

UnPrice Bid Format

Name of work : Supply,Erection & Commissioning of Balance of System items at Solar Power plant of NTPC, Mandsuar, MP.

ITEM NO	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT (Rs)	WEIGHTAGE RATE IN PERCENTAGE (%)
(A)	(B)	(C)	(D)	(E)	(F)	(G)
SUPPLY ITEMS						
1	Supply of HDPE conduits,cable ties, PVC pipes,cable lugs, hardware			Bidder neede not fill any price here. This will be filled (populated) based on total quoted Price.	Bidder neede not fill any price here. This will be filled (populated) based on total quoted Price.	
1.a	Supply of 200MM cable ties(1 Packet =Packet of 100 cablet ties as per clause no.4.23 of TCC)	Packet	1600			0.47
1.b	Supply of 63MM HDPE Pipe	Meter	15000			4.22
1.c	Supply of PVC pipes	Meter	620			1.05
1.d	Supply of cable lugs ,glands & trefoil clamps(Qty. of various materials to be supplied in set shall be as per clause no.4.25,4.26,4.31 & 4.34 of TCC)	Set	1			1.80
2	Supply of 33KV Metering Yard Equipments as per clause 4.1,4.2 & 4.7 of TCC					
2.a	Supply of ABT meter (Check MainStandby-with	NO	2			0.93
2.b	Supply of ABT Meter only (without Enclosure)	NO	4			0.33
2.c	Supply of ACSR (Panthar conductor)	Meter	150			0.03
2.d	Supply of Clamps & Connectors & bolts & nuts (Qty. of various materials to be supplied in set shall be as per clause no.4.1,4.2 & 4.7 of TCC	Set	1			0.31
2.e	Supply of Surge Supressor for metering yard	NO	6			0.21
2.f	Supply of 1250A, 25KA for 1sec Isolator with Earth Switch	NO	2			0.17
2.g	Supply of 1200A Current Transformer (2Core),CL-0.2	NO	6			0.48
2.h	Supply of Voltage Transformer (2Core) 50VA with Jumper	NO	6	0.45		
2.i	Supply of GI Structural Steel for 33 KV meter	KG	5600	0.48		

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(A)	(B)	(C)	(D)	(E)	(F)	(G)
3	Supply items of module cleaning system as per clause 4.5 of TCC:					
3.a	Supply of Pipes & Fittings for Bore well	NO	10			1.34
3.b	Supply of 3Hp booster Motor	NO	10			0.76
3.c	Supply of Single phase starter	NO	10			0.38
3.d	Supply of Storage Tank 1500L	NO	10			0.03
3.e	Supply of HDPE Pipe for Module Cleaning System	Meter	7000			2.25
3.f	Supply of 1/2 inch Nipple	NO	200			0.05
3.g	Supply of Hose 1/2 inch with gun	Meter	2500			0.41
3.h	Supply of Valves for Module Cleaning System(Qty. of various materials to be supplied in Lot shall be as per clause no.4.5 of TCC)	LOT	1			0.12
3.i	Supply of Reducer 2inch to 1/2 inch	NO	150			0.07
3.j	Supply of Booster pump with starter arrangement	NO	10			0.40
3.k	Supply of Flow meter	NO	10			0.06
3.l	Supply of Level indicator	NO	10			0.06
3.m	Supply of Accessories for fitting (Qty. of various materials to be supplied in set shall be as per clause no.4.5 of TCC)	Set	10			0.80
3.n	Supply of 3C X 6 SQMM flexible water insulation	Meter	1250			0.33
4	Supply of Lightning protection system as per clause 4.3 & 4.4 of TCC					
4.a	Supply of LA ESE type	NO	40			2.50
4.b	Supply of Lightning Event counter	NO	40			0.79
4.c	Supply of 6Mts MS pipe 101.5 dia with hotdip	NO	40			0.64
4.d	Supply of Copper SC flexible Down conductor	Meter	720			0.26
4.e	Supply of Test link	NO	80			0.01
4.f	Supply of Earth pit for lightning	NO	80			0.29
4.g	Supply & Installation of Chemical Earthing pits	NO	180			1.85
5	Supply of Overhead transmission line(15MWp each from Inverter room to CMCS) as per clause 4.0 & 4.2 of TCC:					
5.a	Supply of ACSR conductor (33kV, 15MWp)	Meter	24000			2.02
5.b	Supply of Pole	NO	80			1.04
5.c	Supply of Pin Insulators with pin (Qty. of various materials to be supplied in Lot shall be as per clause no.4.0 & 4.2 of TCC)	LOT	480			0.47
5.d	Supply of Strain Insulators (Qty. of various materials to be supplied in Lot shall be as per clause no.4.0 & 4.2 of TCC)	LOT	240			0.54
5.e	Supply of RSJ Poles	NO	15			0.60
5.f	Supply of Double cross arms	NO	240			0.30
5.g	Supply of GOS 300A, 33kV	NO	20			0.69
5.h	Supply of LA 33kV, 10kA, Class 2	NO	60			0.74
5.i	Supply of Misc items (anti climbing, clamps, nuts bolt, painting, danger boards and other accessories etc) (Qty. of various materials to be supplied in Lot shall be as per clause no.4.0 & 4.2 of TCC)	LOT	1			0.06

