

TAC6

Our Ref: KETRACO/PT/045/2023

23rd April 2024

Notice to all Bidders.

TENDER ADDENDUM AND CLARIFICATION No. 6 (TAC 6)

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. 6, consisting of twenty-eight (28) 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 Bids document remain the same.



PETER NJEHIA
SENIOR MANAGER, SUPPLY CHAIN

for

Tender Addendum and Clarification No. 6 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:



TAC6

A. ADDENDUM NO. 6.

The following amendments have been made to the bid documents.

I. Drawings

The drawing referenced below has been modified as attached to this Tender Addendum and Clarification No. 6.

- i. MSEZ-2022-DL/E-001_SLD 33kV Distribution System.

II. Employer's Specifications

The following section has been modified as attached to this Tender Addendum and Clarification No. 6.

- i. Sub-clause 3.1 of Section VI-2B-i-Specifications-Scope and Preliminary General Requirements




B. CLARIFICATION NO.6

No.	Volume/Part / Page	Section / Clause No.	Reference	Clarification	Reply from KETRACO																																																								
1	Section VI. Employer's Requirements VI-1B-06-	1B-Specification-Transmission Line -06-Foundation Design	Table 6.2 Schedule of Foundation Design Particulars	<p>Table 6.2 Schedule of Foundation Design Particulars</p> <table border="1"> <thead> <tr> <th>Symbol of Foundation Type</th> <th>Foundation Type</th> <th>Soil Description</th> <th>Allowable bearing capacity (kN/m²)</th> <th>Grade of Exposure (mm)</th> <th>Water level</th> <th>Concrete Strength (kg/cm²)</th> <th>Soil Density (kg/m³)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Pad & Chimey</td> <td>S1</td> <td>300C</td> <td>45</td> <td></td> <td>2210</td> <td>2000</td> </tr> <tr> <td>2</td> <td>Concrete Pad & Chimey</td> <td>S2</td> <td>60</td> <td>10</td> <td>Below Datum</td> <td>1520</td> <td>1900</td> </tr> <tr> <td>3</td> <td>Concrete Pad & Chimey</td> <td>S3</td> <td>200</td> <td>30</td> <td>Below Datum</td> <td>2240</td> <td>1800</td> </tr> <tr> <td>3A</td> <td>Concrete Pad & Chimey</td> <td>S3A</td> <td>200</td> <td>25</td> <td>Below Datum</td> <td>2240</td> <td>1600</td> </tr> <tr> <td>4</td> <td>Concrete Pad & Chimey</td> <td>S4</td> <td>110</td> <td>10</td> <td>Below Datum</td> <td>1300</td> <td>1300</td> </tr> <tr> <td>4A</td> <td>Concrete Pad & Chimey</td> <td>S4A</td> <td>100</td> <td>10</td> <td>Below Datum</td> <td>1300</td> <td>1300</td> </tr> </tbody> </table> <p>kindly clarify that the soil density in red box is 1500 kg/m3 or not, the value 11500 kg/m3 is much more than normal soil weight.</p>	Symbol of Foundation Type	Foundation Type	Soil Description	Allowable bearing capacity (kN/m ²)	Grade of Exposure (mm)	Water level	Concrete Strength (kg/cm ²)	Soil Density (kg/m ³)	1	Pad & Chimey	S1	300C	45		2210	2000	2	Concrete Pad & Chimey	S2	60	10	Below Datum	1520	1900	3	Concrete Pad & Chimey	S3	200	30	Below Datum	2240	1800	3A	Concrete Pad & Chimey	S3A	200	25	Below Datum	2240	1600	4	Concrete Pad & Chimey	S4	110	10	Below Datum	1300	1300	4A	Concrete Pad & Chimey	S4A	100	10	Below Datum	1300	1300	<p>Referenced Soil Density is 1,500 kg/m³.</p>
Symbol of Foundation Type	Foundation Type	Soil Description	Allowable bearing capacity (kN/m ²)	Grade of Exposure (mm)	Water level	Concrete Strength (kg/cm ²)	Soil Density (kg/m ³)																																																						
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2	Section IV. Schedules IV-C1-8	C1:Transmission Line Schedule No.3	Schedule No. 3: Supply of Plant (Off-Site)	<p>310-6 Counterweights 40kg * 5 nos for each tower set</p> <p>1. According to the Technical Data Sheet (TDS), only 5 sets of counterweights per tower are to be provided. Note : Length of Suspension Insulator Sets and Jumper Suspension Insulator shall include the provision of the length of counter-weight of 200kg.</p> <p>2. While in the reference drawing of towers, it is mentioned that 200kg counterweights are to be taken into account for each suspension and jumper insulator string. As we know, the usage (or not) of counterweights may have huge impact on the design. Taking these into account, please clarify and confirm the exact number of counterweight per tower or per string.</p>	<p>Bidder to quote as per the schedule. These are preliminary quantities; actual quantities will be determined during detailed design stage.</p>																																																								

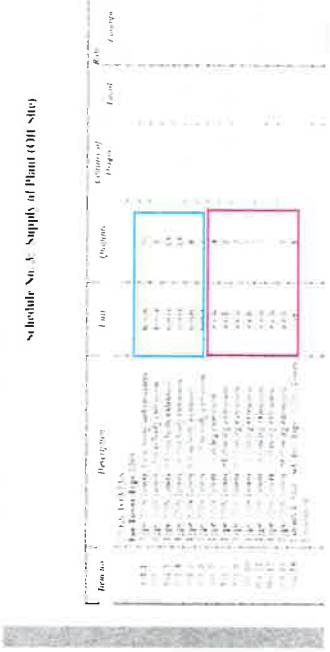
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No.	Volume/Part / Page	Section / Clause No.	Reference	Clarification	Reply from KETRACO																								
3	Section IV. Price Schedules/ BF-258	30. TECHNICAL SCHEDULE FOR STEEL TOWER DESIGN	TOWER DESIGN PARTICULARS	<table border="1"> <tr> <td>1.1</td> <td>Maximum Working Tension</td> <td></td> </tr> <tr> <td>1.1.1</td> <td>Maximum working tension per conductor, for purposes of tower design</td> <td></td> </tr> <tr> <td></td> <td>a. Normal Span</td> <td>N</td> </tr> <tr> <td></td> <td>b. Downleads (Slack Span)</td> <td>N 5.0</td> </tr> <tr> <td>1.1.1</td> <td>Maximum working tension per earth conductor, ACS Earhwire, for purpose of tower design</td> <td></td> </tr> <tr> <td></td> <td>a. Normal Span</td> <td>N</td> </tr> <tr> <td></td> <td>b. Downleads (Slack Span)</td> <td>N 4.0</td> </tr> <tr> <td>1.1.2</td> <td>Maximum working tension per earth OPGW for</td> <td></td> </tr> </table> <p>According to the tower design particulars, the maximum tension of the conductor and earth wires in the slack span are respectively 5N and 4N which in our opinion are too small as values. Please provide a clarification regarding these values, if the unit should be kN?</p>	1.1	Maximum Working Tension		1.1.1	Maximum working tension per conductor, for purposes of tower design			a. Normal Span	N		b. Downleads (Slack Span)	N 5.0	1.1.1	Maximum working tension per earth conductor, ACS Earhwire, for purpose of tower design			a. Normal Span	N		b. Downleads (Slack Span)	N 4.0	1.1.2	Maximum working tension per earth OPGW for		Confirmed, maximum working tension (slack span) applied is 5kN for conductor and 4kN for the ACS earth wire.
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4	Section VI. Employer's Requirements / VI-1B-04-1 VI-1B-04-8	Table 4.1 Insulator Sets 4.3. Technical Schedule	Insulator Sets Complete	<p>Table 4.1 Insulator Sets</p> <table border="1"> <thead> <tr> <th>Description</th> <th>Electro-mechanical Failing Load (kN)</th> <th>Nos. of Strings</th> </tr> </thead> <tbody> <tr> <td>Single Suspension Insulator Sets</td> <td>70</td> <td>1</td> </tr> <tr> <td>Double Suspension Insulator Sets</td> <td>70</td> <td>2</td> </tr> <tr> <td>Double Tension Insulator Sets</td> <td>210</td> <td>2</td> </tr> <tr> <td>Light Duty Insulator Sets</td> <td>70</td> <td>1</td> </tr> <tr> <td>Jumper Suspension Insulator Sets</td> <td>70</td> <td>1</td> </tr> </tbody> </table> <p>Regarding the suspension insulator sets, the minimum failing load is considered as equal to 1x70kN (single string) and 2x70kN (double string).</p>	Description	Electro-mechanical Failing Load (kN)	Nos. of Strings	Single Suspension Insulator Sets	70	1	Double Suspension Insulator Sets	70	2	Double Tension Insulator Sets	210	2	Light Duty Insulator Sets	70	1	Jumper Suspension Insulator Sets	70	1	1 x 210kN (single string) and 2 x 210kN (double string) applicable to both suspension and tension insulator sets. 1 x 70kN for Jumper insulator set.						
Description	Electro-mechanical Failing Load (kN)	Nos. of Strings																											
Single Suspension Insulator Sets	70	1																											
Double Suspension Insulator Sets	70	2																											
Double Tension Insulator Sets	210	2																											
Light Duty Insulator Sets	70	1																											
Jumper Suspension Insulator Sets	70	1																											

