

Reply to Pre-Bid Queries					
Gujarat Metro Rail Corporation (GMRC) Limited					
BID FOR DESIGN, ENGINEERING, SUPPLY & PROCUREMENT, ERECTION, TESTING, COMMISSIONING AND COMPREHENSIVE OPERATION & 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 (200 KW) OF GUJARAT METRO RAIL CORPORATION (GMRC) LTD, GUJARAT.					
GMRC/SYSTEM/RFTP-02(R2)/DEPOT/EW-NS/2023					
Sr. no.	Clause no.	Page no.	Tender Clauses	Queries/Concerns	GMRC's clarifications/Response, dated: 21-07-2023
1	Table-B of NIT	13	As per MSME Act 2012 and amendment thereof, the firm registered under MSME / NSIC (i.e. National Small Industries Corporation) under appropriate category are exempted in submission of Tender Fees and Tender Security subject to submission of valid registration certificate as on the date of tender submission.	This exemption is for all MSME or state specific MSME?	* As per MSME Act 2012 and amendment thereof, the firm registered under MSME / NSIC. Tender condition Prevail
2	4.1.a).ii. of NIT	13	Class-I local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%, as defined under the Order No. P-45021/2/2017-PP(BE-II) dated 04.06.2020 issued by Department for Promotion of Industry and Internal Trade (DPIIT). Minimum local content for 'Class-I local supplier' shall be 90% for the subject tender.	Minimum local content required to qualify as class - I Local Supplier is 50% as per the referred DPIIT notification. Kindly clarify the local content required for the subject tender.	Class-I local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%, as defined under the Order No. P-45021/2/2017-PP(BE-II) dated 04.06.2020 issued by Department for Promotion of Industry and Internal Trade (DPIIT). Minimum local content for 'Class-I local supplier' shall be 60% for the subject tender. Refer sn. -1 of Addendum -1 , Dated 21-07-2023
3	4.1.a).ii. of NIT	13	Class-I local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%, as defined under the Order No. P-45021/2/2017-PP(BE-II) dated 04.06.2020 issued by Department for Promotion of Industry and Internal Trade (DPIIT). Minimum local content for 'Class-I local supplier' shall be 90% for the subject tender.	As per Order No-P-45021/2/2017-PP(BE-11) , local content is equal to 50% but in given clause it is given as 90% for Class-1 local supplier, please clarify.	Class-I local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%, as defined under the Order No. P-45021/2/2017-PP(BE-II) dated 04.06.2020 issued by Department for Promotion of Industry and Internal Trade (DPIIT). Minimum local content for 'Class-I local supplier' shall be 60% for the subject tender. Refer sn. -1 of Addendum -1 , Dated 21-07-2023
4	3.2.2.ii.	43	The Bidders shall have an experience of design, supply, erection, commissioning and operation of solar Photovoltaic based grid connected power plant(s) capacity during last seven years ending last day of the month previous to the month of tender submission in India of; a. Single Project of 325 kW or above or b. Two Projects of 203 kW or above or c. Three Projects of 162 kW or above grid connected solar rooftop Photovoltaic systems except solar lanterns / street light / Standalone system.	We understand that the requirement of one single project of 325 kW or above as a single project consisting of multiple sites in one work order would be eligible as a single project; similar to the requirement of yours wherein you have different capacity works in two different locations under one tender/work order. Kindly clarify.	Single tender with two diiferent location shall be accepted except solar lanterns / street light / Standalone system. Tender condition prevails.
5	3.2.2.iii.	43	The Bidder shall also submit documentary proof of achievement of performance generation guarantee and performance of atleast one rooftop solar PV power plant of 50 kW or above installed during the last seven years ending last day of the month previous to the month of tender submission...	Can bidder submit two plants (Capacity 25 KW Each) generation data instead of 50 KW plant.	No. Referred Clause is self explanatory. Tender condition prevails.

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6	3.2.2.iii.	43	The Bidder shall also submit documentary proof of achievement of performance generation guarantee and performance of atleast one rooftop solar PV power plant of 50 kW or above installed during the last seven years ending last day of the month previous to the month of tender submission in India which shall be certified from the Developer ("Client") of that particular solar PV power plant. Performance certificate	We request to consider rooftop/Ground Mounted solar PV power plant of 50 kW or above installed during the last seven years ending last day of the month previous to the month of tender submission in India which shall be certified from the Developer ("Client") of that particular solar PV power plant.	Since the tender is for rooftop solar project. Ground mounted solar projects shall not be considered. Hence, Tender condition prevails.
