 179	Circuit Breaker		Kindly confirm the no. of Point on wave switching relays that needs to be considered.	Refer to the price schedules, item no 6.1.4

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
181	Technical Specification_3.2.5.1	For maintenance purposes, means shall be provided for manual operation including the slow closing and opening of those circuit breakers whose moving contacts are mechanically coupled to the direct linkage mechanism	The mentioned is not applicable for spring operated circuit breakers.	Technical specifications as indicated in clause 3.2.5.1 of Section VII, Employers Requirement shall be followed.
182	GTR_1.15.1	The gland plates shall be equipped with suitable cable glands, made of non-corrosive material (e.g. nickel-plated brass or stainless steel) and shall be of metric size. They shall provide protection class of at least IP 67 at 5 bar.	The offered breaker shall be offered with ungrilled gland plate with protection class of IP55.	Technical specifications as indicated in clause 3.2.5.1 of Section VII, Employers Requirement shall be followed.
183	Circuit Breaker	Type Test	The type test for the offered breaker shall be as per IEC 62271-100. Any repetition of test or conducting a special test shall not be in bidder scope.	The type test for the offered breaker shall be as per IEC 62271-100 and Section VII. Employer's Requirements- B – Specifications section 3.4.
184	Circuit Breaker	Routine Test	The Routine test for the offered breaker shall be as per IEC 62271-100. Any repetition of test or conducting a special test shall not be in bidder scope.	The Routine test for the offered breaker shall be as per IEC 62271-100 and Section VII. Employer's Requirements- B – Specifications section 3.4.
185	Technical Specifications (CVT)	VA Burden & Capacitance	Kindly specify the VA burden & the capacitance of CVT that needs to be considered.	Refer to the SLD's notes about burden of CT and CVT. For capacitance, this will be based on the bidder's and manufacturer's design subject

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
				to approval by the Employer/Employer's representatives.
186	Technical Specifications (CVT)	Special Tools & Equipment	Any specific tools & equipment is not required, hence not envisaged.	If any specific tools & equipment is required this shall be provided by the bidder
187	CVT	Type Test	The type test for the offered CVT shall be as per IEC 61869-5. Any repetition of test or conducting a special test shall not be in bidder scope.	The type test for the offered CVT shall be as per IEC 61869-5 and Section VII. Employer's Requirements- C – Specifications section 3.4.
188	CVT	Routine Test	The Routine test for the offered breaker shall be as per IEC 61869-5. Any repetition of test or conducting a special test shall not be in Bidder scope.	The Routine test for the offered CVT shall be as per IEC 61869-5 and Section VII. Employer's Requirements- B – Specifications section 3.4.
189		Is the 220kV Double circuit transmission line form 400/220 kV Kimuka Station to the existing 220/66kV Kimuka station included in the scope of the current tender?		Yes. Refer to Clause 1.3.3 Section VII, Employers Requirement A
190	Equipment details for existing Kimuka 220/66 kV station, Suswa	SAS Brand: specify the brand of the substation Automaton system (SAS) currently installed.		Refer to item 62, 63, 66, 79,80, 83, 96, 97 and 100 above
191	400kV, Isinya 400/220kV Station	Communication Equipemnt Brands: List the brands of communication devices.		Refer to item 62, 63, 66, 79,80, 83, 96, 97 and 100 above
192		Equipment list and parameters, and modification requirement for SAS and		Refer to item 62, 63, 66, 79,80, 83, 96, 97 and 100 above

