

MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA), LATUR.
DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE
CONTRACT OF ON-GRID SPV POWER PLANTS CAPACITY OF 198 KWP AT 4 SUB DISTRICT HOSPITALS AND 12 RURAL HOSPITALS IN
NANDED DISTRICT IN THE STATE OF MAHARASHTRA.

**MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA),
DIVISIONAL OFFICE, LATUR**

**Design, manufacture, supply, installation, testing, commissioning with remote
monitoring system 198 KW capacity Grid-connected solar PV power plant
under rooftop net metering system At 4 Sub District Hospitals And 12 Rural
Hospitals in Nanded District in the state of Maharashtra with
comprehensive maintenance contract for 5 years.**



(A Government of Maharashtra Institution)

e- TENDER FOR

**DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING, COMMISSIONING
WITH REMOTE MONITORING SYSTEM OF CUMULATIVE TOTAL 198 KW
CAPACITY GRID- CONNECTED SOLAR PV POWER PLANT UNDER ROOF-TOP
NET METERING SYSTEM AT 4 SUB DISTRICT HOSPITALS AND 12 RURAL
HOSPITALS IN NANDED DISTRICT IN THE STATE OF MAHARASHTRA WITH
COMPREHENSIVE MAINTENANCE CONTRACT FOR 5 YEARS.**

Tender Reference No.: - DGM/SDHRHNANDED/2022-23/02

<https://mahatenders.gov.in>

TENDER DOCUMENT

**Divisional General Manager (Latur)
MAHARASHTRA ENERGY DEVELOPMENT
AGENCY**

SHRI.SHRI. HEIGHTS, FIRST FLOOR, SURVEY NO. 27/A/1, PLOT NO.5, ABOVE IDBI BANK, AUSA ROAD LATUR - 413512

Phone No: - 02382-226680

E-mail ID: - domedalatur@mahauria.com

MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA), LATUR.

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE
CONTRACT OF ON-GRID SPV POWER PLANTS CAPACITY OF 198 KWP AT 4 SUB DISTRICT HOSPITALS AND 12 RURAL HOSPITALS IN
NANDED DISTRICT IN THE STATE OF MAHARASHTRA.

TABLE OF CONTENTS

| Sr. No. | CONTENTS | Page No. |
|----------------------------------------------------------|---------------------------------------------------------------------------|-----------------|
| PART A – TECHNICAL BID | | |
| SECTION-I BID INVITATION | | 4 |
| 1 | Brief Description of the Bidding Process | 4 |
| 2 | Bidding Information | 5 |
| SECTION-II INFORMATION AND INSTRUCTION TO BIDDERS | | 6 |
| 1 | Scope of Work | 7 |
| 2 | Eligibility | 8 |
| 3 | Standards and Certificates | 9 |
| 4 | Instructions | 9 |
| 5 | Cost of Bidding | 10 |
| 6 | Language of Bid | 11 |
| 7 | Documents Comprising the Bid | 11 |
| 8 | Earnest Money Deposit (E.M.D.), Security Deposit and Forfeiting of E.M.D. | 13 |
| 9 | Price Variation | 14 |
| 10 | Jurisdiction | 14 |
| 11 | Period of Validity of Bids | 15 |
| 12 | Mode of submission of Bids | 15 |
| 13 | Deadline for Submission of Bids | 15 |
| 14 | Clarification of Bids | 15 |
| 15 | Pre-Bid Meeting | 15 |
| 16 | Preliminary Examination | 15 |
| 17 | Acceptance or Rejection of Bids | 16 |
| 18 | Criteria for Evaluation of Bids | 16 |
| 19 | Award Criteria- Award of Contract | 17 |
| 20 | Corrupt or Fraudulent Practices | 18 |
| 21 | Terms of Payment | 18 |
| 22 | Time Frame | 19 |
| 23 | Penalty Clause | 20 |
| SECTION - III GENERAL TERMS AND CONDITIONS | | 21 |
| 1 | General Terms and Conditions of Tender | 21 |
| 2 | Communications | 23 |
| 3 | Manner of Execution | 24 |
| 4 | Application | 24 |
| 5 | Standards | 24 |
| 6 | Inspection | 24 |
| 7 | Transportation | 25 |
| 8 | Assignment | 25 |
| 9 | Sub-contracts | 25 |
| 10 | Termination for Default | 25 |
| 11 | Applicable Law | 26 |
| 12 | Notices | 26 |

Signature & Seal
Of Tenderer

MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA), LATUR.