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No.	Volume/Part / Page	Section / Clause No.	Reference	Clarification	Reply from KETRACO															
				<table border="1"> <tr> <td data-bbox="327 952 343 974">2</td> <td data-bbox="327 974 391 996">Insulator Sets Complete</td> <td data-bbox="327 996 391 1019"></td> </tr> <tr> <td data-bbox="327 996 343 1019">2.1</td> <td data-bbox="327 1019 391 1041">Suspension Insulator Sets</td> <td data-bbox="327 1041 391 1064"></td> </tr> <tr> <td data-bbox="327 1041 343 1064">2.1.1</td> <td data-bbox="327 1064 391 1086">Number of insulator strings in parallel</td> <td data-bbox="327 1086 391 1108">1 and 2</td> </tr> <tr> <td data-bbox="327 1086 343 1108">2.1.2</td> <td data-bbox="327 1108 391 1131">Minimum failing load, complete set (single string)</td> <td data-bbox="327 1131 391 1153">kN 1x210</td> </tr> <tr> <td data-bbox="327 1153 343 1176"></td> <td data-bbox="327 1176 391 1198">Minimum failing load, complete set (double)</td> <td data-bbox="327 1198 391 1220">kN 2x210</td> </tr> </table> <p data-bbox="327 1220 391 1265">In the same file, at a different location, the minimum failing load of the suspension insulator sets are equal to 1x210kN (single string) and 2x210kN (double string). Please clarify the final minimum failing load of the suspension insulator sets to be considered.</p>	2	Insulator Sets Complete		2.1	Suspension Insulator Sets		2.1.1	Number of insulator strings in parallel	1 and 2	2.1.2	Minimum failing load, complete set (single string)	kN 1x210		Minimum failing load, complete set (double)	kN 2x210	
2	Insulator Sets Complete																			
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2.1.2	Minimum failing load, complete set (single string)	kN 1x210																		
	Minimum failing load, complete set (double)	kN 2x210																		
5	08-Section VI-1B_05_Steel Tower Design-20231124 /	5.9 Tower Design	Weight of the worker on the members.	<p data-bbox="391 952 422 996">Tower members on which a man may stand (defined as being at an angle of less than 15° to the horizontal) shall be capable of withstanding an ultimate point load of 1.5 kN at any point on the member. The arrangement and methods of carrying out the tests stated in the JF-C60652 on standard towers shall be approved.</p> <p data-bbox="391 996 422 1041">45 degree is too large, and the members used to check the weight of workers are horizontal or near-horizontal, with a maximum angle of 30 degree. Please confirm it.</p> <p data-bbox="391 1041 422 1086">Which leg extension is used on the test tower is not specified. Please confirm it.</p> 	To be 45 degrees as per KETRACO's standard.															
6	Volume I - PART 1_20231227/IV-C0-2	Schedule No1.1: General items (under Transmission Line)	The leg extension of the test tower		Refer to the updated price schedule in Tender Addendum and Clarification 2.															

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No.	Volume/Part / Page	Section / Clause No.	Reference	Clarification	Reply from KETRACO
7	Volume I - PART 1_20231227 / IV-C1-4	Schedule No. 3: Supply of Plant (Off-Site)	The number of the tower and tower leg	 <p>The number of tower leg doesn't match with the body number of tower, this count is wrong. Please confirm it, how to fill in the price schedule?</p> <p>There is inconsistency for tree growing. Please clarify which is correct requirement?</p>	<p>Bidder to quote as per the schedule. These are preliminary Quantities; actual quantities will be determined during the detailed design stage.</p>
8	Volume II of VII-PART 2 / ENVIRONMENTAL GUIDELINE	Transmission Line Specifications 15- ENVIRONMENTAL GUIDELINE	General-Tree Growing Initiative Vs. Specifications- Environmental Guideline- Transmission Line-- Tree Quantities, Species and Reforestation Season	<p>"1. General-Tree Growing Initiative: The contractor shall undertake a tree planting exercise at location(s) to be identified in consultation with KETRACO, the community and relevant authorities. The contractor shall plant trees worth KES 5,000,000 or at least 30,000 trees whichever is lower."</p> <p>"2. Specifications- Environmental Guideline-Transmission Line-Tree Quantities, Species and Reforestation Season The Contractor shall plant at least 11,908 tree seedlings with provision for an additional 10% contingency of this amount for replanting in the event of failure at a minimum. The tree species to be established shall be selected considering the characteristics of the planting site(s), and tree</p>	<p>The contractor shall plant trees worth KES 5,000,000 or at least 30,000 trees whichever is lower.</p>

