



RURAL ELECTRIFICATION AND RENEWABLE ENERGY CORPORATION

POWER DISTRIBUTION AND REGIONAL COORDINATION DIRECTORATE

BID CLARIFICATION 003

5th March 2025

RFX 1000001125	MANDA ISLAND 11kV DOUBLE CIRCUIT POWER LINE OCEAN CROSSING & ASSOCIATED WORKS
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The following queries were raised by prospective bidders and the respective response is detailed hereunder:

S/No.	Queries	Response
1.	We have received the Addendum for the site visit rescheduled for 13 th to 17 th January 2025. Please advise if the Pre-Bid meeting has been rescheduled as it is currently scheduled for 14 th January, 2025	Pre bid meeting is on 6 th February 2025
2.	Kindly confirm the Tender validity period as what is stated on ITT 21.1 is contradictory between words and figures. "One Hundred and Twenty (150) days"	One hundred and fifty (150) days
3.	Please advise whether or not bidders are permitted to quote in foreign currency i.e., USD	Kenya Shillings only
4.	The conductor mentioned is ACFR 175mm ² , please clarify whether this should be ASCR Lynx 175mm ²	The conductor is ACFR 175 sq. mm
5.	The Price Schedule is NOT favourable in terms of presenting an accurate quote whereby if bidders quote and	The bidder is expected to provide the rate based on their design quantities. Since the Contract is EPC, the Bidder is expected to extrapolate the values from their

	carry forward quantities to the Grand Summary the quotes will be misrepresenting. Bidders in some instances should be able to provide unit rates as opposed to complete work rates for different scenarios e.g., Quotes for 6 foundations for each soil class as opposed to a unit rate for each soil class.	design. The quantities accepted at design submission will be expected to be in concurrence with the bid quantities. Variation will not be accepted due to inaccurate design at bidding.
6.	As per SCC i. 14.2.1 Advance is 20% ii. 14.2.5 Repayment Amortization is 10% - kindly confirm this iii. 14.5.3 Plant and Materials FOB basis (b) or Delivered to Site (c) which one is it?	Against an advanced payment guarantee 20% against four completion certificates All subsequent payments shall be based on completion certificates.
7.	Supply of 11kV 3 Phase Cable 1 core x UG – REF: description Page 108 TOR item no. 3 i. Size is not mentioned ii. Supply is not itemized on the price schedule iii. Installation is not itemized on the price schedule	i) The cable is 185 sq mm Single Core 11kV, AL/XLPE/SWA/PVC ii) This has now being itemized in item 6.1.2 in the revised schedules iii) The item is supply and installation as in ii) above
8.	Line-Item Nos. 4.1.2 and 4.1.3 are a duplication kindly revise.	Yes, the repetition has been noted. The bidder shall disregard items 4.1.3 (tension tower) and 4.2.3 (suspension) by (See the revised schedules Attached)
9.	OPGW MOQ is 3km to be paid in full. Required is 1.7km, please clarify the balance will be taken over by REREC as spares.	During the pre-bid meeting this has been reviewed to 4.0km in the price schedules the number of joint boxes to terminate the OPGW has also been revised to 4 No. boxes
10.	Quantities in scope of works is a Total of 6 towers (2 Suspension and 4 Tension) whereas the Price Schedule states 6 tension and 6 suspensions.	Yes, the total towers are 6No. (2 suspension) – Ocean crossing and (4 tension) – adjacent to the suspension towers. The Price Schedule should reflect the following: 2 suspension and 4 tension towers. (See the revised schedules Attached)
11.	Considering the postponement of the site visit, we hereby request for an extension on the submission dates of at least 3 weeks.	New closing date is on 28 th February 2025

