

The Kenya Power & Lighting Co. PLC.

Central Office — P.O. Box 30099, Nairobi, Kenya
Telephone — 254-02-3201000-Telegrams 'ELECTRIC'- <u>www.kenyapower.co.ke</u>

Stima Plaza, Kolobot Road

Our Ref: KP1/6A.1/PT/2/21/A76

30th November, 2021

Dear Sir/ Madam

CLARIFICATION NO. 2 FOR TENDER NO: KP1/6A.1/PT/2/21/A76 PROCUREMENT OF DESIGN, SUPPLY, INSTALLATION AND COMMISSIONING OF STAND-ALONE SOLAR PHOTOVOLTAIC SYSTEMS WITH BATTERY ENERGY STORAGE FOR COMMUNITY FACILITIES IN TURKANA, WEST POKOT, ISIOLO, MARSABIT, SAMBURU, MANDERA, WAJIR, GARISSA, LAMU, TANA RIVER, KILIFI, KWALE, TAITA TAVETA AND NAROK COUNTIES IN KENYA WITH 7 YEARS O&M SERVICES DATED 23<sup>RD</sup> SEPTEMBER, 2021.

## **CLARIFICATION TO BID DOCUMENT**

The following responses are made to clarifications sought on various issues in the bidding document for procurement of Design, Supply, Installation and Commissioning of stand-alone solar photovoltaic systems with battery energy storage for community facilities in Turkana, West Pokot, Isiolo, Marsabit, Samburu, Mandera, Wajir, Garissa, Lamu, Tana River, Kilifi, Kwale, Taita Taveta and Narok Counties in Kenya with 7 years O&M services.

No.	Bidder Query/ comment	KPLC Response
1.	Design: The solution involves two inverters (pv	The design and expected performance shall be
	inverter, dc/ac inverter, charge controller and the	as per the issued bidding document.
	modules /batteries. The functions of the PV inverter	
	and the charge controller are the same. Kindly advise	
	on the system design and expected performance with these 5 items in BOQS.	
	The PV inverter performs over and above the	
	functions of the charge controller as they already	·
	have inbuilt MPPT charging functions.	
	Ç Ç	
	Do we expect Grid at some point?	Grid interconnection is out of scope of the
		envisaged works.
2.	Advise on the supply of internet facilities on site for	Internet installation is not a mandatory
	site monitoring, remote management and billing	requirement, however a contractor may install
	functions during the 7 years O& M period.	internet for remote monitoring and O&M
		purposes.
3.	Design involves the GIS and topography analysis,	Detailed designs will be required after tender
	please advise if this is needed before or after award	award.
	as the tender requirement submission is for full	
	design and EPC.	

No.	Bidder Query/ comment	KPLC Response
4.	The tender requirement places the success of the solution on the contractor for the performance of the lot designs against unknown loads and predetermined SIZING/BOQ. Kindly advise if the contractor will be allowed to review the designs in ful scope after load determination and profile hours for responsibility taking away from the consultant and avoid penalties of non-performance during the 7 year O & M period.	Design aspects related to load demand are no anticipated since system capacities have already been determined for key equipment. However specific designs to be reviewed with respect to site requirements considering growth that may have taken place over time.
5.	There is a big disparity between the size of the solar plant in kwp and the battery bank in kwhrs against expected load feed. Please share these workings with the contractor with location irradiation values to give confidence of delivery to the contractor.	bidding document.
6.	The tender requests for similar project values since 2016, kindly advise if experience before 2016 is still admissible.	bidding document.
7.	Can we still participate in the tender if we have not attended the Pre-bid meeting held on 12th Oct, 2021 Site visit was mandatory or if we want to participate, we can still visit site for their location and working conditions	but Bidders are advised to visit and examine the site where the Plant is to be installed and its
	If above two points are granted to us, is it possible to extend the date of submission for the tender	Please refer to Addendum No. 2
	In a case of a JV bid, whereby one member party was registered less the 5 years; Is it acceptable for such a member to submit audited financial statement of less than 5 years whereas the other party submits the required 5 years?	The requirement shall be as per the issued bidding document.
	Let's take Lot 1 as a sample, there're 96 systems in total, we found the quantities are wrong for Solar PV Inverter and Charge Controllers, but when we sum up the quantities of these 2 products, the quantity becomes right. Same as other Lots. So we think the Solar PV inverter actually means the Charge Controller? If yes what's the purpose for Kenya Power to write them separately?	The requirement shall be as per the issued bidding document.
0. I	Please confirm all the required batteries are lead acid patteries or Lithium ION?	All are lithium ion.
1. [i	Does Bid for each lot comprise both supply installation and O&M for 7 years in one bid including spare parts or we apply differently after bid closes since the after bid closes the prices may not be the same due procurement process time loss.	Yes, bid is for both Supply and Installation and O&M for 7 years, as per the issued bidding documents.

