

PRICE BID FORMAT							
Name of work : Supply, Erection & Commissioning of BOS and Operation & Maintenance (for Five years) of BOS for 1x65MW Solar power plant of NLC at Neyveli, Cuddalore District, Tamil Nadu							
Item. NO	DESCRIPTION OF ITEM	UNIT	TOTAL QTY.	RATE	AMOUNT (IN RS)	WEITAGE IN PERCENTAGE(%)	REMARKS
A	B	C	D	E	F	G	H
<b>SUPPLY ITEMS</b>							
1.00	Supply of HDPE conduits,cable ties, PVC pipes,hardware,tray supports etc						
1.01	Supply of 200MM cable ties (1 PAC=100 Pcs)	PAC	2080			0.51	
1.02	Supply of 63MM Dia HDPE Pipe (double walled corrugated (DWC) pipe )	Meter	19500			4.67	
1.03	Supply of PVC pipes (200mm Dia)	Meter	800			1.15	
1.04	Supply of Aluminium Trefoil clamps for 33 KV (UE) 1Cx 300 Sq mm HT Cable	NO	9000			1.36	
1.05	Supply of Aluminium Trefoil clamps for 1.1 KV 1CX630 Sq mm Cable	NO	4200			0.59	
2.00	<b>Supply of 33KV Metering Yard Equipments</b>						
2.01	Supply of ACSR conductor for carrying 800A current at 33kV voltage level	Meter	530			0.08	
2.03	Supply of Clamps & Connectors & bolts & nuts for interconnection of 33kV cables,CTs,PTs,GOS isolator,LA etc. with ACSR conductor as per attached metering yard layout (PY-LE-1-M088-2019-01) & TCC Cl.no 4.1(2)	SET	3			0.40	
2.04	Supply of Surge Suppressor for metering yard (1 phase)	NO	9			0.27	
2.05	Supply of 800A, 25KA for 1sec GOS Isolator with Earth Switch	NO	2			0.14	
2.06	Supply of 500A, 25KA for 1sec GOS Isolator with Earth Switch	NO	1			0.07	
2.07	Supply of 800A/5A Current Transformer (2Core),CL-0.2s (1 phase)	NO	18			1.24	
2.08	Supply of 500A/5A Current Transformer (2Core),CL-0.2s (1 phase)	NO	9			0.62	
2.09	Supply of Voltage Transformer 50VA with Jumper (1 phase) (33kV/110/√3V)	NO	27			1.73	
2.10	Supply of GI Structural Steel for 33 KV metering yard for mounting of CTs,PTs,GOS isolator,LAs, supporting ACSR conductor, 33kV cable support etc.	KG	20000			1.44	
3	<b>Supply items of module cleaning system:</b>						
3.01	Supply of Pipes & Fittings for Bore well	NO	11			1.25	
3.02	Supply of 3Hp or higher submeesible pump with Motor shall meet required flow and pressure	NO	11			0.71	
3.03	Supply of Single phase starter	NO	11			0.36	
3.04	Supply of Storage Tank 1500L (Syntex or equavlent PVC storage tank)	NO	11			0.03	
3.05	Supply of HDPE Pipe for Module Cleaning System,size shall be suitable require flow and pressure.	Meter	10000			2.73	
3.06	Supply of 1/2 inch Nipple	NO	300			0.07	
3.07	Supply of Hose 1/2 inch with gun	Meter	4000			0.56	
3.08	Supply of Valves for Module Cleaning System as per the BOQ indicated in TCC (Cl.4.5) SI no-4.	LOT	1			0.13	
3.09	Supply of Reducer 2 inch to 1/2 inch	NO	200			0.08	
3.10	Supply of 3HP or Higher Booster pump with motor with starter arragnment shall meet required flow nad pressure	NO	11			0.38	
3.11	Supply of Flow meter	NO	11			0.06	
3.12	Supply of Level indicater(Analog)	NO	11			0.06	
3.13	Supply of Accessories for pipe fitting as per the BOQ indicated in TCC (Cl.4.5).	SET	11			0.75	
3.14	Supply of 3C X 6 SQMM Cu flexible cable suitable for submerged in water.	Meter	1750			0.40	

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<b>4</b>	<b>Supply fo Miscellaneous items</b>			
4.01	Furniture items as per the BOQ indicated in TCC (Cl.4.11)	SET	2	
4.02	Supply of Board for electric shock	NO	15	0.38
4.03	Supply of Board for artificial respiration	NO	15	0.05
4.04	Supply of Board displaying dos and donts.	NO	15	0.05
4.05	Supply of Board displaying fire extinguishers data	NO	15	0.03
