

180 KWp Solar Roof Top Power Plant (CAPEX Model)						
Design, Supply, Installation, Commissioning & Testing of Solar Roof Top Plant.						
Sr. No.	Item & Work Description	Quoted Make, Model, Ratings, Efficiency & Other Technical Details with Guaranty / Warranty	Unit	Qty	Rate	Amount
A	Solar Module / Solar Panel		Each			
	N Type Topcon PV Module					
	Make : WAAREE / ADANI / HAVELLS / TATA					
B	Solar String Inverter, 150 KWp		Each	1		
	Make : HAVELLS / GROWATT / DELTA / SOLIS / SUN GROW					
C	Solar Module Mounting Elevated GI Structure with chemical grouting and strengthening with surrounding parapet wall as per EIC.		Watt	180		
	80 Micron (2mm) Hot Dip GI Pipe					
	60mm x 40mm Pipe for Leg & Rafter					
	40mm x 40mm Pipe for Purlin & Side Support					
	Base Plate, J-Hook, Fastener, Dr Fixit OR Equivalent Chemical & Other Accessories as Required					
	RCC Foundation 300mm x 300mm x 300mm with Ivory Exterior Paint					
D	DCDB, Fuse Link & MCBs		Set	RO		
	Make : HAVELLS / C&S / SCHNEIDER / L & T					

E	Earthling Pit					
E.1	Chemical Earthling as per GEDA & DISCOM Guideline with Excavation (3 Ft x 2 Ft), Boring, Earthling Rod, Chamber Masonry & Chamber Cover etc. complete as per EIC. LA 2 Nos., AC 2 Nos., DC 2 Nos., Structure 2 Nos.		Each	8		
E.2	35 Sqmm x 1 Core Copper Flexible Wire Lead for LA & Inverter Earthling. Make : POLYCAB		Rmtr	50		
E.3	4 Sqmm x 1 Core Copper Flexible Wire for GI Structure Internal Connection & Earthling. Make : POLYCAB		Rmtr	200		
E.4	25mm x 3mm GI Earthling Patti. Make : STD		Rmtr	200		
F	3.5 Core Aluminium Armoured XLPE Insulated Cable & Laying. Make : POLYCAB / HAVELLS / FINOLEX					
F.1	150 / 185 Sqmm (Inverter to ACDB) with both side termination using gland, lugs, core cutting, saddling, sealing etc. complete as per EIC. OR Equivalent Rating of Copper Lead Cable.		Rmtr	10		
F.2	185 Sqmm (ACDB to LT Panel) with both side termination using gland, lugs, core cutting, saddling, sealing etc. complete as per EIC. OR Equivalent Rating of Copper Lead Cable.		Rmtr	50		
G	GI Perforated Cable Tray (50mm x 50mm)		Rmtr	150		
H	4 Sqmm x 1Core Copper Flexivle DC Wires for DCDB Make : POLYCAB FRLS Grade		Rmtr	2500		
I	ACDB		Set	1		
	Enclosure with Bottom Entry					
	MCCB - 320 Amp (I/P)					
	Contactor - 320 Amp (O/P)					
	SPP & SPD					
	Make : L & T / Elmer					

J	25mm PVC Conduit Pipe & Accessories in White Color		Rmtr	300		
	Make : PRECISION / BLP or any ISI as per EIC approval					
K	320 Amp Outdoor Type Powder Coated Metering Panel with Canopy & MCCBs, Internal Wirings, Connections etc. complete		Set	1		
L	Lighting Arrester ESE Type for appropriate radius (Minimum 107 MT) As Per DISCOM/GEDA Guideline		Each	1		
	ESE Type LA of 5 Mtr Height					
	Earthing Rod of 17mm x 3 MT Copper Bounded (250 Micron) of Vasundhara / True Power / Power Tech					
	GI Earthing Strip 25mm x 3mm					
M	MC4 Connectors		Pair	RO		
N	Automatic Timer Based Water Sprinkler Cleaning System					
	1 HP Pressure Pump. Make : LUBI		Each	RO		
	1" dia UPVC 40 SCH Pipe & Accessories. Make : Astral		Rmtr	200		
	Sprinklers (As per Instllation)		Each	RO		
	Interconnection of total cleaning system piping to get appropriate pressure					
	The job includes connection with source, laying pipe line using appropriate support/ clamping as per EIC					

Note: The plant capacity may vary according to desing and space available.