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(A)	(B)	(C)	(D)	(E)	(F)	(G)
6	Supply fo Miscellanious items as per clause 4.9 to 4.17 of TCC:					
6.a	Supply of Revolving Chairs, swivel type, with arm	NO	8	Bidder needs not fill any price here. This will be filled (populated) based on total quoted Price.	Bidder needs not fill any price here. This will be filled (populated) based on total quoted Price.	0.14
6.b	Supply of PC table with chairs	NO	8			0.18
6.c	Supply of Board for electric shock	NO	11			0.04
6.d	Supply of Board for artificial respiration	NO	11			0.04
6.e	Supply of Board displaying dos and donts.	NO	11			0.02
6.f	Supply of Board displaying fire extinguishers data	NO	11			0.02
6.g	Supply of No smoking board	NO	12			0.01
6.h	Supply of Board showing list of O&M staff with names as per clause 4.10 of TCC	SET	1			0.001
6.i	Supply of Board showing list of contact details	NO	2			0.01
6.j	Supply of Danger boards with details such as value	NO	60			0.18
6.k	Supply of Identification boards, of suitable sizes	NO	20			0.09
6.l	Supply of Checkered plate 6mm thick width-1000mm	KG	1500			0.11
6.m	Fire Extinguishers and Sand buckets (Qty. of various materials to be supplied in set shall be as per clause no.4.16 of TCC)	Set	1			0.28
6.n	Supply of safety gadgets (Qty. of various materials to be supplied in set shall be as per clause no.4.17 of TCC)	Set	1			0.06
6.o	Supply of hot dipped Galvanised structure steel channel (ISMC) 75mm*40mm*6mm	Metric Ton	10			0.54
6.p	Supply of hot dipped Galvanised structure steel Angle (ISA) 50mm*50mm*6mm	Metric Ton	3.5			0.19
6.q	Supply of Hume pipe 200 mm dia (Light duty non pressure NP3 class RCC pipes with collars jointed	Runnin g Meter	500	0.44		
6.r	Insulating mat Class A 2mm thick upto 3.3kV, 10x1m	NO	40	0.27		
6.s	Insulating mat Class C 3mm thick upto 33kV, 10x1m	NO	10	0.12		
6.t	Fire proof sealing material	Sq, m	100	0.22		

