

Request For Proposal

Maharashtra Education Society, Pune

Maharashtra Education Society (MES) is happy to publish the Request For Proposal (RFP) for executing **150 kWp / XX kW** capacity grid connected rooftop PV power plant in MES's campus of Parshuram Hospitals Research Center at Lote, Taluka Khed, District Ratnagiri, Maharashtra. The details and estimated capacity are mentioned in this document.

The bidder should send the techno-commercial offer **latest by 2nd November 2021** to Mr. Sachin Ambardekar on ceo.mes@mespune.in with a copy to our consultant Mr. Arvind Karandikar on arvind@nexusenergy.in. Please enclose all relevant attachments as mentioned below:

- Complete offer including
 - Price for complete job in Indian Rupees for the offered capacity as well as the equivalent rate in Indian Rupees Per Wp (Rs./Wp)
 - Guaranteed time of completion of full project in all respects, excluding net metering approval, for which estimated time must be mentioned
 - Requested payment terms
- Acceptance letter for complete scope of work and all terms and conditions as mentioned in this RFP
- Bidder company profile and track record
- List of previously executed projects of similar nature
- List and details of projects where net metering procedure is completed for commercial or industrial or institutional consumers in Maharashtra
- Bidder contact person name, email ID and numbers
- System performance calculations or proofs (like certificate from the customer / system owner or pre and post electricity bills), wherever possible for three net metered systems of capacity more than 25 kWp

Please understand fully the requirements and scope of work and inherent flexibility in capacity presented in this document. Any technical doubts can be clarified by contacting Mr. Arvind Karandikar of Nexus Energytech Pvt Ltd on arvind@nexusenergy.in. A **site visit is organised on Monday 25th October 2021** for all the bidders, when we will be available on the campus. All bidders should on their own visit the campus and acquaint themselves with the site. However, any bidder, not able to visit on the planned date, may visit the site with prior permission from Mr. Ajit Deshpande on 9975079466 / 8329001280 who is the solar coordinator for the site. It is mandatory that every bidder must have visited the site before submitting the offer for the capacity and complete scope of work. There is no flexibility provided to the bidder to change the capacity, after submitting the offer, based on the reasons related to the site.

For Maharashtra Education Society (MES)

Sd.

Sachin Ambardekar

Chief Executive Officer,

Summary of grid connected rooftop PV system to be executed in the project

Consumer Number	Bill Address	Location	Tariff type and supply voltage	Approximate shadow free area	Desired Capacity	Reason for the desired capacity
221369010500	MES Parshuram Hospitals Research Center	Lote, Tal. Khed, Dist. Ratnagiri, Maharashtra	146 HT-VIII-B / 11KV	1800 Sq M	150 kWp	Energy requirement

Note: The inverter capacity can be lower than array capacity as provided above and bidder must provide logic for the offered inverter capacity along with module and inverter datasheets.

Scope of Work of the Vendor

- ✓ Design, manufacturing, supply, installation and commissioning of proposed grid connected rooftop PV system complete in all respects; indicative Bill of Material provided in the document and bill of quantity to be submitted by the bidder
- ✓ Apply on behalf of MES, follow up and get the net metering approval from MSEDCL authorities
- ✓ Get the system net metered by MSEDCL authorities by completing all necessary formalities and get the final synchronization certificate in the name of the consumer within MES
- ✓ Provide initial layout drawings showing proposed locations of all system components for approval by MES representative and the consultant
- ✓ Provide complete set of handover documents including, but not limited to, system and all components warranty certificates, system monitoring coordinates, final 'as is' drawings including SLDs, after commissioning of the system before release of final payment by MES
- ✓ Coordinate with estate owner / engineer for the campus for actual work permits and applicable terms and conditions (bidder to note that there may be some restrictions during design and working on site as this is a hospital and an educational institute)

Suggested Sequence of work for selected successful vendor

- Accept the work order by signing and submitting the copy
- Arrange for the kick-off meeting with MES authorities wherein work schedule and timeline should be presented and discussed and approved
- Apply on behalf of MES for net metering approval
- Submit and get approved the layout drawings, selected components datasheets and other information as necessary, SLD and other drawings showing all protections like earthings, lightning protection systems and surge protection devices
- Follow up and get approvals from MSEDCL and any other authority as applicable
- Execute the projects including remote monitoring system and get completion certificate from the owner of the campus and the consultant
- Apply, arrange for inspection visits and get net meter installed and system synchronized by MSEDCL
- Submit 'as is' drawings and work completion report and one-month generation data for release of final payment by MES

Indicative Bill of Material

- Solar PV array consisting of required number of Crystalline PV modules – latest technology must be offered
- Grid interactive inverter with Remote Monitoring System
- Module mounting structures suitable to the site
- Junction Boxes – AJB / MJB / SCB / DCDB / ACDB as required
- Minimum 3 earthings (DC, AC and LA)
- Lightning protection system including arrestor and earth wire or flat
- IR/UV protected DC (copper) and AC cables, conduits and accessories
- Required civil work for mounting structure and cable laying wherever necessary
- Required canopy or similar work necessary for inverters and other boxes or components, compulsory for openly installed devices
- Net meter of same accuracy class and capacity as existing consumer meter or as instructed by MSEDCL, including new CT/PT and cubical if necessary
- Any other component or work item as necessary for completing the system

Information and Instruction for vendors for making offer and for executing work

- The system capacity is mentioned in DC, because it is based on energy requirement. If this capacity is not possible due to bidder's own shadow analysis then the offer must mention new DC capacity as well as AC capacity. Others offering given DC capacity must mention offered AC capacity suitable accordingly
- Site visit is being arranged before submission date
- All procedures related to net metering are in the vendor's scope
- Interconnection points and meter locations should be finalised as acceptable to MES and MSEDCL authorities
- All safety measures must be undertaken while working on sites – please note this is a hospital and an educational institute and may have movement of patients or students, so work area always must be marked and cordoned off.
- All component and system technical specifications must be adhering to MNRE, MSEDCL and CEA as applicable
- Solar module make / brand must be selected based on latest offerings in the market. Individual module capacity must be at least 375 Wp. Inverter capacity in relation to array capacity must be according to inverter manufacturer's recommendation.
- The modules must be mounted on fixed tilted structure with optimum tilt angle. The orientation must be True South wherever possible. In some cases, where array areas are not true South, it may be proposed to have maximum possible capacity within given limits, but this needs to be approved by MES and the consultant.

Site Information

Consumer Name	Sanctioned Load (kW)	Contract Demand (KVA)	Approximate Present Tariff (Rs.)
MES Parshuram Hospitals Research Center	275.00	200.00	10.25



All queries should be directed to Mr. Sachin Ambardekar of MES or Mr. Arvind Karandikar of Nexus.