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
		communication equipment of existing Kimuka 220/66kV station		
193	Scope of Tender Inquiry		Is the 220 kV double-circuit transmission line from the 400/220 kV Kimuka Station to the existing 220/66 kV Kimuka Station included in the scope of the current tender? As it is shown 	Yes. Refer to Clause 1.3.3 Section VII, Employers Requirement A
194			Are there any specified bank requirements in the tender guarantee in the tender documents? Can you supplement the definition? We need to consult you on which day the exchange rate will be calculated?	Refer to ITB 20, BDS ITB 20.1 and item no. 148 above. The date for the exchange rate shall be the deadline for Bid submission. The source of exchange rate shall be the Central Bank of Kenya.
195			Is the bid guarantee in RMB?	Refer to BDS ITB 20.1.
196			Whether the bid guarantee has requirements for the bank, there are three ways for us to open the guarantee at present: (1) After opening the paper directly, your home will pick up the paper and deliver it to	Refer to ITB 20.3 and item no. 148 above.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
			the beneficiary in person or by mail; (2) Our bank telex and entrust to notify the beneficiary/to our agency to deliver to the beneficiary; (3) Our bank entrusts the beneficiary/send it to our agency to deliver it to the beneficiary;	
197			The validity period of the bid guarantee is 28 days after the bid closing date, and the current bid closing date is June 10th. The bank wants to add a specific expiration date to the insurance guarantee letter, which I wonder whether the owner can accept.	Refer to ITB 20.3 for the validity period of the Bid Security. The Bid Security must be either one of the formats provided in the Bidding Document in Section IV – Bidding Forms.
198			The performance bond shall be issued by a bank licensed by the Central Bank of Kenya and classified as a "large bank". So where is the list of banks that Kenya's central bank classifies as "mega-banks" to be found?	This can be obtained from the Central Bank of Kenya website: https://www.centralbank.go.ke/reports/bank-supervision-and-banking-sector-reports/ Bidders to conduct due diligence.
199			May I ask whether a tax exemption letter can be issued for this project? This will help us to make a better offer.	Refer to item no. 114 above and BDS ITB 17.5 (a) and (d) for the exemption applicable to the project.
200	Section-VII-2E-Schedules of Technical Information-b).6.1 Section-VII-2E-Schedules of Technical Information-c).6.1		Please confirm whether the rated current of 400kV wire responds according to 4000A and whether the rated current of 220kV wire responds according to 2500A. Is it necessary for the wire carrying capacity of the outlet interval to be so large? Can you give the specific transmission capacity and the wire carrying capacity according to the actual situation? Can the transformer spacing be calculated according to the	Refer to the SLD, Schedules of technical requirements and Employer's requirements for the required current ratings.

No.	Reference	Reference (Article and Particular)	Clarifications/Requests	KETRACO Response
201	Design scheme and loop name and number of access to new station:		transformer capacity to require the wire carrying capacity? In the scope of work described in Section-VII-2A-Scope & General Requirements, a 220kV circuit of the existing Suswa 400/220 kV substation will be removed and relocated to the 400kV side, but the specific circuit number and name are not specified. It is also not clear whether all required materials, including conductors, fittings, connectors, clamps, etc., need to be re-supplied. Do you need to resupply?	Refer to Clause 1.3.4 Section VII, Employers Requirement A. The circuit name is Suswa- Kimuka line. All required material and implementation works in order to connect the circuit to the 400 kV bus bar, is included in the contractor's scope and shall be deemed considered in the Contractor's price.
202	Existing Isinya 400/220 kV substations		(1) The existing SUSWA-1 line designed for 400kV but operating at 220kV must be restored to 400kV operation; (2) The existing 220kV line connection at the parse-2 interval on the 220kV side shall be removed and the low-voltage side of the IBT-1 transformer shall be connected to the vacated 220kV interval; (3) Remove the interval originally used for Suswa-Isinya 220kV line, and use the interval to connect the IBT-1 transformer (the original IBT-1 has been put into operation on the 400kV side, but there is no available interval on the 220kV side). It is difficult to confirm and locate the specific circuit in the drawing, do the related equipment and materials need to be supplied again?	Refer to Clause 1.2.4 and 1.3.5 of Section VII, Employers Requirement A. Bidders are encouraged to visit Site to gain more clarity on the scope of work. The procedure for undertaking a site visit is outlined in the response to item no. 2 above