

DESIGN, ENGINEERING, SUPPLY & PROCUREMENT, ERECTION, TESTING, COMMISSIONING AND COMPREHENSIVE OPERATION AND MAINTENANCE FOR 5 (FIVE) YEARS FOR 406 KW(AC) GRID CONNECTED ROOFTOP SOLAR PHOTOVOLTAIC POWER PROJECT ON ROOFTOP OF VARIOUS BUILDINGS AT TWO LOCATIONS (I) SITE 1- APPAREL PARK DEPOT (206 KW) AND (II) SITE 2- GYASPUR DEPOT (200KW) OF GUJARAT METRO RAIL CORPORATION (GMRC) LTD, GUJARAT						
GMRC/SYSTEM/RFTP-02/DEPOT/EW-NS/2022						
Sr.	Chapter No	Clause No.	Page No.	Tender Term	Bidder's Query	Clarifications, dated: 24-09-2022
1	3	Table -B Point No. I & III	12	Important Amounts-  Tender Fees & Earnest Money Deposit are Exempted for MSME and NSIC firms	Kindly confirm term Tender Security stands for Earnest Money Deposit?  Means Earnest Money Deposit and Tender Fees are Exempted for MSME and NSIC Firms?	Yes, Refer note mentioned in Table B of Clause - 3.  Tender Condition Prevails
2	3	3.2.1	42	i. The Bidder shall be a body incorporated in India under the Companies Act, 1956 / 2013 or LLP. A copy of certificate of incorporation shall be furnished along with the bid in support of above.	Is registered partnership firm allowed to participate in this tender?	Yes, Tender Condition Prevails
3	3		45	The Tender of only those bidders will be considered who will produce documentary proofs, self-attested to meet the following requirements: The Bidders to have valid Proof of Permanent EPF account no., ESI registration no. and GST no.	We are not coming under EPF as we are having less then 20 employees in the firm, also we do not have ESI registration no., as we come under shop act and not under factories act. So ESIC is not applicable to us.	Refer note (ix) of Para (C), General Instructions of Clause 5.1.1, Project Development.  Tender Condition Prevails
4	3.3	3.3.1	46	The Bidder is advised to visit and examine the site conditions, traffic, location, surroundings, climate, availability of power, water and other utilities for construction,access to site, handling and storage of materials, weather data, applicable laws and regulations, and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid and entering into the Contract Agreement.	Kindly Provide the contact details of the Authorised person responsible for Co-ordination for Site visit from GMRC So that Bidders can contact him and Schedule for the Site Visit according to his availability.	May Contact <b>Sh. N Krishta Naik</b> in Gandhinagar GMRC office Block No.1, First Floor, Karmayogi Bhavan, Behind Nirman Bhavan, Sector 10/A, Gandhinagar: 382010
5	3.14	3.14.1	53	The Bidder shall be required to quote the Net Electrical Energy Generation Guarantee (NEEGG) for five (5) years period at the solar metering point. Solar meter shall be placed near to interconnection panel at customer LT Panel.	Interconnection Point is available where connection is with the Grid. EPC contractor to propose if same to be provided individually at each building or at a single point	Refer Clause 5.3 (ii), pg.no.74 of Tender documents. Tender condition prevails.
6	3.14	3.14.5	54	The deration in NEEGG quoted after first year shall not be more than 1% of the quoted for the previous year.	The Deration in NEEGG shall be as per the actual site conditions and depend on the generation. Kindly remove the clause as bidders are already providing NEEGG computation for the same.	Tender Conditions Prevail.
7	Chapter 3	Clause 3.14.4	54	The Bids with NEEGG of less than or equal to, for site-1 (206 kW plant at Apparel park depot) at least 3,24,821 kWh and for site-2 (200 kW plant at Gyaspur depot) at least 3,15,360 kWh (Calculated @ 18% CUF) for the first year shall be summarily rejected	please given confirmation, generation given based on DC or AC capacity	Generation Given is based on AC capacity. Tender condition prevails.
8	4.3	4.3.3	57	Cover-III: EMD and Tender Fee	Cover -III for EMD & Tender Fee will not b applicable for MSME/ NSIC Firms ?  As EMD & Tender Fees are Exempted for MSME/NSIC Firms. OR Please Specify if any other Documents is to be placed in Cover-III against EMD & tender Fee Exemption.	Yes, Refer note mentioned in Table B of Clause - 3.  Tender Condition Prevails

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9	4.12	4.12.6	64	Factors for Evaluation of Bid	Is there any relaxation in Bid Evaluation (In Price Bid) and Contract Allocation for MSME/ NSIC Firms?	No. Tender condition prevails. Refer Clause 4.12, Evaluation of Bid and selection of Bidder
10	5	5.1	67	For buildings with grid-connected solar PV systems, the service connection meter needs to be of the bidirectional type, whereby import kWh and export kWh are separately recorded.	Kindly Please clarify That - Bi-direction Meter / Net Metering is to be done separately for each Buildings at Site? OR Net Metering is to be done at Main Meter/ at Main Incomer at both the sites? - Solar Meters are required to install at eah Buildings? which will be the metering point for NEEGG measurement?	(i) Bi-directional meter/Net metering is provided at 132 kV level in GMRC Receiving Sub Station at Gyaspur depot. (ii) Separate Solar Meters are required to be installed at each building and as per the requirement of DISCOM.  Cummulative generation at both the sites will be considered for NEEGG requirement.
