

Notice to all Bidders.

TENDER ADDENDUM AND CLARIFICATION No. 11 (TAC 11)


RE: Procurement of Plant, Design, Supply and Installation of the 220kV Mariakani - Dongo Kundu Transmission Line and Associated Substations (KETRACO/PT/045/2023)

The following amendments are made to the specified provisions for the bidding documents for procurement of plant, design, supply and installation of the 220kV Mariakani - Dongo Kundu Transmission Line and Associated Substations (KETRACO/PT/045/2023).

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 the ADDENDUM and CLARIFICATION No. 11, consisting of twenty-five (25) 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 Request for Proposal document remains the same.



PETER NJEHIA
SENIOR MANAGER, SUPPLY CHAIN

Tender Addendum and Clarification No. 11 of Tender No. KETRACO/PT/045/2023 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. Clarification No. 11

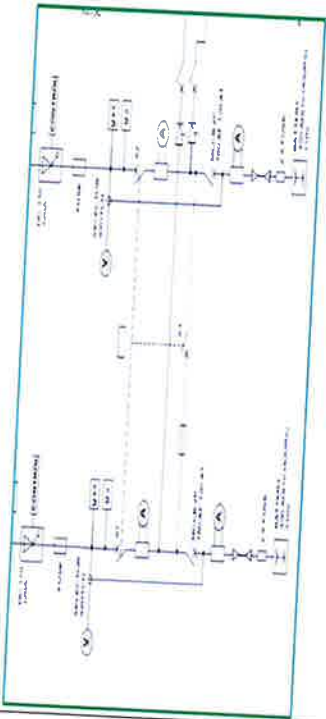
No	Volume	Part/ Page	Section/ Clause No.	Reference	Clarification	Reply from KETRACO																																
1	Volume III of VII- PART 2, 13- Section VI-2B-09- Specifications-Low Voltage Cables- 20230704, 9.7 Low Voltage Multicore Cables & 9.12. Technical Data Sheets For Low Voltage Control Cables	VI-2B-09 - 7 & VI-2B-09 - 0	9.7 Low Voltage Multicore Cables	<p>The conductors for power supply cables at voltages up to 600/1000 V AC and for all 110 V DC protection, control, alarm and indication shall be plain annealed copper wire complying with IEC 60228 as applicable or equivalent and all cores shall be clearly identified by printed numbers at regular intervals.</p> <p>Mombasa S/A (Electricity) VI-2B-09 - 7</p> <p>9.12. Technical Data Sheets For Low Voltage Control C</p> <table border="1" data-bbox="702 985 973 1366"> <thead> <tr> <th>Description</th> <th>Units</th> <th>Required</th> <th>Given</th> </tr> </thead> <tbody> <tr> <td>1.1 Type</td> <td></td> <td>Announced multi-conductor</td> <td></td> </tr> <tr> <td>1.2 Manufacturer Country of origin</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.3 Rated maximum voltage</td> <td>V</td> <td>750</td> <td></td> </tr> <tr> <td>1.4 Frequency</td> <td>Hz</td> <td>50</td> <td></td> </tr> <tr> <td>1.5 Insulation level</td> <td>%</td> <td>100</td> <td></td> </tr> <tr> <td>1.6 Strand class</td> <td></td> <td>2 (IEC 60228) or B (ASTM B 8)</td> <td></td> </tr> <tr> <td>1.7 Conductor</td> <td></td> <td>Tinned stranded copper as per ASTM B33</td> <td></td> </tr> </tbody> </table>	Description	Units	Required	Given	1.1 Type		Announced multi-conductor		1.2 Manufacturer Country of origin				1.3 Rated maximum voltage	V	750		1.4 Frequency	Hz	50		1.5 Insulation level	%	100		1.6 Strand class		2 (IEC 60228) or B (ASTM B 8)		1.7 Conductor		Tinned stranded copper as per ASTM B33		<p>Please note that technical data sheet for Low Voltage Control & Power cables specified Tinned stranded copper & Annealed Stranded copper respectively. Whereas technical specification Cl. 9.7 Low Voltage Multicore Cables calls for plain annealed copper wire instead of Tinned standard copper wire. Hence please clarify.</p>	<p>Tinned stranded copper as per ASTM B33 shall be used.</p>
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2	Volume III of VII- PART 2, 12- Section VI-2B-08- Specifications-Low Voltage Switchgear-dr1- 20230707, 8.4. Miniature and Moulded Case Circuit Breakers	VI-2B-08 - 9	8.4. Miniature and Moulded Case Circuit Breakers	<p>Each outgoing feeder shall be controlled and protected by a withdrawable moulded case circuit breaker.</p> <p>All MCCBs shall be of instantaneous type and shall be designed and constructed to have short circuit breaking capacity as required. The rated service short-circuit breaking capacity shall fulfil the values of the prospective short-circuit current at the location. This warranty that the shut down time, after a breaking of short-circuit current, is as short as possible, due to the fact that the circuit breaker keeps to be serviceable.</p>	<p>Please note that technical specification Cl. No. 8.4. Miniature and Moulded Case Circuit Breakers calls for both MCCB & MCB withdrawable type. Whereas withdrawable type MCCB/MCB in LVAC Panel board size not adequate the building size. Hence Please confirm whether Withdrawable type (or) Fixed type MCCB/MCB.</p>	<p>Withdrawable Type shall be used for the MCCB (above 100A) while MCB below 100A shall be fixed type.</p>																																