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No.	Volume/Part / Page	Section / Clause No.	Reference	Clarification	Reply from KETRACO
9	Volume II of VII-PART 2 /VI-1B-01-33	1.36 Office Accommodation for Use of the Employer and Engineer	Site Office	<p>species existing in the Project footprint. The tree seedlings shall be planted, as far as possible, during the most preferable season to ensure optimal survival rate."</p> <p>Please clarify if the site office is included in the Substations or the Transmission Line part; i.e., how many site offices should the bidder consider, or should the bidder quote respectively and separately?</p> <p>"The site office provided by the Contractor shall be fully furnished using a good standard of office furniture to be approved by the Employer's Representative/the Engineer (Engineer) and fully equipped with:</p> <ul style="list-style-type: none"> • Eight (8) writing desks • Eight (8) swivel arm chairs • One (1) common printer (with photocopying and scanning capabilities) for both A3 and A4. <p>The minimum specifications of the printer/scanner and photocopier as approved by the Engineer.</p> <ul style="list-style-type: none"> • One (1) desktop computer. • Four (4) filing cabinets • Two (2) Laptops • Four (4) guest chairs" 	<p>Two site offices shall be provided by the contractor; One for Transmission line and the other for Substation. Refer to;</p> <p>1). Section VI-1B: Transmission Line 01- GENERAL Sub-clause 1.36</p> <p>2). Section VI-2B - Substations: Scope and Preliminary general Requirements for Substations Sub-clause 4.2.8</p>
10	Volume III of VII-PART 2 /Section VI-2B: Specifications - Substations VI-2B-05 - 23	06 - Power Transformer	Power Transformer 6.21.10 Condition Monitoring	<p>Please clarify what does "N/A" means? Does the bidder still need to quote or not?</p> <p>"(N/A) For all transformers rated 90 MVA and above, the manufacturer shall include in his offer a modern Transformer Monitoring System with the following minimum features:</p> <ul style="list-style-type: none"> • Hydrogen and Carbon Monoxide DGA detection. • A remote temperature device for measurement of top-oil 	<p>N/A means "Not applicable" under this Contract.</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)	1.1.3 Subcontractor for major item of the Works	Minimum Criteria to meet	<p>temperature.</p> <ul style="list-style-type: none"> Load current measurement via a current transformer Bushing Tan Delta and Capacitance monitoring Partial discharge monitoring for transformer main tank." <p>Please clarify that a certificate issued by an EPC contractor is not qualified.</p> <p>"The operational experience shall be supported by end-user certificates from at least three (3) utilities/clients with comprehensive contact details."</p>	EPC Contractor does not qualify as a utility/client. Also refer to Tender Addendum and Clarification No.1, item no.9.
12	Volume I of VII-PART 1 /Section III. Evaluation and Qualification Criteria (without prequalification)	1.1.3 Subcontractor for major item of the Works	Submission Requirement	<p>Please clarify as this is contradictory to "being in successful operation for at least five (5) years. " And this requirement is too strict for selecting the proper suppliers. Many good suppliers, even tier-1 manufacturer have type tests done many years ago for a matured equipment, and normally will not redo every 5 years.</p> <p>"type test certificates issued by independent institution and less than 5 years old, "</p>	<p>The equipment of the proposed supplier/manufacturer should have been in successful operation in the period specified in Volume I, Section III; Evaluation and Qualification Criteria 1.1.3.</p> <p>Type test certificates issued by an Independent Institution should be less than 5 years old.</p>
13	Volume I of VII-PART 1 /Section III. Evaluation and Qualification Criteria	1.1.3 Subcontractor for major item of the Works	no.8: LL ACSR conductor and OPGW Submission Requirement: Type test certificates issued by independent institution and less than 5 years old.	<p>Please clarify that required type test certificates shall be those of the exact same design LL ACSR for this project or not.</p> <p>As LL ACSR conductor for this project is new design suitable to the technical requirements, there is no type test Certificates. Type test certificates for other LL ACSR conductors are available, but date of those certificates is over five years. We would like you to kindly accept for such certificate.</p>	<p>Type test certificates of similar conductors are acceptable but must be less than five years old.</p>

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No.	Volume/Part / Page	Section / Clause No.	Reference	Clarification	Reply from KETRACO
14	Volume I of VII-PART 1 /Section III. Evaluation and Qualification Criteria	1.2.1 Other Evaluation Criteria (ITB 35.1(d))	<p>b) Performance Guarantees of the Works Required Performance Guarantees :</p> <p>DC resistance at 20°C(Ω/km) Requirement :Norm:0.0504</p> <p>Minimum Acceptable level : N/A</p> <p>Maximum Acceptable level :0.05544</p>		
15	Volume I of VII-PART 1 /Section IV. Bidding Forms / Technical Proposal	Schedule of Guarantees	<p>1.Functional Guarantees</p> <p>1.2 Low Loss conductor ACSR 550 mm²</p> <ul style="list-style-type: none"> • DC resistance 20°C • Drag Factor • Nominal diameter • Tensile strength of core material 	<p>Please clarify that resistance of conductor (dc) at 20°C shall be 0.0503 ohm/km or 0.0504 ohm/km.</p>	<p>The applicable Maximum resistance of conductor (dc) at 20°C shall be 0.0504 ohm/km.</p>
16	Volume I of VII-PART 1 /Section IV. Bidding Forms / Technical Proposal	Guaranteed Technical Particulars	<p>12 Technical Schedule overhead Line Conductors</p> <p>3.2.7 Overall diameter of stranded conductor : 29.5 mm</p> <p>3.2.9 Resistance of conductor (dc) at 20°C : 0.0503 ohm/km</p> <p>3.2.13 Tensile strength of core material (Al-clad steel) : 1770 MPa</p>		

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17	Volume I of VII-PART 1 /Section VI. Employer's Requirements	Overhead Line Conductors	<p>7 Technical Schedule 3.2.7 Overall diameter of stranded conductor : 29.5 mm</p> <p>3.2.9 Resistance of conductor (dc) at 20°C : 0.0503 ohm/km</p> <p>3.2.13 Tensile strength of core material (Al-clad steel) : 1770 MPa</p>		
18	Volume I of VII-PART 1 / Section III. Evaluation and Qualification Criteria	1.2.1 Other Evaluation Criteria (ITB 35.1(d))	<p>b) Performance Guarantees of the Works Drag Factor: Requirement : Norm : 0.9 Minimum Acceptable level : N/A Maximum Acceptable level : 0.99</p>	<p>To satisfy the Technical Schedule stipulated in the Bid documents, it is required concentric lay stranded formed aluminum wires.</p> <p>And it is also required smooth surface complying for the overall diameter requirement.</p> <p>On the other hands, it is well known that rough surface shall be required to reduce drag factor less than 1.0.</p> <p>So it is impossible to satisfy the Technical Schedule and required drag factor simultaneously.</p> <p>Please clarify that which has the priority, the Technical Schedule or the drag factor requirement.</p>	<p>Bidder to indicate the offered values in the Technical Data Sheets.</p>
19	Volume I of VII-PART 1 / Section IV. Bidding Forms / Technical Proposal	Schedule of Guarantees	<p>.Functional Guarantees 1.2 Low Loss conductor ACSR 550 mm²</p> <ul style="list-style-type: none"> • DC resistance 20°C • Drag Factor • Nominal diameter • Tensile strength of core material 		
20	Volume I of VII-PART 1 /Section IV . Bidding Forms / Technical Proposal	Guaranteed Technical Particulars	<p>12 Technical Schedule overhead Line Conductors 3.2.7 Overall diameter of stranded conductor : 29.5 mm</p>		

