DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE CONTRACT OF ON-GRID SPV POWER PLANTS CAPACITY OF 120 KWP AT 24 PRIMARY HEALTH CENTERS (PHC) 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 120 KW capacity Grid-connected solar PV power plant under roof-top net metering system at 24 Primary Health Centers (PHC) 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 120 KW CAPACITY GRID- CONNECTED SOLAR PV POWER PLANT UNDER ROOF-TOP NET METERING SYSTEM AT 24 PRIMARY HEALTH CENTERS (PHC) IN NANDED DISTRICT IN THE STATE OF MAHARASTRA WITH COMPREHENSIVE MAINTENANCE CONTRACT FOR 5 YEARS.

Tender Reference No.:- DGM/SOLAR/PHCNANDED/2022-23/01 https://mahatenders.gov.in

## TENDER DOCUMENT

Divisional General Manager (Latur)
MAHARASHTRA ENERGY DEVELOPMENT
AGENCY

SHRLSHRI. 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

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE CONTRACT OF ON-GRID SPV POWER PLANTS CAPACITY OF 120 KWP AT 24 PRIMARY HEALTH CENTERS (PHC) IN NANDED DISTRICT IN THE STATE OF MAHARASHTRA.

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DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE CONTRACT OF ON-GRID SPV POWER PLANTS CAPACITY OF 120 KWP AT 24 PRIMARY HEALTH CENTERS (PHC) IN NANDED DISTRICT IN THE STATE OF MAHARASHTRA.

# **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.

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE CONTRACT OF ON-GRID SPV POWER PLANTS CAPACITY OF 120 KWP AT 24 PRIMARY HEALTH CENTERS (PHC) IN NANDED DISTRICT IN THE STATE OF MAHARASHTRA.

# **BIDDING INFORMATION**

1.	Tender Reference No.	DGM/SOLAR/PHCNANDED/2022-23/01
2.	Tender can be downloaded	From 26/04/2022 to 09/05/2022
3.	Estimated Cost 120 KWp Grid Connected PV Solar Power Generation Plant	Rs. 61,73,731/- (Rs. Sixty One Lakh Seventy Three thousand Seven hundred Thirty One Only) (The cost is inclusive of all taxes, insurance of system for 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 & Non transferable) 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 02/05/2022 at 11:30 am ( 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

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE CONTRACT OF ON-GRID SPV POWER PLANTS CAPACITY OF 120 KWP AT 24 PRIMARY HEALTH CENTERS (PHC) 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.

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE CONTRACT OF ON-GRID SPV POWER PLANTS CAPACITY OF 120 KWP AT 24 PRIMARY HEALTH CENTERS (PHC) 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 120 KW Grid Connected Solar Power Plant at 24 Primary Health Centers (PHC) 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/SOLAR/PHCNANDED/2022-23/01

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	PRIMARY HEALTH CENTER, KARKHELI, TAH-DHARMABAD	5 KW	
2	PRIMARY HEALTH CENTER, SAGROLI, TAH-BILOLI	5 KW	
3	PRIMARY HEALTH CENTER, LOHGAON, TAH-BILOLI	5 KW	
4	PRIMARY HEALTH CENTER, SANKARNAGAR, TAH-BILOLI	5 KW	
5	PRIMARY HEALTH CENTER KUNDALWADI, TAH-BILOLI	5 KW	
6	PRIMARY HEALTH CENTER, KATGAON, TAH-BILOLI	5 KW	
7	PRIMARY HEALTH CENTER, KUNTUR, TAH-NAIGAON	5 KW	61,73,731
8	PRIMARY HEALTH CENTER, CHINCHIRDI, TAH- HIMAYATNAGAR	5 KW	
9	PRIMARY HEALTH CENTER, SARSAM, TAH-HIMAYATNAGAR	5 KW	
10	PRIMARY HEALTH CENTER, ASHTA, TAH-MAHUR	5 KW	
11	PRIMARY HEALTH CENTER, WAI BAZAR, TAH-MAHUR	5 KW	
12	PRIMARY HEALTH CENTER, SINDKHED, TAH-MAHUR	5 KW	

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE CONTRACT OF ON-GRID SPV POWER PLANTS CAPACITY OF 120 KWP AT 24 PRIMARY HEALTH CENTERS (PHC) IN NANDED DISTRICT IN THE STATE OF MAHARASHTRA.

13	PRIMARY HEALTH CENTER, IWLESHWAR TAH-MAHUR	5 KW	
14	PRIMARY HEALTH CENTER, KALMABAR, TAH-LOHA	5 KW	
15	PRIMARY HEALTH CENTER, SONKHED, TAH-LOHA	5 KW	
16	PRIMARY HEALTH CENTER, KAPSHI, TAH-LOHA	5 KW	
17	PRIMARY HEALTH CENTER, MALAKHOLI TAH-LOHA	5 KW	
18	PRIMARY HEALTH CENTER, PENOOR, TAH-LOHA	5 KW	
19	PRIMARY HEALTH CENTER, BHARUL, TAH-KHANDAR	5 KW	
20	PRIMARY HEALTH CENTER, PETHWADAJ, TAH-KHANDAR	5 KW	
21	PRIMARY HEALTH CENTER, KURULA, TAH-KHANDAR	5 KW	
22	PRIMARY HEALTH CENTER, OSMAN NAGAR, TAH-KHANDAR	5 KW	
23	PRIMARY HEALTH CENTER, ARDHAPUR, TAH-ARDHAPUR	5 KW	
24	PRIMARY HEALTH CENTER, MALEGAON, TAH-ARDHAPUR	5 KW	
	TOTAL	120 KW	61,73,731/-
	TOTAL EMD in Rs. (as per purchase policy dated 1/12/2016)		1,50,000/-

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE CONTRACT OF ON-GRID SPV POWER PLANTS CAPACITY OF 120 KWP AT 24 PRIMARY HEALTH CENTERS (PHC) 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 120 KW Grid Connected Solar Power Plants at 24 Primary Health Centers (PHC) 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 5 years 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 24 Primary Health Center (PHC) 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 in which bidders representstive
  must be shown.
- 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.

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE CONTRACT OF ON-GRID SPV POWER PLANTS CAPACITY OF 120 KWP AT 24 PRIMARY HEALTH CENTERS (PHC) 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 complywith 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 incorporated 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 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

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panels etc of latest year 2022-23 for the installation of solar system.

## 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 200 kW and a single project of minimum capacity 10 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. 1,00,00,000/- (Rupees One crore 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).

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WITH FIVE YEARS COMPREHENSIVE MAINTENANCE CONTRACT OF ON-GRID SPV POWER PLANTS CAPACITY OF 120 KWP AT 24 PRIMARY HEALTH CENTERS (PHC) 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 24 Primary
  Health Centers (PHC) 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.