



Prof. C. C. Mehta Auditorium
The Maharaja Sayajirao University of Baroda
Vadodara.

પ્રો. સી. સી. મહેતા ઓડિટોરિયમ ખાતે આવેલ ૧૩૦ kWp સોલાર પીવી પ્લાન્ટના રિપેરિંગ, સ્પેસ પાર્ટ્સ બદલવા અને રિ-કમિશનિંગ માટે અનુભવી એજન્સીઓ પાસેથી સીલબંધ ક્વરમાં ભાવો મંગાવવામાં આવે છે, જેની વિગતવાર માહિતી યુનિવર્સિટીની વેબસાઇટ પર ઉપલબ્ધ છે.

રસ ધરાવતા વિદ્યાર્થીઓએ પોતાના સીલબંધ ભાવપત્રકો જરૂરી ડોક્યુમેન્ટ્સ સાથે તારીખ ૨૫/૦૮/૨૦૨૬ ના રોજ બપોરે ૨:૦૦ વાગ્યા સુધીમાં અથવા તે પહેલાં પ્રોફેસર સી. સી. મહેતા ઓડિટોરિયમ, ડી. એન. હોલ ગ્રાઉન્ડ પાસે, પ્રતાપગંજ, વડોદરા - ૩૯૦૦૦૨ ખાતે રૂબરૂ અથવા ટપાલ દ્વારા જમા કરાવવાના રહેશે.

Link:

Coordinator – Prof. C. C. Mehta Auditorium – MSU

Detailed Tender Document & Notice

For the Repair, Component Replacement, and Re-Commissioning of the 130 kWp Rooftop Solar PV Plant at Prof. C. C. Mehta Auditorium

Location: Prof. C. C. Mehta Auditorium, D. N. Hall Campus, Pratapgunj, Vadodara, Gujarat – 390002.

1. Technical Specifications & Scope of Work

A. General System Overview

- **Plant Capacity:** 130 kWp Grid-Tied Rooftop Solar PV System
- **Commissioning Date:** 24-11-2017
- **Inverter Configuration:** Polycab, PSIT series — 3 Units (30 kW + 50 kW + 50 kW)
- **PV Modules:** Goldi Solar, 320PM - 406 Units
- **Current Operational Status:** Non-Operational / Zero Generation (Offline due to main MCCB failure, grid voltage fluctuations, corroded MMS hardware, and exposed DC wiring).

B. Detailed Technical Scope of Repair & Maintenance

Item No.	Inspection Area	Existing Technical Condition / Diagnosis DOCX	Mandatory Action & Technical Specification
1. Modules & Cleaning	PV Module Integrity & Surface	Dust/soiling accumulation blocking irradiance; no physical frame cracks.	Deep water cleanup cycle for all 406 modules; detailed visual and infrared/string check.
2. Module Mounting Structure (MMS)	Fasteners & Hardware	Severe corrosion on J-bolts and loose nuts.	Complete replacement of rusted J-bolts with high-grade SS304 stainless steel hardware; re-torquing of all array nuts.
3. Structure Integrity	MMS Welded Joints	Severe corrosion observed on welded spots.	Structural strengthening (re-welding as necessary) and application of anti-rust zinc-galvanized cold coating.

4. String Electricals	Connectors & String Parameters	V_{oc} & I_{sc} drops caused by loose and faulty MC4 connectors.	Replacement of damaged MC4 connectors with genuine IP68-rated UV-resistant MC4 connectors; complete re-termination.
5. AC Protection & ACDB	Main Input MCCB & ACDB	MCCB damaged internally with arcing flash marks; terminal bolts corroded/loose.	Replacement of damaged MCCB; thorough internal cleaning of ACDB; replacement of terminal bolts with SS304; re-torquing of connections.
6. Cable Protection	Conduits & Protection	UV-degraded, cracked PVC conduits leaving cables exposed.	Complete replacement of cracked conduits with heavy-duty, UV-resistant PVC/GI conduits.
7. Cable Dressing	DC String Wiring	Hanging DC cables caused by failed nylon ties.	Re-bundling, dressing, and securing of all loose string cables using industrial-grade, UV-stabilized outdoor cable ties.
8. Grounding & Earthing	Earth Pits	High resistance measured across earth pits.	Re-treatment, chemical dosing/compound treatment, testing, and restoration of all earth pits to achieve standard compliance.