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE
CONTRACT OF ON-GRID SPV POWER PLANTS CAPACITY OF 198 KWP AT 4 SUB DISTRICT HOSPITALS AND 12 RURAL HOSPITALS IN
NANDED DISTRICT IN THE STATE OF MAHARASHTRA.

| | | |
|----------------------------------------------|---------------------------------------------------------------|----|
| 13 | Packing | 26 |
| 14 | Spares & tools-tackles | 27 |
| 15 | Danger Plates | 27 |
| 16 | Control Room | 27 |
| 17 | Insurance | 27 |
| 18 | Grid Connectivity | 28 |
| 19 | Warranties and Guarantees | 28 |
| SECTION - IV: TECHNICAL SPECIFICATION | | 29 |
| 1 | Brief Information About Site | 29 |
| 2 | Technical and General Specifications (198 KWp Grid Connected) | 29 |
| 3 | CMC | 48 |
| ANNEXURE | | |
| 1 | Annexure -A : Quality Certification, Standards And Testing | 50 |
| 2 | Annexure -B : Standard format for Performance Bank Guarantee | 53 |
| FORMAT | | |
| 1 | Format – A Power of Attorney | 55 |
| 2 | Format – B Declaration | 56 |
| 3 | Format – C Banker Details | 57 |
| 4 | Format – D Bidders Information | 58 |
| 5 | Format – E Details of team for after sales support | 59 |
| 6 | Format – F Certificate for Turnover | 60 |
| 7 | Format – G List of Project | 61 |
| 8 | Format – H Site Visit Report | 62 |
| 9 | Format – I Details of Offered SPV System | 63 |
| 10 | Format – J Data for Assured Power Generation | 64 |
| 11 | Check List | 65 |
| PART B – COMMERCIAL BID | | |
| 1 | Format for Financial Bid | 67 |

SECTION-I
BID INVITATION

Brief Description of Tender Process

- **Divisional General Manager, Maharashtra Energy Development Agency, Divisional office Latur,** on behalf of **MEDA (the Employer)**, invites eligible bidder to submit a tender in accordance with the provisions of this Tender Document. In this Tender Document, the term "Bidder", which expression shall, unless repugnant to the context, include all parties who have submitted tender in response to this Tender Document within the stipulated time frame for submission.
- The Bidders shall submit the bids in two parts by following e-tendering process described in tender document. First part comprises of the technical bid and the second part comprise of the financial bid in accordance with this Tender Document.
- In terms of the Tender Document, a Bidder will be required to deposit non- refundable Tender document fee, along with its tender the refundable Earnest Money Deposit (EMD).
- MEDA will open the technical bid of the Bidder, by e-tendering process. The financial bid will be opened of those bidders which will be qualified in the technical bid.

MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA), LATUR.

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE
CONTRACT OF ON-GRID SPV POWER PLANTS CAPACITY OF 198 KWP AT 4 SUB DISTRICT HOSPITALS AND 12 RURAL HOSPITALS IN
NANDED DISTRICT IN THE STATE OF MAHARASHTRA.

BIDDING INFORMATION

| | | |
|-----|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Tender Reference No. | DGM/SDHRHNANDED/2022-23/02 |
| 2. | Tender can be downloaded | From 26/04/2022 to 09/05/2022 |
| 3. | Estimated Cost 198 KWp Grid Connected PV Solar Power Generation Plant | Rs. 91,87,032/- (Rs. Ninety One Lakh Eighty Seven Thousand Thirty Two Only) (The cost is inclusive of all taxes, insurance of 5 yrs net meter charges with 5 years CMC and recharge of RMS wifi for 5 yrs) |
| 4. | Tender document fee | Rs.17,700/- (Rs. Seventeen Thousand seven Hundred Only) including GST (Non-Refundable & Nontransferable) to be submitted online. |
| 5. | Earnest Money Deposit (EMD) | Rs. 1,50,000/- (as per purchase policy dated 1/12/2016) Non-Transferable; to be submitted online; Exemption allowed for MSMEs, having valid certificate issued by MSME for availing exemption. It is mandatory to upload such certificate. |
| 6. | Date & Time of Pre Bid Meeting | All participants are requested to send their queries, if any, domedalatur@mahaurja.com 05/ 05/2022 at 12: 00 p m (O n l i n e) Divisional Office, Maharashtra Energy Development Agency, Latur. |
| 7. | Last date & Time for submission of Bids | 09 /05/2022 At 14: 00 Hrs |
| 8. | Date & Time Of opening Of Technical Bid | 10 /05/2022 At 14:00 Hrs |
| 9. | Security Deposit: | 3% of the Contract Value (NEFT/RTGS) after work acceptance and before placement of LOI/ Work Order. |
| 10. | Address for communication and Venue for Tender opening | MAHARASHTRA ENERGY DEVELOPMENT AGENCY, LATUR. Shri. Shri. Heights, First Floor, S.N. 27/A/1, Plot No. 5 Above IDBI Bank, Ausa Road, Latur-413512 |