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3	Volume III of VII- PART 2, 12- Section VI-2B-08- Specifications-Low Voltage Switchgear-dr1- 20230707, 8.5. 110V DC Service Equipment	VI-2B-08 - 10	8.5.2. Miniature and Moulded Case Circuit Breakers Each outgoing feeder shall be controlled and protected by a withdrawable moulded case circuit breaker. Miniature and moulded case circuit breakers shall be in accordance with the Employer's Requirements stated above.	Please note that technical specification Cl. No. 8.5. Miniature and Moulded Case Circuit Breakers calls for both MCCB & MCB withdrawable type Whereas withdrawable type MCCB/MCB in 110V DC distribution board size not adequate the building size. Hence Please confirm whether Withdrawable type (or) Fixed type MCCB/MCB.	Withdrawable Type shall be used for the MCCB (above 100A) while MCB below 100A shall be fixed type.																																				
4	Volume I of VII- PART 1, Volume I - PART 1_20231227, Section III. Evaluation and Qualification Criteria (without prequalification), EQC-1, 1.1.3 Subcontractor for major item of the Works	EQC-1	<table border="1" data-bbox="762 958 1098 1641"> <thead> <tr> <th>Item No.</th> <th>Description of Item</th> <th>Minimum Criteria to meet</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>230-33KV, 750MVA Transformer Online monitoring system, water firefighting system, OLTC</td> <td>20 years of manufacturing experience of similar equipment or higher rating. Similar Equipment or higher rating being in successful operation for at least five (5) years. The operational experience shall be supported by end-user certificates from at least three (3) utilities clients with comprehensive contact details.</td> </tr> <tr> <td>2</td> <td>235KV Switch Gear (Circuit breaker, Transformer, Capacitor Voltage Transformer, Isolator/cut-off switch, Surge Arrester)</td> <td>Supply of similar equipment of higher rating to at least three (3) project sites of which shall be outside the manufacturer's home country, supported by end-user certificates/letters from the utilities clients with comprehensive contact details.</td> </tr> <tr> <td>3</td> <td>30kV Switching Capacitor Bank</td> <td></td> </tr> <tr> <td>4</td> <td>30kV indoor Gas Insulated Switchgear</td> <td></td> </tr> <tr> <td>5</td> <td>Control, protection, and metering, SVS</td> <td></td> </tr> <tr> <td>6</td> <td>Telecommunication fiber optic link</td> <td></td> </tr> <tr> <td>7</td> <td>DC supply, DC supply system</td> <td></td> </tr> <tr> <td>8</td> <td>110KV GIS conductor and GPOW</td> <td></td> </tr> <tr> <td>9</td> <td>Steel Tower</td> <td></td> </tr> <tr> <td>10</td> <td>33.0/115KV Auxiliary Transformer</td> <td></td> </tr> <tr> <td>11</td> <td>Oil purifier unit, 4,000/L/h</td> <td></td> </tr> </tbody> </table>	Item No.	Description of Item	Minimum Criteria to meet	1	230-33KV, 750MVA Transformer Online monitoring system, water firefighting system, OLTC	20 years of manufacturing experience of similar equipment or higher rating. Similar Equipment or higher rating being in successful operation for at least five (5) years. The operational experience shall be supported by end-user certificates from at least three (3) utilities clients with comprehensive contact details.	2	235KV Switch Gear (Circuit breaker, Transformer, Capacitor Voltage Transformer, Isolator/cut-off switch, Surge Arrester)	Supply of similar equipment of higher rating to at least three (3) project sites of which shall be outside the manufacturer's home country, supported by end-user certificates/letters from the utilities clients with comprehensive contact details.	3	30kV Switching Capacitor Bank		4	30kV indoor Gas Insulated Switchgear		5	Control, protection, and metering, SVS		6	Telecommunication fiber optic link		7	DC supply, DC supply system		8	110KV GIS conductor and GPOW		9	Steel Tower		10	33.0/115KV Auxiliary Transformer		11	Oil purifier unit, 4,000/L/h		Please note minimum criteria specified for successful operation for at least five (5) years from end customers. Whereas most of the vendors having 3-year successful operation certificate from end users. Hence please clarify.	The criteria provided in Volume I of VII-PART 1, Section III. Evaluation and Qualification Criteria (without prequalification), EQC-1 sub clause 1.1.3 shall prevail.
