

6.5 MWp(DC)/ 5 MW(AC) GRID CONNECTED GROUND BASED SOLAR POWER PLANT AT NALANDA UNIVERSITY - RAJGIR, BIHAR							
Price Sheet							
Sl. No	Name of Work	S/I/O	Unit	Qty	weightage in %	Rate/Unit	Total
(A)	Supply, installation, testing & commissioning:-						
1	Installation & commissioning of BHEL supplied items :						
1(a)	PV Modules MC4 Connectors shall be supplied by Bidder & Min Two sets of Tool Kit shall be supplied by Bidder ( Approx 1000 Sets)	I	Nos	19,120	10.246%	₹0.00	₹10.25
1(b)	Optimizer (2:1)	I	Nos	9,560	3.771%	₹0.00	₹3.77
1(c)	Inverter & Accessories (50kVA- 200kVA)	I	Nos	50	0.872%	₹0.02	₹0.87
1(d)	Erection of Module Mounting Structure Required number of nuts & Bolts for the Installation of MMS shall be supplied by Bidder (SS304) a) M6- 162000 Nos b) M10 - 60000 Nos c) M16 -12000 Nos	I	Per Module	19,120	22.870%	₹0.00	₹22.87
2	ACDB supply & installation						
2(a)	Supply of ACDB/ACCB (50kVA-200kVA)	S	Nos	50	5.734%	₹0.11	₹5.73
2(b)	ACDB/ACCB (50kVA-200kVA)	I	Nos	50	0.481%	₹0.01	₹0.48
3	DC cabling						
3(a)	DC cable Laying through conduit pipe/ cable tray as per requirement - 8x4 Sq mm DC	I	RMT	7,500	1.061%	₹0.00	₹1.06
3(b)	Cable Ties that shall be in contractor scope of supply	S	AU	1	0.514%	₹0.51	₹0.51
3(c)	Supply of ferrule shall be in contactor scope	S	AU	1	0.386%	₹0.39	₹0.39
4	AC power Cabling (From Inverter to ACDB)						
4(a)	Supply of PVC sheathed XLPE copper conductor unarmoured 4core power cable of 1.1 KV grade of following size						
4(a)	50 Sqmm	S	RMT	75	0.607%	₹0.01	₹0.61
4(b)	Laying and fixing of PVC sheathed XLPE copper conductor unarmoured 4core power cable of 1.1 KV grade of following size (including supply of accessories such as lugs, gland).						
4(b)	Above 35 Sqmm to 95 Sqmm	I	RMT	75	0.011%	₹0.00	₹0.01
5	AC LT power Cabling (From ACDB to LT Panel)						
5(a)	Laying of PVC sheathed / XLPE, Armoured Aluminium conductor 4core 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						
	Above 95 Sqmm to 185 Sqmm	I	RMT	3,000	4.527%	₹0.00	₹4.53
6	AC LT power bus duct (From LT Panel to Transformer)						
6(a)	Busduct - 3200A	S	RMT	12	3.987%	₹0.33	₹3.99
6(b)	Busduct - 3200A	I	RMT	12	0.699%	₹0.06	₹0.70
7	AC - HT (11kV) 3Core power cabling from Transformer to HT Panel						
7(a)	Supply of PVC insulated and PVC sheathed / XLPE, 3 core Armoured Aluminium conductor power cable of 11 kV grade of following size						
	95 Sqmm	S	RMT	900	3.504%	₹0.00	₹3.50
7(b)	Laying of PVC insulated and PVC sheathed / XLPE, Armoured power cable of 11 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required						
	Above 35 Sqmm to 95 Sqmm	I	RMT	900	1.690%	₹0.00	₹1.69
7(c)	Clamps, hooks, ties, double compression cable glands, cable lugs , SS304 bolts/nuts/ plain and spring washers, anchoring arrangement shall be in contractor scope of supply	S	AU	1	0.857%	₹0.86	₹0.86
8	Supply & Installation of Conduits along with all accessories for cable laying						

