

TENDER DOCUMENTS

Repair and Upgradation of Electrical and Solar System at HQs Office of Pakistan Meteorological Department



No. I&P/Repair/Electrical/Solar/25-26

Pakistan Meteorological Department

Sector H-8/2,

Islamabad,

October, 2025

Tender Notice

Sealed Tenders are invited **Through PPRA EPADS** from reputed Suppliers / Authorized Dealers/ Service Providers registered with Income Tax and Sales Tax Departments for Repair and Upgradation of Electrical and Solar System at HQs Office Islamabad in order to enhance reliability, and safety:

S. No	Items Name	Closing Date & Time	Bid Opening Date & Time
1.	Repair and Upgradation of Electrical and Solar System at HQs Office of Pakistan Meteorological Department	13-11-2025 at 10:30PST	13-11-2025 at 11:00PST

Terms and Conditions:

1. The Suppliers/ Firms/ Service Providers must propose/submit the complete solution in their technical proposal and the same must be in-line with the scope of work mentioned in the tender documents.
2. Bid Security (2% of the Offer) in shape of Bank Draft / Pay Order in favor of D.G. Met. Services, Islamabad should be submitted with the Bid.
3. Incomplete or late received offer will not be considered, closing date and time of Bid is 13th November, 2025. at 1030PST and opening date and time is 13th November, 2025 at 1100PST.
4. The Procuring Agency reserves the right to cancel the bidding process at any stage without assigning any reason.
5. The successful bidders will furnish performance guarantee in the shape of CDR/Pay Order/Bank Draft @ 5% of his supply order in favour of D.G. Met. Services.
6. Method of Single Stage Two Envelope Bidding Procedure under Rule 36(b) of Public Procurement Rules, 2004 will be used.
7. Bidding documents having detailed specifications are available free of cost at the website www.pmd.gov.pk PPRA EPADS www.eprocure.gov.pk as well as www.ppra.org.pk

Note: All Firms are directed to quote their Bids online through PPRA E-PADS as well as Bids must be submitted in hard forms to I&P Section, PMD Headquarters office, Islamabad

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Section 1

Specifications

Technical Specifications for the Repair and Upgradation of Electrical and Solar System at HQs Office of Pakistan Meteorological Department

1. Project Overview

The Pakistan Meteorological Department (PMD) intends to **Repair and Upgrade its Electrical and Solar System** at HQs Office, Islamabad. This initiative is aimed at ensuring a **sustainable, reliable, and energy-efficient power supply** while reducing dependency on conventional energy sources.

The project scope includes **revamping works of both electrical and solar power**, along with the **repair and upgradation of centralized power room** for effective power management and distribution across all PMD HQs office buildings. The existing power generators will also be relocated and integrated into the centralized power room to achieve **consolidated power management and enhanced backup capability**.

In addition, the project covers the **supply and installation of electrical cables** from the electric meters to centralized power room and then to the respective office blocks, as well as the provision of **distribution boxes equipped with breakers, protection devices, and other necessary components** to ensure safe, reliable, and uninterrupted power supply throughout the facility.

Further, the project scope also includes repair, upgradation supply, delivery, installation, testing and commissioning of already installed single-arm streetlight poles with integrated in-pole enclosures (housing the solar battery and controller), mounted PV panels, LED luminaires and all associated electrical and earthing works.

Location: PMD Headquarter Office, Sector H-8

• Project Scope:

- Repair/ replacement of Solar plates, invertors and batteries alongwith Integration with existing WAPDA supply.
- Repair and upgradation of Centralized Power Room aimed for distribution and control of electricity at PMD HQs Office. Supply and installation of underground cable from the main electricity meters to the distribution board, sized with an additional 30% capacity margin to accommodate future load expansion.
- Relocation of existing power generators and integrating with the centralized power room
- Repair and upgradation of twenty (20) street light poles in PMD HQs office.
- Installation of distribution boxes / panels at each building.
- Dismantling of existing obsolete solar panels, invertors and accessories.