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(A)	(B)	(C)	(D)	(E)	(F)	(G)
7	Supply of Spares (Qty. of various materials to be supplied in set shall be as per clause no.4.41 of TCC)	Set	1			0.95
E & C ITEMS:						
8	E & C of Interconnection modules ,SMB's as per clause 4.20 to 4.26 of TCC:					
8.a	Trench excavation for cables from PV modules to SMB	Meter	6000			1.07
8.b	Installation of SMB Box	NO	400			2.50
8.c	Interconnection of MC4 Connector , including termination in SMB	NO	8400			1.98
8.d	DC Cable Termination	NO	400			0.25
9	E & C of Trenches,cable laying as per clause 4.33 of TCC:					
9.a	Cable trench excavation for LT AC /DC Power cables	Meter	8000			1.43
9.b	DC cable cable laying	Meter	50000			1.79
9.c	HT/LT/Signal cable laying	Meter	100000			3.93
9.d	Termination of cable as per clause 4.33 of TCC	Set	1			0.23
10	I&C Elec Panel Installation in Inverter room as per clause 4.6,4.27 TO 4.31,4.35 & 4.36 of TCC:					
10.a	Cable tray and panel frame erection (1 AU = activity equivalent to 1 of the 10 inverter rooms)	AU	10			0.40
10.b	I&C PCU at IR (1 AU = activity equivalent to 1 of the 10 inverter rooms)	AU	10			0.80
10.c	I&C VCB at IR (1 AU = activity equivalent to 1 of the 10 inverter rooms)	AU	10			1.00
10.d	I&C ACDB at IR (1 AU = activity equivalent to 1 of the 10 inverter rooms)	AU	10			0.08
10.e	I&C UPS DB (1 AU = activity equivalent to 1 of the 10 inverter rooms)	AU	10			0.08
10.f	I&C SCADA at IR (1 AU = activity equivalent to 1 of the 10 inverter rooms)	AU	10			0.32
10.g	I&C UPS with battery at IR (1 AU = activity equivalent to 1 of the 10 inverter rooms)	AU	10			0.36
10.h	Earthing of equipmet at IR (1 AU = activity equivalent to 1 of the 10 inverter rooms)	AU	10			0.80
10.i	Testing & Commissioning at IR (1 AU = activity equivalent to 1 of the 10 inverter rooms)	AU	10			1.13

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(A)	(B)	(C)	(D)	(E)	(F)	(G)
11	I&C Elec Panel Installation in CMCS room as per clause 4.6,4.27 TO 4.31,4.35&4.36 of TCC :					
11.a	Cable tray and panel frame erection(1 AU = activity equivalent to 1 CMCS room)	AU	1			0.13
11.b	I&C VCB at CMCS (1 AU = activity equivalent to 1 CMCS room)	AU	1			0.80
11.c	I&C ACDB at CMCS (1 AU = activity equivalent to 1 CMCS room)	AU	1			0.02
11.d	I&C UPS DB (1 AU = activity equivalent to 1 CMCS room)	AU	1			0.02
11.e	I&C SCADA at CMCS(1 AU = activity equivalent to 1 CMCS room)	AU	1			0.13
11.f	I&C HMI desk at CMCS (1 AU = activity equivalent to 1 CMCS room)	AU	1			0.18
11.g	I&C UPS with battery at CMCS (1 AU = activity equivalent to 1 CMCS room)	AU	1			0.12
11.h	I&C Battery bank at CMCS (1 AU = activity equivalent to 1 CMCS room)	AU	1			0.05
11.i	I&C FCBC at CMCS (1 AU = activity equivalent to 1 CMCS room)	AU	1			0.09
11.j	Testing & Commissioning at CMCS (1 AU = activity equivalent to 1 CMCS room)	AU	1			0.13
12	I&C: Erection of 33kV metering yard as per clause 4.1 to 4.2 of TCC:					
12.a	33kv metering Yard- earth strip laying, laying of earthing electrodes and earth pit construction (1 AU = activity equivalent to 33KV Metering yard)	AU	1			0.45
12.b	Erection of structure at metering yard (1 AU = activity equivalent to one of the two solar feeders of 33KV Metering yard)	AU	2			0.89
12.c	laying of 33Kv cable and ACSR conductor (1 AU = activity equivalent to one of the two solar feeders of 33KV Metering yard)	AU	2			0.27
12.d	trench for metering yard (1 AU = activity equivalent to one solar feeders of 33KV Metering yard)	AU	1			0.13
12.e	Testing & commissioning of metering yard (1 AU = activity equivalent to 33KV Metering yard)	AU	1			0.63
12.f	Mounting of CT PT LA Isolator, ABT meter etc (1 AU = activity equivalent to one of the two solar feeders of 33KV Metering yard)	AU	2			0.63

