

PACKAGE: 49B (1)/2014-15- PHULBANI-BOUDH

ODISHA POWER TRANSMISSION CORPORATION LIMITED

NAME OF THE WORK:-Construction of 132KV SC line on DC tower from existing 132/33KV Phulbani grid substation to 132/33KV Boudh grid substation with 132KV feeder bay extension at both Phulbani & Boudh substations on turnkey basis. (Approximate 132 KV line length 65.82 Kms).

NOTICE INVITING TENDER-NIT NO. 49/2014-15 & BID DOCUMENT No.-Sr. G.M- CPC-TENDER- PACKAGE- 49/2014-15

SCHEDULE-2A-SUPPLY (Equipment/Materials Price Break-up of Ex-works Prices against Package-49B (1)/2014-15-PHULBANI-BOUDH)

SUPPLY SUBSTATION EQUIPMENT & MATERIALS		NAME OF THE BIDDER															
Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2A-SS) SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS (As per Technical Specification)	UNITS	QUANTITY for Construction of 1 No. 132 KV Feeder Bay extension at PHULBANI	QUANTITY for Construction of 1 No. 132 KV Feeder Bay extension at PHULBANI for BODH	TOTAL QUANTITY	Unit Ex-Works Price IN INR	Total Ex-Works Price IN INR	Unit F&I Charges IN INR	Total F&I Charges IN INR	Mode of Transaction (Direct or Bought out item)	Unit Excise duty IN INR	Unit VAT IN INR	Unit CST in INR	Any other tax IN INR	Total Taxes and duties/unit IN INR	Unit FORD Price except Entry Tax IN INR	TOTAL FORD Price except Entry Tax IN INR
1	2	3	4	5	6=4+5	7	8=6X7	9	10=6X9	11	12	13	14	15	16=12+13+14+15	17=9+12+13+14+15	18=17x6
1	145 KV,800-400-200 A,31.5 KA,4CORE SINGLE PHASE CURRENT TRANSFORMER (3 NOS PS CLASS & 1 NO. 0.2s CLASS)	NOS	4	5	6		0.00		0.00						0.00	0.00	0.00
2	145 KV 1200A 31.5KA ISOLATORS	NOS	1	1	2		0.00		0.00						0.00	0.00	0.00
2.1	251 WITH OUT EARTH SWITCH	NOS	1	1	2		0.00		0.00						0.00	0.00	0.00
2.2	251 WITH SINGLE EARTH SWITCH	NOS	1	1	2		0.00		0.00						0.00	0.00	0.00
2.3	251 WITHOUT EARTH SWITCH	NOS	1	1	2		0.00		0.00						0.00	0.00	0.00
3	145 KV 6000P 3 CORE SINGLE PHASE CAPACITOR VOLTAGE TRANSFORMER	NOS	1	1	2		0.00		0.00						0.00	0.00	0.00
4	120 KV METAL OXIDE SURGE ARRESTOR, 10 KA, Class III	NOS	3	3	6		0.00		0.00						0.00	0.00	0.00
5	145 KV 2 CORE SINGLE PHASE I.V.T	NOS	0	0	0		0.00		0.00						0.00	0.00	0.00
6	132 KV Bus Post Insulators	NOS	2	2	4		0.00		0.00						0.00	0.00	0.00
7	145KV,3150A,40KA SFC CIRCUIT BREAKER WITH SUPPORTING STRUCTURE	NOS	1	1	2		0.00		0.00						0.00	0.00	0.00
8	BUS BAR & CIRCUIT MATERIALS																
8.1	TENSION & SUSPENSION ANTI FOG TYPE INSULATOR STRING																
8.1.1	120 kN ANTI FOG INSULATOR STRING for Double Zebra cond (TENSION)-132 KV	SET	6	0	6		0.00		0.00						0.00	0.00	0.00
8.1.2	120 kN ANTI FOG INSULATOR STRING for Single Zebra cond (TENSION)-132 KV	SET	12	18	30		0.00		0.00						0.00	0.00	0.00
8.1.3	90 kN ANTI FOG INSULATOR STRINGS for Double/Single Zebra cond (SUSPENSION)-132 KV	SET	9	9	18		0.00		0.00						0.00	0.00	0.00
8.2	ACSR MESSING CONDUCTOR	KM	0.5	0.5	1		0.00		0.00						0.00	0.00	0.00
8.3	ACSR Plainbar CONDUCTOR	KM	0.25	0.25	0.5		0.00		0.00						0.00	0.00	0.00
