

DEENDAYAL PORT AUTHORITY

An ISO 9001 : 2008 & ISO 14001 : 2004 Certified Port



Office of Chief Mechanical Engineer,
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Kutch 370210
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EI/WK/2917

Date: 06.06.2026

BUDGETARY ENQUIRY



For

"SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF ON-GRID 5 KW SOLAR TREE. "



1. Introduction

Deendayal Port Authority (DPA) intends to establish a 5 KW On-Grid Solar Tree within DPA premises. The proposed On-Grid 5 KW Solar Tree shall include complete electrical systems, safety systems. The project shall be executed at Administrative building DPA on the basis including supply, installation, testing & commissioning.

2. Purpose of Budgetary Enquiry

This budgetary enquiry is issued solely for the purpose of obtaining indicative cost estimates for planning and budgeting. This document shall NOT be treated as a Tender or Request for Proposal (RFP). Submission of budgetary offers does not confer any right for award of work. Deendayal Port Authority (DPA) reserves the right to initiate a separate tendering process in future. No contractual obligation shall arise from this enquiry.

3. Scope of Work

The work shall be executed at Administrative building DPA and shall include, but not be limited to:

- Basic & Detailed Engineering
- Procurement & Supply of Equipment
- Design, Supply & Installation of 5 KW Solar Tree
- Structural Works
- Testing & Commissioning
- Documentation

4. Estimated Quantities (Summary)

| Sr. No | Description | Qty |
|--------|-------------|-----|
|--------|-------------|-----|

| | | |
|---|--|--------|
| 1 | Supply, Installation, Testing and Commissioning of complete On-Grid 5 KW Solar Tree including Electrical Systems and all associated accessories. | 2 Nos. |
|---|--|--------|

5. Submission of Budgetary Offer

Interested firms are requested to submit their budgetary quotation including:

- Indicative project cost
- Detailed cost break-up
- Technical assumptions and deviations (if any)

6. Submission Deadline:

On or before: 17.06.2026

7. Mode of Submission:

Email: cme@deendayalport.gov.in

Hard copy: Office of Chief Mechanical Engineer, DPA

8. Time period:

Project completion period shall be 03 months.

9. General Notes

- Prices shall be reasonable and competitive inclusive all taxes, duties and incidentals, excluding GST.
- GST applicability shall be clearly mentioned
- Any assumptions/conditions shall be clearly stated
- DPA may seek clarifications, if required

10. Contact for Clarification

Office of Chief Mechanical Engineer

Deendayal Port Authority

Email: cme@deendayalport.gov.in

Enclosures:

- Detailed Scope of Work (Annexure-I)
- Detailed Price Break up (Annexure-II)

-Sd/-
Chief Mechanical Engineer
Deendayal Port Authority

Detailed Scope of work

Deendayal Port Authority (DPA) is envisaging to set up an On-Grid Solar Tree. The On-Grid Solar Tree capacity is envisaged as 5 KW. This document pertains to the Technical Specification of the 5 KW On-Grid Solar Tree.

| 5 KW Solar Tree | |
|-----------------------------------|--|
| Description | Technical Specification |
| Nominal Power Output | 4.95 kWp |
| System Type | On-Grid Solar Tree |
| Panel Rating | 545 / 550 Wp |
| Number of Panels | 9 Nos. |
| Panel Make | Waaree Energies, Adani Solar, Tata Power Solar, Vikram Solar, and Loom Solar |
| Panel Type | MonoPERC |
| Panel Performance Warranty | 25 Years |
| Inverter Type | On-Grid |
| Inverter Capacity | 5 kW |
| Inverter Make | SUKAM / MICROTEK |
| Inverter Warranty | 5 Years |
| Height Clearance | Front 4 m / Back up to 6 m |
| Top Diameter (Approx.) | 8 Meter |
| Foundation Size (PCC) | 3 m × 3 m × 2.5 m Depth |
| Foundation Column Size | 600 × 600 mm |
| AC Cable Length | Up to 50 Meter |
| DCDB | 1 No. |
| ACDB | 1 No. |
| Bidirectional Meter | 1 No. |
| Check Meter | 1 No. |
| Foundation Curing Time | Minimum 15 Days |

1.1. The scope of work/Deliverables of Contractor

1. The scope of Contractor shall include supply, erection, testing, commissioning, documentation required for successful completion of project.
2. The Contractor shall coordinate with DPA, technology licensor and other associated agencies during engineering, construction and commissioning stages for successful execution of the project.
3. Civil and structural construction works based on approved drawings and engineering inputs submitted by Contractor shall be executed by DPA. Contractor shall provide all necessary engineering inputs, drawings and technical support required for execution of such works.