Note to Bidders: Bidders must conduct their own diagnostic assessment during the mandatory site visit and Physical verification certificate will be provided based on their technical evaluation.

2. Vendor Eligibility & Qualification Criteria

A. Business & Legal Status

- **Entity Type:** Registered Proprietorship, Partnership, LLP, or Private Limited Company in operation for a **minimum of 3 years**.
- **Registrations:** Valid GST Registration and Permanent Account Number (PAN).

- **Financial Turnover:** Average annual turnover of ₹ **2,00,000/- (Rupees Two Lakhs)** or above over the last three financial years (i.e. 2025-26, 2024-25, 2023-24).

B. Licenses & Empanelment

- **Electrical License:** Active, valid State-Scope Electrical Contractor License.
- **Government Empanelment:** Official empanelment/registration with state DISCOMs or solar agencies (e.g., **MGVCL, PGVCL, GEDA**, or under **PM-Surya Ghar Yojana**).

C. Technical Experience

- **Past Work Experience & Track Record:** Bidders must submit Work Orders, Completion Certificates, Invoices, and site photos demonstrating the successful execution of **at least 5 solar PV installation, maintenance, or repair projects** of minimum 3 years, with a combined total value (or single order value) of not less than ₹ **3,00,000/-**.
- **OEM Authorization Certificate:** Valid Manufacturer Authorization Form (MAF) or authorization letter from the Original Equipment Manufacturer (OEM) for key components (e.g., Inverters, MCCBs, or PV modules/spares), authorizing the bidder to supply, install, or service their equipment for this project.
- **Government Work:** Demonstrated experience executing similar solar maintenance/installation projects for government organizations, PSUs, or educational institutions.
- **Technical Staff:** The bidder must employ at least one full-time Electrical Engineer holding a recognized Degree or Diploma during the ongoing repair work.

3. Terms & Conditions for Submission & Execution

1. **Mandatory Site Inspection:** Bidders **must visit the site** at Prof. C. C. Mehta Auditorium, D. N. Hall Campus, Pratapgunj, Vadodara, to independently assess the current non-operational status before submitting quotes.
2. **Submission Format:** Quotations must be submitted in a sealed envelope marked **"Quotation for Solar PV Repair Work at Prof. C. C. Mehta Auditorium"** to the designated University address. **Technical documents and Financial Bids should be sealed in separate inner covers.**
3. **Inclusive Pricing:** All quoted rates must include materials, labor, transportation, testing, safety equipment, and applicable GST. No price escalation will be granted post-allotment.

4. **Execution Timeline:** Total re-commissioning, replacement, and testing must be completed within **20 days** from the issuance of the Work Order.
5. **Quality & Standards:** All replacement components (MCCB, SS304 bolts, conduits, MC4 connectors) must be brand-new, genuine, and compliant with MNRE/ BIS standards.
6. **Warranty:** All replaced parts and repair workmanship must carry a **12 month comprehensive warranty** from the date of successful re-commissioning.
7. **Payment & Security:** No advance payment will be made. Payment will be released after successful re-commissioning, testing, and submission of a performance report certified by the University Engineer. A **10% performance security retention** will be withheld until the completion of the warranty period.
8. **Delay Penalty:** Delays in completion will incur liquidated damages at **0.5% of the contract value per week** (capped at 10%).
9. **Safety & Liability:** The contractor is solely responsible for worker safety, high-elevation protocols, PPE compliance, and any injury or property damage incurred during work.
10. **University Authority:** The University reserves the right to accept or reject any bid without assigning reasons. Legal jurisdiction is Vadodara.

