



OFFICE OF THE PRINCIPAL  
GOVT GIRLS DEGREE COLLEGE MANERI (SWABI)  
Phone No: 0938 – 221201 Email: [gdcmaneribala@gmail.com](mailto:gdcmaneribala@gmail.com)



## **TENDER NOTICE**

### **PROCUREMENT & INSTALLATION OF TWO 5 kW SOLAR SYSTEMS**

Government Girls Degree College Maneri Swabi invites sealed bids under the Single Stage – Single Envelope procedure from reputed and registered firms/contractors for the installation of two 5 kW hybrid solar systems out of the College Pupil Fund. Detailed bidding documents can be obtained from the Admin Office of Government Girls Degree College Maneri Swabi or from the KPPRA website.

**The following conditions, among others, shall apply:**

1. Firms should be registered with KPPRA and FBR and be on their Active Taxpayer List (ATL), PEC registration with the relevant EE11 code. Bidders shall attach all required certificates along with the Standard Bidding Document (SBD). (Mandatory)
2. Past Experience, Similar Work order in same Department with their Completion certificates (Mandatory).
3. Quoted rates shall remain valid for sixty (60) days from the date of bid opening.
4. All quoted rates shall be inclusive of all applicable taxes and will be withheld as per Government directives issued from time to time.
5. Bid Security @ 2% of the total bid value in the shape of Call Deposit Receipt (CDR) must accompany the bid documents.
6. Sealed bids should reach the office of the undersigned on or before 12 Nov 2026 at 10:00 AM.
7. Sealed bids will be opened on the same day, i.e. 12 Nov 2026 at 10:30 AM, in the presence of the bidders or their authorized representatives.
8. Late-received bids and bids without required documents shall not be entertained.
9. The undersigned reserves the right to cancel the bidding process or reject any/all bids at any stage as per rules.
10. The successful bidder(s) shall deposit 10% of the contract value as Performance Guarantee in the form of a Call Deposit Receipt (CDR), which shall be released after the successful completion of the work.

Principal

Govt Girls Degree College Maneri Swabi

*21/10/2026*  
Principal  
Govt Girls Degree College  
Maneri (Swabi)

## TENDER FORM

FOR PROCUREMENT AND INSTALLATION OF TWO 5KW HYBRID SOLAR SYSTEM (TOTAL 10 KW CAPACITY)

AT GOVT GIRLS DEGREE COLLEGE MANERI SWABI

NAME OF FIRM: \_\_\_\_\_ NAME OF OWNER: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ CONTACT NO: \_\_\_\_\_

NTN No. \_\_\_\_\_ SALE TAX \_\_\_\_\_ REGISTRATION NO (KPPRA/FBR): \_\_\_\_\_

CDR NO: \_\_\_\_\_ AMOUNT: \_\_\_\_\_ BANK: \_\_\_\_\_

| S.No | NAME OF JOB                  |                               | ACCESSORIES & SPECIFICATION                                                                                                                                                                                                                                                                                                                                                | PRICE/UNIT<br>(inclusive of tax) |
|------|------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 1    | One 5 KW HYBRID SOLAR SYSTEM | Inverter                      | Type Hybrid with touch LCD, Minimum AC output capacity: 5000 watt, Weather Proofing: IP-65 rating, Dual MPPT, MPPT voltage range: 120-500 VDC, Support up to 10,000 PV input at least, Battery voltage Range 48VDC. 3 Years Minimum full Replacement warranty.                                                                                                             |                                  |
|      |                              | Battery                       | Lithium-ion: Capacity 100 AH, Voltage: 48VDC, Energy Capacity 5000WH at least. Charge Cycles at least 6000. Equipped with Battery Management System (BMS), Brands of Inverter and Battery must match for better efficiency. 05 Years Warranty                                                                                                                              |                                  |
|      |                              | Solar Panels                  | No of Panels: 12 of 585watt +, N-Type: TOPCon monocrystalline, Module type: Bifacial, double-glass construction, Module efficiency; minimum 23%, Front Cover: minimum 3.2 mm tempered glass, Frame: Aluminum/ steel. Product Warranty: 25 Years linear output                                                                                                              |                                  |
|      |                              | Mounting Structure            | Type L3, 12 SWG heavy duty frames/ Anodized aluminum, anti-corrosion, reinforced by rooftop penetrated bolts and Concrete block embedding for high wind resistance and waterproofing.                                                                                                                                                                                      |                                  |
|      |                              | Earthing and light Protection | Proper earthing (earthing depth: 7 feet) with <5 Ohm resistance, copper/GI earthing strip, lightning, arrestor.                                                                                                                                                                                                                                                            |                                  |
|      |                              | Other Accessories             | DC Cable: As per requirement, separate series line to engage both MPPTs, UV-resistant, 6 mm <sup>2</sup> copper double insulated wire. AC Cables: As Per requirement, Gauge 7/44 copper wire. Junction Boxes: IP65+, with fuses, MC4 connectors, surge protection devices, Breakers (AC: 100Amp, DC: 150Amp) manual/automatic changeover switch (changer) As per Standard. |                                  |
|      |                              | Installation                  | Installation, Testing, Commissioning & insulation etc. Complete setup                                                                                                                                                                                                                                                                                                      |                                  |

