CLIENT : INDIAN BANK RURAL SELF EMPLOYMENT TRAINING INSTITUTE.

PROJECT : Indian Bank Own Building at Bazaar Street Salem.

SUBJECT : BILL OF QUANTITY

Sl. No.	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
1	DESITC of 600 Wp or above Bifacial / Topcon solar PV panels as per technical specifications given in the Tender (If higher wattage capacity panels are used, the power output of 20 kWp to be maintained).	18.00	Nos				
2	DESITC of 10 KW solar 3 phase On Grid (3 phase input and 3 phase output) as per technical specifications and safety mat for operating personnel etc.	1.00	Nos				
3	DESITC of Weather proof IP-65 array junction box with SPD, Fuse and as per technical specifications etc.	1.00	Nos				
4	DESITC of IP-42 protected cubicle type panel (ACDB)wall mounting fitted with all accessories (with AC surge arrestor ,fuse etc) and suitable rating 63 A , 25 KA 4 Pole MCCB (Current rating to be adjustable in the range from 80 % - 100%) to evacuate power (near to the invertor), with all necessary accessories and supply & installation of 1 no. 63 A,25 KA 4P, MCCB (Current rating to be adjustable in the range from 80 % - 100%) (near to the mains of the Branch) with suitable enclosure to terminate the solar power supply to the mains of the Branch, as per technical specifications and safety mat shall be provided for operating personnel etc.	1.00	Set				

5	**Earthing of solar panel structures and AC DB**							
6.1	Supply and fixing copper bound pipe earth station with latest amendments, complete with 3 m long 25mm dia copper roc (250 microns) with Funnel on Top with holes crilled for tapping connection. The rate includes making 300 mm diameter pit and after excavation pit to be filled with to surface with alternate layer of salt/charcoal mixture. 300mm Readymade chamber box with FRP cover Note: Test report of resistance of the new earth pit to be submitted. (1 nos for DC, 1 nos for AC and 2nos for Lighting arrestor).	4.00	Nos					
6.2	DESITC of 25 x 3 MM GI Strip to be clamped on wall, cable tray, buried in ground to interconnect the earth electrodes mentioned above (6.1) and also to the combiner panel area(The GI strip shall be painted with green paint as per electrical inspectorate norms).	1.00	Lot					
6.3	DESITC of 1 core 16 Sq mm Dia multi-stranded, FRPVC insulated green colored Aluminium cable to be drawn in 20 MM Dia PVC conduit, 1.5MM thick to be clamped on wall, cable tray, buried in ground from the earth electrode with Lightning Arrester.	1.00	Lot					
6.4	DESITC of 1 core 6 Sq mm Dia multi-stranded Aluminium cable, FRPVC insulated green colored cable to be drawn in 20 MM Dia PVC conduit, 1.5MM thick to be clamped on wall, cable tray, buried in ground from GI strip near combiner panel area with inverter neutral point, AC DB to Invertor including terminations at both the ends etc.	1.00	Lot					
6	DESITC of AC & DC cabling between panels and inverter with heat resistant insulated copper wires drawn in UPVC Conduit properly fixed properly on pedestals on the floor for interconnection between solar modules , ARJ and invertor	1.00	Lot					

7	DESITC of 4C x 6 Sqmm aluminum armored cable from AC Distribution Board to spare feeder of Main LT panel situated at the ground foor including terminations at both ends.	30.00	Mtr					
8	Design & Supply, Installation of Galvalume structures for supporting the solar panels with height 7 feet on one side and 8 feet high on one side as per technical specifications item rate also include provideing supporting probes of necessary size as per Design, supply and installation of concrete pedestals at sites as per manufacturer specification of minimum M20 grade [(1:1.5:3) and the same shall be plastered with 12mm thick cement sand mortar of ratio 1:4 of 300mm wide x 450mm high to be fixed on terrace floor for supporting solar panel structures. And the pedestals shall be painted with exterior emulsion paint.	1.00	Lot					
9	Design & Supply, Installation of Galvalume structures for supporting the solar panels with height 7 feet on one side and 8 feet high on oneside as per technical specifications	1.00	Lot					
10	Supply and installation of 3 prong 1 mt copper spike lightning terminal on 2 Mt high GI pipe with anchoring to be mounted on the parapet wall with proper clamping arrangement. Lightning protection terminals as required to protect the entire building including the solar installation.	1.00	Nos					
11	Liasoning with Govt agencies (for project approval) and Preparation of as-built drawings, SLD etc., Liasoning with CEA / Government agencies (respective State Electricity Board / MNRE/other govt agencies) after, arranging inspection and getting approval and arrange for , subsidy etc. after completion.	1.00	Job					
13	**Grand total for Supply and Installation - (A)**							

14	**Operation & Maintenance (O&M) of Solar PV System (Optional item will not be considered for Tender evaluation purpose)**							
15	O&M During DL period	1.00	Year					
16	O&M for the 1st year after DLP	1.00	Year					
16.a	O&M for the 2nd year after DLP	1.00	Year					
16.b	O&M for the 3rd year after DLP	1.00	Year					
16.c	O&M for the 4th year after DLP	1.00	Year					
16.d	O&M for the 5th year after DLP	1.00	Year					
17	**O&M- SUB TOTAL----------(B)**							
18	**GRAND TOTAL (A+B) (Exclusive of all taxes)**							