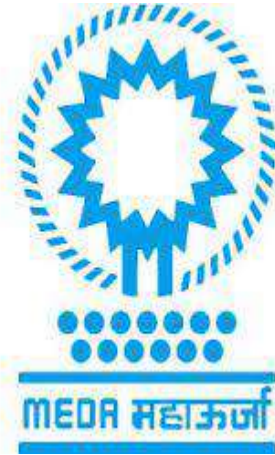


MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA), LATUR.
DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE
CONTRACT OF ON-GRID SPV POWER PLANTS OF CAPACITY 24 KWP(8KWx3) EACH AT TAHASIL NILANGA,TAHASIL SHIRUR ANANTPAL &
TAHSIL DEVANI IN LATUR DISTRICT IN THE STATE OF MAHARASHTRA.

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

**Design, manufacture, supply, installation, testing, commissioning with
remote monitoring system of 24KW (8KWx3) capacity grid connected solar
PV power plant under roof top net metering system each At Tahsil Nilanga,
Tahsil Shirur Anantpal and Tahsil Deoni in Latur District, 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 TOTAL 24KW
(8KWx3) CAPACITY GRID CONNECTED SOLAR PV POWER PLANT UNDER ROOF
TOP NET METERING SYSTEM EACH AT TAHASIL NILANGA, TAHASIL SHIRUR
ANANTPAL & TAHASIL DEVNI IN LATUR DISTRICT, IN THE STATE OF
MAHARASHTRA WITH COMPREHENSIVE MAINTENANCE CONTRACT FOR 5
YEARS.**

Tender Reference No.:-DGM/SOLAR/3TAH/2021-22/14

<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@mahaurja.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 OF CAPACITY 24 KWP(8KWx3) EACH AT TAHASIL NILANGA,TAHASIL SHIRUR ANANTPAL &
TAHSIL DEVANI IN LATUR DISTRICT IN THE STATE OF MAHARASHTRA.

TABLE OF CONTENTS

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

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 OF CAPACITY 24 KWP(8KWx3) EACH AT TAHASIL NILANGA,TAHASIL SHIRUR ANANTPAL &
TAHSIL DEVANI IN LATUR DISTRICT IN THE STATE OF MAHARASHTRA.

13	Packing	25
14	Spares & tools-tackles	26
15	Danger Plates	26
16	Control Room	26
17	Insurance	26
18	Grid Connectivity	27
19	Warranties and Guarantees	27
SECTION-IV: TECHNICAL SPECIFICATION		28
1	Brief Information About Site	28
2	Technical and General Specifications (8KWp Grid Connected)	28
3	CMC	47
ANNEXURE		
1	Annexure-A: Quality Certification, Standards And Testing	49
2	Annexure-B:Standard format for performance bank guaranty	52
FORMAT		
1	Format–A Power of Attorney	54
2	Format–B Declaration	55
3	Format–C Banker Details	56
4	Format–D Bidders Information	57
5	Format–E Details of team for after sales support	58
6	Format–F Certificate for Turnover	59
7	Format–G List of Project	60
8	Format–H Site Visit Report	61
9	Format– I Details of Offered SPV System	62
10	Format–J Data for Assured Power Generation	63
11	Check List	64
PARTB–COMMERCIAL BID		
1	Format for Financial Bid	65

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 there fundable 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 OF CAPACITY 24 KWP(8KWx3) EACH AT TAHASIL NILANGA,TAHASIL SHIRUR ANANTPAL & TAHASIL DEVANI IN LATUR DISTRICT IN THE STATE OF MAHARASHTRA.

BIDDING INFORMATION

1.	Tender Reference No.	DGM/SOLAR/3TAH/2021-22/14
2.	Tender canbe downloaded	From 05/04/2022 to 12/04/2022
3.	Estimated Cost 24KW Grid Connected PV Solar Power Generation Plant	Rs. 11,77,626/- (Rs. Eleven Lakhs seventy seven Thousand Six Hundred Twenty Six Only) (The cost is inclusive of all taxes, RMS wifi recharge for 5 years CMC, insurance of 5 years and net meter charges with 5 years CMC)
4.	Tender document fee	Rs. 5,310/- (Rs. Five Thousand Three Hundred Ten Only Including GST) (Non Refundable & Nontransferable) to be submitted online.
5.	Earnest Money Deposit (EMD)	Rs. 75,000/- (Seventy Five Thousand only) (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 Divisional Office, Maharashtra Energy Development Agency, Latur.
7.	Last date & Time for submission of Bids	12/04/2022 At 14: 00 Hrs
8.	Date & Time Of opening Of Technical Bid	13/04/2022 At 14:00 Hrs
9.	Security Deposit	3% of the Contract Value (NEFT/RTGS) after work acceptance and before placement of LOI/ WorkOrder.
10.	Address for communication and Venuefor Tender opening	MAHARASHTRA ENERGY DEVELOPMENT AGENCY, LATUR. Shri. Shri. Heights, First Floor, S.N.27/A/1, PlotNo.5 Above IDBI Bank, Ausa Road, Latur-413512