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6	<p>Volume III of VII-PART 2, 11-Section VI-2B-07-Specifications-Auxiliary Transformer-20230704, 7.5 Technical data sheets for Auxiliary Transformer</p> <p>&</p> <p>Volume V of VII-PART 2, 37-Section-VI-2E-Drawings, Dwg. No.11-MSEZ-2022-SS-E-009-Control Protection -Indoor Switchgear room arrangement</p>		<p>System 31 Transformer Substation 7.5 TECHNICAL DATA SHEETS FOR AUXILIARY TRANSFORMER AUXILIARY TRANSFORMER 300/35KV WITH 350 KVA UNIT</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Item</th> <th>Required</th> <th>Offered</th> </tr> </thead> <tbody> <tr> <td>1.1</td> <td>Manufacturer name and place of manufacturing & testing</td> <td></td> <td></td> </tr> <tr> <td>1.2</td> <td>Type Designation</td> <td>350/350KV</td> <td></td> </tr> <tr> <td>1.3</td> <td>TYPE</td> <td>These phase and immersed core type</td> <td></td> </tr> <tr> <td>1.4</td> <td>Standard</td> <td>IEC 60076 Part 1, 2, 3, 5, 6, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100</td> <td></td> </tr> <tr> <td>1.5</td> <td>Insulating</td> <td>NEEMA TEU (INDIA)</td> <td></td> </tr> <tr> <td>1.6</td> <td>Rated voltage ratio</td> <td>33/0.415KV</td> <td></td> </tr> </tbody> </table>	Sl. No.	Item	Required	Offered	1.1	Manufacturer name and place of manufacturing & testing			1.2	Type Designation	350/350KV		1.3	TYPE	These phase and immersed core type		1.4	Standard	IEC 60076 Part 1, 2, 3, 5, 6, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100		1.5	Insulating	NEEMA TEU (INDIA)		1.6	Rated voltage ratio	33/0.415KV		<p>Please note that technical data sheet for 350kVA Auxiliary Transformer specified Outdoor & Oil immersed type. Whereas Control room arrangement drawing indicated auxiliary transformers mounted on inside building instead of Outdoor mounting. Hence please clarify whether Outdoor, Oil immersed type (or) indoor, hermetically sealed type.</p>	<p>Refer to drawing no. MSEZ-2022-SS-/E-009 which clearly indicates that auxiliary transformers are installed outdoor with partition wall.</p>								
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7	Tender Addendum and Clarification No.3 (TAC 3)	Sl. No.12, Page 6 of 29	1.6.4 VI/2A-11 2023/04	<p>1. DONGO KURDU 220/33KV SUBSTATION</p> <p>1.6.4 Energy meter Export/Import class 0.2 shall be provided for 220KV Main and Check 220KV Main Lines and Main Transformer LV side</p> <p>2. For 33KV side, one meter for each line leader and transformer feeders shall be provided. As shown in the PSD drawings</p> <p>3. For the 415 V, 3 meters shall be provided as shown in the LVAC drawings</p>	Please note that the substation auxiliaries LVAC supply are supplied from within the 33kV switchgear and not from a 33kV source outside. However, as per TAC-3, Sl. No.12, there is a requirement for three sets of Class 0.2 energy meters with both import and export capabilities for the LVAC panel. Hence please confirm import & export facility of energy meters for LVAC panel.	Energy meters to be used shall have both import and export functionalities.																																																							
8	Volume V of VII-PART 2, 37- Section-VI-2E- Drawings, 8-MSEZ-2022-SS-E-006 -220KV OUTDOOR SWITCHYRD ARRANGEMENT (PLAN), MSEZ-2022-SS/E-006			<p>PROPOSED DONGO KURDU 220/33KV SUBSTATION COORDINATES</p> <table border="1"> <thead> <tr> <th>STATION</th> <th>(Y) NORTHINGS</th> <th>(X) EASTINGS</th> <th>CLASS OF BEACON</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td>DK10</td> <td>9546957.30</td> <td>566111.71</td> <td>IPC</td> <td>BENCHMARK</td> </tr> <tr> <td>DK4</td> <td>9547299.43</td> <td>566663.44</td> <td>IPC</td> <td>BENCHMARK</td> </tr> <tr> <td>K1</td> <td>9548775.53</td> <td>566392.60</td> <td>AIC</td> <td>CORNER POINT</td> </tr> <tr> <td>K2</td> <td>9546639.94</td> <td>566408.90</td> <td>AIC</td> <td>CORNER POINT</td> </tr> <tr> <td>K3</td> <td>9546631.60</td> <td>566242.56</td> <td>AIC</td> <td>CORNER POINT</td> </tr> <tr> <td>K4</td> <td>9546671.49</td> <td>566218.63</td> <td>IPCU</td> <td>CORNER POINT</td> </tr> <tr> <td>K5</td> <td>9546686.42</td> <td>566209.21</td> <td>AIC</td> <td>CORNER POINT</td> </tr> <tr> <td>K6</td> <td>9546711.28</td> <td>566199.77</td> <td>AIC</td> <td>CORNER POINT</td> </tr> <tr> <td>K7</td> <td>9546735.51</td> <td>566192.37</td> <td>AIC</td> <td>CORNER POINT</td> </tr> <tr> <td>K8</td> <td>9546766.73</td> <td>566187.35</td> <td>AIC</td> <td>CORNER POINT</td> </tr> </tbody> </table>	STATION	(Y) NORTHINGS	(X) EASTINGS	CLASS OF BEACON	REMARKS	DK10	9546957.30	566111.71	IPC	BENCHMARK	DK4	9547299.43	566663.44	IPC	BENCHMARK	K1	9548775.53	566392.60	AIC	CORNER POINT	K2	9546639.94	566408.90	AIC	CORNER POINT	K3	9546631.60	566242.56	AIC	CORNER POINT	K4	9546671.49	566218.63	IPCU	CORNER POINT	K5	9546686.42	566209.21	AIC	CORNER POINT	K6	9546711.28	566199.77	AIC	CORNER POINT	K7	9546735.51	566192.37	AIC	CORNER POINT	K8	9546766.73	566187.35	AIC	CORNER POINT	Please note that the X and Y coordinates of the substation boundary corners do not match with the Layout drawings. Hence please clarify.	The layout drawing is a general guide and not drawn to scale. The contractor shall match the layout within the coordinates provided and the design shall be to scale.
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K8	9546766.73	566187.35	AIC	CORNER POINT																																																									