8.4	HARDWARES & FITTINGS/SPACERS/CLAMP & CONNECTORS	LOT	1	1	2		0.00		0.00						0.00	0.00	0.00
8.5	EARTH SPIKES & IT'S HARDWARES & FITTING	SET	3	3	6		0.00		0.00						0.00	0.00	0.00
8.6	SUBSTATION EARTHING SYSTEMS																
8.6.1	EARTHING CONDUCTOR FOR BURIAL : 75X10 mm GI Flat for laying (spacing maximum 1.2m both way)	MT	4.186	4.186	8.372		0.00		0.00						0.00	0.00	0.00
8.6.2	EARTHING CONDUCTOR: 50X6 mm GI Flat for Raiser from the burial earth mat to equipment structure etc)	MT	1.125	1.125	2.25		0.00		0.00						0.00	0.00	0.00
8.6.3	EARTHING DEVICE & ASSOCIATED ACCESSORIES (50 mm heavy duty GIPERFORATED PIPE 3 mtrs long for treated earth pit)	NOS	25	25	50		0.00		0.00						0.00	0.00	0.00
8.6.4	EARTHING DEVICE & ASSOCIATED ACCESSORIES 40mm MS rod 3 mtrs long for non treated earth pit)	NOS	25	25	50		0.00		0.00						0.00	0.00	0.00
8.6.5	GI Cable Trays including support GI angle suitable for different sections i.e. Section:1-1,2-2,3-3 & 4-4 along with its accessories as per TS.	MT	180	180	360		0.00		0.00						0.00	0.00	0.00
8.7	CT, PT & CVT Out Door Console Boxes (132 KV CT 1 NO + 1 No., 132 KV CVT-1 No. + 1 No.)	NOS	2	2	4		0.00		0.00						0.00	0.00	0.00
8.7.1	BAY MARSHALLING KIOSK (01 No + 01 No, 132 kv bay)	NOS	1	1	2		0.00		0.00						0.00	0.00	0.00
9	SWITCH YARD STRUCTURES (LATTICE TYPE) FOR 132/33 KV CLASS INCLUDING FOUNDATION BOLTS & NUTS.																
9.1	DIFFERENT TYPES OF COLUMNS WITH DETAILS																
9.1.1	T1S - 132 KV(NOMINAL UNIT WT- 1.2 MT)	NOS	2	2	4		0.00		0.00						0.00	0.00	0.00
9.1.2	T4S - 132KV (NOMINAL UNIT WT- 0.95 MT)	NOS	1	1	2		0.00		0.00						0.00	0.00	0.00
9.1.3	T8S - 33KV(NOMINAL UNIT WT- 0.8 MT)	NOS	0	0	0		0.00		0.00						0.00	0.00	0.00
9.1.4	T9S - 33KV(NOMINAL UNIT WT- 0.6 MT)	NOS	0	0	0		0.00		0.00						0.00	0.00	0.00
9.2	DIFFERENT TYPE OF BEAMS WITH DETAILS																
9.2.1	G1 - 132 KV(NOMINAL UNIT WT- 0.62 MT)	NOS	2	2	4		0.00		0.00						0.00	0.00	0.00
9.2.2	G1X - 132 KV (NOMINAL UNIT WT- 1.4 MT)	NOS	0	0	0		0.00		0.00						0.00	0.00	0.00
9.2.3	G2 - 132 KV(NOMINAL UNIT WT- 0.91 MT)	NOS	2	2	4		0.00		0.00						0.00	0.00	0.00
9.2.4	G1.2 - 132 KV(Each two beams of G1 type) (NOMINAL UNIT WT- 1.25 MT)	NOS	0	0	0		0.00		0.00						0.00	0.00	0.00
9.2.5	G6 - 33KV (NOMINAL UNIT WT- 0.53 MT)	NOS	0	0	0		0.00		0.00						0.00	0.00	0.00
9.2.6	G4 - 33KV(NOMINAL UNIT WT- 0.4 MT)	NOS	0	0	0		0.00		0.00						0.00	0.00	0.00
9.2.7	G4X - 33KV (NOMINAL UNIT WT- 0.4 MT)	NOS	0	0	0		0.00		0.00						0.00	0.00	0.00
9.3	TOTAL WEIGHT OF COLUMN & BEAM	MT			12.96		0.00		0.00						0.00	0.00	0.00
9.4	SUPPORT STRUCTURES (LATTICE/PIPE TYPE) FOR ALL 132 KV & 33KV EQUIPMENTS																
9.4.1	ISOLATORS-132KV	NOS	2	2	4		0.00		0.00						0.00	0.00	0.00
9.4.2	ISOLATORS-33 KV	NOS	0	0	0		0.00		0.00						0.00	0.00	0.00
9.4.3	CTS-132 KV	NOS	3	3	6		0.00		0.00						0.00	0.00	0.00
9.4.4	CTS-33 KV	NOS	0	0	0		0.00		0.00						0.00	0.00	0.00
9.4.5	CVTS-132 KV	NOS	3	3	6		0.00		0.00						0.00	0.00	0.00
9.4.6	CVTS-132 KV	NOS	0	0	0		0.00		0.00						0.00	0.00	0.00