7	3.2.3.ii.	44	The Net Worth of the Bidder shall be Positive any two out of last Five years	For Start-up Module manufacturers kindly consider the Net Worth of Bidder during last financial year (2021-2022) shall be positive.	Clause Amended Refer sn.-2 of addendum -1 , Dated 21-07-2023
8	3.2.3.iii.	44-45	In case the Net Current Assets (as seen from the Balance Sheets) are negative, only the Banking references will be considered. Otherwise the aggregate of the Net Current Assets and submitted	We understand that if our Net Current Assets (as seen from the Balance Sheets) are positive then we don't need to submit bank solvency certificate(Appendix-21)	Clause is self explanatory. Tender condition prevails.
9	3.11.6.i)	51-52	The Successful Bidder shall submit Security Deposit cum Performance Bank Guarantee of 10% of the EPC Contract Price...	Request to consider Security Deposit cum Performance Bank Guarantee of 5 % of the EPC Contract Price for Successful Bidder.	Tender condition prevails.
10	3.14.1.	54	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. The Bidder shall give NEEGG per annum after considering proposed configuration and all local conditions, solar insolation, wind speed and direction, air temperature & relative humidity, barometric pressure, rainfall, sunshine duration, grid availability and grid related all other factors and losses due to near shading, incidence angle modifier, irradiance level, temperature loss, array loss, module quality loss, module array mismatch loss, soiling loss and various inverter losses etc. To assess/verify feasibility of quoted NEEGG, Bidders are required to provide computation documents along with considered factors based on which NEEGG has been computed.	We hope generation report of Pvsyst with Meteonorm Data would suffice the requirement of documentary evidence towards all the factors mentioned for NEEGG computation which takes care of all the factors mentioned by you.	PV Syst report is part of design. Moreover, bidders to quote NEEGG as per clause 3.14.4. Refer Appendix 16 B to calculate NEEGG based on actual radiation during 05 years O&M period. Tender condition prevails.
11	3.14.4.	55	The Bidders to quote NEEGG, for site-1 (206 kW plant at Apparel park depot) minimum 3,24,822 kWh and for site-2 (200 kW plant at Gyaspur depot) minimum 3,15,361 kWh (Calculated @ 18% CUF) for the first year. The Bids with first year NEEGG of less than 3,24,822 kWh for site-1 (206 kW plant at Apparel park depot) and less than 3,15,361 kWh for site-2 (200 kW plant at Gyaspur depot) shall be summarily rejected.	In our experience normally CUF of any Solar Plant is in range of 15% - 17%. We request you to kindly reduce the required cut-off to above mentioned value.	Bidders to quote NEEGG as per clause 3.14.4. Further, refer Appendix 16B to calculate NEEGG based on actual radiation during 05 years O&M period. Tender condition prevails.
12	3.14.4.	55	The Bidders to quote NEEGG, for site-1 (206 kW plant at Apparel park depot) minimum 3,24,822 kWh and for site-2 (200 kW plant at Gyaspur depot) minimum 3,15,361 kWh (Calculated @ 18% CUF) for the first year. The Bids with first year NEEGG of less than 3,24,822 kWh for site-1 (206 kW plant at Apparel park depot) and less than 3,15,361 kWh for site-2 (200 kW plant at Gyaspur depot) shall be summarily rejected.	Generation guarantee is very high (i.e. 1576/kWh). Suggested generation should be 1300/kWh.	Bidders to quote NEEGG as per clause 3.14.4. Further, refer Appendix 16B to calculate NEEGG based on actual radiation during 05 years O&M period. Tender condition prevails.

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13	3.14.4.	55	The Bids with NEEGG of less than or equal to, for site-1 (206 kW plant at Apparel park depot) at least 3,24,822 kWh and for site-2 (200 kW plant at Gyaspur depot) at least 3,15,361 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.
14	3.14.4.	55	The Bidders to quote NEEGG, for site-1 (206 kW plant at Apparel park depot) minimum 3,24,822 kWh and for site-2 (200 kW plant at Gyaspur depot) minimum 3,15,361 kWh (Calculated @ 18% CUF) for the first year. The Bids with first year NEEGG of less than 3,24,822 kWh for site-1 (206 kW plant at Apparel park depot) and less than 3,15,361 kWh for site-2 (200 kW plant at Gyaspur depot) shall be summarily rejected.	The required CUF is higher than commercially acceptable standard of 15%. Request you to please re-look the same.	Bidders to quote NEEGG as per clause 3.14.4. Further, refer Appendix 16B to calculate NEEGG based on actual radiation during 05 years O&M period. Tender condition prevails.