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9	Volume III of VII- PART 2, 12- Section VI-2B-08- Specifications-Low Voltage Switchgear-dr1- 20230707, 8.13. Technical Data Sheets for Low Voltage Switchgear & 6- MSEZ-2022-SS-E- 004_110V DC POWER SUPPLY SYSTEM AND 230V INVERTER SUPPLY SYSTEM_s2	VI-2B-08 - 43		<p>Please note technical schedule specified 2 x 50% of 900AH 110V battery bank. Whereas Single line diagram mentioned 2 set of 450AH, 110V battery bank instead of 900AH. Hence please clarify whether 450AH (or) 900AH capacity.</p>	<p>Minimum capacity is 450AH x 2 sets. The Contractor shall calculate required capacity based on the Load to be installed.</p>	<p>Reply from KETRACO</p>
10			General Answer no. 50 of Addendum no.3,	<p>In the answer no. 50 of Addendum no.3, The bidder found that Pre-Export Verification of Conformity is required for every imported materials. However, usually ODA project, the bidder understands that PVoC and CoC for any imported goods/ equipment for the Project (including Permanent materials/ Temporally materials/ the</p>	<p>Bidders to comply with Tender Addendum and Clarification No.3 item no.50.</p>	

No	Volume	Part/ Page	Section/ Clause No.	Reference	Clarification	Reply from KETRACO
11	Volume I of VII- PART 1	Section III. Evaluation and Qualification Criteria (without prequalification n)	1.1.3 Subcontractor for major item of the Works	Submission Requirement "Type test certificates issued by independent institution and less than 5 years old."	Contractor's own equipment) shall be waived. Please kindly confirm again whether PVoC and CoC can be waived or not. In many instances, unless a manufacturer has made technological advancements in their product, which may require conducting a type test, the majority do not perform these tests unless they have introduced a new product or enhanced the existing one. Therefore, minimum requirement of less than 5 years may be challenging for majority of the items. Please kindly consider (1) the waive for the condition of " less than 5 years". (2) If not, extend this period from "less than 5 years" to "less than 10 years".	Type test certificate has been extended to less than 10 years old. This shall supersede responses given in Tender Addendum and Clarification No.6, item no. 12 and Tender Addendum and Clarification No.8, item no. 9.
12	Volume I of VII- PART 1	Section III. Evaluation and Qualification Criteria	1.1.3 Subcontractor for major item of the Works	<Minimum Criteria to meet> The operational experience shall be supported by end-user certificates from at least three (3) utilities/clients with comprehensive contact details.	For most suppliers, it is very hard to have a close relationship directly with the end-user, since the majority of the items are procured by the EPC- Contractor and also installed and	Bidders can submit at least three (3) end- user certificates from EPC



No	Volume	Part/ Page	Section/ Clause No.	Reference	Clarification	Reply from KETRACO
		(without prequalification)		<Submission Requirement> End-user certificates/ letters from the utilities/clients	constructed by them at site. Therefore, please kindly consider that (1) Certificate from "the EPC Contractor as a client" can be also accepted. (2) If not, changing the condition from "at least three (3) utilities/clients" to "at least two(2) utilities/clients."	Contractor and/or from utilities/clients. This shall supersede responses in Tender addendum and clarification No.1 item no.9 and Tender addendum and clarification No.6 item no.11.
13	Volume I of VII- PART 1	Section III. Evaluation and Qualification Criteria (without prequalification)	1.1.3 Subcontractor for major item of the Works	<Minimum Criteria to meet> Higher rating being in successful operation for at least five (5) years <Submission Requirement> End-user certificates/ letters from the utilities/clients	Most suppliers have end user-certificates less than 5 years old, And 5 years is a "long time" for manufacturers to still be in close contact and reach out again to the utilities for an end user certificate. Therefore, please kindly consider	Not Acceptable. The criteria provided in Volume I of VII-PART 1, Section III. Evaluation and Qualification Criteria (without

No	Volume	Part/ Page	Section/ Clause No.	Reference	Clarification	Reply from KETRACO
					(1) the waive for the period of "at least five (5) years. (2) If not, change the period from "at least five (5) years" to "at least one (1) year".	prequalification), EQC-1 sub clause 1.1.3 shall prevail.
14	Volume I of VII- PART 1	Section III. Evaluation and Qualification Criteria (without prequalification n)	1.1.3 Subcontractor for major item of the Works	<Description Item> 220/33kV, 75MVA, Transformer Online monitoring system, water firefighting system, OLTC <Submission Requirement> "Type test certificates issued by independent institution and less than 5 years old."	As an industry practice, the manufacturer does not repeat type tests every 5 years. They only repeat the type test if there is a change in the design which then needs revalidation. Therefore, for this project about the transformer, please kindly consider the followings as a relaxation of the condition. "type test certificate or test report of similar or larger transformer signed by third party inspector" as a submission document.	Refer to item no. 11 above.
15	Volume I of VII- PART 1	Section III. Evaluation and Qualification Criteria (without n)	1.1.3 Subcontractor for major item of the Works	Submission Requirement "Type test certificates issued by independent institution and less than 5 years old." "End-user certificates/ letters from the utilities/clients"	Due to pending clarifications which the Bidder made on February 1st, 2024 which already took for more than 2 months and half, and delays in receiving responses from KETRACO regarding the type test report and end user certificate requirements, we kindly request an	Refer to Tender Addendum and Clarification No. 10.

No	Volume	Part/ Page	Section/ Clause No.	Reference	Clarification	Reply from KETRACO			
		prequalification n)			extension of the tender closing date from 7th May 2024 by and additional 4 weeks. This extension would provide us with the necessary time to finalize and prepare a Comprehensive & Competitive offer.				
16	05-Section VI-2B-01-Specifications-Circuit Breakers-20230704		1.1.5.2. Circuit Breaker Operating Mechanisms Mechanism Housings VI-2B-01 - 9 (PDF Pg. 10/22) & 1.3. TECHNICAL DATASHEETS FOR CIRCUIT BREAKERS 1.46 Nominal heater voltage VI-2B-01-21 (PDF Pg. 22/22)	<p>VI-2B-01 - 9</p> <p><u>Mechanism Housings</u></p> <p>Permanently installed cubicle heaters shall be provided.</p> <p>The heaters shall be thermostatically controlled for continuous operation at 415V AC volts, 50 Hz to prevent condensation. It shall be possible to adjust thermostat settings over range of the local ambient conditions.</p> <p>VI-2B-01-21</p> <table border="1" data-bbox="837 1176 901 1265"> <tr> <td>1.46 Nominal heater voltage</td> <td>V</td> <td>415 AC</td> </tr> </table>	1.46 Nominal heater voltage	V	415 AC	<p>As per specification auxiliary supply for heater is 415V AC supply. However, vendor recommended 220V AC only. Please confirm.</p>	<p>This is confirmed.</p> <p>Refer to the LVAC single line Diagram (MSEZ-2022-SS-E-003). There shall be a 415V, 4P auxiliary supply to the Switchgear marshalling Kiosk. 240V AC supply for Heating and Lighting of the switchgear shall be picked from the Marshalling Kiosk.</p>
1.46 Nominal heater voltage	V	415 AC							