Signature & Seal
Of Tenderer

MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA), LATUR.

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE
CONTRACT OF ON-GRID SPV POWER PLANTS CAPACITY OF 198 KWP AT 4 SUB DISTRICT HOSPITALS AND 12 RURAL HOSPITALS IN
NANDED DISTRICT IN THE STATE OF MAHARASHTRA.

- The date & time of opening of Price Bid will be announced later.
- If any technical difficulties arise while filling up e-tender, please contact MEDA.
- It is compulsory to pay tender document fee, EMD through e-payment gateway at <https://mahatenders.gov.in> by **online** only.
- Eligible bidders can upload the Tenders through Maha e-tender portal of GoM:<https://mahatenders.gov.in>
- The Quantity / capacity of the project may increase up to 50% at the sole discretion of Employer.

Signature & Seal
Of Tenderer

MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA), LATUR.

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE
CONTRACT OF ON-GRID SPV POWER PLANTS CAPACITY OF 198 KWP AT 4 SUB DISTRICT HOSPITALS AND 12 RURAL HOSPITALS IN
NANDED DISTRICT IN THE STATE OF MAHARASHTRA.

SECTION-II

INFORMATION AND INSTRUCTION TO BIDDERS

The Divisional General Manager (Divisional Office, Latur), on behalf of **MEDA** (the Employer), invites e-tender from eligible bidders for “works” include Design, Manufacture, Supply, Installation, Testing and Commissioning with five years Comprehensive Maintenance of 198 KW Grid Connected Solar Power Plant at 4 Sub District Hospitals And 12 Rural Hospitals in Nanded District in the state of Maharashtra (Herein after referred to as the contract of works) and as described in the tender document on ‘Turnkey Contracts’ under Tender No: **DGM/SDHRHNADED/2022-23/02**

| Sr.No. | Proposed Project Location | Capacity of Grid- Connected Solar PV Plant | Cost in Rs.(Including Net Meter Charges, System Insurance & RMS WiFi Recharge For 5 Year CMC) |
|--------|-----------------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------------------|
| 1 | Sub District Hospital, Mukhed Dist-Nanded | 15 KW | 91,87,032 |
| 2 | Sub District Hospital, Hadgaon Dist-Nanded | 12 KW | |
| 3 | Sub District Hospital, Gokunda Dist-Nanded | 12 KW | |
| 4 | Sub District Hospital, Degloor Dist-Nanded | 12 KW | |
| 5 | Rural Hospital ,Mandvi Dist- Nanded | 12 KW | |
| 6 | Rural Hospital, Bhokar Dist- Nanded | 12 KW | |
| 7 | Rural Hospital , Barad Dist- Nanded | 12 KW | |
| 8 | Rural Hospital ,Mudhkhed Dist- Nanded | 15 KW | |
| 9 | Rural Hospital ,Umari Dist- Nanded | 12 KW | |
| 10 | Rural Hospital ,Dharmabad Dist- Nanded | 12 KW | |
| 11 | Rural Hospital ,Biloli Dist- Nanded | 12 KW | |

Signature & Seal
Of Tenderer

MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA), LATUR.

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE
CONTRACT OF ON-GRID SPV POWER PLANTS CAPACITY OF 198 KWP AT 4 SUB DISTRICT HOSPITALS AND 12 RURAL HOSPITALS IN
NANDED DISTRICT IN THE STATE OF MAHARASHTRA.

| | | | |
|----|-----------------------------------------------------------|--------|-------------|
| 12 | Rural Hospital ,Naigaon Dist- Nanded | 12 KW | |
| 13 | Rural Hospital ,Himayatnagar Dist- Nanded | 12 KW | |
| 14 | Rural Hospital ,Mahur Dist- Nanded | 12 KW | |
| 15 | Rural Hospital (New Building) , Loha Dist- Nanded | 12 KW | |
| 16 | Rural Hospital ,Khandhar Dist- Nanded | 12 KW | |
| | TOTAL | 198 KW | 91,87,032/- |
| | TOTAL EMD in Rs. (as per purchase policy dated 1/12/2016) | | 1,50,000/- |

Signature & Seal
Of Tenderer

MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA), LATUR.