4.06	Supply of No smoking board	NO	16	0.03
4.07	Supply of Board showing list of O&M staff with names	NO	2	0.01
4.08	Supply of Board showing list of contact details	NO	4	0.01
4.09	Supply of Danger boards with details such as value	NO	78	0.19
4.10	Supply of Identification boards, of suitable sizes	NO	26	0.09
4.11	Supply of Checkered plate 6mm thick width-1000mm	KG	1950	0.12
4.12	Supply of DCP type 9kG capacity Fire Extinguishers with SBC powder catridge operated (200GM, IS 4947) with controllable discharge mechanism class B rating 34B as per IS 15683. including all necessary statutory certificates	NO	28	0.06
4.13	Two fire bucket with suitable MS Stand sets	NO	15	0.01
4.14	Supply of safety gadgets as per BOQ indicated TCC (Cl.4.17)	SET	2	0.10
4.15	Supply of Hume pipe 200 mm dia ( Light duty non pressure NP3 class RCC pipes with collars jointed	RM	650	0.49
4.16	Insulating mat Class A 2mm thick upto 3.3kV class, 10x1m as per IS-15652	NO	50	0.28
4.17	Insulating mat Class C 3mm thick upto 33kV class, 10x1m as per IS-15652	NO	17	0.17
	<b>Erection &amp; Commissioning of Items</b>			
<b>5</b>	<b>E&amp;C of Interconnection modules ,SMB's</b>			
5.01	Excavation ,laying,glanding etc of 6 sq.mm DC cables (Layin inside HDPE duct from PV modules to SMB)	Meter	7800	1.03
5.02	Erection of SMB Mounting Structure frame	NO	549	5.44
5.03	Installation of SMB Box	NO	549	2.54
5.04	Interconnection of MC4 Connector for 6sq.mm cable	NO	13200	2.30
5.05	6sq.mm 'DC Cable Termination between string and SMB	NO	549	0.26
<b>6</b>	<b>Erection &amp; Testing of Cables</b>			
6.01	Excavation for burying of 33kV cables,1.1KV grade cables , DC cables, OFC cables, Signal cables etc as per the list given Annexure-2 of TCC. (Burying of cable shall be strictly done as per IS: 1255)	Meter	8000	1.06
6.02	'1Cx300 SQMM Al Armour,33kV (UE) grade HT cable.These cables shall be laid in trefoil formation by using trfoil clamps.	Meter	25000	1.45
6.03	1C X 240 sq.mm DC cable Copper conductor, EBXL XLPE insulated, Armored including glanding & termination	Meter	250000	8.66
6.04	1Cx 630 sqmm, LT power cable: Al conductor including glanding & termination	Meter	10000	0.40
6.05	4Cx70 sqmm, 'LT power cable: Al conductor including glanding & termination	Meter	1000	0.03
6.06	4Cx35 sqmm, 'LT power cable,Al conductor including glanding & termination	Meter	2000	0.05
6.07	4Cx25 sqmm, LT power cable Al conductor including glanding & termination	Meter	8000	0.17
6.08	4Cx16 sqmm,LT power cable Al conductor including glanding & termination	Meter	15200	0.33

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6.09	4Cx10 sqmm, LT power cable Al conductor including glanding & termination	Meter	2000	Bidder need not fill any price here: This will be populated based on total quoted price to the weight	Bidder need not fill any price here: This will be populated based on total quoted price to the weight	0.04	
6.10	4Cx6 sqmm, LT power cable, Al conductor including glanding & termination	Meter	4000			0.08	
6.11	4Cx4 sqmm, LT power cable Al conductor including glanding & termination	Meter	5000			0.08	
6.12	3Cx4 sqmm, LT power cable Al conductor including glanding & termination	Meter	5000			0.08	
6.13	10Cx 2.5 sqmm, Control cable Copper conductor including glanding & termination	Meter	1500			0.04	
6.14	5Cx 2.5 sqmm, Control cable, Copper conductor including glanding & termination	Meter	2500			0.04	
6.15	2Cx 1.5 sqmm, Control cable, Copper conductor including glanding & termination	Meter	9500			0.12	