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12.	Batteries warranty is normally 2 years. Can you	The requirement shall be as per the issued
12.	clarify this can be achieved through 7-year O& M.	bidding document.
13.	According to Table 1: Characteristics in Specification	The requirement shall be as per the issued
13.	for PVC Insulated Single Phase Concentric Aluminium	bidding document. For example, for the 10mm <sup>2</sup>
	Cables (Low Voltage), there are too many wires in	cable, 23 refers to the number of strands while
*	the column Concentric neutral conductor number	1.13 refers to the diameter of each strand in
	and diameter of wires. It will lead to the result that	mm.
	the concentric layers cannot all be arranged in the	,
	same layer. Kindly clarify whether the area of the	·
	concentric layer can be the same with the cross-	j
	sectional area of the phase conductor or not.	
	Table 1: Characteristics (as per K\$ 04-1022)	
	Phase Conductor Concentric Minim- Thicknes Approxi- neutral s of mate conductor dc	
	conductor: um lay oversheat overall resistance per number. & hmm diameter 1000m of cable	
	Nomi No. Thickne diameter of Phase Neutral	
	nal ≈ ss of wires mm ohms ohms ohms ohms ohms ohms ohms	
	mm   mm	
	16         7/1,70         1.55         26/1,13         155         1.4         13.34         1.91         1.808           25         7/2 14         1.60         29/1,13         165         1.5         14.88         1.20         1.0586	
	35 19/1.53 1.65 27/1.35 178 1.6 16.75 0.868 0.7966	
14.	In page 69 of Volume I Bidding Procedures and	The Key Personnel for the Supply and Installation
14.	Contract Forms, it mentioned the key personnel's	phase are outlined in Section III, Evaluation and
	positions as follows;	Qualification Criteria, '2.5 Contractor's
	Two Number Minimum Minimum	Representative and other Key Personnel per lot'
	n Position/ No. specialization Relevant academic qualifications of Conoral work experience experience	and repeated in Section VII, Employer's
	(years) (years)  2. Resident Project Degree is Electrical or Mechanical 2 10 5  Manager Engineering or Renewable	Requirements, 'Contractor's Representative and
	Engineering to the book of the control of Mechanical 1 7 4	Key Personnel Per lot'
	Engheering  3. Construction Degree in Electrical or Mechanical 1 7 4	,
	Engineer Engineering 4. Technician Diphrasin Bedrival Engineering 1 5 3	
	Solar PV Degree/Diploma in Electrical or 1 S 3     Specialist Medianizal or Reversable or Electry:	0
	Engreening and Energy & Petroleum Regulatory	
	Author ky (EPRA) Solor PV System Class 13 Nocase or equivalent	
	6. Environmental, Environmental/Social Health/Sufery 1 5 3 Social, Health Degree or other relevant Degree and Safety	
	(ESHs) specialist	
	But the form "Contractor's Representative and other	
	Key Personnel Schedule" mentioned another several	
	positions, that is, Contractor's Representative,	
	Environmental Specialist, Health and Safety	
	Specialist, Sexual Exploitation, Abuse and	
	Harassment Expert.	
	Kindly clarify what's the key personnel's positions for	
	this project.	
15.	According to the tender documents' requirements,	Site visits are not mandatory. However, Bidders
	site visits are not mandatory. Kindly clarify whether	are advised to fill in Bid Response Sheet No. 2 for
	it's a must for us to fill in the form Appendix 2- Bid	the sites visited.
	Response Sheet No. 2, Details of Visit to Site	
	Performed by Bidder's Representative or not.	Discourant Additional Company
16.	We hereby forward our request to extend the	Please refer to Addendum No. 2
	submission date of the above stated tender by FOUR	
	WEEKS as we line to complete our visits to the sites	*
	to access the challenges.	

No.	Bidder Query/ comment	KPLC Response
17.	Manufacturer Supplies Record and Details of	
	Supplies Record. (Reference List)	
	a. The Manufacturers are reluctant to provide these details due to contractual obligations on confidentiality especially on signed contracts. Can	The requirement shall be as per the issued bidding document.
	the employer have one option, Manufacturer Supplies Record (Reference List) and NOT Details of Previous Supply Contracts (Copies of signed contract)	*
	b. Contract Forms: (Page 110) Paragraph (a) "Must reflect Financial Situation of the Bidders or Member to a JV, and not sister or parent companies.	
	c. Bidders Audited Financial Statements for 5 years: Page 110:	Refer to Section III, Evaluation and Qualification Criteria:
-	Paragraph (c): The requirement for audited accounts with audit notes is tailored towards one specific standard. There are different audit reports where financial statements are prepared based in the geographical region and financial standards applicable to the region. For example, the Asian countries financial statements format is very different in terms of audit notes which are predefined by their countries. As such, the notes required in the RFB should factor this and accept the format prescribed by International Financial Standards (IFS) without limitations to audit notes.	3.1 Financial Capabilities Submission of audited balance sheets or if not required by the law of the Bidder's Country, other financial statements acceptable to the Employer, for the last five [5] years to demonstrate the current soundness of the Bidders financial position and its prospective long-term profitability.
	d. Power of Attorney The Power of Attorney referred to in page 289 Ättachment 3" I. Kindly confirm the availability of the said "Power of Attorney"in the RFB	Attachment 3 is the Power of Attorney to be provided by the bidder as per the issued bidding documents.
	II. Since there is an existing Power of Attorney in force does it mean we are required to execute a new Power of Attorney based on Employer's format?  III. If (b) is assumed to be correct position, there is need to extend the submission date because it will require about 2 weeks to register the PoA.	Power of Attorney submitted to meet the requirements in the issued bidding documents.
	e. Attachments: Page 289 Kindly confirm these attachments are available in the RFB. Otherwise consider giving them out a.s.a.p	The requirement shall be as per the issued bidding document.
	<b>f. Appendices and Attachments (Page 312)</b> Kindly confirm that these documents are in the RFB as indicated in page 312 of the RFB	The requirement shall be as per the issued bidding document.

Yours faithfully,

For: KENYA POWER & LIGHTING COMPANY PLC.

**ASHENE ESHITUBI** 

Ag. GENERAL MANAGER, SUPPLY CHAIN & LOGISTICS

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