Format for Price Bid Submission:

Sr. No.	Description of Item / Work	Unit	Qty	Rate per Unit (₹)	Total Amount (₹)	Applicable GST (%)	Total Amount incl. GST (₹)
1	Module Cleaning: Deep water cleanup cycle and infrared/visual check for Goldi 320PM modules	Nos.	406				
2	MMS Hardware: Replacement of corroded J-bolts with SS304 material & re-torquing of all array nuts	Set	1 Job				
3	Structure Integrity: Anti-rust zinc-galvanized coating & spot re-welding on corroded structural spots	Set	1 Job				
4	String Electricals: Replacement of faulty IP68 MC4 connectors and string re-termination	Sets	30 Pairs				
5	AC Protection: Replacement of damaged main input MCCB & internal cleaning/servicing of ACDB	Nos.	1				

6	Conduit & Cabling: Replacement of UV-degraded PVC conduits and cable tie dressing for hanging DC cables	Set	1 Job				
7	Earthing System: Chemical treatment, dosing, and resistance testing of existing earth pits	Pits	6				
8	Labor & Commissioning: On-site technical labor, height safety setup, testing, and complete plant re-commissioning	Set	1 Job				
TOTAL	Grand Total Proposed Price (in Figures):						₹

Grand Total Price in Words: Rupees _____ only.

List of Documents to be Submitted:

Bidders must submit the following documents (duly signed and stamped). Failure to submit any required document may lead to technical disqualification.

1. Financial & Commercial Documents

- Completed Financial Bid / Price Schedule Table (*in a separate sealed envelope*)
- Bank Details (Cancelled Cheque or Passbook copy)

2. Statutory & Business Registration Documents

- GST Registration Certificate
- PAN Card
- Business Entity Registration Proof
- Valid Electrical Contractor License
- Solar Agency / DISCOM Empanelment Certificate (*MGVCL / PGVCL / GEDA / PM-Surya Ghar*)

3. Financial & Experience Proofs

- CA Certified Annual Turnover Certificate (2025-26, 2024-25, 2023-24)
- Past Work Experience & Track Record Proof (*Work Orders, Completion Certificates, Invoices, and Site Photos*)
- Government / Institutional Work Experience Certificates

4. Technical & Site Verification Documents

- Physical Site Visit & Plant Inspection Certificate (*signed & stamped by the Coordinator, Prof. C. C. Mehta Auditorium*)
- OEM Authorization Certificate
- Written Warranty Undertaking Letter

5. Undertakings & Tender Acceptance

- Complete Tender Document (*Signed and Stamped on all pages*)
- Non-Blacklisting Declaration / Affidavit

CHECKLIST OF DOCUMENTS TO BE SUBMITTED

1. Financial & Commercial Documents

- ☐ Completed Financial Bid / Price Schedule Table (Sealed in separate inner cover)
- ☐ Bank Details (Cancelled Cheque or Bank Passbook copy)

2. Statutory & Business Registration Documents

- ☐ GST Registration Certificate
- ☐ PAN Card
- ☐ Business Entity Registration Proof (Min. 3 years operation proof)
- ☐ Valid State-Scope Electrical Contractor License
- ☐ Solar Agency / DISCOM Empanelment Certificate (MGVCL / PGVCL / GEDA / PM-Surya Ghar)

3. Financial & Experience Proofs

- ☐ CA Certified Annual Turnover Certificate (Avg. ₹ 2,00,000/- for FY 2023-24, 2024-25, 2025-26)
- ☐ Past Work Experience & Track Record Proof (Work Orders, Completion Certificates, Invoices & Photos)
- ☐ Government / Institutional Work Experience Certificates

4. Technical & Site Verification Documents

- ☐ Physical Site Visit & Plant Inspection Certificate (Signed & Stamped by Coordinator, Prof. C. C. Mehta Auditorium)
- ☐ OEM Authorization Certificate
- ☐ Written Warranty Undertaking Letter (12-Month Comprehensive Warranty)

5. Undertakings & Tender Acceptance

- ☐ Complete Tender Document (Signed and Stamped on all pages)
- ☐ Non-Blacklisting Declaration / Affidavit