15	3.14.4.	55	The Bidders to quote NEEGG, for site-1 (206 kW plant at Apparel park depot) minimum 3,24,822 kWh and for site-2 (200 kW plant at Gyaspur depot) minimum 3,15,361 kWh (Calculated @ 18% CUF) for the first year. The Bids with first year NEEGG of less than 3,24,822 kWh for site-1 (206 kW plant at Apparel park depot) and less than 3,15,361 kWh for site-2 (200 kW plant at Gyaspur depot) shall be summarily rejected.	Asking NEEGG is equal to 1575 /KW/Year which is to high considering the segregated capacity and rooftop system. Requesting to please reduce it to 1440/KW/Year, which is standard in rooftop system.	Bidders to quote NEEGG as per clause 3.14.4. Further, refer Appendix 16B to calculate NEEGG based on actual radiation during 05 years O&M period. Tender condition prevails.
16	5.1.	68	Site 1: Apperal 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	Generation Given is based on AC capacity. Tender condition prevails.
17	5.1.1.B).ii)	70	Before commencement of work, the Bidder has to obtain all approvals for related drawings, related vendors to be obtained from the concerned authorities including GEDA,CEI, DISCOM, GMRC etc..	IS there any requirement to enroll/register Bidder to local DISCOM.Please Clarify.	Referred Clause is self explanatory. Tender condition prevails.
18	5.1.1 C-1	70	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. Tender condition prevails
19	5.1.1 C-3	70	The Contractor to obtain comprehensive insurance cover for the Project.	Please confirm	Yes, Tender condition prevails.
20	5.2.1 & 5.4.1.b.	73 & 77	5.2.1.: Each panel is rated by its DC output power under standard test conditions, and typically ranges from 100 to 450 watts. 5.4.1.b.: The total solar PV array capacity (kWp) should not be less than allocated capacity (kW) and should comprise of solar crystalline modules of minimum 325 Wp and above wattage. Module capacity less than minimum 325 watts shall not be accepted.	There is the contradictory in the wattage requirement solar PV modules. We understood that we can use solar PV modules of minimum 325 Wp and above wattage. Kindly confirm the same	Both clauses are different. PV module of minimum 325 Wp and above wattage shall be used as per clause 5.4.1.b. Tender condition prevails.
21	5.2.2.	73	Junction box - An electrical junction box is a container for electrical connections, usually intended to conceal them from sight and tampering. A small metal or plastic junction box may form part of an electrical conduit wiring system in a building, or may be buried in the plaster of a wall, concealed behind an access panel or cast into concrete with only the lid showing. It also includes terminals for joining wires.	Junction Box are no longer required for Solar Installations. All new generation string inverters come with inbuilt AC and DC SPD's, Isolation Switches and are based on Fuse Less design architecture.	Junction boxes shall be provided as per clause 5.4.3. Inverter shall be provided as per clause no. 5.4.7. Tender condition prevails.

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22	5.3.	74-76	General System Design Guidelines	Kindly clarify whether we have to do separate net Metering for all the location?	Bi-directional meter/Net metering is provided at 132 kV level in GMRC Receiving Sub Station at Apparel Park and Gyaspur depot. Separate Solar Meters are required to be installed at each building/as per final design and as per the requirement of DISCOM. Tender condition prevails.
23	5.3 (ii)	75	All evacuation done under the same building i.e 415 V	Please confirm	Referred Clause is self explanatory. Tender condition prevails.
24	5.3.ii)	75	Solar plant on Receiving Substation building, Auxiliary Substation building, Traction Substation building, Maintenance/Inspection office building and Depot Store Building in Apparel Park Depot shall feed AC power to the distribution grid of the Auxiliary Substation, Maintenance/Inspection office, Training Centre and Depot Store Panel and Solar plant on Auxiliary substation building, P-way office building, Canteen building, Admin office building, Depot control centre building and Maintenance office building in Gyaspur depot shall feed AC power to the distribution grid of the Auxiliary Substation/P-way, Maintenance office, Canteen and Admin Panel as per power evacuation and interconnection requirements. The above feeding points to grid may vary as per actual site/technical requirements.	Kindly provide the details of evacuation voltage and distance between the solar plant and power evacuation point for each building. Also, can we do the power evacuation at single point for each site containing the various buildings or we need to do separately for each building.	Refer, clause 5.4.13 for evacuation voltage. Bidders to visit sites for actual distance between the solar plant and power evacuation point for each building. Further, bidders to refer Annexure-A1, Details of Site for building locations. Moreover, refer clause 5.3.ii) for power evacuation point. Tender condition prevails.
