

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM (KARNATAKA) -360KW**

Sl. No	Name of Work	S/I/O	Unit	Qty	Rate/ Unit	Total	Rate/ Unit after Bidder's offer	Final offered price by Bidder
<b>Part A General Scope</b>								
<b>1</b>	<b>Services related to Supplies made by BHEL</b> Material Handling and Safe Keeping upto Installation and Handing Over to customer. Complete details as per Technical spec.	<b>0</b>	<b>KW</b>	<b>360</b>	<b>624.96</b>	<b>224985.6</b>	<b>625</b>	<b>224985.6</b>
<b>2</b>	<b>Installation of BHEL supplied items :</b>							
(a)	PV Modules	I	Nos	1115	251.1	279976.5	251	279976.5
(b)	Inverter (10-100KWP)	I	Nos	10	8278.86	82788.6	8279	82788.6
(c)	ACDB (10-100KWP)	I	Nos	5	4361.7	21808.5	4362	21808.5
<b>3</b>	<b>Structure Aluminum / Steel</b>							
a	Installation of Structure for Module Mounting on rooftop/Tin Shed.	I	Per Module	1115	362.7	404410.5	363	404410.5
<b>4</b>	<b>Civil Pedestal</b>							
a	Pedestal - PCC Blocks generally of Size 300*300*300 mm or more. Other support block sizes as per approved design may also be taken.	S&I	M3	55	11060.49	608326.95	11060	608326.95
<b>5</b>	<b>Monitoring of System Performance</b>							
	Data logger as per specification	S&I	1Set	6	18600	111600	18600	111600
<b>6</b>	<b>Cable Laying</b>							
<b>6a</b>	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.							
6a1	16 Sq mm to 35 sq.mm AC	I	RMT	250	30.69	7672.5	31	7672.5
6a2	6x4 Sq mm DC to 8x4 Sq mm DC	I	RMT	560	30.69	17186.4	31	17186.4
6a3	Above 35 Sq mm to 95 sq.mm AC	I	RMT	200	68.82	13764	69	13764
6a5	Above 95 Sq mm to 185 Sq mm AC	I	RMT	100	86.49	8649	86	8649
<b>6c</b>	<b>Cable Laying rates in case excavation to be done</b> 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.							
6c3	Above 35 Sq mm to 95 sq.mm AC	I	RMT	200	168.33	33666	168	33666
6c5	Above 95 Sq mm to 185 Sq mm AC	I	RMT	100	182.28	18228	182	18228
6c6	Above 185 Sq mm to 400 Sq mm AC	I	RMT	400	222.27	88908	222	88908
<b>7</b>	<b>Supply &amp; Installation of Conduits along with all accessories for Laying of Cable through it.</b> 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.							
7c	40 mm	S&I	RMT	500	85.56	42780	86	42780
7d	50 mm	S&I	RMT	200	120.9	24180	121	24180
<b>8</b>	<b>Supply of Tray for Cable Laying</b>							
8b	10-35 sq.mm	S&I	RMT	400	104.16	41664	104	41664
8c	50-95 sq.mm	S&I	RMT	400	158.1	63240	158	63240
<b>9</b>	<b>Supply and installation of Earthing Strip</b>							
9a	25x5 mm GI Strip	S&I	RMT	800	191.58	153264	192	153264
<b>11</b>	<b>Supply of Earthing Material and Installation after making of Suitable pit as per standard.</b>							
11a	For chemical Earthing/ Conductor Earthing (Pipe)	S&I	1No.	25	4936.44	123411	4936	123411
<b>12</b>	<b>Name Plates</b>	S&I	Nos.	15	255.75	3836.25	256	3836.25
<b>Part B Special Scope</b>								
<b>1</b>	<b>Maintenance of Solar RTS System</b>							
a	Daily maintenance of system by cleaning of modules on regular basis, daily recording of system performance, checking of joints and electrical connection. (Minimum technological requirement of manpower for the work) - (1) For cleaner - Matriculate (2) Electrician - ITI	0	Per month	1	24077.7	24077.7	24078	24077.7

*[Signature]*

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2	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	1No.	1	7440	7440	7440	7440
3	Supply of Bidirectional Meter and Installation of the same.							
a	HT Meter (0.2s Class)	S&I	No	1	44640	44640	44640	44640
4	Supply and Installation of Solar Meter							
a	LTCT Meter (0.5s Class)	S&I	No	1	18600	18600	18600	18600
5	LT Panel Supply and Installation							
a	Above 100KW to Upto 300 KW	S&I	Nos.	2	181350	362700	181350	362700
6	Fire fighting equipment							
a	Portable Fire extinguisher	S&I	1Set	8	9300	74400	9300	74400
7	Arrangement of Inspection by statutory authority like CEA, DISCOM/MNRE/ agency other than customer (example PMC) as applicable as part of contract requirement	O	per Manday	2	3720	7440	3720	7440
8	Lighting arrestor -special type (NFC series-European standard)	S&I	Nos	1	27900	27900	27900	27900
<b>Part C Items not covered in Part-A&amp;B</b>								
<b>Items Covered Under Part C</b>								
1	String Inverter							
1 (a)	30	S	No	7	148900	1042300	148900	1042300
1 (b)	50	S	No	3	221000	663000	221000	663000
2	ACDB							
	30	S	No	1	21750	21750	21750	21750
3	ACCB with Protection							
a	80 (2 in 1 out)	S	No	3	45780	137340	45780	137340
b	110 (3 in 1 out)	S	No	1	54425	54425	54425	54425
4	Support Structure for Module Mounting - Galvanised	S	Kg	22000	66.00	1452000	66	1452000
5	DC cable 1Cx4sqmm	S	RMT	8000	27	216000	27	216000
6	AC Cables Cu							
a	4Cx10 sqmm	S	RMT	70	280.58	19641	281	19640.6
b	4Cx25 sqmm	S	RMT	30	664.62	19939	665	19938.6
7	AC Cables Al							
a	4Cx25 sqmm	S	RMT	70	129	9030	129	9030
b	3.5Cx70 sqmm	S	RMT	50	252	12600	252	12600
c	3.5Cx95 sqmm	S	RMT	370	315	116550	315	116550
d	3.5Cx150 sqmm	S	RMT	200	466	93200	466	93200
e	3.5Cx400 sqmm	S	RMT	700	1143	800100	1143	800100
8	WMS	S&I	Nos.	1	80000	80000	80000	80000
<b>Total</b>						<b>7679418</b>		<b>7679418</b>

Offered price above or Below in Percentage (%)			Below	
			0.00%	

Total Price of Bidder				7679418	
GST Rate as Follows					
5% on 70% of the total Value				268780	
18% on 30% of the total Value				414689	
Total Price Including GST				8362886	

Note:  
Quantity mentioned in BOQ is a lump sum quantity. Payment shall be made based on actual measurement done after completion of work. Variation of +10% change in BOQ Quantity (on overall value basis) is acceptable. Bidder to take prior approval from BHEL-CFP for this variation clause.

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