

**TENDER NOTIFICATION NO.
MEGA/SYSTEM/RFTP-01/DEPOT/EW/2018**

BID FOR DESIGN, ENGINEERING, SUPPLY & PROCUREMENT, ERECTION, TESTING, COMMISSIONING AND COMPREHENSIVE OPERATION & MAINTENANCE FOR 5 (FIVE) YEARS FOR 200 KW (AC) GRID CONNECTED ROOFTOP SOLAR PHOTOVOLTAIC POWER PROJECT ON ROOFTOP OF ADMIN OCC AND TRAINING CENTRE BUILDING IN APPAREL PARK DEPOT OF METRO LINK EXPRESS FOR GANDHINAGAR AND AHMEDABAD(MEGA) CO. LTD, GUJARAT

TENDER NO.: MEGA/ SYSTEM/RFTP-01/DEPOT/EW/2018

NOTICE INVITING TENDER

Metro-Link Express for Gandhinagar and Ahmedabad (MEGA) Company Ltd.

(A Joint Venture of Govt. of Gujarat and Govt. of India)

Block No.1, First Floor, Karmayogi Bhavan, Behind Nirman Bhavan,
Sector 10/A, Gandhinagar: 382010,
Gujarat, India

Corporate Identification No (CIN): U60200GJ2010SGC059407

Notice Inviting Tender (NIT) Published in Newspaper: PRESS NOTIFICATIONS



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Block No.1, First Floor, KarmayogiBhavan, Behind NirmanBhavan,
Sector 10/A, Gandhinagar: 382010,
Gujarat, India

TENDER NOTIFICATION No: MEGA/SYSTEM/RFTP-01/DEPOT/EW/2018

Dated: 19th November,2018

Sealed Tenders are invited from reputed and experienced contractors for the work of “**Design, Engineering, Supply & Procurement, Erection, Testing, Commissioning and Comprehensive Operation & Maintenance for 5 (Five) Years for 200 KW Grid Connected Rooftop Solar Photovoltaic Power Project on Rooftop of Admin OCC and Training centre Building in Apparel Park Depot of Metro-Link Express for Gandhinagar and Ahmedabad (MEGA) Company Ltd**” The interested Tenderers may purchase the tender documents from MEGA’s office during office working hours between 11=00 AM to 06=00 P.M from 19-11-2018 to 01-12-2018 and between 11=00 A.M. to 12=00 noon on 03-12-2018, on Payment of non-refundable fee of Rs. 5,000/- (Rupees Five thousand) only, in the form of Demand Draft/Pay order/Banker’s Cheque drawn in favour of “Metro-Link Express for Gandhinagar and Ahmedabad (MEGA) Company Ltd.” payable at Gandhinagar (Gujarat).

Any alternations in Eligibility Criteria cum Qualification Requirement, and terms of the Tender Document, or any amendment to the Tender Document, etc. will be uploaded on MEGA’s official website and individually intimated to the tenderers only, who have purchased the Tender Documents, without any obligation or press notification or other proclamation.

For further details including NIT, eligibility criteria, etc. please log on to our web site www.gujaratmetrorail.com.

Sd/-
Managing Director
MEGA, Gandhinagar

TENDER NOTIFICATION NO. MEGA/ SYSTEM/RFTP-01 / DEPOT /EW/2018
Dated: 19th November,2018

NOTICE INVITING TENDER

1.1 GENERAL

Metro-Link Express for Gandhinagar and Ahmedabad (MEGA) Company Limited invites Open Tenders from eligible applicants who fulfil qualification criteria as stipulated in Clause 1.1.3 of NIT, for the work, **“Design, Engineering, Supply & Procurement, Erection, Testing, Commissioning and Comprehensive Operation & Maintenance for 5 (Five) Years for 200 KW Grid Connected Rooftop Solar Photovoltaic Power Project on Rooftop of Admin OCC and Training centre Building in Apparel Park Depot of Metro-Link Express for Gandhinagar and Ahmedabad (Mega) Company Ltd.”**

1.1.1 Name of the Work and Scope of work in brief:

Name: **Design, Engineering, Supply & Procurement, Erection, Testing, Commissioning and Comprehensive Operation & Maintenance for 5 (Five) Years for 200 KW Grid Connected Rooftop Solar Photovoltaic Power Project on Rooftop of Admin OCC and Training centre Building in Apparel Park Depot of Metro-Link Express for Gandhinagar and Ahmedabad (Mega) Company Ltd.**