6.16	2Px0.5 sq.mm signal cable including glanding & termination	Meter	2500			0.03	
6.17	5Px0.5 sq.mm signal cable including glanding & termination	Meter	4000			0.05	
6.18	12Cx1.5 sq.mm signal cable laying glanding	Meter	1000			0.02	
6.19	CAT 5 ethernet cable including glanding & termination	Meter	3000			0.11	
6.20	RS 485 communication cable including glanding & termination	Meter	35000			1.31	
6.21	OFC cable for scada	Meter	17000			0.25	
6.22	OFC cable for telephone system	Meter	15000			0.22	
6.23	33KV, 1Cx300Sq.mm (UE) Al cable Termination	Nos	300	0.47			
6.24	Commissioning for the cables listed above Sl.No. 6.02 to 6.22	Lot	1	0.68			

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<b>7</b>	<b>Erection and Testing Elec Panel in PCSS:</b>			
7.01	Power Conditioning Unit including base channel erection (1AU= 4 no. PCU, EACH PCU DIM:3800MM x1000MMx3000MM)	AU	11	0.73
7.02	33kV VCB Panel including base channel erection (1AU=2 I/C + 1 O/G=3 PNLs, 3900MMx2725MMx2600MM)	AU	11	0.91
7.03	415V ACDB including base channel erection (1AU= 1No ACDB) 3500MMx600MMx2400MM)	AU	11	0.07
7.04	110V DC VRLA Battery including base channel erection (1AU=55AH capacity having 54 cells, 750MMx450MM)	AU	11	0.16
7.05	110V DC 15A Battery charger including base channel erection (1AU=ActivityEquivalent to 1 PCSS Room) (750MMx750MMx1500MM)	AU	11	0.16
7.06	SCADA RTU Panel including base channel erection (800MMx800MMx1600MM) (1AU=ActivityEquivalent to 1 PCSS Room)	AU	11	0.29
7.07	230V 5KVA UPS including base channel erection (1320MMx750MMx1600MM) (1AU=ActivityEquivalent to 1 PCSS Room)	AU	11	0.16
7.08	230V 5KVA UPS Battery including base channel erection (2550MMx800MM) (1AU=ActivityEquivalent to 1 PCSS Room)	AU	11	0.16
7.09	2.5MVA,33KV/350V Inverter Transformer (1AU=2 nos,2.5MVA Trans.Each dimension:3200MMx3100MMx3500MM)	AU	11	1.05
7.10	25kVA,350V/433V aux transformer (1 AU= 2 nos. 25KVA Auxiliary Trafo.)	AU	11	0.36
7.11	Commissioning equipment from Sl.7.01 to 7.08 (1AU=ActivityEquivalent to 1 PCSS Room)	AU	11	0.13
7.12	commissioning of 2.5MVA and 25KVA Inverter Transformers (1 AU= 2 nos. 2.5MVA Trafos and 2 nos. 25KVA Auxiliary Trafo.)	AU	11	0.07
7.13	Commissioning support for Fire alarm panel (Commissioning supervision by OEM) (1AU=ActivityEquivalent to 1 PCSS Room)	AU	11	0.03
7.14	Oil filtration of 2.5MVA Transformers (1AU=2 nos.2.5MVA transformers,oil capacity of each trafo around 1900 ltrs & 2 nos. 25kVA)	AU	11	0.18

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8	<b>E&amp;C Elec Panel Installation in PESS</b>						0.00
8.01	Power Conditioning Unit including base channel erection (1AU= 4 no. PCU, EACH PCU DIM:3800MM x1000MMx3000MM)	AU	2				0.13
8.02	33kV VCB Panel including base channel erection ( 1AU=9 I/C+1 B/C+2BPT+2 O/G+1 Spare=15 PNLs 19500MMX2725MMx2600MM)	AU	1				0.56
8.03	33kV VCB Panel including base channel erection ( 1AU=6I/C+1BPT+1 O/G+1 Spare=9 PNLs 11700MMX2725MMx2600MM)	AU	1				0.33
8.04	415V ACDB including base channel erection (1AU= 1No ACDB,) 3500MMx600MMx2400MM)	AU	2				0.01
8.05	SCADA at PESS including base channel erection associated HMI & Printers (1AU=1500MMx800MMx1600MM (Includes all the panel & associated cabling & Inegration as per Cl.4.37 of TCC)	AU	2				0.20
8.06	10kVA, 230V parallel redundant UPS including base channel erection ((1320MMx750MMx1600MM)) (1AU=ActivityEquivalent to 1 PESS Room)	AU	2				0.09