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(A)	(B)	(C)	(D)	(E)	(F)	(G)
13	I&C: 33 KV S/yard at Inv room as per clause 4.32 to 4.33 of TCC:					
13.a	I&C Transformer erection 2.5MVA at IR (1 AU = activity equivalent to 1 of the 10 33kv swyd at inverter rooms)	AU	10			0.64
13.b	I&C aux transformer erection at IR (1 AU = activity equivalent to 1 of the 10 33kv swyd at inverter rooms)	AU	10			0.40
13.c	I&C Transformer yard earthing at IR (1 AU = activity equivalent to 1 of the 10 33kv swyd at inverter rooms)	AU	10			0.64
13.d	Oil filtration of transformers (1 AU = activity equivalent to 1 of the 10 33kv swyd at inverter rooms)	AU	10			0.11
13.e	Testing and commissioning of trf yard (1 AU = activity equivalent to 1 of the 10 33kv swyd at inverter rooms)	AU	10			0.52
14	I&C: 33 KV S/yard at CMCS room as per clause 4.32 to 4.33 of TCC:					
14.a	Trench excavation for cables at CMCS yard	AU	1			0.22
14.b	I&C Inv Trf erection at CMCS yard	AU	1			0.07
14.c	I&C aux trf erection at CMCS yard	AU	1			0.04
14.d	I&C transformer yard earthing at CMCS yard	AU	1			0.07
14.e	Oil filtration of trf	AU	2			0.02
14.f	Testing and commissioning of CMCS yard	AU	1			0.06
15	I&C: CCTV System as per clause 4.8 of TCC::					
15.a	Cable laying on Wall/ceiling ,inexisting conduit,recess &	M	26000			0.63
15.b	Laying of GI/MS conduit on wall ceiling	M	100			0.01
15.c	Erection and installation of sub units at identified and designated locations as per clause 4.8 of TCC	Lump Sum	1			0.33
15.d	Supervision of system , Integration,Testing & Commissioning as per clause 4.8 of TCC	Lump Sum	1			0.08
16	I&C:WMU & SCADA System as per clause 4.37 of TCC:					
16.a	Installation of Weather Monitoring system as per clause 4.8 of TCC	Set	1			0.36
16.b	Installaltion of Scada system as per clause 4.8 of TCC	Set	1			0.71
16.c	Integration of Scada system as per clause 4.8 of TCC	Set	1			0.18
17	I&C: Earthing system: Array, S/yard etc as per clause 4.3,4.4&4.6 of TCC					
17.a	Installation of Earth Pit including back pits	NO	250			2.01
17.b	Laying of earth strips of various length(Including installation of Lightning equipments)	Meter	20000			1.07

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(A)	(B)	(C)	(D)	(E)	(F)	(G)
18	I&C:Lighting system as per clause 4.38 of TCC	Set	10	Bidder neede not fill any price here.This will be filled (populated) based on total quoted Price.	Bidder neede not fill any price here.This will be filled (populated) based on total quoted Price.	3.13
19	I&C:Module Cleaning system as per clause 4.5&4.39 of TCC	Set	10			1.90
20	I&C:Misc Items ABT Meters,fire alarm sys etc as per clause 4.9 to 4.17 of TCC	Set	1			0.44
21	I&C: Construction of bore wells as per clause 4.5&4.39 of TCC	Set	10			1.79
22	I&C: 33 KV Over Head Tansmission Lines as per clause 4.0&4.2 of TCC	Set	1			0.52
23	I&C: Commissioning , state clearance as per clause 4.40 of TCC	Set	1			2.10
Operation & Maintenance						
25	Operations and Maintanace per Month (five years) as per clause 6.0 of TCC	Months	60			24.41
TOTAL AMOUNT FOR Supply,I&C and O&M (in figures) =						
TOTAL AMOUNT FOR Supply,I&C and O&M (in words) =						
Notes:						
1	For Item no. 2, 3, 4 & 5 above, if any other additional item(s) not listed above, but are required to meet the functional requirement of the system, Supply,Erection and Commissioning of the system shall be included in the scope of the vendor. Above price qouted shall be inclusive of all such items and the bidders shall not qouted them separately.					
2	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 will be applicable.					
3	Bidders should quote only the (Total Amount for Supply, I&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).					