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE
CONTRACT OF ON-GRID SPV POWER PLANTS CAPACITY OF 198 KWP AT 4 SUB DISTRICT HOSPITALS AND 12 RURAL HOSPITALS IN
NANDED DISTRICT IN THE STATE OF MAHARASHTRA.

1. Scope of Work

- Design, Manufacture, Supply, Installation, Testing and Commissioning with five years comprehensive maintenance contract for 198 KW Grid Connected Solar Power Plants at 4 Sub District Hospitals And 12 Rural Hospitals in Nanded District in the state of Maharashtra on “Turnkey” Contract Basis and as described in the Bidding Document.
- Free replacement of defective components of systems within Comprehensive Maintenance period (CMC) of 5 years after commissioning of the project for efficient running of the system. It is convenient for bidder to quote after the all site visit.
- The Successful bidder should complete this project in given time to get maximum Incentives to the beneficiary. MEDA will not be responsible for receiving no incentives / less incentive to the beneficiary due to delay in project work.
- Detailed planning for smooth execution of project.
- Selected Bidder shall be bound to operate and maintain the system as per the rules, regulations and modalities as prescribed by MNRE and MEDA for the effective functioning of the project.
- Remote Monitoring System (RMS) with 5years recharge plan of WiFi/GSM is necessary to install at the location and provide quarterly generation report upto 5 years after commissioning of project to Divisional Office, MEDA, Latur.
- Successful bidder should be responsible for providing net metering system from MSEDCL. Installation of net metering system is prime responsibility of successful bidder. For this bidder have to submit the application with all necessary documents and fees to MSEDCL. Successful bidder shall provide sealed and tested energy meter at consumption site and generation site of SPV Power Plant along with bidirectional meter.
- These Works are to be carried at 4 Sub District Hospitals And 12 Rural Hospitals in Nanded District in the state of Maharashtra. **Bidder should quote only after the site visit and Upload Site Visit format duly signed by beneficiary and bidder along with GPS photographs.**
- Successful bidder shall obtain the statutory permission and clearances from MSEDCL and other authorities required for successful commissioning of the project.
- **Time is the essence in completing the Works:** The bidder shall ensure that Solar PV Power Generation Plant should be installed within 90 Days at all sites and Net metering installation at all sites should be completed within next 90 Days after installation of SPV plants. However total project completion period should not exceed 180 days.

Signature & Seal
Of Tenderer

MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA), LATUR.

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE
CONTRACT OF ON-GRID SPV POWER PLANTS CAPACITY OF 198 KWP AT 4 SUB DISTRICT HOSPITALS AND 12 RURAL HOSPITALS IN
NANDED DISTRICT IN THE STATE OF MAHARASHTRA.

- Pre-bid meeting shall be the part of Tender document. Decisions taken in the pre-bid meeting will be applicable to the tender. Minutes of pre-bid meeting will be uploaded on web-site. Accordingly, bidders have to quote the price and submit necessary documents with the tender.
- Bids shall be complete and cover all works described in the tender. However, if any item of works required for completing the project shall be deemed to be included in beneficiary scope; irrespective of whether it is specifically mentioned or not in the tender document.
- Bidder should obtain the statutory permissions from statutory bodies wherever required for execution of works.
- Partial bids or bids which do not cover the entire scope of the project will be treated as incomplete and not responsive to the terms and conditions of tender are liable to be rejected.
- Civil structure must be authorized by Chartered Engineer (Civil) and provide structure certificate.
- All EPC work including the transportation of material and machinery to and from the project site will be the responsibility of the Bidder. Bidder shall bear all risk of loss and damage to any part of the solar power plant due to conditions not on account of MEDA and should comply with the standard safety guidelines for all the activities at site.
- Each panel assembly should have at least 4 pedestal support. The minimum spacing between pedestals is 2.0 m c/c in any direction. Each pedestal is made of cement concrete. Each pedestal can transmit at most 200 kg load on roof. The plan dimension of pedestal does not exceed 450mm x 450mm and height does not exceed 300mm.
- The supplier will supply and install required size of water tank, pump, pipe etc. for cleaning the PV modules. Client will provide water piping from source to inlet of such water tank.
- Each panel assembly shall incorporate one bird repellent spike at a level higher than the panel upper edge. The location of the spike should be selected for minimum shadow effect.
- Selected bidder should submit the SLD of project, Cable Layout, Panel Layout, structural layout and material specifications within 7-10 days from the date of allotment of work order for approval from the DGM Office, hence After approval selected bidder will be allowed to start the installation work for the same.
- Selected bidder should provide MNRE Declared/ Approved list of present year 2022-23 for the installation of solar system with indicating the equipments in the Approved list for approval from division office.
- Installed inverter capacity should be equivalent to the solar DC power of plant capacity.
- Selected bidder should follow the MNRE Declared/ Approved list of equipments like inverter, solar panels etc of latest year 2022-23 for the installation of solar system.