11	Chapter 5	5.1	67	Site 1: Apperai Park 206 KW  Site 2: Gyaspur 200 KW  Total: 406 KW	This capacity DC or AC?  As per clause no 5.3  406 kW capacity show as a DC capacity	AC capacity. Also Bidder to refer notes under Table 15.A: SCHEDULE OF PRICE. Tender condition prevails.
12	5	5.1.1 (Point 9)	69	Main Meter and Back up Meter	Kindly Please clarify That - There is a uncertainty regarding the net metering in the document , whether it has to be done for all buildings (near the feeder points)individually OR at at the main Incomer meter at both the Depot? - Solar Meters are required to install at eah Buildings? which will be the metering point for NEEGG measurement? - Also it is requested to please Mark / Locate the location of Main	1. Regarding net metering refer clarification given at Sl.10. 2. Regarding Solar meter refer clarification given at Sl.10. 3. Bidders are advised to visit sites for meter location. However, bidders may refer Annexure-A1, Details of Site for building locations.
13	Chapter 5	clause 5.1.1 C-1	69	Construction water and construction power shall be the responsibility of the EPC Contractor.	Please clarify the tapping point for the MCS	Refer Clause 5.1.1 C (i), pg.no.69 of Tender documents. Tender condition prevails.
14	Chapter 5	clause 5.1.1 C-3	69	The Contractor to obtain comprehensive insurance cover for the Project	Please confirm	Yes.Tender Condition Prevails
15	Chapter 5	clause 5.3 (ii)	74	All evacuation done under the same building i.e 415 V	Please confirm	Clause 5.3 (ii) is self explanatory. Tender condition prevails.
16	5.4	5.4.1	75	The PV modules used should be made in India	Please clarify that The Solar Panels to be installed should be DCR Modules or Any Indian Manufacturer make?	Clause 5.4.1 is self explanatory. Tender condition prevails.
17	Chapter 5	Clause 5.4.1 (i)	75	The PV modules used should be made in India.	Please allow PV Modules listed in ALMM instead of made in India	Clause 5.4.1 (i) is self explanatory. Tender condition prevails.
18	Chapter 5	Clause 5.4.1 G-iv	76	IV curves at STC for each PV module should be provided by bidder.	Please confirm, for every module IV is not required	Clause 5.4.1 g (iv) is self explanatory. Tender condition prevails.
19	Chapter 5	clause 5.4.2 {Xii}	78	Mounting arrangement for elevated structures: bolted with anchor bolts of appropriate strength for elevated structures mounted on RCC surfaces	For elevated structure anchoring is permitted or not	Refer clause 5.4.2 (ii). Tender condition prevails.
20	Chapter 5	Clause 5.4.2 (i)	78	Hot dip galvanized MS mounting structures (with 1000 gm/m zinc mass coating)	1000 gm/m is equal to approx 140 micron. As per standard, 80 to 100 micron shall be average value on coating	Clause 5.4.2 (i) is self explanatory. Tender condition prevails.
21	5.4	5.4.2 Point No. XII (d)	80	Access for panel cleaning and maintenance: The Bidder/ EPC Contractor shall also provide fixed / folding staircase to access building's terrace/roof for panel cleaning and maintenance.	Fixed / Folding Staircase is to be provided for each Buildings Separately or 1 No. at per Site -1 and Site -2 will work?	Fixed/ Folding Staircase for each site shall be provided. Tender conditions prevail.

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22	Chapter 5	Clause 5.4.3	80	Copper bus bars/terminal blocks housed in the junction box with suitable termination threads Conforming to IP65 standard and IEC 62208 Hinged door	Please clarify its required	Yes it is required. Tender Condition Prevails.
23	5.4	5.4.4	82	DC Distribution Box	Can we eliminate this component? Because few Inverters are having In built DC Protection system/ DC SPDs.	Yes, it can be eliminated. Tender condition prevails.
24	5.4	5.4.6 (i)	83	PCU/ARRAY SIZE RATIO The combined wattage of all inverters should not be less than rated capacity of power plant under STC. However extra DC capacity can be installed by bidder to achieve higher CUF within the limit of the terrace of the proposed buildings.	Kindly clarify that, Inverter Capacity Should be equal to Project capacity of each Building? Overloading of Inverter is allowed/Not?	This tender is Design and built type. Hence, bidders to quote complying the requirements mentioned under this tender.