25	5.3.viii)	75-76	A weather monitoring system (WMS) shall be installed by the Contractor for measurements of plane and global irradiance, ambient and module temperature, wind etc. these data shall be used for calculating the adjusted NEEGG and performance calculation of solar plant. The weather monitoring system has to be installed on i) any of the Receiving Substation building, Auxiliary Substation building, Traction Substation building, Maintenance/Inspection office building and Depot Store building of Apparel park Depot and ii) on any of the Auxiliary substation building, P-way office building, Canteen building, Admin office building, Depot control centre building and Maintenance office building of Gyaspur Depot, location shall be decided by GMRC/ Engineer. Calibration certificate for WMS from reputed Indian laboratory (like NABL) or foreign laboratory to be furnished.	WMS should not be essential for each building as all buildings are nearby. Instead can GMRC allow two WMS, each at Apparel Park Depot and Gyaspur Depot. Each building WMS will lead to increase final cost.	One WMS shall be installed on any one of the Receiving Substation building, Auxiliary Substation building, Traction Substation building, Maintenance/Inspection office building and Depot Store building of Apparel park Depot and one WMS shall be installed on any one of the Auxiliary substation building, P-way office building, Canteen building, Admin office building, Depot control centre building and Maintenance office building of Gyaspur Depot as per clause 5.3.viii). Tender condition prevails.
26	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	Referred Clause is self explanatory. Tender condition prevails.
27	5.4.1 G-iv	77	IV curves at STC for each PV module should be provided by bidder.	Please confirm, for every module IV is not required	Referred Clause is self explanatory. Tender condition prevails.

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28	5.4.2.i)	79	Hot dip galvanized MS mounting structures (with 1000 gm/m ² zinc mass coating) shall be used for mounting the modules/ panels/arrays...	Standard coating for low height structure is 714 gm/m ² . Which is 100 Micron , Requesting to GMRC to please review this clause.	Galvanization coating as per clause 5.4.2.i) shall be used. Tender condition prevails.
29	5.4.2 (i)	79	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 Please confirm	Galvanization coating as per clause 5.4.2.i) shall be used. Tender condition prevails.
30	5.4.2 (Xii)	80	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	Referred Clause is self explanatory. Tender condition prevails.
31	5.4.2.x)	80	Minimum Distance between terrace/roofs and MMS at lower edge shall be minimum 750/1500mm.	If there is sufficient space on roof and no effect on generation, can this gap be reduce up to 300 mm.Please clarify.	Tender condition prevails.
32	5.4.2.x)	80	Minimum Distance between terrace/roofs and MMS at lower edge shall be minimum 750/1500mm.	The minimum distance is very high. 300mm is a more commercially acceptable clearance.	Tender condition prevails.
33	5.4.2.xii).a.	80	MMS Arrangement & Its Installation procedures a. Mounting arrangement for RCC-flat roofs: With removable concrete ballast made of pre-fabricated PCC (1:2:4), M15; assuring enough ground clearance to prevent damage of the module through water, animals and other environmental factors.	Please note the PCC block should be casted at site. Its incorrect to use Removable Concrete Ballast.	Tender condition prevails.
34	5.4.3 (ii)	81	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.	Referred Clause is self explanatory. Tender condition prevails.
35	5.4.4.	83	DC DISTRIBUTION BOARD	DCDB's are no longer required for Solar Installations. All new generation string inverters come with inbuilt AC and DC SPD's, Isolation Switches and are based on Fuse Less design architecture.	DC Distribution Board shall be provided as per clause 5.4.4. Tender condition prevails.
36	5.4.7.	84-87	PCU/ Inverter 16. LED/LCD Display : Indications: Display shall indicate system functional parameters and protection functional indicator i.e. Inverter ON, Grid ON, Inverter Under/ Overvoltage, Inverter Overload, Inverter Over Temperature, etc.	Please note all new generation Inverters do not have Screen.	Inverter shall be provided as per clause no. 5.4.7. Tender condition prevails.