The scope of work includes,

- i) Design, develop, procure, construct and commission, operate and maintain various roof mounted SPV power packs totalling to capacity of 200 kW (AC), which includes, but is not limited to the following.
 1. Solar PV modules.
 2. Components and parts used in solar PV systems should conform to the BIS or IEC or other international specifications, wherever such specifications are available and applicable.
 3. Mounting frames, structures, array foundation (grouting on terrace), earthing grid design, and module inter-connection.
 4. All System Junction boxes.
 5. Power Conditioning Units (PCU) with monitoring.
 6. MPPT – Max power point tracking built in the PCU
 7. Appropriate AC power evacuation panels or inverters, according to Project Site requirements, with bus bars (in-built or otherwise) and circuit breakers.
 8. 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.
 9. Protection/isolation systems.
 10. Power and Control Cables.
 11. Earthing system for PV Array, DC power system, lightning protection system.

12. Data monitoring system with remote monitoring facilities (Completely in scope of bidder).
 13. Transportation, unloading, and loading of all equipment at Project Site.
 14. Project Management including adherence to all requisite safety practices.
 15. The Project shall be designed and capable of being synchronized and within a frequency range of 47.5 to 52 Hz and voltage of 230V/415V/11kV
 16. Short circuit rating: As a part of the detailed design process, the Solar Company shall calculate the short circuit rating (minimum and maximum), and supply this information to the Procurer
 17. Fire fighting (fire extinguisher and sand bucket with stand)
 18. Making arrangements for module cleaning in the plant area with cleaning mechanism;
- ii) Installation and Commissioning of various roof mounted SPV power packs totalling to capacity of 200 KW, that includes
1. Confirm feasibility of mentioned Solar PV System capacity along with site visit report, design and construction of foundations/grouting for holding module mounting structures without puncturing the roof; maintaining proper drainage of rain water over terrace through the installation area; cable routings through PVC pipes not obstructing the movement on the terrace as per site requirement.
 2. Before commencement of work, the Bidder has to obtain all approvals for related drawings to be obtained from the concerned authorities including GEDA, CEI, DISCOM, MEGA etc..
 3. All drawings shall conform to relevant IS/IEC standards.
 4. Special care to be taken while designing all structures for modules to cater to heavy rainfall, strong winds and earthquake that may be prevalent in the area.
 5. Serial Number (identification mark) must be permanently marked on all major components of the SPV systems and shall be fixed with strong adhesive on each equipment, as approved by MEGA/ GERMI.
 6. Undertake Pre-commissioning and Commissioning of all supplied equipment.
 7. Test running of the grid-connected solar Facility including load trials at Project Site, prior to handover and commencing energy export for metering.
 8. Grid commissioning; the plant needs to be grid interactive. Interconnection points to be checked and certified by MEGA/ GERMI for accuracy and safety.
 9. Installation of Main Meter and Back up Meter shall be done by the EPC Contractor and the EPC Contractor shall submit drawings for grid interface for each individual power pack and get approved prior to commencement of work on Project Site. Necessary approvals and testings of all energy meters shall be as per standards of CEIG/ DISCOM.

10. Commissioning certificate from GERMI & GEDA relevant authorities for the Facility.

iii) General Instructions:

1. Construction water and construction power shall be the responsibility of the EPC Contractor.
2. Security, safety, watch, and ward of all materials at sites shall be the responsibility of the Contractor.
3. The Contractor to obtain comprehensive insurance cover for the Project.
4. Liaison with statutory authorities as applicable for all the Project approvals.
5. Expenses for any other works, supply of material, and providing services required for the successful commissioning and operation of the Facility, but not specifically mentioned in this document.
6. Contractor Safety Management to be strictly complied with by the Contractor throughout Project activity as per safety rules of MEGA.
7. First-aid medical facilities at the Project Site during construction to be provided by the Contractor.
8. All local labour, employment, and other issues shall be handled independently by the Contractor.
9. The entire responsibility and risk relating towards the workforce working at the Project Site, and compliance of different statutory regulations like Workman Compensation Act, ESIC, Factory Act 1948, Contract Labour Regulation, and Abolition Act 1970, Shop and Establishment Act 1948, and other Statutory regulatory bodies shall solely lie with the EPC Contractor. The EPC Contractor shall also be solely responsible for payment of Wages, PF, Bonus, Retrenchment Compensation Leave etc. applicable as per various statutory regulations to their entire workforce, and keep Railways indemnified in this regard against any Claim.