Cabling, Combiner Boxes and Earthing

- All exposed wiring (except where unavoidable) shall be routed in conduits/ducts. Wherever wiring passes through roofing, walls, or other structures, suitable bushings shall be used. Wiring through roofing shall form a waterproof seal.
- Conduits/ducts shall be of flexible PVC or equivalent material of suitable size, ensuring that at least **20% of conduit space remains free**.
- Field-installed wiring shall be connected using terminal strips or screw connectors. Soldering or crimping in the field shall be avoided as far as possible. **Wire nuts are not permitted**. The rated current-carrying capacity of joints shall not be less than the circuit rating. All connections shall be housed in junction boxes.
- All wiring shall be **color coded in accordance with IEC standards** and labeled at termination points.
- No conduit or fitting shall be attached directly to non-supportive surface.
- Conduits shall not be installed directly over roof surfaces; a minimum clearance of **2 inches** shall be maintained between roof and conduit/duct.
- Cable joints shall only be made using junction boxes, screw connectors, block connectors, or MC4 (or equivalent) connectors for PV string connections.
- All wire terminations shall use appropriate **end sleeves and wire thimbles**, with color differentiation for positive and negative polarity.
- Each cable shall have size, voltage grade, and manufacturer's name **permanently printed/marked** along its length.
- Cable voltage drop must comply with design requirements
- Earthing shall be carried out in compliance with **NEPRA Rules**, with resistance less than **10 Ω**.
- Approved cable brands from relevant Govt. agencies shall be used.

- Schematic / Layout drawings must also be provided.

Repair and upgradation of Centralized Power Room (Main Distribution & Distribution Boxes)

A dedicated Power Control Room shall be revamped to serve as the main distribution point.

The room shall house:

- Main Incomer Breaker (from the grid utility connection).
- Existing on site generators at PMD HQs
- Sub-breakers (one for each building/meter).
- Cable interconnections between the main panel and sub-breakers, with sizing based on load calculations and voltage drop criteria for each building.

Power from the sub-breakers shall be routed to each building via underground armored cables to their respective distribution boards (DBs).

Terms & Conditions:

1. **Earnest money/ Bid Security @ 2%** for each category in the shape of Bank Draft/Pay order in favour of D.G Met. Services must be submitted with the offer.
2. Bidders must submit copies of their registration of Sales Tax and Income Tax.
3. Eligibility Criteria: Participating firm must be, fully experienced and registered with Govt. Authorities (FBR etc.).
4. Bidder must submit on stamp paper
 - (i) That there are no pending liabilities in respect of the bidder/ firm against any government/semi-government department/ organization
 - (ii) That the bidder has not been black listed by any government/ semi-government department/ organization. Legal documents can be asked by the buyer, if required.
5. **BID VALIDITY:** Bids shall remain valid for a period of at least **120 days** after the date of opening of financial proposals.

In exceptional circumstances, prior to expiry of the original bid validity period, the Buyer may request that the bidders extend the period of validity for a specified additional period. The request and the responses there to shall be made in writing or by electronic mode. A bidder will not be required or permitted to modify its bid, but will be required to extend the validity of its bid security for the period of the extension.
6. All bidders are advised to comply strictly with the document specifications/ terms & conditions and no deviation shall be allowed.
7. **Prices must be quoted in Pak Rupees only including all applicable Govt. of Pakistan taxes & GST.**
8. **The successful bidders will furnish performance guarantee in the shape of CDR/Pay Order/Bank Draft @ 5% of his supply order in favour of D.G. Met. Services.**
9. The last date for the submission of tender is 13th November, 2025 at 10.30 Hours PST and will be opened on the same day at 1100 hours PST in the presence of bidders or their representatives.
10. The supplier will be responsible for replacement of items, if found defective during inspection / warranty period.
11. The Procuring Agency reserves the right to cancel the bidding process at any stage without assigning any reason.
12. Taxes will be deducted as per Government rules.
13. The payment against services will be made through crossed cheque(s) in Pak Rupees by the Department to the supplier after satisfactory completion of work and technical report submitted by the Technical Committee.
14. Any bid found in deviation / violation / without earnest money would liable to be rejected.
15. Bidding documents having detailed specifications are available free of cost at the website www.pmd.gov.pk PPRA EPADS www.eprocure.gov.pk as well as www.ppra.org.pk