

**ELIGIBILITY CRITERIA:**

**A) TECHNICAL ELIGIBILITY CONDITIONS:**

**Bidder must fulfill following criteria:-**

1. The Bidder should be a Company / Firm / Corporation, incorporated in India under the Companies Act, 1956 or 2013 and having experience in Design, Supply, and Installation & Commissioning of Solar Power Plants.

OR

A Limited Liability Partnership Firm (LLP) registered under section 12 of Limited Liability Partnership Act, 2008 and having experience in Installation & Commissioning of Solar Power Plants.

2. Experience of having successfully completed similar works during last 7 years ending last day of month previous to the one in which applications are invited should be either of the following:

- a) Three similar completed works costing not less than the amount equal to 40% of the estimated cost (Rs. 40.00 Lacs).

OR

- b) Two similar completed works costing not less than the amount equal to 50% of the estimated cost (Rs. 50.00 Lacs).

OR

- c) One similar completed work costing not less than the amount equal to 80% of the estimated cost (Rs. 80.00 Lacs).

➤ **Similar work means installation of grid connected SPV Power Plant.**

2. Out of above mentioned installation, at least one solar PV plant should have been of individual capacity not less than 300 kWp connected with grid in a single work order. The required work order and completion certificate is required in this matter.
3. The Bidder should have executed work at Electrical Sub-station of 11 kV / 33 kV or above voltage level, consisting of equipment such as 11 kV / 33 kV or above voltage level circuit breakers and transformer, either as developer or as EPC Contractor. The required work order and completion certificate is required in this matter.

**B) FINANCIAL ELIGIBILITY CONDITIONS:-**

1. Average Annual Financial Turnover during the last 3 years, ending 31<sup>st</sup> March of the previous financial year (2021-22), should be at least 30% of the estimated cost.
2. The bidder should have adequate financial resources or should have sufficient resources audited financial statement to undertake the contract. Below mentioned documents are required:

Letter from a Financial Institution that it is willing to fund the project.

OR

Declaration on bidder's letter head (in case the bidder wish to use the internal resources for funds / shall be furnished).

**Bidder should submit following documents along with Technical bid:-**

1. Company Incorporation Certificate / Company Registration Certificate.
2. Balance sheet & ITR for last three years i.e. 2019-20, 2020-21 & 2021-22.
3. Turnover and Positive Net worth value duly certified by CA.
4. Past Experience details as per technical eligibility asked in the NIT. (Kindly attach verified documents from customer such as Work Order, Completion Certificate)
5. Photocopy of GST Registration no. & PAN no.
6. Any other relevant documents

**(C) OTHER CONDITIONS:**

- a) **Responsibility for executing Contract:** The contractor is to be entirely responsible for the execution of the contract in all respects in accordance with the terms and conditions as specified in the acceptance of tender.
- b) The contractor shall not sublet transfer or assign the contract to any part thereof without the written permission of the Addl. General Manager (MM). In the event of the contractor contravening this condition, Addl. General Manager (MM) be entitled to place the contract elsewhere on the contractors account at his risk and the contractor shall be liable for any loss or damage, which the Addl. General Manager (MM), may sustain in consequence or arising out of such replacing of the contract.
- c) **Document:** The bidder should have a valid **PAN / TAN /GST NO & other statutory document as applicable** and produce attested copies of such certificates along with the tender papers in Technical Bid, failing which the tender is liable to be rejected. Check list be attached.
- d) **Right to accept / reject:** REIL reserves the right to reject any or all tender without assigning any reason whatsoever. Also, the REIL authority reserves the right to **award** any or part or full contract to any successful agency at its discretion and this will be binding on the bidder.
- e) The capacity of SPV Power Plant shown in the tender can be increased or decreased to any extent depending upon the actual requirement.
- f) **Assistance to contractor:** The contractor shall not be entitled for assistance either, in the procurement of raw materials required for the fulfillment of the contract or in the securing of transport facilities.

**D) Electrical Contractor License**

- The work shall be carried out by the contractor, having valid Electrical Contractor License for carrying out installation work under the direct supervision of the persons holding valid certificates of competency issued by the State Government. The same shall be submitted to REIL by successful bidder after placement of work order.
- The successful BIDDER shall furnish the names and particulars of the certificate of competency of supervisor and workmen to be engaged for carrying out this work.

**E) PRICES:**

- a. Prices are to be quoted **in Indian Rupees.**
- b. Prices quoted in the Price/Financial Bid must be meaningful and measurable in the context.
- c. Price must be quoted in original sheet of BOQ failing which the same is liable to be rejected
- d. Offer shall be valid for 60 days from the date of bid opening

## SCOPE OF WORK OF CONTRACTOR

### A. PROJECT DESCRIPTION

GAIL had awarded the work of Check Survey, Design, Engineering, Procurement, Supply, Construction, Erection, Testing, Commissioning and including 2 years comprehensive O&M of 2.64MWp (DC) cumulative capacity Grid Connected Rooftop Solar PV Power Plants at site in District Auraiya (UP). Out of the project, the status is as under:

| S. No. | Set Name     | SPV Power Plant Capacity | Status as on date  |
|--------|--------------|--------------------------|--|
| 1.     | Set-4        | 182 kWp                  | Installed and Commissioned in all aspects / pending work is ladder supply and installation at 04 nos. buildings                          |
| 2.     | Set-3        | 300 kWp                  | Installed and Commissioned in all aspects / pending work is ladder supply and installation at 04 nos. buildings                          |
| 3.     | Set-2        | 798 kWp                  | Installed and Commissioned in all aspects / pending work is installation of walkways, ladder supply and installation at 01 nos. building |
| 4.     | Set-1        | 1361 kWp                 | 1050 kWp SPV Modules & MMS installed / balance work is pending   |
|        | <b>Total</b> | <b>2641 kWp</b>          |  |

REIL has floated the tender for completion of these balance work against the project.

