

Annexure-I

Electrical Components For 3 Nos of Solar Trees

SI No	Material	Specifications	Required Quantity	Unit
1	MC4 Connector Male-Female, Suitable for 4-6Sq mm Cable	IP67 Rated, Current - Maximum Per Contact 30Amp, 1000Vdc, Standard 2PFG 1169/08.07	80	Pair
2	DC Solar Cable Red Colour 4Sq.mm	4 Sq.mm, Tinned copper XLPO / XLPE Insulated & LSZH Sheathed, Standard - TUV 2PFG - 1169/08-2007	150	Mt
3	DC Solar Cable Black Colour 4Sq.mm	4 Sq.mm, Tinned copper XLPO / XLPE Insulated & LSZH Sheathed, Standard - TUV 2PFG - 1169/08-2007	150	Mt
4	2 Core 6 Sq. mm Armored copper cable	XLPE Insulated Copper Armored Cable	180	Mt
5	AC Cable 4 Core, 10 Sq. mm	1100V AC, Copper Cable	20	Mt
6	AC Distribution Box	Incoming: 32 Amp, 4 Pole, C Curve MCB, ISI marked as per IS/IEC 60898-1, DIN Rail Mounted, Outgoing: 24/25 Amp, 4 Pole, C Curve MCB, ISI marked as per IS/IEC 60898-1, DIN Rail Mounted, Indicator: LED Indicator, 230Vac, Red, Yellow, Blue, Bidirectional/Export-Import Energy Meter: 3Phase, 415V, range:10-60Amp, Enclosure: Minimum Dimension (LxBxH) in mm: 300x450 x170, Minimum Protection Degree IP 65, Halogen Free and Weather Proof for Out Door Installation, Transperent Cover, Cable Gland: 04Nos suitable for DB.	1	Nos
7	Cable Junction Box	IP66/IP67, outdoor installation, Dimension (LxHxB) in mm: 155x210x92	4	Nos
8	Modular Terminal Block	DIN Rail Mounted Terminal Blocks, PUSH IN or Screw Type connection, Suitable for 6 Sq. mm Wire, Min. Current 32 Amp	20	Nos
9	DC Junction Box, 2 Pair IN 2 Pair OUT, with 4 Nos Solar Fuse Holder with Fuse Link (in each holder) 15Amp and, Terminal Block. Both IN and OUT should be independent. 2Nos DC SPD type-II, 2 Nos 2 pole Isolator/MCB	Box: Minimum Protection Degree IP 65, Halogen Free and Weather Proof for Out Door Installation 1000Vdc rating HRC Fuse Link: 15Amp, (10x38)mm, Rated Voltage 1000Vdc, IEC 60269-6 (gPV) Compliance, RoHS compliance. Fuse should be connected both +Ve and -Ve terminal Fuse Disconnect/Fuse Holder: Suitable for (10x38)mm fuse-Links with Blown Fuse Indicator, DIN Rail Mounted Single Pole, Rated Current 32A, Rated Voltage 1000Vdc, Standards- IEC 60947-3 UL 4248-18 Modular Terminal Block: Terminal Blocks with Removable Center Jumper, PUSH IN or Screw Type connection, Suitable for 6 Sq. mm Wire, 1000Vdc, 32 Amp. SPD: 1000Vdc rating Type-II DC SPD Isolator/MCB: DIN Rail Mounted, 2 Pole isolator/MCB. Rating minimum 32Amp or more, 1000Vdc or more connected in both string Cable Gland: Nylon (Polyamide), Minimum Protection Degree IP 68, Suitable for Wire Outer Diameter 4-8mm	1	Nos
10	Chemical Earthing Pit Set	Earthing Electrode, Copper: Min. 2 Mt, Earthing Chemical: Min. 50 Kg, Earthing Cover: 01 No.	2	Set
11	Din Rail Mounting Strip		2	Mt
12	Polyolefin HeatShrink Tube, Dia 6mm		2	Mt

*vendor/supplier must mention exact make and model of the corresponding material with datasheet if available

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