iv) Statutory Clearances:

The following Statutory Clearances to be obtained by the EPC Contractor from CEIG/DISCOM/GEDA as directed by GERMI/ MEGA :

1. Nodel Agency Approval (GEDA Registration)
2. Building and Architectural Drawings approvals from relevant authorities, wherever required
3. Factory inspector approval for drawings, wherever required
4. Electrical system approval (Electrical Inspector)
5. Fire System approval, wherever required
6. DISCOM Approval (Connectivity & Metering)

7. All equipment, accessories, materials, civil construction & erection works should comply with statutory requirements and IS standards.
8. All statutory requirements for working at the project site like labour registration, workman compensation policy, ESIC etc. to be complied with by the Contractor before deployment of resources at the Project Site.

1.1.2 Key Details:

Approximate cost of work	INR 90 Lacs
Completion period of work	30 Days from the date of award
Date of issue of Tender Notification	19-11-2018
Cost of Tender Document	INR 5,000/-(Five thousand) only (Demand Draft in favour of "Metro-Link Express for Gandhinagar and Ahmedabad (MEGA) Company Ltd." payable at Gandhinagar (Gujarat)
Tender Security /EMD Amount	INR 1,00,000/-(Rs. One lakh) only
Date of issue of Tender Document	On all working days between 17-11-2018 to 01-12-2018 (11:00 Hrs to 18:00 Hrs) and on 03-12-2018 (11:00 Hrs to 12:00 Hrs only)
Last date of Submission of Queries/clarifications from Tenderers	26-11-2018
Last Date of Submission of filled-in Tender by Tenderer	03-12-2018 at 15.00 Hrs (IST)
Opening of QCT Package and Tender Security. Financial Package (unopened) will be kept sealed with MEGA	03-12-2018 at 15.30 Hrs (IST)
Authority and place for purchase of tender documents, seeking clarifications and submission of completed tender documents	Sr. DGM (Civil & Procurement) Metro-Link Express for Gandhinagar and Ahmedabad (MEGA) Company Ltd. Block No.1, First Floor, Karmayogi Bhavan, Behind Nirman Bhavan, Sector 10/A, Gandhinagar: 382010, Gujarat, India

Consequent upon the tenderer having deposited the cost of the Tender Documents Rs. 5,000/- (Indian Rupees five thousand only) for the work of "**Design, Engineering, Supply & Procurement, Erection, Testing, Commissioning and Comprehensive Operation & Maintenance for 5 (Five) Years for 200 KW Grid Connected Rooftop Solar Photovoltaic Power Project on Rooftop of Admin OCC and Training centre Building in Apparel Park Depot of Metro-Link Express for Gandhinagar and Ahmedabad (Mega) Company Ltd**"; the tender documents describing the Qualifying requirements, Scope of Work and the Terms and Conditions of Contract, etc. as detailed below shall be issued.

1.1.3 QUALIFICATION CRITERIA

1.1.3.1 GENERAL:

- i. The Bidder shall be a body incorporated in India under the Companies Act, 1956 or 2013 including any amendment thereto. A copy of certificate of incorporation shall be furnished along with the bid in support of above.

1.1.3.2 TECHNICAL

- i. The Bidder shall have an experience of design, supply, erection, commissioning and operation of solar Photovoltaic based grid connected power plant(s) of cumulative installed capacity of **200 KW or above** in India from 1 April 2011 as on the Deadline for Submission of Bid.
- ii. The bidders shall have an experience of design, supply, erection, commissioning and operation of solar Photovoltaic based grid connected power plant(s) capacity of
 - a. **Single Project of 160 kW or above** or
 - b. **Two Projects of 100 kW or above** or
 - c. **Three Projects of 80 kW or above** grid connected solar rooftop Photovoltaic systems except solar lanterns / street light / Standalone system
- iii. 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 which shall be certified from the Developer of that particular solar PV power plant.
- iv. Bidder shall submit, in support to the above, the list of projects commissioned along with their work order/ LOA and the commissioning certificates/ charging certificate from DisCom/ certificate from Third Party Inspector (TPI) of the Work Order issuing entity or any document confirming the commissioning of the plant. In case the Bidder wants to meet the eligibility criterion through its own power plant, then a certificate from Chartered Accountant to that effect will be required to be submitted.

