

## MUMBAI METRO RAIL CORPORATION LIMITED (MMRC)

(Joint Venture of Govt. of India and Govt. of Maharashtra)

MMRCL Line 3 Transit Office, Wing 'A', 'E' Block, Bandra Kurla Complex, Bandra (East), Mumbai 400051, India.

Invitation for Bids for "Design Engineering Supply Installation Testing Commissioning and Comprehensive Operation and

Maintenance of Roof Top Solar PV Project and associated support structure works on RESCO Model for a Period of 25 Years on Aarey

Station & Depot Buildings of Mumbai Metro Line -3 (MML-3) Project

**Date:** [13<sup>th</sup> January 2025]

NIT/ IFB Number: [MM3-CBS-DEP-SOL] Tender ID: 2024\_MMRCL\_217261\_1

## Addendum No. 1

Sr. No.	Bidding Documents Reference and Clause No.	Amendment
1	NOTICE INVITING TENDER (NIT)/ INVITATION FOR BIDS (IFB), 1.2 Bid Schedule/ Details	Replace   h)   Date and time of submission of Online Bid   16.01.2025 up to 15:00 Hrs     i)   Date & Time of opening of Bid   17.01.2025 at 15:30 Hrs.     (Technical Bid only)       With     Date and time of submission of Online Bid   06.02.2025 up to 15:00 Hrs     i)   Date & Time of opening of Bid   07.02.2025 at 15:30 Hrs.
2.	Part 3-Conditions Of Contract And Contract Forms, Section 9 –Contract Forms Clause 5.2 Metering	Add Point (g) - Purchaser will not provide/construct any structure within its Premises or around its premises which shades the solar panels effecting the generation of the energy during the Agreement period. However, if necessary, it shall be dealt in accordance with Clause 8.3 (k)-Relocation.

Sr. No.	Bidding Documents Reference and Clause No.	Amendment
3	Part 3-Conditions Of Contract And Contract Forms, Section 9 –Contract Forms Clause 5.3 System Disruptions (b)	Replace Sentence To ensure the water proofing a third party inspection jointly with power producer and power purchaser will be conducted annually.  With To ensure the water proofing a joint inspection by power producer and power purchaser will be conducted annually.
4	Part 3-Conditions Of Contract And Contract Forms, Section 9 –Contract Forms Clause 8.3 Purchaser's Covenants	Add Point (k)- Relocation - If one or more of the Solar Power Plant panels needs to be temporarily moved or its generation suspended, for any other reason requested by the Power Purchaser, the Power Purchaser will be responsible for preagreed costs on actuals only, arising from moving, disassembling and re-installing/ commissioning the Solar Power Plant, as agreed between the Parties. The Power Producer will be responsible for providing detailed documentary proof of the actual pre-agreed costs borne for such relocation/disassembling. Within 30 days of these satisfactory documents being provided by the Power Producer, the Purchaser shall reimburse these pre-agreed expenses in full, and delayed payment beyond the date mentioned above will attract Late Payment charges as described in Clause 7.6. During any interruption in generation during such relocation, the Purchaser will continue to be billed as per Deemed Generation, during the period of interruption, for the affected Solar Power Plant(s).
5	Part 3-Conditions Of Contract And Contract Forms, Section 9 –Contract Forms Clause 12.1 Power Producer Defaults and Purchaser Remedies - (a) Power Producer Defaults: point (iv)	Replace Penalty = 2 X (committed generation as per Schedule-IV of PPA – Actual generation during the same period) X (Average cost of electricity from grid per unit at the end of that year applicable to power purchaser – applicable solar power tariff payable to power producer for that year).  With Penalty = 1 X (committed generation as per Schedule-IV of PPA – Actual generation during the same period) X (Average cost of electricity from grid per unit at the end of that year applicable to power purchaser – applicable solar power tariff payable to power producer for that year).

Sr. No.	Bidding Documents Reference and Clause No.	Amendment
6	Bidding Documents Part-II Section 6B: Technical Specification Clause 1.1.2 point (g)- iv	Replace   I-V (Current – Voltage) curves at STC (standard test conditions) should be provided by bidder.   With   I-V (Current – Voltage) curves at STC (standard test conditions) for 10% of each manufacturing lot shall be provided by bidder.
7	Bidding Documents Part-II Section 6B: Technical Specification Clause 2- ARRAY STRUCTURE point (b)	Replace 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 MMRC in compliance to standards governing, as on date like IS-875, NBC etc. Suitable fastening arrangement such as grouting and clamping should be provided to secure the installation against the specific wind speed.
		With 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/ Certified Structural Engineer in this regard and submit wind loading calculation sheet to MMRC in compliance to standards governing, as on date like IS-875, NBC etc.
8	Bidding Documents Part-II Section 6B: Technical Specification Clause 2- ARRAY STRUCTURE point (g)	Replace The total load of the structure (when installed with PV modules) on the terrace should be less than 60 kg/m2.  With The total load of the structure (when installed with PV modules) on the PEB shed should be less than 60 kg/m2. The total load of the structure (when installed with PV modules) on the RCC roof should be less than 75kg/m2.
9	Bidding Documents Part-II Section 6B: Technical Specification Clause 13- CABLES :point (i)	Replace   Shall meet IEC 60227/IS 694, IEC 60502/IS1554 standards   With   Shall meet IEC 60227/IS 694/ IS7098, IEC 60502/ IS1554/ EN50618 Standards

