



UNIVERSITY OF ENGINEERING & TECHNOLOGY MARDAN

Bill of Quantities

Name of Work: **Supply, Installation, Testing, Commissioning and Training of 35 KW On-Grid Solar System for Ayesha Girls Hostel and 30 KW Solar System for Tube Wells at UET Mardan**

A- Schedule items

S.No	Name of items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1-	Supply and Erection PVC flexible pipe : 1" i/d MRS item # (26-01-b-01)	Rft	240.00	88.31	21,149.00
2-	Supply and Erection of Solar PV 585 or above WP Module (Solar Panel) Mono-crystalline A-Grade N type Bi – facial Canadian, Jinko, JA ,Longi or Eq (As per Approved Specifications) with 12 year product warranty & 25 years performance warranty MRS item # (26-01-d-01)	Watt	65000.00	49.72	3,231,800.00
3-	Supply and Erection of GRID TIE 3 Phase INVERTER (ON-Grid Inverter) (above 30 KW) Inverex, Solis, Huawei with 5G Wifi, PV GENSet as per requirments. or Eq MRS item # (26-01-i-03-d)	Watt	65000.00	26.97	1,753,050.00
4-	Supply and Erection MC-4 connector (TUV or Eq Approved) MRS item # (26-01-h-01)	Each	112.00	354.60	39,648.00
5-	Supply and Erection MC-4 Branch connector MRS item (26-01-h-02)	Each	12.00	1480.00	17,760.00
6-	Supply and Erection 1x6 sq.mm single core (XPLO/XPLO insulated/PCV sheathed) flexible copper cable (Allied, AGE, Pakistan. Fast, Copper Gat cables) DC cable. MRS item # (26-01-g-03)	Rft	1420.00	165.60	234,300.00

7-	PVC 2" Conduit duct for indoor surface wiring (dura duct or eq) complete in all respect MRS item # (15-79-d)	Rft	99.00	77.56	7,678.00
B- Non Schedule items					
8-	Supply & Erection of GI punched L-2 & L-3 PV Roof mounted Structure (14 SWG Commercial) i/c cost Cement Concrete (1:1.50:3) Pad 15" x 15" x 15" , GI HD Bolt embedded 2"-3" in RC Slab and bonding/erection use Epoxy etc complete in all respect	Each	56.00	8,100.00	453,600.00
9-	Steel Box 14 SWG (Commercial) IP65 for AC/DC Circuit Breakers, Voltage Protractor etc complete in all respect	Each	02.00	20,000.00	40,000.00
10-	Auto Circuit Breaker 4P 200 Amp CNC, Schneider, or eq complete	Each	01.00	135,000.00	135,000.00
11-	Auto Circuit Breakers moisture proof DC 4P 20 Amp CNC, Schneider, ABB or eq complete	Each	12.00	5,500.00	66,000.00
12-	AC SPDS(Surge Device) 600 V 4P CNC, Schneider, ABB or Eq complete	Each	03.00	12,000.00	48,000.00
13-	Supply ,Fabrication & installation perforated cable tray GI Conduit duct for surface wire out door 2" 18 SWG (commercial) complete	Rft	66.00	163.16	10769.00
14-	3 Phase Electric Connection 30 KW (MDI) complete	Job	01	275,000.00	275,000.00
15-	Net metering i/c all charges payable to WAPDA complete	Job	03	145,000	435,000.00
16-	DC SPDS(Surge Device) 1000 V CNC, Schneider, ABB or Eq	Each	12.00	6,000.00	66,000.00
17-	Earthling & Lightning (Resistance less than 5 ohm) Complete System with bore holes and all accessories like Earthling Rod (copper), Earthling Plate(copper), Salt, Nut bolts(copper), 10mm2 Standard copper Wire and Earthling Powder (Proper Bore will be done for Earthling) and for Lightning Arrester Height should be more than 10m from structure and 5m away from Structure.	Each	06.00	75,000.00	450,000.00
18-	CT (Current Transformer) beat quality 400 Amp	Each	09.00	3,000.00	27,000.00

19-	Voltmeter, Amp meter best quality	Each	06.00	4,500.00	27,000.00
20-	PV Gen Set Controller for 30 KW Solar System of approved quality	Each	01.00	35,000.00	35,000.00
21-	AC cable (Copper) four core Cable PVC PVC 50 mm Pakistan, Allied, AGE, Fast ,Copper Gat or eq	Rft	55.00	2,300.00	126,500.00

Total Amount

Rs. 750,0254.00

Grand Total A + B

Contractor Premium

At Par/Below

Rs.

Quoted Amount

Total Quoted Amount in words _____

Note: - Any additional items (not included in this BOQ) if carried out by the contractor shall be analyzed By the Engineer In charge Directorate of Works & Paid.

Sub Engineer(Electrical)

Contractor Signature: _____

**Sub Engineer (Electrical)
UET Mardan**