No	Volume	Part/ Page	Section/ Clause No.	Reference	Clarification	Reply from KETRACO
17	4-MSEZ-2022-SS-E-002-220-33kV Single Line Diagram Volume I - PART 1_20231227		IV-C2-4 (PDF Pg.133/497)		It is mentioned as Disconnector switch with Earthing in SLD, but symbol and Price Schedule represent as Disconnector Switch without Earthing. We understand that it is Disconnector Switch without Earthing. Please confirm.	Disconnector Switch without Earth switch shall be provided. To be quoted as per the price schedule.
18	07-Section-VI-3B-04-Specifications-SF6 Ring Main Unit-20230704		4.1 Scope VI-3B-04-1 (PDF Pg.2/12)	<p>The ring main unit shall be extensible type (both sides) and shall have two cable feeder load break switch (SF6) and one transformer feeder with vacuum circuit breaker (basic formation).</p>	Kindly confirm the no. of future panel extension in RMU to consider the Room Size. Also we understand that there is no future requirement in RMU. Please clarify/confirm.	Future panel is not required but RMU shall be provided with provision for extension on both sides.
19	05-Section VI-2B-01-Specifications-Circuit Breakers-20230704		1.1.3. General VI-2B-01-4 (PDF Pg.5/22)	<p>Circuit breakers shall be single-pole (for Line side breakers) or gang operated (for transformer breakers). SF6 gas insulated design, suitable for high-speed single phase or multi-pole auto-reclose operations, and anti-pumping function. The circuit breakers</p>	We understand from the specification it single pole electrically gang operated mechanism for Line & transformer feeder. Please confirm.	Refer to Tender Addendum and Clarification No. 6, item no. 68.
20	02-Section VI-3A -- Scope of Work -		33kVDistribution on Line		We understand that the power demand for 1) Industrial Park Link 25MVA and 2)	Preliminary study report can

No	Volume	Part/ Page	Section/ Clause No.	Reference	Clarification	Reply from KETRACO						
	Distribution Network- 20230704		VI-3A-2 (PDF Pg. 3/6)	<p>The power distribution under the Contract is classified into two, i.e.,</p> <ol style="list-style-type: none"> 1) Industrial Park Link Power demand in the area is 25 MVA. One (1) 33kV Local Substation shall be constructed near the administration building for Industrial Park A, on the utility zone of Park Road. 2) Port, FTZ-D, FTZ-B Link Power demand in the area is a total of 21 MVA. The power is to be supplied each plant with three (3) 33kV Local Substations, of which are constructed near power consumer, but located at the utility zone of Port Access Road. The summary is as follows: -33kV Local Substation (Port) -33kV Local Substation (FTZ-B) -33kV Local Substation (FTZ-D) 	<p>Port, FTZ-D, FTZ-B Link 21MVA referred the preliminary studies. Kindly provide the preliminary system Study report for this tender.</p>	<p>be obtained from JICA's website (document titled "DESIGN MISSION FOR MOMBASA SPECIAL ECONOMIC ZONE DEVELOPMENT PROJECT"). However, the loads given in Section VI. Employer's Requirements 3A-Scope of Work-Distribution Network shall prevail.</p>						
21	Volume I - PART 1_20231227 &		C2-Substations Schedule No.3 IV-C2-8	<table border="1"> <tr> <td data-bbox="304 2240 399 2240">362</td> <td data-bbox="399 2240 558 2240">3-phase 220 kV disconnector with Earth/Switch complete with steel support and accessories</td> <td data-bbox="558 2240 638 2240">No</td> </tr> <tr> <td data-bbox="304 2240 399 2240">363</td> <td data-bbox="399 2240 558 2240">3-phase 220 kV disconnector without Earth/Switch complete with steel support and accessories</td> <td data-bbox="558 2240 638 2240">No</td> </tr> </table>	362	3-phase 220 kV disconnector with Earth/Switch complete with steel support and accessories	No	363	3-phase 220 kV disconnector without Earth/Switch complete with steel support and accessories	No	<p>As per Mariakani SLD No. of Disconnector with earth switch is 6 Nos. and No. of Disconnector without earth switch is 4 Nos. However, in Price schedule No. of Disconnector</p>	<p>Refer to Tender Addendum and Clarification No. 6 item no. 74.</p>
362	3-phase 220 kV disconnector with Earth/Switch complete with steel support and accessories	No										
363	3-phase 220 kV disconnector without Earth/Switch complete with steel support and accessories	No										

No	Volume	Part/ Page	Section/ Clause No.	Reference	Clarification	Reply from KETRACO
	23-MSEZ-2022-SS-E-019--Mariakani 220KV Singe Line Diagram		(PDF Pg.137/497)		with earth switch is 8 Nos. and No. of Disconnector without earth switch is 2 Nos. Kindly clarify the disconnector with/without earth switch requirements.	
22	Addendum TAC-3, Point: 22 Section VI-2A- Clause: 1.1.1- Specifications- 220KV Outdoor switchgear		1.1. 220kV Outdoor switchgear, VI-2A-4 (PDF Pg:5/47)	single phase: Capacitor Voltage Transformer, ratio $220,000/\sqrt{3} : 110/\sqrt{3}$, class 0.2s for metering and class 3P for protection, 100VA, complete with circuit	Client insist to provide 100VA for CVT in TAC-3. But as per vendor information 100VA is not possible to achive for CVT (seems to be very high). Vendor recommended to provide 50VA for 3P class and 30VA for 0.2 class. Since 100VA is too high according present IED & Meter connection, we request to client to accept the vendor recommendation.	Not acceptable. CVT's accuracy/burden shall be 100VA, two class 0.2/3P, two (2) windings.
23	Addendum TAC-3, Point: 12 Section VI-2A- Clause: 1.1.1- Specifications- Energy Meter		1.6.4. Energy Meter, VI-2A-11 (PDF Pg.12/47)	1.6.4 Energy Meter Export/import energy meter class 0.2 shall be provided for 220KV Mariakani Lin Main Transformer LV side	Client insist to provide Energy Meters in 220kV Lines(Main&Check), 33kV side (Incomers&OG) and LVAC (3nos) panels. Since Energy meters are located in three different panels/location(different vendor), whether similarity (same make & type) to be follow for all meters ?	The energy meters should be preferable same manufacturer and type for all circuits even if they are installed in different panels.