- 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>

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 OF CAPACITY 24 KWP(8KWx3) EACH AT TAHASIL NILANGA,TAHASIL SHIRUR ANANTPAL &
TAHSIL DEVANI IN LATUR DISTRICT IN THE STATE OF MAHARASHTRA.**

- The Quantity/capacity of the project may increase up to 9% at the sole discretion of Employer.
-

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 8KW Grid Connected Solar Power Generation Plant Each at Tahsil Nilanga, Tahsil Shirur Anantpal & Tahsil Devni in Latur 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/SOLAR/3TAH/2021-22/14**

1. Scope of Work-

The Scope of works is as below:

- Design, fabrication, supply, installation, testing, commissioning with remote monitoring system of 8kW capacity grid-connected solar PV power plant under roof-top net metering system each at Tahsil Nilanga, Tahsil Shirur Anantpal & Tahsil Devni in Latur District, in the State of Maharashtra with 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 & agreed generation of electricity from the power system.
- Detailed planning with milestone chart for smooth execution of project.
- Selected Bidder(s) shall be bound by operation and management arrangements and rules, regulations and modalities as per MNRE and as established by MEDA and mutually agreed between MEDA and the contract or for effective implementation of the project.
- These Works are to be carried Each at Tahsil Nilanga, Tahsil Shirur Anantpal & Devni Tahsil in Latur District, in the State of Maharashtra. **Bidder should quote only after the site visit and Upload Site Visit format duly signed by beneficiary and MEDA authority along with geotagged photographs in which bidders representative must be present.**
- 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.
- **Time is the essence in completing the Works:** The bidder shall ensure that Solar PV Power Generation Plant should be installed within 90 Days and Net metering installation should be completed within next 90 Days after installation of SPV plants. However total project completion

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 OF CAPACITY 24 KWP(8KWx3) EACH AT TAHASIL NILANGA,TAHASIL SHIRUR ANANTPAL & TAHASIL DEVANI IN LATUR DISTRICT IN THE STATE OF MAHARASHTRA.

period should not exceed 180 days.

- 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 bidder's scope, irrespective of whether it is specifically mentioned or not in the tender document, bidder has to get it done.
- Bidder should obtain the statutory permissions from statutory bodies wherever required for execution of works at his own cost.
- 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 & conditions of tender and are liable to be rejected.
- Selected Bidder is bound to carry out all the procedure related to installation of Net Meter on the Project and has to ensure installation of Net Meter with successful generation of first billing cycle as per site requirement clubbing of energy meters at one place in same premises.
- Pre-bid meeting shall be the part of Tender document. The bidder should attend the pre-bid meeting only after site visit. 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 the necessary documents with the tender.
- The bidder must acknowledge that all the work of the project must be in the observance of licensed electrical contractor. The responsibility of electrical works, safety precautions and safety parameters of the project will be of licensed electrical contractor and awarded bidder, which must as per Standards specified.
- Remote Monitoring System (RMS) with 5 years recharge of WiFi/GSM is necessary to install at the location and provide quarterly generation report upto 5 years after commissioning at Divisional Office, MEDA Latur.
- 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 risks 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.
- The panel assembly should have at least 4 pedestal supports. 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 49 mm x 49

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 OF CAPACITY 24 KWP(8KWx3) EACH AT TAHASIL NILANGA,TAHASIL SHIRUR ANANTPAL & TAHASIL DEVANI IN LATUR DISTRICT IN THE STATE OF MAHARASHTRA.

mm, and height does not exceed 300 mm.

- The Supplier will supply and install required size of Water Tank, pump, pipe etc. for cleaning the PV modules.
- 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 provide MNRE Declared/ Approved list of present year 2021-22 for the installation of solar system with indicating the equipment in the Approved list for approval from division office.
- 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 allowed to start the installation work for the same.
- Selected bidder should provide MNRE Declared/ Approved list of present year 2021-22 for the installation of solar system with indicating the equipments in the Approved list for approval from division office.
- Selected bidder should follow the MNRE Declared/ Approved list of equipments like inverter, solar panels etc of latest year 2021-22 for the installation of solar system.
- Installed inverter capacity should be equivalent to the solar DC power of plant capacity.
- The terms and conditions of tender are liable to be rejected.
- **PRE-DISPATCH INSPECTION**- Successful bidder shall inform MEDA for pre dispatch inspection 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 intender document. They should provide valid IEC certificate of SPV Module & Inverter and test report from authorized test centre of MNRE GoI.