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21	Volume I of VII-PART 1 /Section VI. Employer's Requirements	Overhead Line Conductors 3.2.7 Overall diameter of stranded conductor : 29.5 mm 3.2.9 Resistance of conductor (dc) at 20°C : 0.0503 ohm/km 3.2.13 Tensile strength of core material (Al-clad steel) : 1770 MPa	3.2.9 Resistance of conductor (dc) at 20°C : 0.0503 ohm/km 3.2.13 Tensile strength of core material (Al-clad steel) : 1770 MPa .7 Technical Schedule 3.2.7 Overall diameter of stranded conductor : 29.5 mm 3.2.9 Resistance of conductor (dc) at 20°C : 0.0503 ohm/km 3.2.13 Tensile strength of core material (Al-clad steel) : 1770 MPa		
22	Volume I of VII-PART 1 /Section II. BID Data Sheet /Clarification no.1 (Addendum no.1)	A. General (ITB2.3)		<In the ITB 2.3 in the Bid Data Sheet.> "The other sources of finance are Not Applicable." in the Bid data sheet. <In the Clarification no.1 (item no.4)> However the costs not covered or not eligible under the Loan Agreement and the costs that exceed the allocation of the loan will be borne by the Government of Kenya. Those 2 items are discrepancy. Please clarify what is the correct information.	Tender Addendum and clarification No.1, item no. 4 takes precedence.
23	Volume I of VII-PART 1 /Section II. BID Data Sheet	ITB 14.9	(c) KETRACO has duty of collecting withholding tax from contractors on behalf of Kenya Revenue	Please clarify whether KETRACO has duty of collecting withholding tax from Japanese companies operating as suppliers, contractors and/or consultants for the implementation of the Project	This shall be confirmed at contract negotiation.

No.	Volume/Part / Page	Section / Clause No.	Reference	Clarification	Reply from KETRACO
24	Volume I of VII-PART 1 /Section II. BID Data Sheet	ITB 14.9	Authority under the Kenyan Income Tax Act. (c) KETRACO has duty of collecting withholding tax from contractors on behalf of Kenya Revenue Authority under the Kenyan Income Tax Act.	Similarly to the above, kindly confirm that the same exemptions (no withholding tax on Japanese Company) would be applicable to the Contractor's Subcontractors and Suppliers of Japanese nationality so that the Contractor shall not deduct and/or withhold any taxes/levies.(Corporate Tax, or similar tax on Subcontractors and Suppliers of Japanese nationality). Please confirm whether the personal income tax of expatriates other than Japanese nationals are exempted.	This shall be confirmed at contract negotiation.
25	Volume VII of VII PART 3 /Section VIII. Particular Conditions (PC)	1.16 (A) The Contractor's Liabilities as to the payment taxes and duties	Personal income tax on Japanese employees engaged in the implementation of the Project for their personal income derived from Japanese companies operating as suppliers, contractors and/or consultants for the implementation of the Project ----- No Pay		Same comment of item 23 is applicable hereto.
26	Volume I of VII-PART 1 /Section II. BID Data Sheet	ITB 14.9	(b) The following tax exemptions will be applicable in the "No Pay" category	Please clarify this whether the following are also applicable under both "No Pay" and "Pay & Reimburse" (1) Excise duty (2) Port Service Charge (3) Port Charge (4) Merchant Shipping Levy (5) VAT and Levies (Fuel and Lubricants) (6) Custom Security Bond (7) Work Permits and Entry Permits (8) Standard Levy (9) Industrial Training Levy	Refer to Volume I, Part 1, Bid Data Sheet; ITB14.9.

No.	Volume/Part / Page	Section / Clause No.	Reference	Clarification	Reply from KETRACO
27	Volume I of VII-PART 1 /Section II. BID Data Sheet	ITB 14.9	In accordance with Sub-Clause 14.1 of the Conditions of Contract, Contractor's Equipment, including essential spare parts therefor, imported by the Contractor for the sole purpose of executing the Contract shall be exempted from the payment of import duties and taxes upon importation.	Please confirm our understanding that this condition would also be applicable during Defects Liability Period.	Confirmed, provided any importation is for the sole purpose of executing the contract.
28	Volume I of VII-PART 1 /Section II. BID Data Sheet	ITB 14.9	In accordance with Sub-Clause 14.1 of the Conditions of Contract, Contractor's Equipment, including essential spare parts therefor, imported by the Contractor for the sole purpose of executing the Contract shall be exempted from the payment of import duties and taxes upon importation.	Please confirm that the Contractor shall not be liable to payment of any taxes, duties and fees exempted under the relevant conditions of the Bidding Documents during the execution of the Project including the Defect Liability Period even if there is any "Changes in legislations"*. *Changes in legislations shall include those determined and regulated by the County Governments as well as Central Government.	Refer to Tender Addendum and Clarification no.5, item no.2.
29	Volume I of VII-PART 1 /Section VIII. Particular Conditions (PC)	1.16 (A) The Contractor's Liabilities as to the payment taxes and duties	c) As per the Exchange of Note signed between the government of Kenya and Japan, the government of Kenya is responsible for	Please clarify that (1) "Japanese Companies" includes "Japanese Contractor", Japanese subcontractors and Japanese suppliers. (2) "Japanese Employee" includes employees of the above "Japanese Companies"	(1) Refer to Section VIII - Annex to Part B: Specific Provisions - Eligible Source Countries of Japanese ODA Loans.

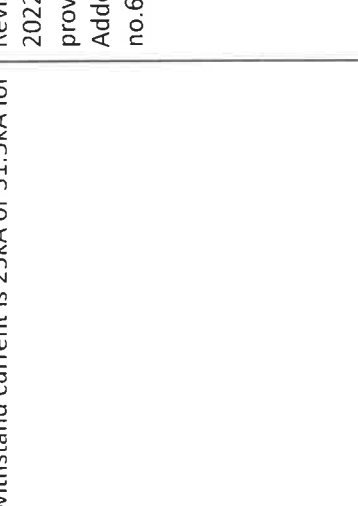
No.	Volume/Part / Page	Section / Clause No.	Reference	Clarification	Reply from KETRACO
30	Volume VII of VII PART 3 /Section VIII.Particular Conditions (Part A: Contract Data) PC-1	1.16 (A) The Contractor's Liabilities as to the payment taxes and duties	<p>exempting Japanese companies and Japanese employees in the Japanese ODA projects from taxes, including direct taxes as follows:</p> <p>The Value Added Tax (VAT) for implementation of official aid funded project which has to be approved by the Cabinet Secretary for The National Treasury will be exempted.</p>	<p>Please clarify that regarding the conditions under which VAT exemption applies,</p> <p>(1) Does it apply when the payment is made from Prime Contractor to Sub-Contractor (Japanese and or non-Japanese)?</p> <p>(2) Does it apply when the payment is made from Sub-Contractor to Sub sub-Contractor (Japanese and or non-Japanese)?</p>	<p>(2) Japanese Employees shall mean employees of Japanese Nationality.</p> <p>Refer to Tender Addendum and Clarification No.3 Item no. 43.</p>
31	Volume VII of VII PART 3 / Section VIII. Particular Conditions (Part A: Contract Data) PC-1	1.16 (A) The Contractor's Liabilities as to the payment taxes and duties	<p>The Value Added Tax (VAT) for implementation of official aid funded project which has to be approved by the Cabinet Secretary for The National Treasury will be exempted.</p>	<p>Please clarify that</p> <p>(1)when the Bidder intends to locally procure products or materials for this project in Kenya, would these be exempted from Value Added Tax and any other taxes related to the purchase of them?</p> <p>(2)If the above is correct, this exemption can be applicable for all parties involved in undertaking the project not limited to the Japanese Contractor, Japanese Subcontractor, other Japanese Company, Local Subcontractor, Local Sub-contractor, Local Supplier (Material, Machinery and Equipment), Foreign Subcontractor, Foreign Sub-subcontractor and etc.</p>	<p>Refer to Bid Data Sheet, ITB 14.9.</p>
32	Volume VII of VII PART 3 /Section VIII.Particular Conditions	1.16 (A) The Contractor's Liabilities as to the	<p>The Value Added Tax (VAT) for implementation of official aid funded project which has to be</p>	<p>Please clarify whether VAT imposed in Kenya to be paid by the Contractor to all of subcontractors, suppliers, service providers and expenses in connection with implementation of the Project and indicated in approved Master List shall be</p>	<p>Refer to Tender Addendum and Clarification No. 3 Item no. 43.</p>

