

Goa Energy Development Agency
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No. 1/212/2018-19/GEDA/SPVRTFSP/375

Dated : 06/09/2018

TENDER NOTICE

Member Secretary, Goa Energy Development Agency (GEDA), Panaji, invites the sealed tender for design, fabrication, supply, installation, testing, commissioning along with operation & maintenance for 5 years for 4kWp Solar PV Grid Connected system with Battery Backup at Fire Station, Pilerne, Bardez, Goa from the authorized empanelled vendor with GEDA for the installation of Solar PV Grid Connected Power system.

Sr. No.	Name of Work	Estimated cost	Earnest Money Deposit	Cost of Tender Document
1.	Design, fabrication, supply, installation, testing, commissioning along with operation & maintenance of 4kWp Solar PV Grid Connected system with Battery Backup at Fire Station, Pilerne, Bardez, Goa.	Rs.4,80,000.00	Rs.12,000.00	Rs.2,000/-

TENDER SCHEDULE

1. Sale of Blank Tender "Forms/Document": From 07/09/2018 to 24/09/2018 on working days (10.00Hrs to 16.00Hrs).
2. Last date of submission of Sealed Tender Bids in the GEDA office: 28/09/2018 upto 10.00Hrs.
3. Date of opening of Technical Bids: 28/09/2018 at 11.00Hrs.
4. Date of opening of Financial Bid : 28/09/2018 after the opening of technical bid or next date & time will be communicate to the Technically qualified bidders only

The blank Tender Forms and Tender Document giving detailed description/locations of the said Works will be available at the Office of the Member Secretary, Goa Energy Development Agency, 5th Floor, Goa-IDC Building, Patto, Panaji, Goa – 403001. The Tender document can be made available on production of an application on a 'letter head/plain paper' alongwith the prescribed cost (non-refundable). For more detail please contact GEDA Office or refer our website: www.geda.goa.gov.in

Member Secretary, Goa Energy Development Agency, Panaji, Goa, reserve the right to reject any or all Tenders or modify the selection process without assigning any reason thereof reserved by the

Member Secretary
GEDA

DETAILED TENDER NOTICE

NAME OF WORK DESIGN, FABRICATION, SUPPLY, INSTALLATION, TESTING, COMMISSIONING ALONG WITH OPERATION & MAINTENANCE FOR 5 YEARS FOR 4KW_p SOLAR PV GRID CONNECTED SYSTEM WITH BATTERY BACKUP AT FIRE STATION, PILERNE, BARDEZ, GOA.

1. Eligibility Criteria

- 1.1 Bidder should have been empanelled with GEDA for the installation Solar PV Grid Connected Power system.
- 1.2 Bidder should have experience of designing, fabrication, supply, installation, testing and commissioning of solar PV grid tied systems. The bidder should also have experience of operation & maintenance after sale & services in the field of supply of Grid interactive Solar PV systems.
- 1.3 The bidder should have installed at least one grid connected system minimum capacity of 1kW and above or he should have installed more than 10KW_p cumulative capacity Off-grid solar PV system in the last one year.
- 1.4 The bidder should be financially sound to execute the contract arising out of this Tender. The overall average annual turnover of the bidder in the last two financial years ending March, 2018 should be at least Rs.10.00 Lakhs.
- 1.5 The bidder should have service centre or his authorized qualified staff within a radius of 50 KM after the installation of system.
- 1.6 All above criteria should be strictly followed. Bidder should quote only if he is eligible.

2. Scope of Work

The broad scope of the work would include design, fabrication, supply, installation, testing, commissioning along with operation & maintenance for 5 years for 4kW Solar PV Grid Connected system with Battery Backup at Fire Station, Pilerne, Bardez, Goa. This would inter-alia include:

- 2.1 The bidder should visit the site to understand and get idea of actual site conditions. The bidders are required to inform GEDA Office prior to visit the site.
- 2.2 The supplied materials should strictly comply with the specifications as mentioned in the bid; otherwise the material would be liable for rejection.
- 2.3 The solar panels are required to be installed above the Mangalore tiles which are mounted on the RCC terrace of the building with proper arrangement of structure for fixing the solar panels. The solar structure used for this purpose should be made of steel angles & channels spray galvanized. Suitable railing should be provided in between the solar PV panels for cleaning & maintenance purpose.
- 2.4 All fasteners, nuts, bolts, washers, screws etc used for installation of the solar project should be of Stainless steel.
- 2.5 No damage in any way should be caused to the building while installation of Solar PV panels or any other equipment. If any damage done it will wholly be the responsibility of the bidder and cost shall be recovered from the bidder.

- 2.6 The Solar panels should be installed at a suitable inclination to maximize annual energy output, withstand wind speeds up to 150 Km/hr and arrangement should be made for easy accessibility at all location for periodic cleaning & maintenance.
- 2.7 All works required for proper installation of Solar PV Power system including necessary civil and welding works for mounting structures of solar module shall be done by the bidder. The entire work shall be performed on turnkey basis. All the works related to the proper installation and functioning of the system shall have to be carried out by the bidder in the prices offered by him.
- 2.8 Bidder should provide sealed & tested Bidirectional Net Energy meter and solar generation meter as per specification of JERC Regulation 2015 or as provided EDG and as amended from time to time. The Bidirectional Net Energy meter should be installed at consumption side & unidirectional meter at each generation side of SPV Power Plant. Both the meters should be tested in the MRT Division of the EDG.
- 2.9 All necessary electrical wiring for the dedicated load from electrical distribution box up to PCUs of Solar PV Power Plant shall have to be provided by the bidder.
- 2.10 Any additional works not covered above, but necessary for the functioning of the system and required as per specification shall be incorporated in the work and executed by the bidder. The items of minor nature, which are not mentioned should be mentioned and shall be incorporated by the bidder.
- 2.11 All the information furnished and document produced with the Tender shall be in English language only. The Tender notice and Tender document shall form a part of contract agreement.
- 2.12 The SPV panels to be used for the installation of 4kWp systems should be indigenous & the other components of the system can be imported.
- 2.13 The total aggregated installed Solar PV panels should be 4kWp or more. Less than 4kWp will not be acceptable.
- 2.14 The Operation & Maintenance of Solar Photovoltaic Power Plant would include periodic cleaning of solar panels, topping up of batteries, wear, tear, overhauling, machine breakdown, insurance, and replacement of defective modules/invertors/Power Conditioning Unit (PCU), spares, consumables & other parts for a period of 5 years from the date of commissioning of the plant.
- 2.15 The necessary plumbing work and permanent fixed suitable staircase if required for the cleaning of solar PV panels will have to be made available at the site by the bidder.
- 2.16 Any clarification on the technical specification and general terms and conditions may be clarified in writing from GEDA before the submission of Bid.
- 2.17 The successful bidder requires submitting the single line diagram of the 4kWp system at GEDA Office before the commencement of the work.