1.2. The scope of work/Deliverables of Contractor

1. Supply, Installation, Testing and Commissioning of the complete On-Grid Solar Tree shall be within the scope of the Contractor.
2. Any item, system, equipment, component or service required for On-Grid Solar Tree shall be deemed to be included in the scope of the Contractor whether specifically mentioned or not.
3. Payment of any Cost / Charges / Fees towards Registration in GEDA, Energy Meter of PGVCL, Net Meter Agreement etc. will be in scope of Contractor. Any required liaison, submission & getting approval of document from CEI/GEDA/PGVCL for successful commissioning of the work of 5 KW Solar Tree at Deendayal Port Authority will be in scope of Contractor.
4. The contractor shall arrange all types of tools, tackles, scaffoldings, temporary power supply at his own cost for installation, testing & commissioning of the work. The contractor shall submit layout colored drawing of complete Solar Tree in two set hard copy & soft copy after completion of work to DPA. The work shall be executed to the satisfaction of the Engineer in-Charge.

2. CIVIL & STRUCTURAL ENGINEERING

The scope of Civil & Structural Engineering shall include complete design, engineering, detailing, review and preparation of drawings and engineering documents required for execution of civil, structural works associated with the Solar tree. The scope shall include, but not be limited to, the following:

1. Preparation and updating of design basis for civil, structural works and obtaining approval from DPA.
2. Preparation of design and construction drawings for RCC works, structural steel works.

3. ELECTRICAL ENGINEERING

The scope of Electrical Engineering shall include complete electrical system design, drawings, specifications and associated engineering activities required for On-Grid Solar Tree. The scope shall include, but not be limited to, the following:

1. Preparation of Lightning Protection and Earthing Study for complete Solar Tree and associated systems.
2. Preparation of technical specifications for Solar Panel, Inverter and associated electrical equipment.
3. Preparation of electrical cable sizing calculations, technical specifications and cable schedules.
4. Preparation of schematic diagrams and protection systems.
5. Design and layout of electrical systems associated with power supply systems, grounding arrangements, junction box locations and associated systems.

4. COMMISSIONING

Commissioning of the On-Grid Solar Tree shall be within the scope of the Contractor. The scope shall include complete planning, coordination, supervision, testing, troubleshooting and associated activities required for successful commissioning of the On-Grid Solar Tree.

The scope of Commissioning shall include, but not be limited to, the following:

1. Preparation of commissioning, testing for Solar Tree and equipment, wherever required, shall be within the scope of the contractor.
2. Preparation and finalization of detailed Commissioning Plan and commissioning schedules and obtaining approval from DPA shall be within the scope of the contractor.

The scope under this section shall include, but not be limited to, the following:

1. Overall planning, coordination and execution of testing, commissioning activities, issue of commissioning certificates and successful completion of Performance Acceptance Test / Provisional Acceptance Certificate (PAC) jointly with DPA shall be within the scope of the contractor.

Annexure-II: Detailed Price Break up

| Sr. No. | Description | Unit | Qty | Unit Rate | Amount |
|----------------|--|-------------|------------|------------------|---------------|
| 1 | Supply, Installation, Testing and Commissioning of complete On-Grid 5 KW Solar Tree including Electrical Systems and all associated accessories. | Nos. | 2 | | |

Note:

- a. Rates quoted shall be inclusive of complete Supply, Installation, testing and commissioning as specified in the scope of work.
- b. GST shall be paid extra as applicable.
- c. Any item or service required for complete On-Grid Solar Tree shall be deemed to be included in the quoted rates whether specifically mentioned or not.
- d. Quantities indicated in Schedule-B are tentative and for budgetary estimation purpose only.