No.	Volume/Part / Page	Section / Clause No.	Reference	Clarification	Reply from KETRACO
33	Volume VII of VII PART 3 / Section VIII.Particular Conditions (Part A: Contract Data) PC-1	1.16 (A) The Contractor's Liabilities as to the payment taxes and duties	approved by the Cabinet Secretary for The National Treasury will be exempted. Customs duties (percent depends on items to be imported) are exempted in accordance with the East African Community Customs Management Act.	exempted and they shall not be required to pay output VAT to KRA. The Bidder assumes that it would take some time for the master list to be approved due to the statutory process such as congressional approval. In the event of payment any duties, taxes, and levies by the Contractor for any import or procurement/ subcontract in Kenya prior to obtain approved Master List, we understand that the Contractor shall be entitled to refund for such taxes in accordance with Sub-Clause 1.16(A) of Part A: Contract Data (CD). Please clarify.	The provisions of the Conditions of Contract shall prevail.
34	Clarification no.1 (Addendum no.1)	no.7	EIA has been conducted and a valid EIA license was issued by NEMA.	(1) Please share the valid EIA license (2) Please clarify its expiry. Please clarify the Employer's scope of each item (permits or license) relating to [1.13 Compliance with Laws].	NEMA EIA license was shared with Tender Addendum and Clarification No. 1. The Employer's scope with regards to permits and licenses shall be as indicated in Sub-Clause 1.13 of the FIDIC General Conditions of Contract. The bidder is advised to undertake due diligence. The bidder is advised to undertake its own due diligence.
35	Volume VII of VII PART 3 /Section VIII.Particular Conditions (Part B: Specific Provisions (SP)	Sub-Clause 1.13 Compliance with Laws		Please clarify the Contractor's scope of each item (permits or license) relating to [1.13 Compliance with Laws].	
36	Volume VII of VII PART 3 /Section VIII.Particular Conditions	Sub-Clause 1.13 Compliance with Laws		Please clarify the Contractor's scope of each item (permits or license) relating to [1.13 Compliance with Laws].	

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No.	Volume/Part / Page	Section / Clause No.	Reference	Clarification	Reply from KETRACO
37	<p>(Part B: Specific Provisions (SP) Volume VII of VIII PART 3/Section VIII.Particular Conditions (Part B: Specific Provisions (SP)</p>	<p>Sub-Clause 8.1 Commencement of Works</p>	<p>c) except if otherwise specified in the Contract Data, effective access to and possession of the Site given to the Contractor together with such permission(s) under (a) of Sub-Clause 1.13 [Compliance with Laws] as required for the commencement of the Works;</p>	<p>What items are minimally to be satisfied with the condition of 1.13 [Compliance with Laws] in doing Commencement Works?</p>	<p>NEMA EIA license.</p>
38	<p>Volume I of VII-PART 1/Section II. Bid Data Sheet</p>	<p>19. Bid Security</p>	<p>19.1 The Bidder shall furnish as part of its Technical Bid, a Bid Security in the amount and currency "The amount and currency of the Bid Security shall be Kenya Shilling Seventy million (Ksh70, 000,000) issued by a bank licensed and categorised as a 'large bank' by the Central Bank of Kenya."</p>	<p>Please clarify that the Bidder can provide Bid Security in the equivalent amount of seventy million Kenyan Shillings (Ksh 70,000,000) in foreign currency.</p>	<p>The USD equivalent shall be USD 538,000.</p>
39	<p>29-Section VI-2B-25-Specifications-33kV Gas Insulated Switchgear</p>	<p>Rated Short time withstand current is mentioned as 31.5kA.</p>		<p>As per SLD MSEZ-2022-DL/E-001 – SEZ Substation-33kV Distribution System electrical is mentioned as 25kA. Kindly</p>	<p>The short time withstand current for 33kV GIS is 31.5kA and 25kA for RMUs.</p>

13

No.	Volume/Part / Page	Section / Clause No.	Reference	Clarification	Reply from KETRACO
	(Indoor)-20230704/ 25.8 Data Sheet 1.6 VI-2B-25-12 (13/16)			confirm the short time withstand current is 25kA or 31.5kA for 33kV GIS (Indoor).	Revised drawing no. MSEZ-2022-DL/E-001 has been provided with this Tender Addendum and Clarification no.6.
40	02-Section VI-2A-Scope of Work- Substations-20230704 /1.2 VI-2A-6 (7/47)		Two (2) – 33kV, 3,000A, 31.5kA at 1 sec., SF6 Gas insulated single bus bar system with SF6 gas monitoring system	To meet the requirement of 3000A Rating with single Bus Bar GIS (Indoor), at 30 deg. only. Hence kindly confirm the if this temperature is acceptable.	Provisions of the relevant IEC standard shall apply. (IEC 62271-200)
41	29-Section VI-2B-25-Specifications-33kV Gas Insulated Switchgear (Indoor)-20230704 /25.4 Design and Construction 25.4.1 f) VI-2B-25-3		Thermal rating for all current carrying parts shall be a minimum of 3 seconds for the rated symmetrical short circuit current.	As per SLD MSEZ-2022-SS/E-002 – SEZ Substation-Single Line Diagram, it is mentioned as 1 Sec. Kindly clarify the short circuit duration, whether is 1 Sec or 3 Sec for 33kV GIS (Indoor) 33kV Main Busbar 2 3000A 31.5kA/ 1sec	31.5kA at 1 second.
42	07-Section-VI-3B-04-Specifications- SF6 Ring Main Unit-20230704		Rated Short time withstand current is mentioned as 25kA for 3Sec for RMU.	Rated Short-time duration for 33kV GIS SWGR at Dongo	Short circuit current of RMU shall be 25kA at 3 second.