1.1.3.3 FINANCIAL

- i. Average Annual Turnover of the Bidder for last three (3) financial years shall be at least Rupees Three Crore and Fifty Lacs Only (Rs. 3,50,00,000/-).
- ii. The Net Worth of the Bidder shall be Positive any two out of last three years, wherein the Net Worth shall be calculated as follows:
$$\text{Net Worth} = (\text{Equity} + \text{Reserves}) - (\text{Revaluation reserves} + \text{intangible assets} + \text{miscellaneous expenses to the extent not written off} + \text{carried forward losses}).$$

The Bidder shall provide a copy each of audited annual report to ascertain their turnover & net-worth. CA certificate is mandatory and it shall be submitted as per Appendix-13.

- iii. The Bidder shall be submitted Solvency Certificate (Liquidity Certificate) which is certified by Bank as per Appendix 21.
- iv. The Bidder shall submit audited annual report of FYs 2015-16, 2016-17, and 2017-18 (if not audited then certification from Chartered Accountant shall be required).

- v. The Joint Venture (JV) or support from parent company is acceptable for meeting financial criteria only. Joint Venture/support from parent company is considered provided (i) the JV agreement should be made before the Bid submission. (ii) The financial capacity of Technical Partner (the partner of the JV who fulfills the Technical Criteria of this Tender) must be at least 50%. (iii) The JV agreement shall be notarized. (iv) The validity of JV must be initially up to 31.03.2020 and extendable further up to 90 days after completion of O&M Period. (v) For discontinuance of financial partnership/ JV, the approval or permission of MEGA is must. (vi) The Technical Partner must take responsibility for O&M period and all guarantees of that period including necessary Bank Guarantees.
- vi. Also, out of 10% PBG, the Technical Partner shall submit a Bank Guarantee of 7.5% and Financial/Other Partner shall furnish Bank Guarantee of 2.5%.

1.1.3.4 OTHER

- i. 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.
- ii. The agency should have valid license under contract labour regulation and abolition of the Gujarat state or should give an undertaking that he will get himself registered within one month if work is allotted to him.
- iii. A self-attested Undertaking from the Bidder to the effect that the Bidder is not blacklisted from any Public Sector undertakings of Central Govt. / State Govt. /SEBs / Corporations/ MEGA/GERMI/ GEDA/ GUVNL/DISCOMs/ Torrent etc.
- iv. The experience list shall include only projects executed by Bidder himself as a turnkey contractor which shall include entire Engineering, Procurement, Supply & Installation and not as a sub-contractor. The list of project executed shall clearly mention name of the technology partner / licensee agreement company and whether the same is valid as on date with date of expiry.
- v. The Bidder shall ensure that all the information, facts & figures, data provided in the bid are accurate and correct. MEGA reserves the right to confirm / verify any data or information through their own sources. MEGA also may contact directly the references given for the project executed and may also visit the site, manufacturing facilities & sub-vendors works etc., physically to ascertain capabilities of the applicant, if so desire at their own cost. Bidder may have to facilitate MEGA for any such visit.
- vi. The Bidder shall furnish documentary evidence by way of copies of Contract / Purchase Order, Completion Certificate or any other equivalent document, Audited Balance Sheet and Profit & Loss Account etc., along with the Bid to establish experience / track record and financial capabilities meeting Bid Evaluation Criteria.
- vii. The Bidder or its Proprietor / Partner(s) / Director(s) of the Firm should not have been convicted by a Court of Law for an offence involving moral turpitude in relation to business dealings during the past seven (7) years.

1.1.3.5 Evaluation of Bid and selection of Bidder:

- i. Evaluation of both Techno-Commercial (un-priced) bids and priced bids shall be done separately.