37	5.4.7.	84-87	vi) In PCU/Inverter, there shall be a direct current isolation provided at the output by means of a suitable isolating transformer. If Isolation Transformer is not incorporated with PCU/Inverter, there shall be a separate Isolation Transformer of suitable rating provided at the output side of PCU/PCU units for capacity more than 100 kW if made mandatory by DISCOM.	Please note all string inverters are based on transformer less design. Hence Isolation Transformer is not required.	Referred Clause is self explanatory. Tender condition prevails.
38	5.4.7 18(ix)	85	Anti Islanding Protection as per the standard	Please confirm	Referred Clause is self explanatory. Tender condition prevails.

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39	5.4.8.	87-88	In case of grid failure, or low or high voltage, solar PV system shall be out of synchronization and shall be disconnected from the 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.	Please share the Details of DG which need to Sync with Solar. Also, please share SLD for both the plants.	One DG set of 630kVA is provided at each site. For further details, bidders are advised to visit sites as per clause 3.3.1. Tender condition prevails.
40	5.4.8	87-88	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...	Required data make, rating, CT rating, or we have to consider new CT for this ?	Installed DG details and rating of CT are as under: Make- M/s Sudhir Power Limited Rating- 630kVA CT rating- 3:1000/5A, 15VA,CL-1 Tender condition prevails.
41	5.4.8	87	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	Refer line 4 and 5 of clause no. 5.4.8, which is self explanatory. Tender condition prevails.
42	5.4.9 (iii)	88	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	Referred Clause is self explanatory. Also, Refer Appendix 16 B to calculate NEEGG based on actual radiation during 05 years O&M period. Tender condition prevails.
43	5.4.9 (V) (L)	89	Total Harmonic distortion	Its not possible to show harmonic distortion on online portal. So please clarify this	Clause is self explanatory. Tender condition prevails.
44	5.4.10.	89-91	TRANSFORMER "IF REQUIRED" & METERING...	Please clarify that termination of solar cable will be in LT panel or HT panel.	Refer clause 5.4.13. Tender condition prevails.
45	5.4.10 ii) & iii)	90	ii) EPC Contractor shall be provided with an energy meter for accurate periodical readings of AC energy generated and fed to the grid. EPC Contractor shall be responsible for inspection, testing and calibration of ABT Meter at the time of installation and also during operation lifetime of Facility. iii) The Bi-Directional electronic energy meter (0.2S class) shall be installed for the measurement of Import/Export of energy. Following GERC's orders on solar metering, solar projects will have "ABT compliant meters at the interface points" and conform to the CEA (Installation and Operation Meters) Regulations, 2006. An energy meter shall be of approved make of the DISCOM and shall conform to the requirements laid down by the CEA's (Installation and Operation of Meters) Regulation, 2010. This shall be inspected, tested and calibrated at the time of installation and also during operation lifetime of power plant.	This clause is clashing with the clause on page no. 69. 5.1.1 A) viii) The nominal steady electrical characteristic of the system are as follows: a. Single/ Three phase AC at 50 Hertz plus or minus 0.5 Hertz b. Nominal voltage of 230 V/415V/11KV with +10% to -12.5% variation. As per our understanding in this project we have to evacuate power in the individual LT Panel through a Solar Generation meter which would be used for the purpose of PR & CUF Calculation. Kindly clarify. Also as confirmed by you in the Pre-Bid Meeting both the locations already have solar Projects and hence Bidirectional ABT meters are already there.	Separate Solar Meters are required to be installed at each building/as per final design and as per the requirement of DISCOM. Evacuation of power to be done as mentioned in clause no. 5.4.13. Further, Bi-directional meter/Net metering is provided at 132 kV level in GMRC Receiving Sub Station at Apparel Park and Gyaspur depot. Tender condition prevails.

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46	5.4.10.iv)	90	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.	Whether we need to install separate meter for each building or we can install single meter for each site containing various buildings.	Separate Solar Meters are required to be installed at each building/as per final design and as per the requirement of DISCOM. Tender condition prevails.
47	5.4.12 viii)	94	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.	Kindly allow use of Aluminium Cable from ACDB to LT Panel as Copper cables are very costly and will increase the cost of the project unnecessarily.	Referred Clause is self explanatory. Tender condition prevails.
