

IOCL- Sai -20kWp (SAi Services on NH-1 on Ambala Delhi road, , near KM stone No.-133, at village Jhanjhari Karnal(HR))

BOQ ITEM 04

Sl. No	Name of Work	S/I/O	Unit	Qty	weightage in %	Rate/Unit	Total
Part A							
1	Services related to Supplies made by BHEL						
	Material Handling and Safe Keeping upto Installation and Handing Over to customer. Complete details as per Technical spec.	O	KW	20	4.058%	₹0.20	₹4.06
2	Installation of items :						
(a)	PV Modules	I	Nos	68	3.711%	₹0.05	₹3.71
(b)	Inverter (10-100KWp)	I	Nos	1	1.663%	₹1.66	₹1.66
(c)	ACDB/ACCB (10-100KWp)	I	Nos	2	1.673%	₹0.84	₹1.67
3	Civil Pedestal						
a	Foundation and Pedestal etc	S&I	M3	2	5.100%	₹2.55	₹5.10
4	Cable Laying						
4a	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.						
4a1	16 Sq mm to 35 sq.mm AC	I	RMT	10	0.059%	₹0.01	₹0.06
4a2	6x4 Sq mm DC to 8x4 Sq mm DC	I	RMT	85	0.502%	₹0.01	₹0.50
4b	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.						
4b1	16 Sq mm to 35 sq.mm AC	I	RMT	15	0.105%	₹0.01	₹0.10
4c	<u>Cable Laying rates in case excavation to be done</u> Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.						
4c1	16 Sq mm to 35 sq.mm AC	I	RMT	30	0.896%	₹0.03	₹0.90
5	Supply & Installation of Conduits along with all accessories for Laying of Cable through it. Supplying and fixing of following sizes of medium class HDPE/uPVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.						
5a	50 mm	S&I	RMT	100	2.326%	₹0.02	₹2.33
6	Supply of Tray for Cable Laying						

6a	50-95 sq.mm	S&I	RMT	30	0.912%	₹0.03	₹0.91
7	Supply and installation of Earthing Strip						
7a	25x5 mm GI Strip	S&I	RMT	100	3.686%	₹0.04	₹3.69
8	Supply & Installation of Lightening Arrestor	S&I	No.	2	1.932%	₹0.97	₹1.93
9	Supply of Earthing Material and Installation after making of Suitable pit as per standard.						
9a	For chemical Earthing/ Conductor Earthing (Pipe)	S&I	No.	10	9.497%	₹0.95	₹9.50
10	Name Plates	S&I	Nos.	1	0.049%	₹0.05	₹0.05

Part B

1	Installation of BHEL supplied items :						
(a)	Isolation Transformer	I	Nos	1	1.431%	₹1.43	₹1.43
2	Integration with existing DG supply (Synchronization with DG set) - Supply of required kit with data logger and Installation						
a	Rating above 16KW - 50 KW	S&I	Set	1	15.834%	₹15.83	₹15.83
3	Grid Integration & start of Net Metering of Solar PV System by after getting all approvals, calibration through state department details attached as per scope for 10-100KW .	O	Set	1	2.505%	₹2.51	₹2.51
4	Supply of Bidirectional Meter and Installation of the same.						
4a	LTCT Meter (0.5s Class)	S&I	No	1	3.578%	₹3.58	₹3.58
5	Supply and Installation of Solar Meter						
5a	LTCT Meter (0.5s Class)	S&I	No	1	3.578%	₹3.58	₹3.58
6	Fire fighting equipment						
6a	Portable Fire extinguisher	S&I	No	2	3.578%	₹1.79	₹3.58

Part C

1	ACDB						
1a	20 kWp	S	No	1	3.809%	₹3.81	₹3.81
2	Supply and installation of Module Mounting Structure-Galvanised/Alumunimum/POSMAC (for 51 Modules)	S&I	Kw	20	25.119%	₹1.26	₹25.12
3	DC cable 1Cx4sqmm	S	RMT	500	2.780%	₹0.01	₹2.78
4	AC Cables Cu						
4a	4Cx10 sqmm	S	RMT	5	0.289%	₹0.06	₹0.29
5	AC Cables AL						
5a	3.5Cx25 sqmm	S	RMT	50	1.328%	₹0.03	₹1.33
Total							₹100.00

Offered Price						₹100.00
Total Price of Bidder						₹100.00

GST Rate as Follows		
5% on 70% of the total Value		₹3.50
18% on 30% of the total Value		₹5.40
Total Price Including GST		₹108.90