No.	Volume/Part / Page	Section / Clause No.	Reference	Clarification	Reply from KETRACO
	/4.4 Requirements vii. Ratings VI-3B-04-6 (7/12)	The Ring Main Unit (RMU) shall be of the following ratings: Nominal System Voltage 33kV Highest System Voltage Equipment 42kV Frequency 50Hz Impulse voltage withstand level, peak (1.2 50µs dy) 170kV Power frequency withstand voltage, rms (50Hz, 60s, wet) 70kV Ring main switch rated current (temperature rise in IEC) 630A Ring main, main and earth switches rated short time current (3 sec) 25kA Circuit breaker rated short time current (3 sec) 25kA Fused circuit rated current 200A		Kundu is 1 Sec. Hence kindly confirm the short time duration for RMU 1 Sec or 3 Sec.	
43	General			It is a kind request to provide the existing Marakani SS editable soft copy of CAD file for substation layout & Control Building Layout after successful bid.	Editable soft copies are not available but pdf soft copies will be provided to the successful bidder.
44	General			Any standard is available for indoor equipment safety & maintenance clearances or will follow as per applicable international standard. Please confirm.	As per applicable international standards and KETRACO's specification Requirements.
45	Volume I - PART 1_20231227/Schedule No.6 Mandatory Spare Parts No. 603 & 604 IV-C2-22 (151/49)		33kV GIS Outgoing Panel (Complete) & 33kV GIS Incoming Panel (Complete)	It is understood that female part cable termination for spare panel is not required. Please confirm.	Confirmed.
46	02-Section VI-2A-Scope of Work- Substations- 20230704/1.7 Digital Disturbance Recorder iv) VI-2A-11		Two (2) laptop computer with software to be provided for local communication and remote analysing station.	Kindly clarify the purpose of laptop requirement in DDR.	Laptop computers' function is required for displaying recorded data, remote monitoring from operation room.

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No.	Volume/Part / Page	Section / Clause No.	Reference	Clarification	Reply from KETRACO
47	02-Section VI-2A Scope of Work Substation 20230704/ 1.5 Storage Batteries, Chargers, DC switchboards and Inverter equipment VI-2A-9 (10/47)		iii) SACS load through inverter for 10 hours	UPS requirement for (10-hour backup) for only SAS equipment or other equipment as well. Please clarify the requirement.	SAS equipment only.
48	General			Conventional Mimic with control switches/alarm unit/metering/measuring and indications for local control panel. Please clarify the requirement.	Conventional type mimic is not necessary for control panel, but similar display is necessary for convenient operation. The contractor will propose for approval during construction stage.
49	25-Section VI-2B-21-Specifications-HVAC System-20230704/21. HVAC SYSTEM 2.1.1. Air Conditioning and Ventilating Services 2.1.1.1 Air conditioning in New Substations VI-2B-21-3 (4/18)		At the substation's control building, the air conditioning units shall be installed in the following rooms: <ul style="list-style-type: none"> • Office and meeting room • Operator room • Control and protection panel room • Telecommunications room • Auxiliary services room 	Requirement AC unit of 33kV GIS Room is not listed in the specification But shown in 11-MSEZ-2022-SS-E-009-Control-Protection Indoor Switchgear Room Arrangement. Hence kindly clarify the requirement of 33kV GIS Room AC unit with temperature range & Relative humidity	<ul style="list-style-type: none"> • Bidders shall refer to MSEZ-SS-E-009-Control - Protection Indoor Switchgear Room Arrangement for Bidding Purpose Only. • AC Unit of 33kV GIS Room is necessary. • Proposing capacity and number of AC Unit is Bidders Responsibility. • This project is executed on Design Build basis.

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No.	Volume/Part / Page	Section / Clause No.	Reference	Clarification	Reply from KETRACO
50	17-Section VI-2B-14- Specifications-Earthing & Lightning Protection System-20230704 /14. EARTHING AND LIGHTNING PROTECTION SYSTEMS EA 14.1. Substation Earthing 14.1.4. Substation Grounding Grid VI-2B-14-4 (5/19);		Buried grid conductor shall be of tinned copper/galvanised steel (shall be confirmed by grounding calculation) with thermo weld type connectors and to be confirmed by grounding calculation.	Kindly clarify the minimum buried conductor/Rod size.	Refer to Section IV -2B -21 sub clause 21.1.2 for Technical requirements (temperature and relative humidity). Designed by the Contractor, based on IEEE80.
51	General			Kindly provide the soil test report.	Bidder shall refer to; • Site Condition of Clause 1. DONGO KUNDU 220/33KV SUBSTATION of CIVIL ENGINEERING • REQUIREMENT of Section VI-2A Scope of Supply of Plant and Installation Services by the Contractor -Substations • The soil investigation report within the Special Economic


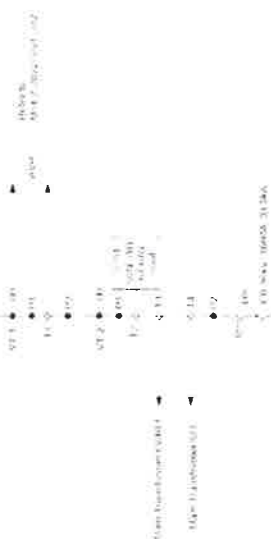
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No.	Volume/Part / Page	Section / Clause No.	Reference	Clarification	Reply from KETRACO
52	07-Section-VI-3B-04-Specifications- SF6 Ring Main Unit- 20230704/4.4. Requirements i. Service conditions VI-3B-04-2 (3/12)		The equipment shall be suitable for continuous operation outdoor in tropical area at altitude of up to 1000m above sea level.	As per 04-Section VI-2B-i-Specifications-Scope and Preliminary General Requirements-20231114, it is mentioned as height above sea level is less than 1000m. Hence RMU is suitable for less than 1000m, not for 1000m. Please clarify.	Zone referenced Section VI-2C-Supplementary Information -Geotechnical Investigation Report •Clause 7.2 of Volume I, Instruction to Bidders. The specifications shall prevail.
53	General			Kindly clarify the shutdown time & Terms & conditions for shutting down of Existing Mariakani SS.	Refer to Tender Addendum and Clarification 6. (Sub-clause 3.1 of Section VI-2B-i-Specifications-Scope and Preliminary General Requirements).
54	General			It is understood that substation is located at coastal region hence kindly clarify the requirement of Corrosion proof paint.	Bidder shall refer to •Sub-clause 1.1.1.135 Paints of 1.1.1.2.14 Painting of Section VI-2B-27-Specifications-Civil & Structural Works AND TECHNICAL SPECIFICATIONS FOR CIVIL & STRUCTURAL WORKS

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No.	Volume/Part / Page	Section / Clause No.	Reference	Clarification	Reply from KETRACO
55	30-Section VI-2B-26-Specifications-Breaker Switch Capacitor Banks-20230704/26.BREAKER SWITCH CAPACITOR BANKS 26.3 General VI-2B-26-2 (3/14)		The compensation shall be switched in steps of 9 MVAR.	It is understood that capacitor is step switching. Hence kindly clarify the requirement of no. of steps	<ul style="list-style-type: none"> The Bidder shall propose the suitable corrosion proof paint for approval by Employer during construction. <p>4 steps of 9MVAR.</p>
56	15-Section VI-2B-11-Specifications-Lighting System-20230704/11. LIGHTING SYSTEMS – NORMAL, EMERGENCY AND EXTERNAL 11.1 Lighting System VI-2B-11-5 (6/11)		This shall include the provision of a UPS system for the operational (high risk task area) lighting system areas. The Contractor shall provide dedicated UPS units that are to be for emergency lighting use only.	Kindly clarify the requirement of UPS for emergency lighting.	The contractor shall design as specified in Section VI-2B-11-Specifications-Lighting System sub-clause 11.1.
57	02-Section VI-2A-Scope of Work- Substations-20230704/ A. Electrical Engineering Requirement 1.Dongo Kundu		Two (2) main income, 1500A rating (secondary of 220/33kV, 75 MVA Transformer)	Incomer rating mentioned in the SLD (31-MSEZ-2022-SS-E-029-Protection Singe Line Diagram for 33kV) is 1600A, But in SOW it is mentioned as 1500A. Hence kindly clarify the incomer rating for 33kV GIS (Indoor).	Incomer rating shall be 1500A as per SLD (31-MSEZ-2022-SS-E-029-Protection Single Line Diagram for 33kV).