25	Chapter 5	Clause 5.4.7	84	Anti Islanding Protection as per the standard	Please confirm	Yes it is required. Tender Condition Prevails.
26	Chapter 5	Clause 5.4.8	83	to maximize Solar PV array energy input into the System, to the power conditioning unit/inverter should also be DG set interactive.	its required for all the building. Please confirm	Clause 5.4.8 is self explanatory. Tender condition prevails.
27	5.4	5.4.8	86,87	INTEGRATION OF PV POWER WITH GRID  Once the DG set comes into service PV system shall again be synchronized with DG supply and load requirement would be met to the extent of availability of power. 4 pole isolation of inverter output with respect to the grid/ DG power connection need to be provided. Necessary controlling arrangement for DG set shall be incorporated in to design.	Kindly Provide the Building wise DG details as of Both the sites/Depots which are to be synchronized with PV System, So that accordingly we can consider the same in our scope calculation.	One DG set of 630 kVA at each site is provided.
28	Chapter 5	Clause 5.4.9	87	Solar Irradiance: An integrating Pyranometer / Solar cell based irradiation sensor provided, with the sensor mounted in the plane of the array. It should be installed at all the three sites mentioned in Annexure 16	Solar cell based irradiation sensor will be provided please clarify	Clause 5.4.9 is self explanatory. Tender condition prevails.
29	Chapter 5	Clause 5.4.9	88	Total Harmonic distortion	Its not possible to show harmonic distortion on online portal. So please clarify this	Clause 5.4.9 is self explanatory. Tender condition prevails.
30	5	5.4.9 (Point 4)	89	For accounting of solar generation after inverter/ ACDB from individual feeder solar meter shall be installed. Minimum two no. of solar meter shall be considered for plant. Solar meters shall be installed near ground floor of the building.	Please clarify That - Minimum Two Nos. of Solar meters for plant?	Minimum two no. of Solar meters at each evacuation point is required as per DISCOM.
31	Chapter 5	Clause 5.4.12 (Viii)	93	For the AC cabling, PVC or, XLPE insulated and PVC sheathed single or, multi- core multi stranded flexible copper cables shall be used; Outdoor AC cables shall have a UV-stabilized outer sheath.	Copper cable is required or not please clarify	Clause 5.4.12 (Viii) is self explanatory. Tender condition prevails.
32	Chapter 5	Clause 5.4.12 (XV)	94	Cable embossing	For such small quantity embossing not possible. Please clarify	EPC contractor to try for embossing as specified in contract. If not available then Cable tags to be provided at each 5 Mtrs. Tender condition prevails.
33	Chapter 5	Clause 5.4.12 (XIX & XX)	95	PV module to INV is 296 INV to Evacuation point 29a	Please confirm	Tender Conditions Prevail.

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34	Chapter 5	Oause5.4d6 (XV)	97	i) Portable fire extinguishers in the control room for fire caused by electrical shortcircuits II) Sand buckets on rooftop near electrical installations	Its required for such small and distributed capacity. And its required then its necessary to provide all the building	i) Refer clause 5.4.16 (iv). Tender condition prevails. ii) Refer clause 5.4.16 (ii). Tender condition prevails.
35	6.17	6.17.3	Page No. 120 of 220	The EPC Contractor shall procure the solar module in line with the MNRE requirements on domestic content.	Please clarify that The Solar Panels to be installed should be DCR Modules or Any Indian Manufacturer make?	Clause 6.17.3 is self explanatory. Tender condition prevails.
36	6.17	6.17.15	Page No. 122 of 220	The EPC Contractor will provide and lay down the dedicated electrical cables for transmission of Solar Power from the Project up to the Delivery Point. The Delivery Point will be where the Main Metering System is located.	Please clarify Scope of Right of way for Cable Laying? OR Cable Route for the same?	Buildings inside both depots are connected through trenches/hume pipes for cable laying. If not available bidder have to provide cable connectivity through suitable arrangement. Moreover, bidders are advised to visit sites for assessment of the same.
37	6.46	6.46.1	Page No. 132, 133 of 220	Payment Milestones for Supply 3. 15% of contract Price Upon achieving Commissioning of the Plant 4. 10% of contract Price Upon achieving Completion of the Facilities and successful Performance Ratio (PR) Test	Request you to please change/ update the payment terms as below - 5% of Contract Price on commissioning of the plant - 5% of Contract price on completion of the performance ratio test and other amount can be arranged on prorata basis against the siupply of material and work completion	Tender Conditions Prevail.
38	6.46	6.46.1	Page No. 132, 133 of 220	Payment Milestones for Works 2. 15% of contract Price Upon achieving Commissioning of the Plant 3. 10% of contract Price Upon achieving Completion of the Facilities and successful Performance Ratio (PR) Test	Request you to please change/ update the payment terms as below - 10% of Contract Price on commissioning of the plant - 10% of Contract price on completion of the performance ratio test and other amount can be arranged on prorata basis against the supply of material and work completion	Tender Conditions Prevail.