No	Volume	Part/ Page	Section/ Clause No.	Reference	Clarification	Reply from KETRACO
24	30-Section VI-2B-26-Specifications-Breaker Switch Capacitor Banks-20230704		Clause 26.12 Tests (Type tests) VI-2B-26 – 5 (PDF Pg. 6/14)	<p>26.12 Tests Type tests: Following type tests are required as per IEC 60871:</p> <ul style="list-style-type: none"> Capacitor losses at elevated temperature Thermal stability test AC voltage test between terminals and container, dry test AC voltage test between terminals and container, wet test Impulse voltage test between terminals and container for capacitors intended for exposed installation Discharge test Ionisation test 	<p>We understand that ionisation test is the disconnecting test on internal fuse. Please confirm our understanding is correct or clarify about the test.</p>	<p>Type tests to be carried out based on IEC60871-1, clause 6.2.</p>
25	30-Section VI-2B-26-Specifications-Breaker Switch Capacitor Banks-20230704		Clause 26.12 Tests (Routine tests on every capacitor bank) VI-2B-26 – 5 (PDF Pg. 6/14)	<p><u>Routine tests on every capacitor bank</u> Following routine tests must be carried out on every capacitor on completion in accordance with IEC 60871 and test certificates to be submitted:</p> <ul style="list-style-type: none"> Capacitance Capacitor losses DC or AC voltage test between terminals <p>VI-2B-26 - 5</p> <p>Section VI Employee Requirements 26 Specifications Testplans 26.12 Routine Tests Capacitor Bank</p> <ul style="list-style-type: none"> AC voltage test between terminals and container, dry test Test between terminal and earth for capacitor banks 	<p>We understand that test between terminal and earth for capacitor banks is AC voltage test between terminals and container as described in IEC 60871-1. Please confirm our understanding is correct or clarify about the test.</p>	<p>Confirmed. Type tests to be carried out based on IEC60871-1</p>
26	30-Section VI-2B-26-Specifications-Breaker Switch Capacitor Banks-20230704		Clause 26.12 Tests (Routine tests on every capacitor bank) VI-2B-26 – 5	<p><u>Routine tests on every capacitor bank</u> Following routine tests must be carried out on every capacitor on completion in accordance with IEC 60871 and test certificates to be submitted:</p> <ul style="list-style-type: none"> Capacitance Capacitor losses DC or AC voltage test between terminals 	<p>We understand that test the Capacitor losses test is test of measurement of the tangent of the loss angle (tan δ) of the capacitor as described in IEC 60871-1. Please confirm our understanding is correct or clarify about the test.</p>	<p>Confirmed. Capacitor losses shall be calculated based on tan δ measured. Type tests to be carried out</p>

TAC 11

No	Volume	Part/ Page	Section/ Clause No.	Reference	Clarification	Reply from KETRACO
			(PDF Pg. 6/14)			based on IEC60871-1
27	30-Section VI-2B- 26-Specifications- Breaker Switch Capacitor Banks- 20230704		Clause 26.9 Tolerances VI-2B-26 – 4 (PDF Pg. 5/14)	26.9 Tolerances The capacitance must not differ from rated capacitance by more than 7.5 % for units, 5% for banks, and must not differ more than 3% between any two phases.	Tolerance: For capacitor units: -7.5% to +7.5% For Bank : 0% to +10% (according to IEC 60871-1 clause 7.2). Please confirm.	Refer to IEC60871-1 clause 7.2: For capacitor unit: -5% to +15% For Bank: 0% to +10%

No	Volume	Part/ Page	Section/ Clause No.	Reference	Clarification	Reply from KETRACO
28	Section VI. Employer's Requirement 2B-Specification- Substations Scope & Preliminary General Requirements for Substations, Rev No 3 Section 4.28.1 Design Review Meeting		Page 63, Page 64 & VI-2B-i- 59	The Contractor shall arrange for a design review meeting at the Contractor's home country's design office for a minimum period of ten (10) working days to be attended by a minimum of ten (10) the Employer's staff (KETRACO and KPLC staff) and four (4) Engineer's staff.	One of the Proposed specialised sub-contractors is assigned for design & Engineering for this project. Bidder would like to arrange the design review meeting at specialised sub-contractor's office which is in Chennai, India. We kindly request you to accept the above request. Please confirm.	This is acceptable. Also Refer to Tender Addendum and Clarification No. 5 item no. 27
29	C0-General Items Transmission Line		Item No.142 & 143	As per Revised Price schedule , the number of towers has been increased as 151 nos instead of 147 nos. Likewise, as per C1 - Transmission Line Price Schedules (Schedule No 1.1: General Items (under Transmission Line)) it has been mentioned that the subsoil investigation tower spot as 147 nos.	In this regard, kindly confirm the actual Sub Soil investigation (Item No.142 & 143) test spot whether its 147 no's or 151 nos.	To be quoted as per the price schedule. Quantities for Transmission Line part are preliminary and will be re-measured upon completion of final design by the Contractor.

No	Volume	Part/ Page	Section/ Clause No.	Reference	Clarification	Reply from KETRACO
30	Transmission Line Price Schedules Schedule of Daywork Rates: 1. Labour Schedule of Daywork Rates: 2. Materials Schedule of Daywork Rates: 3. Contractor's Equipment		A-TL Day work Rates	As per Revised Price schedule , the Description of Day work rates for i) Labour, ii) Materials, iii) Contractor Equipment was not provided.	Kindly provide the Description of Day work.	Refer to the FIDIC General Conditions of Contract, clause 13.6.
31	Section VI-1B : Transmission Line Specifications / 01 - GENERAL/Section VI. Employer's Requirements/1.3 8.3 Software's.		VI-1B-01-40	As per the Transmission Line specification , it has been mentioned that the Software training of PLS-CADD, PLS-Tower and PLS-Pole by Power Line Systems shall be carried out for five (5) personnels of Employer's engineers. Likewise, as per C1 - Transmission Line Price Schedules (Schedule No. 5: Training) it has been mentioned that the Software training for ten (10) personnel of Employer.	kindly confirm the actual personnels of Employer's engineers will going to participating the training Whether its five (5) or Ten (10)	Refer to Tender Addendum and Clarification No.2.

