

## Attachment - 1

### Response to the queries received on the Bidding Document for “**GRID CONNECTED ROOF TOP SOLAR PHOTO-VOLTAIC SYSTEM AT VARIOUS BUILDINGS IN SHILLONG, EAST KHASI HILLS DISTRICT, MEGHALAYA UNDER SMART CITIES MISSION**” (Tender Reference No. SSCL/Tender/2021-22/MEG-SHI-012)

The pre-bid Conference was held on 15<sup>th</sup> July 2022 at 04:00pm at the Conference Hall, Office of the Shillong Smart City Limited House No. C/B-037, Top Floor, Centre Nongrim Hills, Near JJ Cables, East Khasi Hills District, Meghalaya – 793003. The queries received and response of the Employer is as under:

SN	Clause No.	Page No.	Content of Bid document Requiring Clarification	Change Requested/ Clarification required	Response
(1)	(2)	(3)	(4)	(5)	(6)
1	3.5	7	The bidder must have solvency of minimum 15% of the Estimated Project Cost		As per RFP, a certificate as per Clause No. 3.5 (page-07) and Tech form 4C to be provided
2	4.2.b	9	Total monetary value of similar works performed for each of the last seven years.	Monetary Value of Work equal to or more than Project Cost shall suffice	Similar works of any cost can be provided here.
3	4.2.d	9	Evidence of ownership of major items of construction equipment named in Clause 4.4.3 (a) of ITB or evidence of arrangement of possessing them on hire/ lease/ buying as defined therein.	To be provided post LOA	As per RFP.
4	4.2.e	9	Details of the technical personnel	To be provided post LOA	As per RFP
5	4.2.f	9	Reports on the financial standing for the past seven years	Last Three Years should suffice to meet Min Average Turnover & Net worth	Last 3 years Annual financial reports are to be enclose along with the technical proposal
6	4.2.g	9	Able to invest a minimum amount of up to the percentage of CV	Specify in Detail	The percentage is 10 (ten). Refer to APPENDIX TO INSTRUCTIONS TO BIDDERS (ITB), Page No. 22
7	4.2.h	9	Evidence of access to line(s) of credit and availability of other		To be enclosed as per RFI (Tech form: 4B, Page-104)

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			financial resources/ facilities (10 percent of the contract value)		
8	4.4.1.b	10	Average annual financial turnover from construction works should be at least 30% of the estimated cost during last 3 financial years	-	Refer Corrigendum
9	4.6	11	Assessed Available Bid capacity = (A*N*M - B)	This clause mentions about the value of Civil Work & not the similar solar work	Refer Corrigendum
10	16.7	17	Earnest Money exemption - MSME Registration or registered with the Central Purchase Organisation or the concerned Ministry or Department	To meet MSME category are we supposed to be registered within the state of Meghalaya	MSME registration as Clause 16.7, page No. 17 shall be acceptable.
11	II a	68	a) Water Proofing of RCC roofs, if the current condition of the roof of the building is not feasible for Solar PV system installations. Terrace Slabs shall be finished with proper treatment of Water Proofing of approved specifications.	Share the extent of Terrace slabs required for each RCC roof to mentioned.	Estimated area for RCC roof treatment is provided at page No. 69. for detail of work to be carried out, refer Scope / technical Specifications / BOQ.
12	II b	68	b) Repair or replacement of metal sheet roof on the buildings where it is necessary before installation of Solar PV system.	b) Repairing requirements are provided in Page #73, However a detailed study by execution team is required on the numbers provided.	Estimated area for Metal roof repair / Replacement is provided at page No. 69. for detail of work to be carried out, refer Scope / technical Specifications / BOQ. The contractor shall be required to carry out a survey prior to the repair and replace works.
13	II b	69	c) The structure stability test reports conducted by the SSCL for building with RCC roof to check strength of the roof and structure are	C)	As per RFP

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			available for most of the buildings. The same shall be shared with the Contractor for their reference, if required.		
14	6	72	<p><b>MOUNTING EQUIPMENT / STRUCTURE:</b></p> <p>The Mounting structure shall be so designed to withstand the speed for the wind zone of the location where a PV system is proposed to be installed. It may be ensured that the design has been certified by a recognized Lab/ Institution in this regard and submit wind loading calculation sheet to the Employer</p>	IIT / Anna University approval shall be planned.	As per RFP. Design certification from a government recognized lab / institution shall be acceptable.
15	6	72	Regarding civil structures the bidder need to take care of the load bearing capacity of the roof and need arrange suitable structures based on the quality of roof.	Contradicting with point #1(Page #72) Point C	No contradiction. The Contractor has to consider the position of column / beam on the RCC slab while providing fixtures towards installations of solar panels such as frame / brick slab to install the solar panels.
16	9	73	The Contractor shall bear the entire cost of PV installation and Net meter including its accessories. The installation of meters, at each site, shall be carried out by the Contractor.	Each Building belongs individual owners who will be applying for Net Meters in their capacity. Contractors cannot be expected to bear this cost. This impacts the project cost	As per RFP / BOQ. The net metering shall be responsibility of the Contractor.
17	5.7	78	Technical Specifications for Civil Works:	CPWD works procedure copy to be shared online	Link for CPWD specifications is given below:

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			Specifications (Vol. 1 and 2), as published by the Central Public Works Department (CPWD), Government of India in 2019 and as amended from time to time will be applicable for the project, unless otherwise mentioned hereinunder. The Technical Specifications mentioned in CPWD Specifications are the minimum required specifications and the Employer/Client reserves the right to select products/material that exceed the specifications. Contractors are required to submit the manufacturer datasheets, wherever applicable.		<a href="https://cpwd.gov.in/Documents/cpwd_publication.aspx">https://cpwd.gov.in/Documents/cpwd_publication.aspx</a> Refer Sr. No. 8 Specification (Civil) Volume - 1 & 2
18	-	-	Request to provide Wind details in Shillong, Meghalaya		Average wind speed is 5.5kph. However, it ranges from 2 - 30 kmph (meteoblue.com)
19	-	-	Request to provide Water during the Operation and Maintenance period (5 Years) to the contractor		As per RFP.
20			it is mentioned that 80% of payment will be made location wise on installation and commissioning on per KWp basis and 20% payment will be made in equal instalments of 4% each for five years on submission of the annual O & M report.	This amount of retention is on a very higher side so we would like to request you to consider and accept Bank Guarantee instead of 20% RTN amount or 2% RTN amount to be release every year till 5 years (total 10% retention)	As per RFP.
21	-	22	As per RFP, appendix Row No. 3.2	Our Joint Venture partner is	As per RFP.

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			(pg. No-22). The eligible bidders are: All bidders registered with central / State Government Ministries / Departments / Organizations and meeting the eligibility criteria.	registered with Ministry of renewable energy led by central Govt. hence this registration should be considered.	Bidders registered with any central / State Government Ministries / Departments / Organizations shall be eligible.
22	-	66	As per RFP, point 5 (page No. 66) scope of work, In the installation to commissioning stage it is mentioned that the contractor has to obtain all necessary statutory clearances / permissions such as approval from authorities in Meghalaya etc and however the actual fees (if any) incurred will be paid by employer.	We request you to keep this work in scope of the employer only in interest of faster and smoother flow of work.	As per RFP.
23	-	57	As per RFP, Point 12 (ii) & (iii) Page No. - 57), Provision of water supply and electricity supply for construction purpose.	We request you it should be made available from Smart city at concerned building area	As per RFP.
24			Similar work experience of the bidders, quantified in terms of number of completed projects during last 7 years (till last day of month before the one in which applications are invited)  (a) Completed similar works each with value of 80% of estimated cost or more (15 marks each capped at a maximum of 2 such projects)	Request for the following Amendment - (a) Completed similar works each with value of 80% of estimated cost or more  (15 marks each capped at a maximum of 1 such project)	As Per RFP

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			<p>or</p> <p>(b) Completed similar works each with value of 60% to 79% of estimated cost (10 marks each capped at a maximum of 3 such projects)</p> <p>or</p> <p>(c) Completed similar works each with value of 40% to 59% of estimated cost (5 marks each capped at a maximum of 6 such projects)</p>		
25			The Contractor shall clean the installed PV Modules with plain water or mild dish washing detergent once in a week. The cleaning of Bird droppings / dark spots found on module, if any shall be required to cleaned immediately after notice/ reporting by building owners.	The Cleaning of Modules shall be restricted to One cycle per Month & Bird Dropping shall be addressed by the owner's technician	As Per RFP
26	Section 6		Drawings	Share the Height of Buildings & Location of LT Panel for AC Power Termination	Height of the building and locations of LT panels have been identified in consultation with concern department / building. The same shall be shared with successful bidder.
27			Drawings	Confirmation of Feeder availability for respective sites	Existing feeder panel (with normal energy meter) is available at each site.
28	8	72	The manufacturer should warrant the Solar Module(s) to be free from the defects and/or failures specified	This clause shall be amended as per the Industry Standard - The PV	As per RFP, Refer BOQ specification

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			below for a period not less than Twenty-five (25) years from the date of sale to the original customer ("Customer")	Modules Warranted for their peak watt capacity , which shall not be less than 90% at the end of 10 years & 80% at the end of 25 Years	
29	8	72	The manufacturer should warrant the Solar Module(s) to be free from the defects and/or failures specified below for a period not less than Twenty-five (25) years from the date of sale to the original customer ("Customer")	This clause should also include the following - " The installer has to transfer all the Guarantees / Warrantees of the different components to the Owner of the project"	Pt. No. XXVI: Manufacturer's Warranties (Page No. 59): (a) The Contractor shall ensure that all the manufacturer's warranties are made available to the Employer and the legal documentation between the Contractor and the Supplier must have a transparent pass through of the warranty benefits to the Employer as the user/maintenance Body of the Asset for the entire duration of each available warranty.
30		78	The contractor is required to use the approved makes as per the MPWD (Buildings) Electrical Division Schedule of Rates 2021-22 for the items during the construction works.	Will use the CPWD Approved makes for Civil & Electrical works, however kindly confirm the list of approved makes for SPV Module, Inverter	As Per RFP
31		82	Weather Monitoring Station	It shall sufficient to instal one weather monitoring station with pyranometer. (it shall not be economically feasible to install weather monitoring stations for all sites	As Per RFP
32		3	Completion Period for Construction - 8 Months	Considering Severe Monsoon in the City & Also the logistical challenge of moving material only during	As Per RFP

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				late nights & weekend due heavily congested traffic & narrow steep lanes. We request that this timeline be extended to 10 Months	
33	9	77	Supply of Net Meters & Installation	Kindly specify the following - No of Single-Phase Meters No of 3 Phase Meters No of LT Meters & respective fees to be incurred for each site	All the existing energy meter are 3 Phase (LT meters). More details shall be provided to the successful bidder during execution of work.