Signature & Seal
Of Tenderer

MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA), LATUR.

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE
CONTRACT OF ON-GRID SPV POWER PLANTS CAPACITY OF 198 KWP AT 4 SUB DISTRICT HOSPITALS AND 12 RURAL HOSPITALS IN
NANDED DISTRICT IN THE STATE OF MAHARASHTRA.

- **PRE DISPATCH INSPECTION**

Successful bidder shall inform MEDA for pre dispatch inspection(PDI) at their manufacturing facility or storage place by prior intimation of 15 days. After getting clearance from MEDA supplier may dispatch the material at site And after the pre dispatch inspection bidder can start the work of installation.

2. Eligibility

The bidder shall provide sufficient documentary evidence to satisfy the following conditions:

- Manufacture/supply the material (module & inverter) only as per the standards mention in tender document. They should provide valid IEC certificate of SPV Module & Inverter and test report from authorized test centre of MNRE GoI.
- Bidder shall have the experience for installation & commissioning of grid connected solar power plant for cumulative capacity of 300 kW and a single project of minimum capacity 50 kW installed, commissioned & working successfully for at least one year. Bidder should provide the completion certificates of completed and work orders along with purchase orders of in hand projects.
- Cumulative Annual Turnover of the Company/Firm/Corporation in the last three financial years should be at least Rs. 1,50,00,000/- (Rupees One crore Fifty Lakh only) (This must be the individual Company's turnover and not that of any group of Companies; A summarized sheet of turnover for last three years with average turnover certified by registered CA should be compulsorily enclosed).

Signature & Seal
Of Tenderer

MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA), LATUR.

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE
CONTRACT OF ON-GRID SPV POWER PLANTS CAPACITY OF 198 KWP AT 4 SUB DISTRICT HOSPITALS AND 12 RURAL HOSPITALS IN
NANDED DISTRICT IN THE STATE OF MAHARASHTRA.

3. Standards / Certificates

- The material / equipment / components supplied and works executed under this contract shall be confirmed to the standards mentioned in the technical specification & Annexure - A. Where no standards are mentioned, the latest version of Indian Standard Institution or Bureau of Indian Specification shall be considered.
- The Bidder shall submit all the valid test certificates and reports of the system components following the latest MNRE Guidelines and the same components shall be supplied for which the test reports/certificates are submitted.

4. Instructions

- Bidder shall upload his information, experience certificates, test reports and other such relevant document's specified in the list of other important documents on the portal <https://mahatenders.gov.in>.
- The bidder should visit the site & perform technical survey along with concern persons at 4 Sub District Hospitals And 12 Rural Hospitals in Nanded District in the state of Maharashtra and upload the details of the survey on above portal during filling of tender with survey photographs (with co-ordinates) for proof of survey.
- The technical proposals confirming to eligibility criteria and found satisfactory will be taken up for detailed technical evaluation. A technical evaluation committee shall evaluate the Bids submitted by bidders for detailed scrutiny. During evaluation of the technical bids, MEDA may at its discretion ask the bidders for clarification of their bid.
- In case bidder does not fulfill the technical bid the financial bid shall not be opened & he shall be disqualified from further bidding process.
- Price Proposals of bidders qualifying above conditions shall be subsequently opened. The time and date of the opening of the Price bid shall be intimated at tender web site by MEDA.
- The price bid will be opened in presence of the all technically qualified bidders.

Signature & Seal
Of Tenderer