No	Volume	Part/ Page	Section/ Clause No.	Reference	Clarification	Reply from KETRACO																																	
32	C1 - Transmission Line Price Schedules/ Schedule No. 4: Construction, Installation and Testing (On-Site)		Item No.401 to 406	<p>As per Revised Price schedule, the number of towers has been increased as 151nos instead of 147nos.</p> <p>Likewise, the quantity of tower erection and quantity of foundation have differed as per C1 - Transmission Line Price Schedules (Schedule No. 4: Construction, Installation and Testing (On-Site)).</p>	<table border="1" data-bbox="379 479 922 922"> <thead> <tr> <th data-bbox="387 860 571 922">Sl. No</th> <th data-bbox="387 748 571 860">Type of Tower</th> <th data-bbox="387 613 571 748">No. of Tower</th> <th data-bbox="387 479 571 613">Remarks</th> </tr> </thead> <tbody> <tr> <td data-bbox="579 860 643 922">1.</td> <td data-bbox="579 748 643 860">220S</td> <td data-bbox="579 613 643 748">11 6</td> <td data-bbox="579 479 643 613">11 6</td> </tr> <tr> <td data-bbox="651 860 715 922">2.</td> <td data-bbox="651 748 715 860">220T10</td> <td data-bbox="651 613 715 748">11 11</td> <td data-bbox="651 479 715 613">11 11</td> </tr> <tr> <td data-bbox="722 860 786 922">3.</td> <td data-bbox="722 748 786 860">220T30</td> <td data-bbox="722 613 786 748">11 11</td> <td data-bbox="722 479 786 613">11 11</td> </tr> <tr> <td data-bbox="794 860 858 922">4.</td> <td data-bbox="794 748 858 860">220T60</td> <td data-bbox="794 613 858 748">7 8</td> <td data-bbox="794 479 858 613">+1(Excess)</td> </tr> <tr> <td data-bbox="866 860 930 922">5.</td> <td data-bbox="866 748 930 860">220T90</td> <td data-bbox="866 613 930 748">4 8</td> <td data-bbox="866 479 930 613">+4(Excess)</td> </tr> <tr> <td data-bbox="938 860 1002 922">6.</td> <td data-bbox="938 748 1002 860">220Ttrm</td> <td data-bbox="938 613 1002 748">2 8</td> <td data-bbox="938 479 1002 613">+6(Excess)</td> </tr> <tr> <td data-bbox="1010 860 1074 922">Total</td> <td data-bbox="1010 748 1074 860"></td> <td data-bbox="1010 613 1074 748">15 1</td> <td data-bbox="1010 479 1074 613">16 2</td> <td data-bbox="1010 241 1074 479">+11(Excesses)</td> </tr> </tbody> </table> <p data-bbox="922 501 986 922">kindly confirm the actual Foundation Quantity.</p>	Sl. No	Type of Tower	No. of Tower	Remarks	1.	220S	11 6	11 6	2.	220T10	11 11	11 11	3.	220T30	11 11	11 11	4.	220T60	7 8	+1(Excess)	5.	220T90	4 8	+4(Excess)	6.	220Ttrm	2 8	+6(Excess)	Total		15 1	16 2	+11(Excesses)	<p>Quantities for Transmission Line part are preliminary and will be re-measured upon completion of final design by the Contractor.</p> <p>Bidder should quote as per the quantities given in the revised price schedule.</p>
Sl. No	Type of Tower	No. of Tower	Remarks																																				
1.	220S	11 6	11 6																																				
2.	220T10	11 11	11 11																																				
3.	220T30	11 11	11 11																																				
4.	220T60	7 8	+1(Excess)																																				
5.	220T90	4 8	+4(Excess)																																				
6.	220Ttrm	2 8	+6(Excess)																																				
Total		15 1	16 2	+11(Excesses)																																			

No	Volume	Part/ Page	Section/ Clause No.	Reference	Clarification	Reply from KETRACO
33	Section – VI -1A 3.6 Participation in FAT (Factory Acceptance Test)		VI-1-3	As per the TENDER ADDENDUM CLARIFICATION NO.2(tac 2- Pg no.27 of 42) of Participation in FAT it has been mentioned that the factory acceptance tests of the critical/major items by two (2) representatives/staff of the Employer and one (1) representative/staff of the Engineer. The contractor shall bear the costs of return air tickets, hotel accommodation, daily allowance, and all other costs of the Employer's representatives. Likewise, as per C1 - Transmission Line Price Schedules (Schedule No 1.1: General Items (under Transmission Line)) it has been mentioned that the 2 representatives of Employer to witness the test.	kindly confirm the actual personnel's of Employer's representatives will going to participating the FAT Whether its two (2) or three (3).	Three (3) participants will participate in FAT. (1) representative/staff of the Engineer will participate at their own expense. Bidder to quote for two (2) representatives as mentioned in the Price Schedule No.1.1.
34	Volume I, 1.1.3, Sub-contractor for major item of the works		EQC-1	Minimum Criteria to meet. Item 1 to 11 20 years of manufacturing experience of similar equipment or higher rating Similar Equipment or higher rating being in successful operation for at least five (5) years.	We consider it sufficient that the proposed manufacturer meets any one of the above minimum criteria rather than all of the above. Please Confirm whether our understanding is correct.	Proposed manufacturer must meet both: 1) 20 years of manufacturing experience of similar equipment or higher rating.