12.	To clarify on the electrical clearance of the conductors across the ocean	The successful bidder will be expected to submit designs for approval which shall be based on standard electrical safety standards and in compliance to the Maritime Authority's requirement.
13.	REREC to clarify on the preliminary alignment of the line with the crossing towers	Find attached the approximate schematic line drawing indicating the preliminary route of the proposed line
14.	To share initial co-ordinates of the position of towers	Find attached the approximate schematic line drawing indicating the preliminary route of the proposed line
15.	To clarify on the number of towers	The towers should be 6no. 3no on the Main land side and 3no on the Island
16.	To clarify on the number of six (6) member	The number of six (6) member is two. One on the Main land and one on the Island
17.	To clarify on the ocean crossing circuit span	The crossing span is a double circuit which is approximately 850M
18.	To clarify on the height of the six member	The six member poles should be 18M
19.	To clarify on the specifications of the optical ground wire (OPGW) cable	The OPGW cable should be 48core
20.	Clarification of the type of insulators for the crossing towers	The insulators for the crossing towers should be 132kV
21.	To clarify on the tower structure	The tower structure should be of 132kV
22.	Section 6.1.1 in the schedule	Should be supply and installation
23.	Clarify on the construction of 2 member on the Main land and on the highland	The 2 member before the 6 member on the Main land and 2 member after the 6 member on the Island is to be done by REREC Contractor
24.	To clarify on the electrical clearance of the conductors across the ocean	The successful bidder will be expected to submit designs for approval which shall be based on standard electrical safety standards and in compliance to the Maritime Authority's requirement.
25.	Clarify on time to compile and submit the tender document	Bidders requested for additional time (3 weeks) to finalize on the tender document
26.	Clarification when responding to drawings	Bidders should ensure when responding to drawings the submit survey drawing
27.	ACFR conductor for this small qty is not with conductor manufacturers. Out of scope is response from manufacturers. Share the specifications for conductors. Also, the design parameters are given as Power conductor LYNX – Refer TOR clause 0.2.3 (b). Are we to go with Lynx conductor?	The clause revised to read:- (b) Maximum working Tensions of Conductor and Earthwire - Power conductor ACSR : 68,900N - Overhead OPGW : 85,000 N
28.	What is the conductor used by 11kv contractor who is executing the line presently. From mokowe SS and at manda island line. we understand it is 75sqmm	The MV distribution network in mainland and island is in 75mm ² ACSR. But the Sea crossing is in ACSR

29.	Installation of farm gates- At site was not shown. Kindly clarify what does it mean?	The farm gates shall not be necessary. Disregard this item. (See the revised schedules Attached)
30.	Supply and installation of 18m concrete poles in Price schedule no 3 is 6nos. whereas at site it was said each side 6 member poles on either side – so BOQ to be 12 nos. Clarify.	Yes, during the site visit 12 No. poles were proposed since the line is a double circuit. Revise the member number to 12. (See the revised schedules Attached)
31.	FAT For ACS is required. This is very few mts for each tower earthing. The manufacturer for this is not same with others being very few mts. FAT should be excluded.	Consider FAT in this case excluded, however the bidder shall provide the type test certificates for the same.
32.	No specs given for 11kv cable. But Call FAT for 11kv cable 1.6km x 3 ph is in scope. qty is small- Conductor of this cable is aluminium ? Clarify. FAT for cable scope to be excluded.	11kV cable specs enclosed here. For clarity the cable is 3Nos x 1.6km single core cables totaling to 4.8km. FAT excluded but type tests certificates to be provided.
33.	We found the item in price schedule for 11kv cable so we got clarified for our query on it.	What's the clarification here?
34.	Price schedule Item 4.4 special towers, item HTS and MTS per ton rate to be given. Special tower as per design which we foresee, Complete special tower weight under item 4.4 / per ton will be considered as variation? Clarify.	The special tower price is included in the event the design requires it. The bidder is expected to have a tentative design to guide on pricing if it is required. The price is to be provided if special tower, special extensions and modifications are anticipated and filled (nil) if not required as per the bidders design. There will be No Variation.
35.	Under 10.3 Tower accessories (vii) spare towers- 5 sets ERT to be supplied. There is no item in scope or price schedule for this .Kindly clarify	The items mentioned in 10.3 Tower Accessories have been added to the BOQ (See revised schedules attached)
36.	Clarification on whether we are the ones constructing the cable transition structure as not in place during site visit	Yes cable termination is part of the scope.
37.	Opgw specifications not given.	Specs are here attached.
38.	Clarity on item 6.1 :-Does it include the Conductor supply as labour only is quoted	Should be supply and installation (See the revised schedules Attached)
39.	Clarification on the required structure to support the double circuit. The document states a 3member structure on both sides while we have a double circuit	Yes the line is a double circuit, it is expected the 3 member structure on each side be revised to 6 member structures. For a total of 12 members for both sides. (See revised schedules)
40.	11kV 185 mm ² 1/C, SWG underground Cable – is it Aluminium XLPE or Copper – the Technical specifications were provided for both.	Aluminum XLPE Single core