8.07	10kVA, 230V parallel redundant UPS Batteries including base channel erection (2550MMx800MM) (1AU=ActivityEquivalent to 1 PESS Room)	AU	2				0.09
8.08	110V DC VRLA Battery (1AU=165AH capacity having 54 cells, 750MMx450MM)	AU	1				0.01
8.09	110V DC VRLA Battery (1AU=105AH capacity having 54 cells, 750MMx450MM)	AU	1				0.01
8.10	110V DC 50A Battery charger including base channel erection (750MMx750MMx1500MM) (1AU=ActivityEquivalent to 1 PESS Room)	AU	1				0.01
8.11	110V DC 30A Battery charger including base channel erection (750MMx750MMx1500MM) (1AU=ActivityEquivalent to 1 PESS Room)	AU	1				0.01
8.12	2.5MVA.33KV/350V Inverter Transformer (1AU=2 nos,2.5MVA Trans.Each dimension:3200MMx3100MMx3500MM)	AU	2				0.19
8.13	Aux transformer 75KVA,350V/433V erection at PESS (1AU=2 nos,75KVA AUX Trafos.)	AU	2				0.07
8.14	IP based Tele phone exchange including base channel erection (800MMx800MMx2000MM) (1AU=Completed Telephone exchange in one PESS)	AU	2				0.02
8.15	Weather Monitoring system. (Includes Pyranometer for solar irradiation, thermometer for ambient temperature, anemometer for wind velocity associated cabling works) (1AU=Completed WMS in one PESS)	AU	2				0.53

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8.16	'Clean agent gas extinguishing system such as IG 541 / IG 55 which includes I&C of cylinders, pipes & fittings, manifolds, supply of mounting structures, Pressure relief devices, Nozzles, ball valves, Release panels, associated batteries, associated cabling, manifolds etc as per TCC (1AU=Activity Equivalent to 1 PESS Room)	AU	2	Price to the weightage percentage.	Price to the weightage percentage.	0.19	
8.17	Commissioning of equipment from Sl.no.8.01 to 8.16 (1AU=Completed Commissioning in one PESS)	AU	2			0.12	
8.18	commissioning of 2.5MVA and 75KVA Inverter Transformers (1 AU= 2 nos. 2.5MVA Trafos and 2 nos. 25KVA Auxiliary Trafo.)	AU	2			0.01	
8.19	Commissioning of Fire alarm panel (1AU=Completed Fire Alarm Panel in PESS)	AU	2			0.01	
8.20	Oil filtration of transformers at PESS. (1 AU= 2 nos. 2.5MVA Trafos and 2 nos. 25KVA Auxiliary Trafo.)	AU	2			0.03	
<b>9</b>	<b>E&amp;C: Erection &amp; Testing of 33kV metering yard:for 40MW (Refer Metering yard layout:(PY-LE-1-M088-2019-01)</b>						
9.01	Erection of structure for metering yard (1AU=Activity Equivalent to 1 Nos of O/G Fdr)	AU	3			0.99	
9.02	Erection of ACSR conductor erection and stringing of ACSR conductor upto gantry as per attached metering yard layout (PY-LE-1-M088-2019-01) (1AU=Activity Equivalent to 1 Nos of O/G Fdr)	AU	3			0.30	
9.03	Erection of CTs, PTs, LAs, GOS Isolator etc. (1AU=Activity Equivalent to 1 Nos of O/G Fdr)	AU	3			0.69	
9.04	Erection of ABT meter panel including calibration of meters in approved calibration centers of respective RLDC/State power utilities/CTU. It is the responsibility of the vendor to get ABT meters sealed by RLDC/ state power utilities/CTU.	Nos	9			1.07	
9.05	Testing & commissioning of metering yard Equipment (1AU=Completed Metering yard)	AU	3	0.69			
<b>10</b>	<b>E&amp;C: Earthing &amp; lightning system system: PCSS building, PESS building, Metering yard, DC array yard etc</b>			Bidder need not fill any price here. This will be	Bidder need not fill any price here. This will be		
10.01	75x10mm earth strip Laying of earth strip below ground	Mtrs	6000			0.77	
10.02	75x10mm Earth strip-Laying of earth strip above ground with equipment connections	Mtrs	2500			0.21	
10.03	50x6 mm earth strip-Laying of earth strip above ground with equipment connections	Mtrs	2400			0.14	