Total Quoted Price for TWO (02) Complete 5KW Hybrid Solar Systems (10 KW Total): PKR \_\_\_\_\_

### Undertaking by Bidder:

I/We hereby confirm that the quoted prices are inclusive of all government taxes, duties, and transportation/installation charges. We agree to abide by all the terms and conditions outlined in the Tender Notice and Standard Bidding Documents.

\_\_\_\_\_  
Signature and stamp of bidder

## GUIDELINES

Name of College:-

### L. 10 KW Solarization Standard Specs

| S. No | Items                                                                  | Quantity                                        |
|-------|------------------------------------------------------------------------|-------------------------------------------------|
| 1     | Solar Panels N Type A Grade Solar Cell mono Crystallin Silicon (>550W) | Equivalent to 10 KW capacity                    |
| 2     | Inverter (Hybrid)                                                      | 10 KW (2 units of 5KW)                          |
| 3     | Mounting Structure 12 SWG                                              | Required frames as per standard                 |
| 4     | Battery Tubular/Lithium (100-200AH)                                    | As per standard (Maximum up to 05 Lac PKR)      |
| 5     | AC/DC Cable                                                            | From panel to inverter as per standard (copper) |
| 6     | Solar Earthing                                                         | As per standard                                 |
| 7     | Installation Accessories (box, protector, breaker, changer, etc.)      | As per standard                                 |

### 2. Load Planning for a 10KW Solar System

Here is a detailed load planning table for a 10KW solar system, considering the various appliances mentioned. The load of each appliance is calculated based on typical wattage values. The College may plan/devise the load management keeping in view the following load management (sample) as per need and requirement of the college.

| S. No | Appliance              | Quantity | Average Power (Watts) | Total Power (Watts) |
|-------|------------------------|----------|-----------------------|---------------------|
| 1     | Fans                   | 38       | 100                   | 3800                |
| 2     | Energy Savers/Bulbs    | 60       | 20                    | 1,200               |
| 3     | Desktop Computers      | 4        | 250                   | 1,000               |
| 4     | Laptops                | 2        | 50                    | 100                 |
| 5     | Printers               | 2        | 100                   | 200                 |
| 6     | Electric Water Coolers | 2        | 500                   | 1,000               |
| 7     | Photocopier Machine    | 1        | 500                   | 500                 |
| 8     | Water Pump             | 1        | 500                   | 600                 |
| 9     | LED for Cameras        | 1        | 100                   | 100                 |
|       |                        |          |                       |                     |
|       | <b>Total Load</b>      |          |                       | <b>8,500</b>        |

Only properly trained and authorized person will manage and operate the solar system to insure its proper functioning and smooth operation. Additionally, the college administration must take all other necessary precautionary and safety measures.

#### **Summary**

Total Load: 8,500 Watts or 8.5KW

System Capacity: 10KW

#### **Analysis**

##### **Total Load:**

The total load of all appliances is 8.5KW, which is within the capacity of a 10KW solar system.

##### **Surplus Capacity:**

The remaining capacity:  $10\text{KW} - 8.5\text{KW} = 1.5\text{KW}$

This surplus can accommodate additional minor loads or serve as a buffer for peak times.

#### **Conclusion:**

The total load of 8.5 KW is within the capacity of the 10KW solar system, allowing for a buffer for additional small loads or inefficiencies in the system.

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