



TENDER DOCUMENT

FOR

Supply, Installation, Testing, and Commissioning of Grid Connected Roof Top Solar Power Plant of Capacity 30 KWp at ICAI Bhawan – Kollad situated at SIRC of ICAI, ICAI Bhawan, Kollad Kottayam along with Comprehensive Operations and Maintenance for One Year.

BOOK- III

PRICE BID

PROJECT NAME: ICAI BHAWN KOTTAYM BUILDING GRID PROJECT 30 KWp SOLAR POWER PLANT

BILL OF QUANTITIES

DESIGN CRITERIA

S. No	Site Details	Remarks
1)	Roofs available for Solar PV Plant	Sheeted Roof
2)	Total number of solar modules	54 NOS
3)	Each solar module capacity	550Wp, Mono-PERC,144 cells Solar module
4)	Net DC Capacity	Net solar capacity-30KWp

COSTING OF THE WORK

SL NO	SOLAR ON GRID SYSTEM	QTY.	AMOUNT (Including GST) (in Rs.)
1	Charges for Supply, Installation, Testing, and Commissioning of Grid Connected Roof Top Solar Power Plant of Capacity 30kWp at ICAI Bhawan, Kottayam.	1 Set	
2	HT Net metering System & Solar Energy Meter	1 Set	

BILL OF MATERIAL

		Quantity	Unit
A	Material		
1	SOLAR MODULE		
a)	550 Wp Solar Mono-PERC module, 144 cells	54	Nos
2	SOLAR ONGRID INVERTER		
a)	Solar On grid Inverter30 kW	1	Nos
3	DC DISTRIBUTION BOX	1	Nos
a)	DCDB 4 IN 4 OUT with Fuse & Isolator (3MPPT)	ABB/Schneider/HAVELLS	
4	SUB & MAIN AC DISTRIBUTION BOX	1	Nos
a)	Sub AC Distribution box Suitable for Three Phase Inverter (1X63 Amp Incoming Outgoing MCCB with ACSPD & Multi-Function Meter)-IP54	Sungrow/ABB/Solar Edge	
5	CABLE		
	SOLAR MODULE TO INVERTER	800	Mtr
a)	1CX4Sqmm Solar cable XLPO-Flexible tinned copper Stranded class-5 conductors asper IEC-60228,Insulation- Crosslinked Polyolefin, Outer sheath -Halogen Free Polyolefin in Black Color	GLOSTER/FINOLEX/HAVELLS/POLYCAB/KEI	
	INVERTER TO AC DB	25	Mtr
b)	single core 16 Sq.mm Cu cable	FINOLEX/HAVELLS/POLYCAB/GLOSTER	
	AC DB TO LT ROOM PANEL	50	Mtr
c)	4CX50Sqmm Al conductor, XLPE insulated, Armoured Cables	FINOLEX/HAVELLS/POLYCAB/GLOSTER/KEI	
6	EARTHING SYSTEM		
	FOR STRUCTURE,INVERTER,ACDB	3	Nos
a)	1CX16sqmm, Aluminum Cable for MMS, Inverter & ACDB	FINOLEX/HAVELLS/POLYCAB/KEI	
	EARTHING PITS	4	Nos
b)	Earthing Chemical gel earthing Kit-2Mtr+20Kg bag	EXCEL/ ERICO/OBO /LPI	
	LIGHTNING ARRESTOR	1	Nos
c)	Multi spike	Excel/ ERICO/OBO /LPI	
d)	1CX,50sqmm Aluminum Cable	GLOSTER/HAVELLS/POLYCAB/KEI	
	LIGHTNING CONDUCTOR	50	Mtr
7	MODULE MOUNTING STRUCTURE	1	Nos
a)	Standard as per project	MEM/INDIANAGRATING/RMCON/ADITYA STEELINDUSTRIES/MM ENTERPRISE	
8	CONDUIT	120	Mtr
a)	HDPE Conduit 25mm	BEC/ATUL/RM CON/JPCCONDUIT/STEELCRAFT	