- ii. Price Bids of only techno-commercial acceptable bids shall be considered for further evaluation.
- iii. 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.
- iv. Bidders are expected to undertake their own study of solar profile and other related parameters of the area and make sound commercial judgment about power output i.e. Net Electrical Energy Guaranteed Generation. The Site information and solar data provided in this Tender except the reference radiation for the twelve months is only for preliminary information purpose. No claim or compensation shall be entertained on account of this information. It shall be the responsibility of the Bidder to access the corresponding solar insolation values and related factors of solar plant along with expected grid availability. The Bidder should access all related factors about the selected Site for the Project and then quote the NEEGG for the proposed Project.
- v. The Contractor shall be responsible for achieving NEEGG. For any shortfall in NEEGG corresponding to the offer, the compensation shall be recovered from the Contractor as per Clause no. 6.12.2 of RFP. The Contractor shall maintain the Plant equipment including its repair, replacement, overhauling, etc., so as to ensure guaranteed NEEGG per year, for which MEGA shall pay the agreed O&M Contract Price and the applicable taxes. NEEGG guaranteed shall not be construed as limiting value of generation. The Contractor shall maintain such that maximum generation is achieved.
- vi. The Bids with NEEGG of less than or equal to 3,15,360 kWh (Three Lacs Fifteen Thousands Three Hundred Sixty kilo-Watt hours) (Calculated @ 18% CUF for 200 KW Solar PV Power Plant) for the first year shall be summarily rejected.
- vii. The deration in NEEGG quoted for any year shall not be more than 1% of the quoted for the first year. If the Bidder anticipates any degradation of the modules during the first year, it shall be taken care of to provide additional capacity of solar PV modules to meet guaranteed generation at the end of first year to avoid liquidated damages/compensation on account of Performance Guaranteed Generation. The NEEGG of consecutive year should not be more than the previous year's NEEGG. Bids not following these conditions shall be summarily rejected.
- viii. In case the actual installed capacity is more or less 200 kW then NEEGG quoted by the Successful Bidder shall also change on prorata basis.
- ix. This NEEGG shall be used for the evaluation of the Bids as Appendix 6: Bid Evaluation Criteria (BEC) of RFP.
- x. The Bid with the Lowest Evaluated Bid Value (EBV) shall be considered as L-1 (Rs. /KWh) and the Successful Bidder.

1.1.4 Tender Documents comprise:

- Notice Inviting Tender &
- Tender document

- 1.1.5 The contract shall be governed by the documents listed in Para 1.1.4 above and other documents mentioned in these documents.
- 1.1.6 The tenderers may obtain further information/clarification, if any, in respect of these tender documents from the office of Sr.DGM (Civil & Procurement), Metro-Link Express for Gandhinagar and Ahmedabad (MEGA) Company Ltd., Block no.1, First Floor, Karmayogi Bhavan, Behind Nirman Bhavan, Sector 10/A, Gandhinagar – 382010, Gujarat, India. , Gujarat.
- 1.1.7 All tenderers are hereby cautioned that tenders containing any material deviation or reservations as described in RFP of “Instructions to Tenderers” and/or minor deviation without quoting the cost of withdrawal shall be considered as non-responsive and is liable to be rejected.
- 1.1.8 Late tenders (received after date and time of submission of bid) shall not be accepted under any circumstances.
- 1.1.9 Tenders shall be valid for a period of 90 days from the last date of submission of Tenders and shall be accompanied with a Tender Security of the requisite amount as per relevant form of Tender in the form of a Bank Guarantee from Scheduled Commercial Bank in India.
- 1.1.10 MEGA reserves the right to accept or reject any or all proposals without assigning any reasons. No tenderer shall have any cause of action or claim against the MEGA for rejection of his proposal.
- 1.1.11 If any Scheduled event(s) of tender activity falls on public holiday, then the same will be conducted on the next working day at the same mentioned time.
- 1.1.12 Any alterations in Eligibility Criteria cum Qualification Requirement, and terms of the Tender Document, or any amendment to the Tender Document, etc. will be uploaded on MEGA’s official website and individually intimated to the prospective Applicants/Tenderers only, who have purchased the Tender Documents, without any obligation of press notification or other proclamation.
- 1.1.13 The Tenderers may please log on to our web site < www.gujaratmetrorail.com >

Our Contact person for this tender is Sr. DGM – Civil & Proc. with mail-ID snehal.shah@gujaratmetrorail.com

**Sd/-
Managing Director
MEGA, Gandhinagar.**