9.4.7	CVTS 33 KV	NOS	0	0	0		0.00		0.00						0.00	0.00	0.00

SUPPLY SUBSTATION EQUIPMENT & MATERIALS		NAME OF THE BIDDER															
Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2A-SS) SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS (As per Technical Specification)	UNITS	QUANTITY: for Construction of 1 No. 132 KV Feeder Bay extension at BOV/HT for PHUBANI	QUANTITY: for Construction of 1 No. 132 KV Feeder Bay extension at PHUBANI for BOV/HT	TOTAL QUANTITY	Unit Ex-Works Price IN INR	Total Ex-Works Price IN INR	Unit F&I Charges IN INR	Total F&I Charges IN INR	Mode of Transaction (Direct or Bought out item)	Unit Excise duty IN INR	Unit VAT IN INR	Unit CST IN INR	Any other tax IN INR	Total Taxes and duties/NT IN INR	Unit FORD Price except Entry Tax IN INR	TOTAL FORD Price except Entry Tax IN INR
1	2	3	4	5	6=4+5	7	8=6X7	9	10= 6X9	11	12	13	14	15	16 = 12+13+14+15	17=7*8+12+13+14+15	18=17X6
9.4.8	Surge Arrester-132 KV	NOS	3	3	6												
9.4.9	Wave Trap-132 KV	NOS	2	2	4												
9.4.10	BPI-132 KV	NOS	2	2	4												
9.4.11	BPI-33 KV	NOS	0	0	0												
9.4.12	NCTS	NOS	0	0	0												
9.5	TOTAL WEIGHT OF EQUIPMENT STRUCTURE	MT			9.57		0.00		0.00						0.00	0.00	0.00
9.6	Total weight of GI Nuts and bolts for the above structures	MT	1	1	2		0.00		0.00						0.00	0.00	0.00
9.7	Total weight of Foundation Nuts and bolts for the above structures	MT	0.55	0.55	0.66		0.00		0.00						0.00	0.00	0.00
10	GENERAL EQUIPMENT & SUBSTATION ACCESSORIES																
10.1	POWER CABLES,1.1KV,XLPE,ARMORED, ALUMINIUM CONDUCTOR (As per Specification)																
10.1.1	3.5 CX300mm	MTR	0	0	0		0.00		0.00						0.00	0.00	0.00
10.1.2	3.5 CX185 mm	MTR	0	0	0		0.00		0.00						0.00	0.00	0.00
10.1.3	3.5 CX120 mm	MTR	0	0	0		0.00		0.00						0.00	0.00	0.00
10.1.4	3.5 CX70 mm	MTR	0	0	0		0.00		0.00						0.00	0.00	0.00
10.1.5	3.5 CX35 mm	MTR	250	250	500		0.00		0.00						0.00	0.00	0.00
10.1.6	4 CX 16 mm	MTR	0	0	0		0.00		0.00						0.00	0.00	0.00
10.1.7	4 CX 6 mm	MTR	250	250	500		0.00		0.00						0.00	0.00	0.00
10.1.8	2 CX 6 mm	MTR	200	200	400		0.00		0.00						0.00	0.00	0.00
10.2	CONTROL CABLES,1.1 KV, PVC,STRANDED COPPER(As per specification)																
10.2.1	12 CX 2.5 mm ²	MTR	500	500	1000		0.00		0.00						0.00	0.00	0.00
10.2.2	14 CX 2.5 mm ²	MTR	2500	2500	5000		0.00		0.00						0.00	0.00	0.00
10.2.3	15 CX 2.5 mm ²	MTR	500	500	1000		0.00		0.00						0.00	0.00	0.00
10.2.4	17 CX 2.5 mm ²	MTR	500	500	1000		0.00		0.00						0.00	0.00	0.00
10.2.5	19 CX 2.5 mm ²	MTR	1000	1000	2000		0.00		0.00						0.00	0.00	0.00
10.2.6	12 CX 2.5 mm ²	MTR	1000	1000	2000		0.00		0.00						0.00	0.00	0.00
10.2.7	16 CX 2.5 mm ²	MTR	0	0	0		0.00		0.00						0.00	0.00	0.00
10.2.8	19 CX 2.5 mm ²	MTR	0	0	0		0.00		0.00						0.00	0.00	0.00
10.2.9	1CX 120 mm ² BAT TO BAT CHARGER & CHARGER TO DCDB	MTR	0	0	0		0.00		0.00						0.00	0.00	0.00
11	ACCESSORIES FOR PLC SYSTEM AS PER TECHNICAL SPECIFICATION																
