

Government of Pakistan
PAKISTAN TELECOMMUNICATION AUTHORITY
HEADQUARTERS, F-5/1, ISLAMABAD
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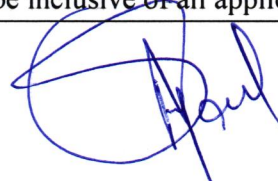
No. 5-4/2022 (CW) PTA

23rd April, 2024

Subject: Minutes of Meeting (MOM) of Pre-bid Meeting – Design, Supply, Installation, Testing & Commissioning of on Grid Solar PV System for Pakistan Telecommunication Authority


Regarding ITB for solarization of PTA owned Buildings, a pre-bid meeting was held at PTA Auditorium on 19th April, 2024 at 11:00 AM as per published bidding documents. Following are point wise responses of concern/queries enquired during pre-bid meeting:

Sr#	Bidders Correspondence	M/s NESPAK (Design & Supervision Consultant) / M/s PTA (Client) Response
01	Is Hard drive of 01 TB is mandatory or bidder can provide alternate solution?	M/s NESPAK replied that purpose of this item is to provide the storage data for 03 years. Successful bidder can provide solution which is satisfying the need of client whether it is in shape of web-base (cloud storage) or Hard Drive.
02	Is there is variation of technical specification w.r.t description in BOQ especially for Electric wires & Earthing?	Director (Civil Works) PTA replied that preference will be given to BOQ specification as commercial is concerned with it further successful bidder will furnish its design and can highlight deficiencies in Employer design (if any) so same will be vetted from M/s NESPAK and included in scope of work. He also emphasized that all bidders must visit work sites to get better understanding of ground conditions
03	For DC System Earthing – detailed clarification required on Surge arrestor and DC system? Would it be a common path Earthing?	M/s NESPAK replied that Common earthing can be used for Lightning arrestor and DC earthing, however, under this scenario 16 mm ² cables shall be used instead of 6 mm ² for DC earthing.
04	Refer to “Energy yield assessment” – is this bidder responsibility to generate yearly energy yield assessment through known software and to submit with bid document?	M/s NESPAK replied that detailed design shall be submitted by the successful bidder following the award of contract. Energy yield assessment shall be required at detailed design stage only.
05	How thickness of galvanization will be tested at site.	M/s NESPAK replied that Alco-meter will be used for said purpose.
06	Is there any relaxation in payment terms & conditions?	Director (Civil Works) PTA replied that payment will be done as per published bidding documents.
07	Are quoted rates inclusive of all taxes?	Director (Civil Works) PTA replied that quoted rates should be inclusive of all applicable govt taxes.



08	What is last date for sending queries to PTA team related to this tender?	Director (Civil Works) PTA replied that 24 th April, 2024 (before last 05 working days prior to opening of bid) is last date.
09	All documents to be filled by hand and to upload through PPRA E-PADs system with supported documents where applicable?	Director (Civil Works) PTA replied that signed and stamp bidding documents along with supporting evidence /documents needs to be uploaded on PPRA 's E-PADs and original bid security should be submitted to his office before opening of bids.
10	For AC Earth – Supplier to prepare a separate Earth for inverters and other relevant AC equipment quoted in their bid?	M/s NESPAK seconded this understanding.
11	For mounting structure – no certificate to provide, NESPAK teams will verify its quality through their own testing process?	M/s NESPAK replied that successful bidder shall provide details of structure along with other equipment under detailed design for Consultant's approval which shall be verified during material inspection and installation verification.
12	Refer to AC/DC cables, Earth wires & cable trays: Please elaborate a bit more “conduits shall have 30% higher space capacity”?	M/s NESPAK replied that Cables through the conduits shall be run in a way that at least 30% of space remains for future additions / limited losses.
13	Refer to “Inverter Data logger collection of data” – Total energy supplied by Genset to be measured – should it be part of bidder solution?	M/s NESPAK seconded this understanding.
14	Refer to “Minimum specification 1.2 “Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing” Is this applicable even if bidder quotes local renewable brands in cables?	M/s NESPAK replied that minimum technical specifications as given under the Bidding documents shall be followed.
15	Need clarity on HDGI P1/P2/P3/P4 Structure, whether it means Standard L1/L2/L3/L4 or is it pipe based structure? And is there enough space for installation of 45KW and 150KW on rooftops with HDGI P1 structure?	M/s NESPAK replied that L1/L2/L3/L4 infers PV modules placed in landscape orientations, P1/P2/P3/P4 mean PV modules placed in portrait orientation.
16	Brands of items not mentioned. Is there any specific requirement or not?	M/s NESPAK replied that any brand conforming to the minimum technical specifications shall be acceptable
17	Inverter warranty by manufacturer is 5 years. Do you need extended warranty of 10 years? It will cost	M/s NESPAK replied that 10 year warranty shall be required under the work.

	accordingly	
18	Availability of DC breaker 1Pole, 16A is an issue of local market. Can we use equivalent rating or extended rating breakers like 1P/2P 20A?	M/s NESPAK replied that DC Breakers and their ratings shall be finalized and approved based on the proposed PV modules.
19	Quantity of DC cable mentioned is 120 meters. Is it 60 meter Red and 60 Black? As it is not specified?	M/s NESPAK replied that minimum quantities have been given in the BoQ which may vary depending on the final layout proposed for installation. For the given example, 120 m length includes both black and red cables.
20	Because of no survey of any site, need clearance about placement of inverters and so quantity of Cable tray, PVC pipe accordingly?	M/s NESPAK replied that Employer's design has been given in the bidding documents to facilitate the bidders in understanding the requirements of the work, however, the EPC contract 's prospective bidder may conduct site survey prior to bidding at its own cost for better understanding of the Work.
21	Lightening arrestor is major component that is neglected usually. Please mention quantity or any specs about requirement?	M/s NESPAK replied that items mentioned under BoQ shall be required under the work. Lightning arrestors where not mentioned are either due to already installed arrestors or based on the guidelines set forth by AEDB/PPIB for solar installations.
22	Is there any requirement of Gensets or not? It is not mentioned in provided BOQ but in specification sheet there is requirement of net metering with Genset sync.	M/s NESPAK replied that Genset synchronization shall be required under the work. Cost of requisite may be included under 'Inverters with Remotely monitoring devices.
23	Capacitor banks would be required in certain systems as per NEPRA requirements but that are not mentioned in given RFP?	M/s NESPAK replied that please feel free to identify the sites and NEPRA regulations under which additional capacitor banks shall also be required under the work.


 23/4/24
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