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No.	Volume/Part / Page	Section / Clause No.	Reference	Clarification	Reply from KETRACO
	220/33kV Substation (b) VI-2A-3 (4/47)				
58	02-Section VI-2A-Scope of Work- Substations- 20230704/A. Electrical Engineering Requirement 1.Dongo Kundu 220/33kV Substation (b) VI-2A-3 (4/47)		One (1) bus section, 3,000 A rating		Bus section switch rating is 1600A, but the main bus bar rating shall be 3,000A as per SLD (31-MSEZ-2022-SS-E-029-Protection Single Line Diagram for 33kV)
59	General			<p>It is understood that minimum creepage distance for 220kV Equipment is 31mm/kV. Please confirm.</p> <p>It is understood that Power Transformer LV (Secondary) to 33kv GIS (Indoor) Incomer is cable connection. Hence kindly provide the minimum requirement of cable size for the same.</p>	Confirmed.
60	MSEZ-2022-SS/E-002 SEZ Substation-Single				This is an EPC contract. The Contractor shall design it.

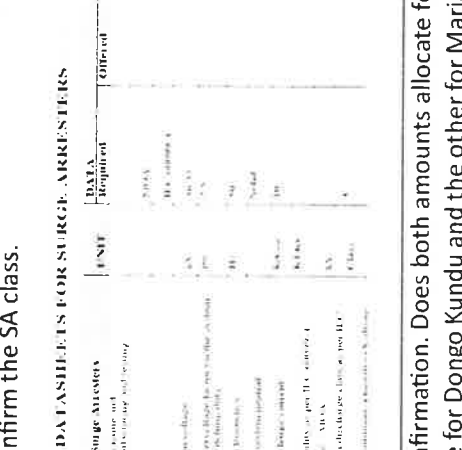
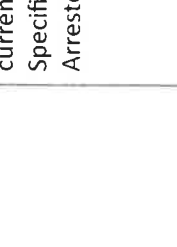
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No.	Volume/Part / Page	Section / Clause No.	Reference	Clarification	Reply from KETRACO
	Line Diagram Electrical				
61	MSEZ-2022-SS/E-002 SEZ Substation-Single Line Diagram Electrical			Cable size b/w 33kv GIS (Indoor) to Capacitor bank is 3C x 240Sq.mm. It is minimum requirement or will propose based on cable size calculation. Please clarify.	This is an EPC contract. The Contractor shall design it.
62	MSEZ-2022-SS/E-002 SEZ Substation-Single Line Diagram Electrical			It is understood that 33kv GIS (Indoor) to Auxiliary transformer is cable connection. Hence kindly provide the minimum requirement of cable size for the same.	This is an EPC contract. The Contractor shall design it.
63	MSEZ-2022-DL/E-001 SEZ Substation-33kV Distribution System Electrical			Our understanding is all outgoing from F1 to F10 cable termination for 33kV GIS (Indoor) shall be suitable for 3C x 300Sq,mm. Please confirm.	This is an EPC contract. The Contractor shall design it.
64	MSEZ-2022-SS/E-020 Mariakani Substation Extension-220kV Switch gear Arrangement (Plan & Section)			It seems that can locate the extension bay area hence kindly provide the existing mariakani plot coordinates and Existing overall equipment layout. Also provide the existing available drawings.	The drawings will be handed over to successful bidder only.
65	MSEZ-2022-SS/E-021 Mariakani Substation Extension-Control/Protection Panel Arrangement			It is understood that there is provision such as cable opening, Panel fixing, cable tray etc. in control & protection Room, Communication Room. Please confirm. Also confirm below control & protection Room is basement or not.	Control & protection Room, and Communication Room in Mariakani Substation have a false floor, cable trays and cable entry points. The

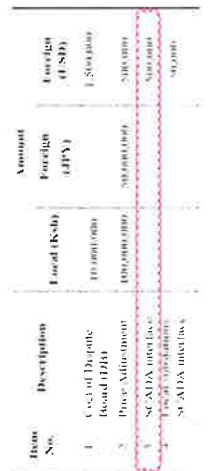
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No.	Volume/Part / Page	Section / Clause No.	Reference	Clarification	Reply from KETRACO
66	07-Section VI-2B-03- Specifications- Disconnectors & Earthing Switches- 20230704/3.11.2. 220kV Disconnecter & Earth Switches S/n. 2 VI-2B-03-17 (18/20)		Type of Disconnecter is mentioned as Horizontal center break/Double break.	Kindly confirm the type of disconnecter to be used.	Contractor shall provide the necessary materials for execution of their scope. Either horizontal center break or double break can be supplied provided they meet the specifications.
67	07-Section VI-2B-03- Specifications- Disconnectors & Earthing Switches- 20230704/3.11.2. 220kV Disconnecter & Earth Switches S/n. 22 VI-2B-03-17 (18/20)		Type of operating mechanism for: -	It is understood that both disconnecter & Earth as motor as well as manual operation. Please confirm.	Confirmed.
68	05-Section VI-2B-01- Specifications-Circuit Breakers- 20230704/1.1.3 General VI-2B-01-4 (5/22)		Circuit breakers shall be single-pole (for Line side breakers), or gang operated (for transformer breakers),	It is mentioned as transformer breaker is gang operator. Kindly clarify it is mandatory to provide gang operator for transformer breaker, if yes, our understanding is S20, S30, S60 & S70 is transformer breaker as per SLD (MSEZ-2022-SS/E-002). Please confirm.	All circuit breakers shall be single phase type with 3 phase control cabinet.