11.1	132 KV Line Trap for Pedestal mounting with complete accessories :800A, 0.5 mH, (90-1000Hz),Isc=31.9kA, compatible to IEC 353 specifications	NOS	2	2	4		0.00		0.00						0.00	0.00	0.00
11.2	LINE MATCHING UNIT & LINE MATCHING DISTRIBUTION UNIT	SET	1	1	2		0.00		0.00						0.00	0.00	0.00
11.3	12.5 mm OD armoured Co-axial Cable, Impedance: 75 ohms, Insulation Resistance: 100 Meg Ohms, Dielectric strength: 5 kV, Signal attenuation: 6 dB/KM (Max) at 500 kHz	MTRS	500	500	1000		0.00		0.00						0.00	0.00	0.00
11.4	4 PAIR NON ARMORED TELEPHONE CABLES	MTRS	100	100	200		0.00		0.00						0.00	0.00	0.00
11.5	2 WIRE TELEPHONE SET	NO	4	4	8		0.00		0.00						0.00	0.00	0.00
12	SUB STATION LIGHTING (AS PER SPECIFICATION AND APPROVED DRAWINGS) (Switch yard and other street area)																
12.1	SUB-STATION SWITCH YARD LIGHTING,IT INCLUDES SUPPLY OF FIXTURES & LAMPS (LED) of reputed make (Philips/CGL/Bajaj) with switch gear,GI Conduit etc. (Lighting fixtures are to be fixed rigidly on the Column at a suitable height so that the required lux can be maintained).	NOS	6	6	12		0.00		0.00						0.00	0.00	0.00
13	PROTECTION,CONTROL METERING, EVENT LOGGER,BUS BAR PROT N PAN,COMM PAN, RELAY TOOL KITS AS PER TECH SPEC																
13.1	132 KV SIDE																
13.1.1	FEDDER CONTROL & RELAY PANEL (DUPLX TYPE)	NOS	1	1	2		0.00		0.00						0.00	0.00	0.00
13.1.2	INDOOR RECEPTACLE BOARD	SET	1	1	2		0.00		0.00						0.00	0.00	0.00
14	BEST QUALITY & APPROVED MAKE RUBBER MAT TO BE KEPT INFRONT OF ALL PANELS,BOARDS ETC.(2000X1000X10)mm Size	NOS	2	2	4		0.00		0.00						0.00	0.00	0.00
A	TOTAL OF SUPPLY FOR SUBSTATION						0.00		0.00						0.00	0.00	0.00
	SUPPLY TRANSMISSION LINE EQUIPMENTS AND MATERIALS																

SUPPLY SUBSTATION EQUIPMENT & MATERIALS		NAME OF THE BIDDER															
Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2A-SS) SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS (As per Technical Specification)	UNITS	QUANTITY for Construction of 1 No. 132 KV Feeder Bay extension at BOU/DH for PHUBANI	QUANTITY for Construction of 1 No. 132 KV Feeder Bay extension at PHUBANI for BOU/DH	TOTAL QUANTITY	Unit Ex-Works Price IN INR	Total Ex-Works Price IN INR	Unit F&I Charges IN INR	Total F&I Charges IN INR	Mode of Transaction (Direct or Bought out item)	Unit Excise duty IN INR	Unit VAT IN INR	Unit CST in INR	Any other tax IN INR	Total Taxes and duties/unit IN INR	Unit FORD Price except Entry Tax IN INR	TOTAL FORD Price except Entry Tax IN INR
1	2	3	4	5	6=4+5	7	8=6X7	9	10= 6X9	11	12	13	14	15	16 = 12+13+14+15	17=7*9+12+13+14+15	18=17x6
1	SUPPLY of Following type tested Lattice type Galvanized steel tangent / Angle tower with stubs and cleats, different type of G.I HT Nuts & Bolts, washer, spring washer for the towers hanger and all accessories, tower super structure complete including step bolts. Supply of black bituminous paint for three coats up to a height of 500mm above the coping(legs & bracing members). All Supply should confirm to the Technical Specification.																