41.	We request Time extension by 1 month due to the delayed pre-bid site visit and to allow for engagement with overseas manufacturers.	New closing date is on 28 th February 2025
OTHER CLARIFICATIONS ARISING FROM THE PRE-BID MEETING		
42	Will the OPGW be strung as dual or single since the circuit is double circuit?	OPGW shall be dual and shall terminate at the three member concrete pole formations on both ends of the overhead line. The termination boxes have been revised to 4 No. <i>(See revised price schedule)</i>
43	Does the tender include construction of the H-structure for the transition of the underground Cable?	The H-Pole Structure will be done the L & T contractor constructing the line but the bidder will be responsible of terminating the underground cable.
43	Where are the specifications for the OPGW?	Specifications for the OPGW, Line markers and the 185 sq. mm cable are now uploaded
44	Uploaded specifications are for 11kV, 33kV, 66kV while the tower are 132kV steel towers, Clarify?	The line voltage is 11kV, hence use the applicable specifications for 11kV voltage. However as clarified above, the insulators to be used in the steel towers are 132kV insulators.
45	The Price Schedule is NOT favourable in terms of presenting an accurate quote whereby if bidders quote and carry forward quantities to the Grand Summary the quotes will be misrepresenting. Bidders in some instances should be able to provide unit rates as opposed to complete work rates for different scenarios e.g., Quotes for 6 foundations for each soil class as opposed to a unit rate for each soil class.	<p>The bidder is expected to provide the rate based on their design quantities. It was agreed in the pre-bid meeting that the foundation types shall be combined into one item for the bidder to quote based on the specific type in their design. <i>(See revised price schedule)</i></p> <p>The “miscellaneous prices for foundation works Schedule No. 4” have been moved to the “Additional Schedule of Rates” <i>(See revised price schedule)</i></p> <p>The quantities of the following Items in (Schedule No. 5) 3.34 to 3.3.7 have been revised to be for 1 CM to be representative of the additional costing aspect.</p>
46	Schedule No. 2 Reinforced Concrete Cable Trench and 150mm PVC Ducts for Road Crossing; 4.0 Formwork and Reinforcement - 4.2 Formwork for trench base is stated as 0.48 SM, Confirm?	The formwork for the trench base is confirmed as 480 SM
47	Under 10.3 Tower accessories (vii) spare towers- 5 sets ERT to be supplied. There is no item in scope or price schedule for this .Kindly clarify	The ERT (Emergency Restoration Tower) is not part of the scope.
48	Price schedule Item 4.4 special towers, item HTS and MTS per ton rate to be given. Special tower as per design which we foresee, Complete special tower weight under item 4.4 / per ton will be considered as variation? Clarify.	The special tower price is included in the event the design requires it. The Schedule No. 5 Item 4.4 “Prices for Miscellaneous Steel Work, Prices for Special Towers, Special Extensions and Modifications ” has been moved to the “Additional Schedule of Rates” <i>(See revised price schedule)</i>