No	Volume	Part/ Page	Section/ Clause No.	Reference	Clarification	Reply from KETRACO
35	Volume I, 1.1.3, Sub-contractor for major item of the works		EQC-1	Submission Requirement-Type test certificate issued by an independent institution and less than 5 years old. Item 11-Oil purifier Unit 4,000l/h, Item 14-CCTV system Item 15-Diesel Generator	Since the above equipment is assembled with various internal components, the manufacturer doesn't have a type test report for the final product. Hence, we request you to waive the type test report requirement for the above equipment.	2) Similar Equipment or higher rating being in successful operation for at least five (5) years. The bidder must meet the following minimum criteria for Item 11,14 & 15 in Volume I, 1.1.3, Sub- contractor for major item of the works • Supply record • Outline drawing, • Quality Assurance manual, • ISO 9001 certificate or equivalent

TAC 11

No	Volume	Part/ Page	Section/ Clause No.	Reference	Clarification	Reply from KETRACO
36	<p>TAC 3</p> <p>1. Addendum No. 3</p> <p>The following amendments have been made to the bid documents.</p> <p>SECTION VI-2A – 1.12.1 Access Road (NOT APPLICABLE)</p>		Page 02 of 29	Understood from TAC 3 – 1.12.1 – The access Road is Not applicable.	Kindly confirm the access Road from Main Road up to Substation Entry GATE not bidders' scope?	<p>•end-user certificates /letters from the utilities/clients/E PC contractors</p> <p>Access Road from Main Road up to Substation Entry GATE is bidder's scope. It is described as the Temporary approach road in sub-clause 1.12.3 of Tender Addendum and Clarification No.3 and item no. 462 of Schedule No. 4 of C2_SUBSTATION PRICE SCHEDULES.</p>

No	Volume	Part/ Page	Section/ Clause No.	Reference	Clarification	Reply from KETRACO
37	Substation price schedule – C2- Schedule No.4 – Item no: 462 – Required Temporary Approach Road (1.5km)		Item no: 462		The Specification not provided for Temporary access Road, hence requesting you to provide Specification.	Refer to item no. 36 above and Tender Addendum and Clarification No.3 sub-clause 1.12.3- Temporary approach road and structures.
38	Section II. Bid Data Sheet				Registration with NCA (National Construction Authority) class 1 in Kenya.	The response provided herein shall supersede the response given in Tender Addendum and Clarification No. 5 item no. 1. In compliance with the National Construction Authority Act No. 41 of 2011, foreign contractors shall seek registration with the National Construction



No	Volume	Part/ Page	Section/ Clause No.	Reference	Clarification	Reply from KETRACO
39	Volume I of VII- PART 1	Section III. Evaluation and Qualification Criteria (without prequalification n)	1.1.3 Subcontractor for major item of the Works	Description of item	For most of items, it is very hard to fulfill all the conditions of "Minimum Criteria to meet" and "Submission Requirement". For Description of item (15 item), the Bidder would like to request for reducing the number of options for an item and limit it to higher priority items. Especially, the Bidder would like to propose to eliminate the item no. 10-15 from the major items since these are auxiliary equipment's.	Not acceptable. 1) Refer to item no. 35 above for minimum criteria of item 11, 14 and 15. 2) For item 10, 12 and 13, Bidder must meet the minimum criteria as stated in Section III. Evaluation and Qualification



No	Volume	Part/ Page	Section/ Clause No.	Reference	Clarification	Reply from KETRACO
40	Volume I of VII- PART 1	Section III. Evaluation and Qualification Criteria (without prequalification n)	1.1.3 Subcontractor for major item of the Works	Submission Requirement "O&M Manual for 33kV GIS and 245kV circuit breakers"	As for "O&M Manual for 33kV GIS and 245kV circuit breakers", just in case, please kindly confirm whether O&M Manual is applicable for 33kV GIS and 245kV circuit breakers only and not applicable for other items.	Criteria (without prequalification) clause 1.1.3 Subcontractor for major item of the Works Confirmed. Bidder to submit O&M Manual for 33kV GIS and 245kV circuit breakers.
41	Volume I of VII- PART 1	Section III. Evaluation and Qualification Criteria (without prequalification n)	1.1.3 Subcontractor for major item of the Works	Submission Requirement "Type test certificates issued by independent institution and less than 5 years old." "End-user certificates/ letters from the utilities/clients"	Due to pending clarifications which the Bidder made on February 1 st , 2024 which already took for more than 2 months and half, and delays in receiving responses from KETRACO regarding the type test report and end user certificate requirements, we kindly request an extension of the tender closing date from 7 th May 2024 by an additional 4 weeks repeatedly. This extension would provide us with the necessary time to finalize and prepare a Comprehensive & Competitive offer.	Refer to Tender Addendum and Clarification No. 10.



No	Volume	Part/ Page	Section/ Clause No.	Reference	Clarification	Reply from KETRACO
42	Volume I of VII- PART 1	Section IV: Bidding Forms	Form CON: Historical Contract Non- Performance and Litigation	1. History of Non-Performing Contracts In accordance with the Prequalification criteria or Section III, Evaluation and Qualification Criteria, Sub-Factor 2.2.1, as appropriate, since 1st January [The Employer shall insert year.]	According to the Prequalification criteria or Section III, Evaluation and Qualification Criteria, Sub-Factor 2.2.1 History of Non-Performing Contracts, "non-performance of a contract(i) did not occur as a result of contractor's default since 1st January 2018" is requirement. Can we understand the bidder shall answer the history of non-performing contract since 1st January 2018 in the form?	1st January 2018 to be inserted.
43	Volume I of VII- PART 1	Section IV: Bidding Forms	Form CON: Historical Contract Non- Performance and Litigation	3. Litigation History In accordance with the Prequalification criteria or Section III, Evaluation and Qualification Criteria, Sub-Factor 2.2.3, as appropriate, since 1st January [The Employer shall insert year.]	According to the Prequalification criteria or Section III, Evaluation and Qualification Criteria, Sub-Factor 2.2.3 Litigation History, "No consistent history of court orders(iii) against the Bidder since 1st January 2018" is requirement. Can we understand the bidder shall answer the litigation history since 1st January 2018 in the form?	1st January 2018 to be inserted.