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 OF CAPACITY 24 KWP(8KWx3) EACH AT TAHASIL NILANGA,TAHASIL SHIRUR ANANTPAL & TAHASIL DEVANI IN LATUR DISTRICT IN THE STATE OF MAHARASHTRA.

- Bidder shall have the experience for installation & commissioning of grid connected solar power plant for cumulative minimum capacity of 100 kW and a single project of minimum capacity 10kW installed, commissioned & working successfully. Bidder should provide the completion certificates of completed and work orders of in hand projects.
- Cumulative Annual Turnover of the Company/Firm/Corporation in the last three financial years should be or above than 40,00,000/- (Rupees forty 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).

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 Each at Tahsil Nilanga, Tahsil Shirur Anantpal & Tahsil Deoni in Latur District, in state of Maharashtra and the details of the survey on above portal during filling of tender with survey photographs (with co-ordinates) for proof of survey is mandatory.
- 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.

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 OF CAPACITY 24 KWP(8KWx3) EACH AT TAHASIL NILANGA,TAHASIL SHIRUR ANANTPAL & TAHASIL DEVANI IN LATUR DISTRICT IN THE STATE OF MAHARASHTRA.

- 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.
- Bids submitted without EMD will be rejected. Bidder would need to upload the required documents through electronic mode only.
- The Bidder shall upload copies of
 1. GST registration Certificate
 2. MSME registration
 3. PAN Card
 4. Income Tax Returns of previous three assessment years.
- For any Clarification/online support please contact at mail id:domedalatur@mahaurja.com
- MEDA reserves the right
 1. To reject or accept any or all tenders without assigning any reasons thereof.
 2. The work order is not transferable. Subletting is not allowed.
- MEDA will not entertain any claim at any stage of successful bidder on the pleath at the bidder was not having sufficiently acquainted himself to the site conditions.

5. Cost of Bidding

The bidder shall bear all costs associated with the preparation and submission of bid and MEDA will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

6. Language of Bid

All documents, drawings, instructions, design data, calculations, operation, maintenance and safety manuals, reports, labels and any other data shall be in English Language. The contract agreement and all correspondence between the MEDA and the bidder shall be in English language. Supporting documents and printed literature furnished by the bidder if provided in another language it shall be accompanied by an accurate translation of the relevant passages in the English language duly authenticated and certified by the bidder (exception for bidders from Maharashtra). Supporting materials, which are not translated into English, may not be considered. For the purpose of interpretation and evaluation of the Application, the English language translation shall prevail.

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 OF CAPACITY 24 KWP(8KWx3) EACH AT TAHASIL NILANGA,TAHASIL SHIRUR ANANTPAL & TAHASIL DEVANI IN LATUR DISTRICT IN THE STATE OF MAHARASHTRA.

7. Documents Comprising to the Tender

The tender prepared by the Bidder shall be uploaded in two parts viz. Technical Bid and Financial Bid comprising the following components.

Part I-Technical Proposal:

Bidder shall submit relevant certificates to fulfill the eligibility criteria prescribed in the tender document along with following documents/information.

- Copy of receipt for tender fee
- Copy of receipt for EMD/Valid exemption certificate issued by competent Govt. authority
- Duly stamped and signed tender document (Tender Document)
- Firm registration certificate
- Copy of PAN
- Copy of GST registration
- Power of attorney; for company's authorized person (Refer Format-A)
- Self Certification of No Barr/non failure/blacklisted (Refer Format-B)
- Banker's details of bidder (Refer Format-C)
- Bidder's Information Sheet (Refer Format-D)
- Details of set-up for after sales service (Refer Format-E)
- Financial credentials of bidder (Refer Format - F), along with scanned copy of IT returns for last three financial years, supporting with summery of balance sheet/auditor's report
- Experience for installation and commissioning of solar power plant / list of projects along with work order& purchase order along with Project completion report/commissioning report should be submitted by the bidder.
- Site visit report along with GPS photographs of site (Refer Format-H)
- Details of proposed/offered system (Refer Format-I)
- Details for out-put/power generation–assumed & assured from proposed/offered system (Refer Format-J)
- Brochure for offered PV Module along with test certificates compiling applicable