49	Confirm on which foundation shall be used for the towers since there are 8 options given? It is challenging to bid clearly, Clarify?	The Schedule No. 5 (3 Foundation Works), Items 3.1.1 to 3.1.7 have been combined. <i>(See revised price schedule)</i> Also, Item 3.1 and 3.2 have been combined and adjusted accordingly to avoid duplication <i>(See revised price schedule)</i>
50	Confirm the maximum tower body extension for the towers? Should 12m body extension be considered for this Project?	Based on the projected tower height, it has been proposed that + 6m body extension and + 3m leg extension be the maximum tower extensions allowable. Schedule No. 5 (4 Tower Erection), Item 4.1 and 4.2 <i>(See revised price schedule)</i>
51	Is tower type test to be considered for both the Tension and Suspension Tower? With a scope of 6 No. Towers, this is not economical, clarify?	Schedule No. 5 (4.3 Tower Type Tests), the suspension tower shall not be considered for the ultimate loading type test at the factory. The type test reports and certificates from the manufacturer for previous projects less than 5 years old to be provided. A tower testing methodology should be provided by the successful bidder. The tension tower shall be considered for Ultimate Loading Test at the Factory/Manufacturers location. (The bidder shall include the facilitation cost of 2 Engineers and the Project Manager). <i>(See revised price schedule)</i> The Schedule No. 5 Item 4.3. " Tower Type Test " has been moved to the "Additional Schedule of Rates" <i>(See revised price schedule)</i>
52	Can the miscellaneous steel work be considered as part of additional schedule of rates?	Yes, Schedule No. 5 Item 4.4 "Prices for Miscellaneous Steel Work, Prices for Special Towers, Special Extensions and Modifications" has been moved to the "Additional Schedule of Rates" <i>(See revised price schedule)</i>
53	Due to the status of Lamu as a heritage cultural site? How do we proceed with permits and Wayleaves for the towers?	The bidder is expected to adhere to the Wayleaves corridor provided with Clarification No. 001. REREC shall coordinate all the Wayleaves clearance and relevant permits from the regulatory/government authorities once the designs are provided.
54	Is REREC willing to consider a marine cable for the ocean crossing?	This was the first option but it was not viable due to the constant dredging carried out on this channel (Njia ya Ndovu) due to its shallow depth and constant silting.
55	Clarify on the previous comment regarding Geotechnical Investigations and No Variation Statement?	The bidder is expected to apply expert judgment in the provision of the quantities and rates. The recommendations of the geotechnical soil investigation shall be considered, the bidders bid quantities and geotechnical values are expected to be within 10% variance.
56	Technical specifications for 48 core OPGW cable (Major Material) – Not provided	Uploaded

57	11kV 185 mm ² 1/C, SWG underground Cable – is it Aluminum XLPE or Copper – the Technical specifications were provided for both.	Aluminum
58	We shall also seek for Extension of Tender closing date for another additional 3 weeks – most of our Manufacturers are Chinese and are currently on the New Year's Holiday until 5th February 2025 – therefore its difficult for us to give you a competitive technical response.	Extended to
59	We are in receipt of the revised Price Schedule and would like to seek the following clarification: On Schedule 5. Item 6.1.2 (Supply and installation of 3ph 185sqmm in single core 11kv AL/XLPE/SWA/PVC U/G cable) – this is a repetition of the same item as captured in Schedule 2. Item 10.1 –	This is Noted and bidders can price one
60	On schedule 5. Item 6.2.1 (Supply and installation of 1 overrunning OPGW 48 core cable) – during the pre-bid meeting it was agreed to use 2 overrunning OPGW 48 core cable instead of the earthwire thus the total route Length should 3.4km – kindly clarify	Bidders to adjust the quantity in the Schedule accordingly as agreed during the pre-bid meeting
61	The conductor specs for ACFR given. But manufacturer is only one or two and they are not responding. The equivalent has been proposed by many entities and we understand Kplc has this equivalent conductors ACCC (carbon composed) for this application and in the system. Please respond we can submit for the ACCC conductor equivalent to the specs given. Find attached the data sheet for your reference.	This is O.K as the construction and characteristics of both conductors apart from the cross-section area are the similar. Specifications for ACCC is as provided.
62	21. The Completion period is 18months as in TOR as confirmed in the meeting. But in SCC it reads 365 days. As SCC supersedes in the contract, - kindly confirm the correct completion period	18 months
63	22. FAT for ACS which is earthing wire not applicable as per clarification - But it still appears in the Price schedule. item 6.2.8	As clarified during the prebid meeting, FAT will not be necessary but submit the type test reports with your bid
64	23. The FAT as per scope is for ACFR, Towers, OPGW, concrete poles. But scope still reads for 11kv cable which was also clarified that FAT not applicable. - Kindly confirm FAT for 11kv cable is not applicable	As clarified during the prebid meeting, FAT will not be necessary but submit the type test reports with your bid
65	24. The price sch has item for FAT for Conductor, OPGW, No item for concrete poles.	What is the question?