<p>No.</p>	<p>Volume/Part / Page</p>	<p>Section / Clause No.</p>	<p>Reference</p>	<p>Clarification</p>	<p>Reply from KETRACO</p>																																										
<p>69</p>	<p>O2-Section VI-2A-Scope of Wcrk- Substations- 20230704/1.1.2 220kV first Diameter (Dia-1)VI- 2A-5(6/47) & 1.1.3 220kV Second Diameter (Dia-2)VI-2A-6(7/47)</p>		<p>Three (3) 198 kV, 10 kA, class 2, Single Phase Surge Arrester with surge counter and leakage current meters. Vide. Specification- "Surge Arresters"</p>	<p>As per 09-Section VI-2B-05-Specifications-Surge Arresters-20230704 Technical Date Sheet it is mentioned as Class 3. Hence kindly confirm the SA class.</p>  <p>TECHNICAL DATA SHEET FOR SURGE ARRESTERS</p> <table border="1"> <thead> <tr> <th>UNIT</th> <th>DATA Required</th> </tr> </thead> <tbody> <tr> <td>1.1</td> <td>200kV</td> </tr> <tr> <td>1.2</td> <td>10kA</td> </tr> <tr> <td>1.3</td> <td>Class 3</td> </tr> <tr> <td>1.4</td> <td>Surge Counter</td> </tr> <tr> <td>1.5</td> <td>Leakage Current Meter</td> </tr> <tr> <td>1.6</td> <td>Surge Arrester</td> </tr> <tr> <td>1.7</td> <td>Surge Counter</td> </tr> <tr> <td>1.8</td> <td>Leakage Current Meter</td> </tr> <tr> <td>1.9</td> <td>Surge Arrester</td> </tr> <tr> <td>1.10</td> <td>Surge Counter</td> </tr> <tr> <td>1.11</td> <td>Leakage Current Meter</td> </tr> <tr> <td>1.12</td> <td>Surge Arrester</td> </tr> <tr> <td>1.13</td> <td>Surge Counter</td> </tr> <tr> <td>1.14</td> <td>Leakage Current Meter</td> </tr> <tr> <td>1.15</td> <td>Surge Arrester</td> </tr> <tr> <td>1.16</td> <td>Surge Counter</td> </tr> <tr> <td>1.17</td> <td>Leakage Current Meter</td> </tr> <tr> <td>1.18</td> <td>Surge Arrester</td> </tr> <tr> <td>1.19</td> <td>Surge Counter</td> </tr> <tr> <td>1.20</td> <td>Leakage Current Meter</td> </tr> </tbody> </table>	UNIT	DATA Required	1.1	200kV	1.2	10kA	1.3	Class 3	1.4	Surge Counter	1.5	Leakage Current Meter	1.6	Surge Arrester	1.7	Surge Counter	1.8	Leakage Current Meter	1.9	Surge Arrester	1.10	Surge Counter	1.11	Leakage Current Meter	1.12	Surge Arrester	1.13	Surge Counter	1.14	Leakage Current Meter	1.15	Surge Arrester	1.16	Surge Counter	1.17	Leakage Current Meter	1.18	Surge Arrester	1.19	Surge Counter	1.20	Leakage Current Meter	<p>IEC 60099 class 3 to be supplied.</p>
UNIT	DATA Required																																														
1.1	200kV																																														
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<p>70</p>	<p>Procurement of 220KV MARIAKANI-DONGO KUNDU TRANSMISSION LINE AND ASSOCIATED SUBSTATIONS Volume I of VII/IV-C2-34</p>	<p>Section IV. Price Schedules: C2-Substations Provisional Sums Schedule of Specified Provisional Sums Item No. 1 SCADA Interfaces, Foreign (USD) USD500,000 Item No. 3 SCADA Interfaces, Foreign (USD) 500,000</p> 	<p>This is just a confirmation. Does both amounts allocate for two substations, one for Dongo Kundu and the other for Mariakani?</p>	<p>Refer to the updated price schedules in Tender Addendum and Clarification no.2.</p>																																											
<p>71</p>	<p>Procurement of 220KV MARIAKANI-</p>	<p>ITB 14.10 The Amount and Currencies of the Specified</p>	<p>In page IV-C2-34, next two items were requested. "Section IV. Price Schedules: C2-Substations Provisional Sums</p>	<p>Refer to the updated price schedules in Tender</p>																																											

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No.	Volume/Part / Page	Section / Clause No.	Reference	Clarification	Reply from KETRACO
	<p>DONGO KUNDU TRANSMISSION /Section II. Bid Data Sheet BDS-5 LINE AND ASSOCIATED SUBSTATIONS Volume I of VII</p>	<p>Provisional Sums shall be as follows. Item No. 3 SCADA interface Foreign (USD) 500,000</p>		<p>Schedule of Specified Provisional Sums Item No. 1 SCADA Interfaces, Foreign (USD) USD500,000 Item No. 3 SCADA Interfaces, Foreign (USD) 500,000” Kindly confirm if the requirement in the list of page IV-2-34 is correct.</p>	<p>Addendum and Clarification no.2.</p>
72	<p>02-Section VI-2A-Scope of Work- Substations- 20230704/1.1.2 220kV first Diameter (Dia-1) VI-2A-4 (5/47)</p>		<p>Eight (8) - 2,000A - 40kV - 24kV BIL 1,050kV, single phase type, three-phase set for bus bar Disconnecting Earthing Switch with hand and motor operation mechanism, based on Specification - "Disconnectors & Earthing Switches"</p>	<p>It is understood from SLD/SOW & Price schedule (As per price schedule Pg 133/497 - Volume I - PART 1_20231227 Schedule No. 3: Supply of Plant (Off-Site)) that DS/ES is three phases. Please confirm. This inquire is applicable for Extension Mariakani SS</p>	<p>Confirmed.</p>
73	<p>02-Section VI-2A-Scope of Work- Substations- 20230704/1.1.2 220kV first Diameter (Dia-1) VI-2A-4 (5/47)</p>		<p>Twenty (20) - 24kV - 40kV Single phase Current Transformers with cores as follows.</p>	<p>12 Nos. of CT only required as per MSEZ-2022-SS/E-002 (SEZ Substation-Single Line Diagram Electrical) and Volume I - PART 1_20231227 Schedule No. 3: Supply of Plant (Off-Site). Kindly clarify the quantity.</p>	<p>12 Nos. of CT per diameter is correct, however to be quoted as per the quantity in the C2 Price schedule, Schedule No.3.</p>

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74	Volume I - PART 1_20231227/C2-Substations Schedule No.3 IV-C2-8 137/497	<table border="1" data-bbox="363 1344 579 1796"> <thead> <tr> <th data-bbox="363 1758 454 1796">30</th> <th data-bbox="363 1467 454 1758">3-phase 20 kV disconnector with Earth Switch complete with steel support and accessories</th> <th data-bbox="363 1344 454 1467">No</th> <th data-bbox="363 1288 454 1344">8</th> </tr> </thead> <tbody> <tr> <td data-bbox="454 1758 579 1796">36</td> <td data-bbox="454 1467 579 1758">3-phase 20 kV disconnector without Earth Switch complete with steel support and accessories</td> <td data-bbox="454 1344 579 1467">No</td> <td data-bbox="454 1288 579 1344">2</td> </tr> </tbody> </table>	30	3-phase 20 kV disconnector with Earth Switch complete with steel support and accessories	No	8	36	3-phase 20 kV disconnector without Earth Switch complete with steel support and accessories	No	2	As per SLD MSEZ-2022-SS/E-019 (Mariakani Substation Extension-Single Line Diagram Electrical) 4 Nos. of Disconnector with earth switch & 4 Nos. of Disconnector without earth switch. Kindly clarify the requirement of Disconnector with/without earth switch for Mariakani S/S.	To be quoted as per the quantities in the price schedule. 8 DS with ES and 2 DS without ES.
30	3-phase 20 kV disconnector with Earth Switch complete with steel support and accessories	No	8									
36	3-phase 20 kV disconnector without Earth Switch complete with steel support and accessories	No	2									
75	PART 1: Section V: Eligible Source Countries of Japanese ODA Loans	The eligible bidder		Kindly confirm if the Indian Companies can participate and if there are any conditions for the participation of Indian companies in this tender.	Refer to Tender Addendum and Clarification No.1 item no.1 and Part 1, Section V Section V "Eligible source countries of ODA Loan", Paragraph 5(b) which provides the prerequisite conditions that any JV to this bid MUST satisfy beyond the 'nationality' of partners.							