

Quantity Surveying & Contract Documents (CT-308L) ((BOQ))

Midterm task = 50 Marks

SR#	DESCRIPTION/JOB DETAILS	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	<u>SOLAR INVERTER:</u> Supply and Erection of GRID TIE INVERTER (ON-GRID Inverter) (30 KW) Inverter Maximum Efficiency: 99% Warranty: 06 years (Minimum) Make: Huawei/Sungrow/Equ.	1	No.	980000/-	
2	<u>SOLAR PV (PHOTO VOLTIC) PANELS</u> Supply and Erection of 540/545/550 Watt Solar PV Module (Solar Panel) Mono-crystalline A-Grade, Tier-1, Half cut. Warranty: 12 years product warranty (minimum) 25 years performance warranty (minimum) Make: Astronergy / JA Solar/ Trina Solar / Equ.	46	Nos.	71500/-	
3	<u>FRAME / STRUCTURE:</u> Supply and Erection of hot dipped (80 microns Average) galvanized steel of minimum thickness of 12 SWG / 2.64 mm Channel / Pipe or 8 SWG / 4.06 mm Angle PV Mounting Structure Type: Fixed Frame Type of materials for array fasteners (nut/bolts/washers) b/w PV Module and structure: Stainless Steel	6	Nos.	13000/-	
4	<u>DC CABLE</u> Supply and Erection 1x6 sq.mm single core (Double PVC sheathed) flexible copper cable, Tin coated Make: Pakistan/Fast/Equ.	500 (approx.)	Mtr	550/-	
5	<u>AC CABLE</u> Supply and Erection 1x10 sq.mm single core (PVC sheathed) Copper cable, Make: Pakistan/Fast/Equ.	500 (approx.)	Mtr	495/-	
6	<u>PROTECTION SYSTEM AND OTHER ACCESSORIES</u> AC & DC breakers (Make: sheathed), Changeover Switches. AC & DC Surge Protection Device of required rating. Cable Ducts, Cable tray, Flexible PVC Pipe, PVC Duct Patti, HDPE Pipe etc. For cable ducting, Plug, Distribution Board, Copper Thimbles, Sleeves, Butt Joint Connectors, Ring Thimbles, PVC Shrouds, Inverter, and Protective Devices must be Labelled Property along With details user manual. Cabinets for Breakers, Changeovers, as Per design approved by Engineer in-Charge). Complete Earthing as per AEDB requirement etc.	1	Job	325000/-	
7	<u>CIVIL WORK</u> The pit size for concrete works should be minimum 1x1x1 feet for each individual leg or 1x2x1 feet for double leg and the concrete Should be extended at least 1 foot above the ground. The Concrete ratio should be 1:2:4. The Surface azimuth angle of PV Module 180 and the Tilt angle (slope) of PV Modules should be 28-33 degree.	1	Job		
8	<u>NET-METERING</u> Preparation & Submission of Complete Net-Metering Case as per the guidelines of PESCO, AEDB, NEPRA including Supply and Installation of Bi-directional Approved Energy Meter with all requisite utility fee on behalf of the Employer and fulfillment of all prescribed formalities, complete in all respect and to the entire satisfaction of the Employer/ Engineer In charge	1	Job	350000/-	
				TOTAL AMOUNT (Rs.)	
<p>Amount in word: Validity: Prices & quoted rates are valid for Fifteen (15) Days only after the tender opening.</p>					
<p>Stamp and Signature of the Supplier _____</p>					

Q#2.

Find out quantity of steel in slab 35 x 50

Q#3.

Find out Numbers of bricks in wall 500 x 11 x 0.75.