	- Kindly clarify.																
66	25. FAT for Towers as per scope is the item in Price schedule is Tower load test . Item 4.3.1 . Rate only to be filled. - kindly confirm	The bidder is expected to provide rate only. The bid document specifies the No. of personnel from the Employer to be catered for in the event FAT is scheduled.															
67	26. Item 4 Tower erection in Price schedule: It is not given as supply and erection . - It implies No item for supply of towers	Yes. This is an EPC Contract. Supply, delivery to site and erection are in the Bidders scope.															
68	27. Item 4.2 is given as suspension towers. Which is the lowest tonnage against tension and special tower. Under Misc Special towers per ton rate for steel is to be filled. The clarification said no variation which was discussed. If the suspension tower becomes a special tower the value will be considered on the rate given in item 2.1 and there will be variation in contract value. - kindly confirm	If a tower is neither Suspension nor Tension, it shall be categorized as Special hence the Miscellaneous component is to cater for the changes in tonnage in this event.															
69	28. We did not receive the minutes of the prebid meeting . - info																
70	29. The specification for OPGW issued as said in prebid. It calls for tools listed which is not part of price schedule. - Kindly clarify the tools listed in price schedule prevails only.	Yes, price schedule prevails															
71	30. Item 7 should read as supply and install -- Not clear	Yes, its supply and install															
72	31. Item 7.4 specification or details were requested. - Not yet avaiad	Bidders were advised to omit this item as the cable is being terminated on connection boxes in both ends															
73	32.Kindly clarify the concrete poles 18m (6members) fittings are to be rated as 11kv for ACFR conductor . Clarification no 44 says 132kv line insulator and fittings are for TOWERS ONLY. - Kindly clarify	Correct. The concrete pole fittings are 11kV rated. And 132kV for the steel tower															
75	We write to you asking you to provide correct specs for the 185 mm ² Al, S/C, SWG UG_11kV. The specs provided (attached) do not capture any precise characteristic that this cable should bear.	<p>The specifications are attached and use specific particulars below</p> <table border="1"> <tr> <td>Conductor sectional nominal area</td> <td>mm²</td> <td>185</td> </tr> <tr> <td>Voltage Designation U_o/U (U_m)</td> <td colspan="2">6.35/11 (12) kV</td> </tr> <tr> <td>Conductor shape</td> <td colspan="2">Stranded compact circular</td> </tr> <tr> <td>Thickness of insulation</td> <td>mm</td> <td>3.4</td> </tr> <tr> <td>Thickness of separation sheath</td> <td>mm</td> <td>1.5</td> </tr> </table>	Conductor sectional nominal area	mm ²	185	Voltage Designation U _o /U (U _m)	6.35/11 (12) kV		Conductor shape	Stranded compact circular		Thickness of insulation	mm	3.4	Thickness of separation sheath	mm	1.5
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		Nominal armour wire diameter	mm	2.5
		Thickness of oversheath, minimum	mm	3.6
		Power frequency single phase test voltage, 5 min	kV	21
		Maximum conductor resistance	Ohm/km	0.1289