### Site Access Details:

| Particulars              | Description                             |
|--------------------------|---|
| District                 | Auraiya                                 |
| State                    | Uttar Pradesh                           |
| Nearest City             | Kanpur, 85 Kms by Rail & 120Kms By Road |
| Nearest Highway          | NH-2                                    |
| Nearest Railway Station  | Phaphund, around 5 kms.                 |
| Nearest Domestic Airport | Amausi, at a distance of about 200 kms  |

**Meteorological Parameters:**

|  |                          |
|--|--------------------------|
| Elevation above mean sea level, m      | 139.5                    |
| Max. ambient temperature               | 45° C max.               |
| Min. ambient temperature               | 8° C min.                |
| Average daily ambient air temperature  | 25.3° C                  |
| Max. Relative Humidity (%)             | 65                       |
| Average Annual rainfall (mm)           | Approx.670.3 mm per Year |
| Average normal annual wind velocity    | 7 km/h                   |
| Isoceraunic level (days per year)      | 15.1                     |
| Seismic level(Horizontal acceleration) | 0.1 (Zone-II)            |
| Average number of rainy days/ year     | 70                       |
| Average UV Index                       | 7                        |

**B. Detailed Scope of Work of Successful Contractor:**

1. Preparation of drawings for Set-1 Project i.e. Array Layout, SLD, E-Tap Report, Cable Routing, Remote monitoring scheme etc.
2. Installation of approx. 310-330 kWp Module Mounting Structures & SPV Modules on 02 nos. sheds at Set-1 location. MMS Material & 380 Wp SPV Modules are available at site. However, hardware may be required at site. Party has to provide the same.
3. Relocating of approx. 50-70 kWp MMS & SPV Modules (already installed) at Set-1 buildings considering module cleaning during O&M period.
4. Supply and installation of approx. 1 km walkways (As per specification provided in tender) on 6 nos. of Set-1 buildings.
5. Supply and Installation of Module Cleaning arrangements (pipes, Motor-pump set, Tanks etc.) for complete 1361 kWp SPV Power Plant.
6. Installation of DC wiring of 04 nos. sheds of approx. 800 kWp SPV Power Plant. Material is available at site. DWC Pipes (Conduit) shall be supplied by contractor for 1361 kWp SPV Power Plant.
7. Supply and Installation of AC Cabling for complete 1361 kWp SPV Power Plant at Set-1. Cable trays shall be in the scope of contractor.
8. Supply of 03 nos. ACDBs & one main LT Panel and installation of the same at site.

9. Approx. 40 nos. earthings at Set-1 sites for Inverters, MMS, LAs & ACDBs. Earth rod & chemical is available at site for 20 nos. earthing. Remaining material will be in contractor scope. Earth Pits will be required for all 40 nos. earthings.
10. Supply & installation of 06 nos. ESE type Lightning Arrestor at site.
11. Supply & installation of Weather monitoring Systems (WMS) & SCADA at site.
12. Installation of Transformer outside of Control Room Building & HT Panels inside the Control Room Building. The control room building is under construction by REIL and Transformer foundation & fencing shall also be done by REIL itself. HT Panel (Switchgear 33 kV) and Transformer (1500 kVA) has been supplied at site by REIL.
13. Supply and installation of HT Cable (33 kV) upto end termination.
14. Existing 4P Structure to be dismantled and all existing 33KV cables to be re-routed to new Substation, and terminated at proposed new indoor type HT Switchboard.
15. Supply and installation of fire fighting equipments at Set-1.
16. Supply and installation of 1.5 km auxiliary cable from substation.
17. Getting CEA approval is in the scope of contractor.
18. Commissioning of Set-1 plant of 1361 kWp capacity.
19. Complete Electrical Wiring of MCR building shall be in the contractor scope. MCR building Construction work is not in contractor scope. MCR building size is 15 meter X 11 meter (165 Sq meter).
20. In MCR building Furniture, Lightings, Fans, Air Conditioner will be supplied and installed by Contractor.
21. Installation of walkways on Set-2 sheds (one shed only of 800 kWp capacity). Plant is already installed and commissioned. Only walkway installation is pending. Walkway Material is available at site.
22. Supply and installation of total 15 nos. ladders for all 04 sets as per specifications provided in tender (Approx. weight 25 tonne for all 15 nos. ladders)
23. Deputation of a competent graduate engineer having relevant experience to supervise the work till completion of commissioning work of Set-1.
24. 02 years O&M of complete 2641 kWp SPV Power Plant (for all 4 sets). CUF & PR to be achieved as mentioned in tender documents.
25. Contractor shall arrange a temporary office setup in GAIL Premises for