	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.						
8(a)	50 mm	S&I	RMT	3,000	2.032%	₹0.00	₹2.03
<b>9</b>	<b>Supply &amp; Installation of cable tray</b>						
9(a)	upto 35sqmm	S&I	RMT	700	0.531%	₹0.00	₹0.53
9(b)	above 35sqmm upto 95sqmm	S&I	RMT	700	0.654%	₹0.00	₹0.65
9(c)	above 95sqmm	S&I	RMT	600	0.610%	₹0.00	₹0.61
<b>10</b>	<b>Supply and installation of Earthing Strip</b>						
10(a)	25x5 mm GI Strip	S&I	RMT	1,500	1.325%	₹0.00	₹1.32
10(b)	Earthing Wire (Green 2.5 Sqmm)	S&I	RMT	2,000	0.472%	₹0.00	₹0.47
<b>11</b>	<b>Supply of Earthing Material and Installation after making of Suitable pit as per standard.</b>						
11(a)	For chemical Earthing/ Conductor Earthing (Pipe) ( as per Approved Documents)	S&I	No.	70	1.593%	₹0.02	₹1.59
<b>12</b>	<b>Integration of Power</b>						
12(a)	Supply of LT Panel having rating of (415 volt, 3200 Amp, 2000kVA)	S	No	3	9.325%	₹3.11	₹9.32
12(b)	Installation & commissioning of LT panel having rating of (415 volt, 3200 Amp, 2000kVA) including termination of incoming & outgoing cables/busduct	I	No.	3	1.350%	₹0.45	₹1.35
<b>13</b>	<b>Supply &amp; Installation of :-</b>						
13(a)	Rating/Name Plate	S&I	No.	14	0.030%	₹0.00	₹0.03
13(b)	Display board	S&I	No.	2	0.171%	₹0.09	₹0.17
13(c)	Danger Board	S&I	No.	60	0.129%	₹0.00	₹0.13
<b>14</b>	<b>Fire fighting System</b>						
14(a)	Portable Fire extinguisher	S&I	Set	10	0.726%	₹0.07	₹0.73
14(b)	Fire Bucket set	S&I	Set	6	0.123%	₹0.02	₹0.12
<b>15</b>	<b>Lightning Protection</b>						
15(a)	Lightning Arrestor - ESE type	S&I	Nos	6	1.350%	₹0.23	₹1.35
15(b)	Event Counter	S&I	Nos	6	0.148%	₹0.02	₹0.15
15(c)	Mast (10 meter long)	S&I	Nos	6	0.315%	₹0.05	₹0.32
15(d)	Earthing strip (Cu 20 X 3)	S&I	RMT	80	0.098%	₹0.00	₹0.10
15(e)	Earthing pit (Cu plate type 600 X 600 X 3.15)	S&I	Set	12	1.363%	₹0.11	₹1.36
<b>16</b>	<b>Supply &amp; installation of Surveillance System</b>						
16(a)	CCTV based including mounting accessories, cables, storage devices, etc as per technical specification  1. 2 Nos of PTZ camera with structure (2MP) 2. 8 Nos of Bullet camera with structure (2MP) 3. NVR with Minimum 180 days 4. Accessories for installation of above.	S&I	Set	1	3.108%	₹3.11	₹3.11
<b>17</b>	<b>Net Metering including supply &amp; installation of Net meters, gross meters, CT, and other items &amp; accessories alongwith liaisoning with all related local / Govt authorities.</b>	S&I	Set	1	7.288%	₹7.29	₹7.29
<b>18</b>	<b>Security Round the clock</b>	<b>O</b>	<b>Months</b>	6	1.158%	₹0.19	₹1.16
<b>19</b>	<b>Unloading (BHEL Supplied Items)</b>	<b>O</b>	<b>Lump sum</b>	1	0.450%	₹0.45	₹0.45
<b>(B)</b>	<b>Civil Works:-</b>						
<b>1</b>	Foundation for inverter, ACDB, LT panel, etc.						
1(a)	PCC 1:1.5:3	S&I	Cum	30	0.805%	₹0.03	₹0.81
1(b)	Structure for Mounting GI	S	Kg	5,000	2.156%	₹0.00	₹2.16
1 (c)	Galvalume sheet for Canopy	S	SQM	240	0.823%	₹0.00	₹0.82
<b>2</b>	<b>Earth Work:-</b>						
2(a)	Excavation of earth	I	Cum	30	0.022%	₹0.00	₹0.02
2(b)	Back filling of earth	I	Cum	30	0.026%	₹0.00	₹0.03
<b>Total</b>							₹100.00

**Offered Price**

**₹100.00**

**GST Extra as applicable**