48	5.4.12.viii)	94	Cables viii) 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.	Please allow suitable size Aluminium Armoured cables at AC.	Referred Clause is self explanatory. Tender condition prevails.
49	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	Referred Clause is self explanatory. Tender condition prevails.
50	5.4.12.xii).f. & 5.4.12.xiii)	94-95	xii).f. Cables and conduits that have to pass through walls or ceilings shall be taken through a PVC pipe sleeve. xiii) Cable Routing/ Marking: All cable/wires are to be routed in a GI cable tray and suitably tagged and marked with proper manner by good quality ferule or by other means so that the cable easily identified.	What should we consider either PVC pipe or GI cable tray.	Referred Clause is self explanatory. Tender condition prevails.
51	5.4.12 (XV)	95	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 conditon prevails.
52	5.4.12 (XiX & XX)	96	PV module to INV shall not exceed 2% INV to Evacuation point shall not exceed 2%	Please confirm	Referred Clause is self explanatory. Tender condition prevails.
53	5.4.16 i) & ii)	98	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	Referred Clause is self explanatory. Tender condition prevails.
54	6.11.2.i) & ii)	114	i) Delay up to 15 days: Amount of Rs. 22,500/Day shall be deducted as penalty for the first 15 days of delay, calculated on per day basis and proportionate to the capacity not commissioned. ii) Delay of more than 15 days and up to 30 days: Amount of Rs. 36,000/day shall be deducted on per day basis and proportionate to the capacity not commissioned.	Please note since there are 02 locations. We request you to treat LD separately for both the sites.	Referred Clause is self explanatory. Tender condition prevails.
55	6.11.7.	115	For any shortfall in PR (Temperature corrected) below 83% by the Bidder for the second (2) time, a penalty of 1% of the EPC cost of installed capacity of particular plant (including taxes & duties) shall be levied.	Please allow PR of 75% instead of 83% for PR Test which is commercially acceptable PR.	Referred Clause is self explanatory. Tender condition prevails.

BID FOR DESIGN, ENGINEERING, SUPPLY & PROCUREMENT, ERECTION, TESTING, COMMISSIONING AND COMPREHENSIVE OPERATION & 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 (200 KW) OF GUJARAT METRO RAIL CORPORATION (GMRC) LTD, GUJARAT.

GMRC/SYSTEM/RFTP-02(R2)/DEPOT/EW-NS/2023

Sr. no.	Clause no.	Page no.	Tender Clauses	Queries/Concerns	GMRC's clarifications/Response, dated: 21-07-2023
56	Part A	192	Performance Ratio (PR) - Test Procedure 1. Performance Ratio as determined through the PR Test (Temperature corrected) Procedure specified here should not be less than 83% for both site-1 and site-2.	In our experience normally PR of any Solar Plant is in the range of 75% - 78%. (Without any correction of Parameters) We request you to kindly reduce the required cut-off to above mentioned value.	Referred Clause is self explanatory. Tender condition prevails.
57	Tender Name	-	“Design, Engineering, Supply & Procurement, Erection, Testing, Commissioning and Comprehensive Operation & 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 (200 kw) of Gujarat Metro Rail Corporation (GMRC) Ltd, Gujarat”	Please clarify 406 kw capacity is AC or DC	Generation is in AC capacity. Tender condition prevails.
58	-	-	Others	Are Mono crystalline solar modules allowed?	Refer clause no. 5.4.1.ii).b. Tender condition prevails.
59	-	-	Others	What are the working hours for solar installation work?	No restriction on working hours for solar installation work.
60	-	-	Others	Please confirm if we are allowed to install of Metal Sheds instead of RCC rooftops.	No, Tender condition prevails.
61	-	-	Others	We wish to conduct a site survey. You are requested to share contact details of the concerned person available for both sites respectively.	Please forward an email to rag.ladani@gujaratmetrorail.com for site survey, where details of contact persons at each sites will be shared. Also, Refer clause 3.3.1.
62	-	-	Others	As per site visit, we found there will be a shadow effect on our solar system and it will be create issue in Generation performance. Heighted structure will allow GMRC?	Yes, it is allowed with complance to various requirements mentioned in tender documents related to MMS. Moreover, bidders to note that, this is a design and build type contract, where design is in the scope of bidder. Bidders can design their system complying terms mentioned in tender documents.
63	-	-	Others	Water connection on terrace will provide in each & every building for panel cleaning system. GMRC will provide or Not?	Refer clause 6.16.5, which is self explanatory.