Sr. No.	Bidding Documents Reference and Clause No.	Amendment
10	Bidding Documents Part-II Section 6B: Technical Specification Clause 14- CONNECTIVITY point (b)	Refer Attachment 1 to Addendum 1 for Single Line Diagram for Power evacuation at Station ASS-27, OCC ASS-1 & Depot ASS-2.
11	Part 3-Conditions Of Contract And Contract Forms, Section 9 –Contract Forms Clause 2. Effective Date and Completion period	Replace "Effective Date" means the date of commencement.  With "Effective Date" means the date of signing the CONTRACT AGREEMENT.  Replace in Bid Documents (wherever applicable) Completion period for Design, Engineering, Supply, Installation, Testing, and Commissioning of Roof Top Solar PV shall be 12 months from the Commencement date.  With Completion period for Design, Engineering, Supply, Installation, Testing, and Commissioning of Roof Top Solar PV shall be 12 months from the Effective Date (Date of signing the CONTRACT AGREEMENT).
12	Part 3-Conditions Of Contract And Contract Forms, Section 9 –Contract Forms Clause 3.1 Term	Replace The term of the Agreement shall commence on the Effective Date and shall continue for twenty five (25) years from the Commercial Operations Date (the "Term"), unless and until terminated earlier pursuant to the provisions of the Agreement. After the Term, the ownership of the System shall be transferred to the Purchaser free of cost.  With The term of the Agreement shall commence on the Effective Date and shall continue for twenty five (25) years from the Commercial Operations Date (the "Term"), unless and until terminated earlier pursuant to the provisions of the Agreement. After the Term, the ownership of the System shall be transferred to the Purchaser at a nominal value of Rs.1.

Sr. No.	Bidding Documents Reference and Clause No.	Amendment
13	Part 3-Conditions Of Contract And Contract Forms, Section 9 –Contract Forms Clause 8.3 Purchaser's Covenants point (i) water	Replace Power Producer shall arrange water, as per the requirements of the Power Producer, for periodic cleaning of the solar panels. If water is available with MMRC, the raw water connection point may be provided by MMRC at site. Power Producer obtains water by providing and laying pipes etc, from nearest water connection point made available. Water for cleaning of solar panels shall be made available to developer at chargeable basis. If water is not available with MMRC, the developer has to arrange water for cleaning of solar panels.
		With MMRC will provide the raw water free of cost at an existing source(s) at the premise/site as per availability. The arrangement for conveyance of water at required location shall be made by Power Producer at his own cost. The Power Producer have to install water meter at each site for measuring the water consumed and the information to be shared every month with MMRC. To economize the water consumption the Power producer shall take adequate measures.
14	Part 3-Conditions Of Contract And Contract Forms, Section 7 –General Conditions of Contract Clause 21.2 Early Commissioning	Delete Clause 21.2 Early Commissioning
15	Bidding Documents Part-II Section 6B: Technical Specification Clause 25- INCREASE/ DECREASE OF BIDDER ALLOCATED CAPACITY 25.1	Replace  MMRC reserves the right to increase/decrease the Bidder Allocated Capacity by up to twenty five percent (25%) for each station/site or any other site at the sole discretion of MMRC.  With The Allocated Power Capacity may be decreased up to 25% at the sole discretion of MMRC. However, there is no cap on increased generation capacity.
16	Bidding Documents Part - Section 1 - Instructions to Bidders- A – General Clause 12	Add Point (e)- Employer means Power Purchaser (f) Contractor means Power Producer

Sr. No.	Bidding Documents Reference and Clause No.	Amendment
17	Part 3-Conditions Of Contract And Contract Forms, Section 9 –Contract Forms Clause 7 Tariff and Payment (7.1)	Replace Last Paragraph The Power Producer will bill the Purchaser for each kWh metered as above at the Delivery Point, at the Tariff prevailing at that point of time.  With The Power Producer will bill the Purchaser for each kWh metered as above at the Delivery Point, at the 'Tariff'.
18	Part 3-Conditions Of Contract And Contract Forms, Section 9 –Contract Forms Clause 7.8 Change in Law (vi)	Delete Para (vi) The change in the rate of any existing tax will not be considered a change in law

Place: Mumbai,

Date: 13th January 2025

Sd/-(Praphull Wagh) Chief General Manager /Electrical Mumbai Metro Rail Corporation Ltd.