10.04	25x3mm earth strip-Laying of earth strip below ground	Mtrs	14000			0.95	
10.05	25x3mm earth strip-Laying of earth strip above ground with equipment connections	Mtrs	25000			1.13	
10.06	8swg-Laying of earth wire above ground with equipment connections	Mtrs	5000			0.12	
10.07	35x6 mm earth strip-Laying of earth strip above ground for lightning protection system	Mtrs	1300			0.07	
10.08	65mm GI Pipe electrode-Installation of Earth Pit including filling with charcoal and salt	Mtrs	160			0.95	
10.09	40mm GI Rod electrode-Installation of Earth Pit including filling with charcoal and salt	Mtrs	115			0.68	
10.10	Installation of vertical air termination rods	Nos	30			0.07	
10.11	Installation Lightning Protection(ESE)	NO	52			0.79	

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11	<b>E&amp;C of cable Trays</b>			e populated based on total quoted price to the weightage percentage.	e populated based on total quoted price to the weightage percentage.			
11.01	600W Ladder type GI cable tray including support erection	Mtrs	1500				0.19	
11.02	300W Peforated cable tray including support erection	Mtrs	800				0.10	
12	<b>Erection&amp;Commissioning: Outdoor area Lighting system (refer attached outdoor area illumination layout)</b>							
12.01	120W LED Flood Light Fixture	NO	4				0.01	
12.02	40 W LED Batton Fixture	NO	20.00				0.01	
12.03	30 W LED street Fixture	NO	957.00				0.15	
12.04	Poles 2.2 Mtrs & 4.2 Mtr Poles	NO	960.00				0.90	
12.05	Poles 11 Mtrs Poles	NO	4.00				0.01	
12.06	JBs/Welding receptacles/TPN Socket/Surface mounted board/	NO	40				0.01	
12.07	Commissioning of Illumination system	LOT	2		0.05			
13	<b>E&amp;C:Module Cleaning system:</b> *1 AU = Activity equivalent to 1 out of 13 No 5 MW Site.	AU	13		2.58			
14	<b>E&amp;C: Construction of bore wells:</b> *1 AU = Activity equivalent to 1 out of 11 No bore well.	AU	11		1.45			
15	<b>E&amp;C: Commissioning , state clearance</b> *1 AU = Activity equivalent to 1 out of 2 Sites.	AU	2		3.10			
16	<b>Operation &amp; Maintenance</b>							
16.01	<b>Operations and Maintanace per Momnth ( five years)</b>  (1 AU = Activity equivalent to 1 Months out of 60 Months)	AU	60		23.46			
	<b>Total=</b>				<b>100.00</b>			
	<b>TOTAL AMMOUNT FOR SUPPLY,E&amp;C and O&amp;M( in figures)=</b>							
	<b>TOTAL AMOUNT FOR Supply,E&amp;C and O&amp;M ( in words ) =</b>							
	<b>Notes:</b>							
1	The rate and amount are inclusive of all applicable taxes, except for the service tax. For details of taxes, clause no. 8.0 of the TCC, Part-I will be applicable.							
2	Bidders should quote only the (Total Amount for Supply, E&C and O&M) both in figures & words in the specified place. They should not fill/quote/write anything in col. ( E ) & ( F ). These rates & amount will be derived based on total quoted rates and corresponding weightage rates for individual line items shown in col. ( G ).							
3	The unit rate for item no. 6.24,8.17,12.07 & 16.01 derived from the weightage % shown above will be reduced to 61.54% and 38.46% for arriving at unit rate for contract for 40 MW site and 25 MW site respectively.							
4	The unit rate for various items pertaining to BOQ-A and BOQ-B will be the same rates derived as per S. No. 2 & 3 of Notes above. Total amount of various items & overall contract value for 40 MW site ( BOQ-A) and 25 MW site (BOQ-B) will be arrived at, by multiplying the unit rates derived as above with respective BOQ quantities.							