1.1	PA TYPE (SUSPENSION) TOWERS (Nominal unit weight 3.430 MT)	Nos		161													
1.1.1	+3 EXTENSION (Nominal unit weight 0.537 MT)	Nos		33													
1.1.2	+6 EXTENSION (Nominal unit weight 1.349 MT)	Nos		12													
1.2	90 deg TYPE (90 deg ANGLE) TOWERS (Nominal unit weight 4.973 MT)	Nos		46													
1.2.1	+3 EXTENSION (Nominal unit weight 1.036 MT)	Nos		12													
1.2.2	+6 EXTENSION (Nominal unit weight 2.104 MT)	Nos		12													
1.3	PC TYPE (60 deg ANGLE) TOWERS (Nominal unit weight 6.214 MT)	Nos		37													
1.3.1	+3 EXTENSION (Nominal unit weight 1.119 MT)	Nos		6													
1.3.2	+6 EXTENSION (Nominal unit weight 2.342 MT)	Nos		4													
1.4	OC TYPE (60 deg ANGLE) TOWERS (Nominal unit weight 9.513 MT)	Nos		2													
1.4.1	+3 EXTENSION (Nominal unit weight 1.937 MT)	Nos		2													
1.4.2	+6 EXTENSION (Nominal unit weight 2.525 MT)	Nos		2													
1.5	UR TYPE (60 deg ANGLE) TOWERS (Nominal unit weight 9.473 MT)	Nos		0													
1.5.1	+6 EXTENSION (Nominal unit weight 3.457 MT)	Nos		0													
1.5.2	+9 EXTENSION (Nominal unit weight 6.569 MT)	Nos		0													
1.5.3	+12 EXTENSION (Nominal unit weight 9.591 MT)	Nos		1													
1.6	TEMPLATES	Nos		1													
1.6.1	PA (Nominal unit weight 0.665 MT)	Nos		4													
1.6.2	PB (Nominal unit weight 0.602 MT)	Nos		2													
1.6.3	PC (Nominal unit weight 0.904 MT)	Nos		2													
1.6.4	OC (Nominal unit weight 0.985 MT)	Nos		1													
1.6.5	DD (Nominal unit weight 2.034 MT)	Nos		1													
	WEIGHT OF THE STRUCTURES (including Tower stubs, Templates & Foundation Nut and Bolts)	MT		1159.177			0.00		0.00						0.00	0.00	0.00
	WEIGHT OF TEMPLATES FOR PA, PB, PC, OC & DD	MT		8.606			0.00		0.00						0.00	0.00	0.00
1.6	Weight of different type G.I Nuts and Bolts	MT		58.39			0.00		0.00						0.00	0.00	0.00
2.0	Supply of the following tower accessories as per technical specification and as directed by the engineer in charge.																
2.1	WARTING DEVICE	Nos		230			0.00		0.00						0.00	0.00	0.00
2.2	HANGER BOARD	Nos		243			0.00		0.00						0.00	0.00	0.00
2.3	NUMBER PLATE	Nos		243			0.00		0.00						0.00	0.00	0.00
2.4	PHASE PLATE	Nos		729			0.00		0.00						0.00	0.00	0.00
2.5	BIRD GUARD	Nos		483			0.00		0.00						0.00	0.00	0.00
2.6	ANTI CLIMBING DEVICE	Nos		243			0.00		0.00						0.00	0.00	0.00
2.7	SCREWTIGHT ANCHOR ROD	Nos		243			0.00		0.00						0.00	0.00	0.00
2.8	PRESTRESS ANCHOR ROD	Nos		441			0.00		0.00						0.00	0.00	0.00
2.9	COUNTERPOISE TALKING	Nos		75			0.00		0.00						0.00	0.00	0.00
2.9	COUNTERPOISE EARTHING	Nos		15			0.00		0.00						0.00	0.00	0.00
3.0	Supply of following POWER CONDUCTORS in the proposed 132 KV lines with 1.5% provision for sag and wastage as per the technical specification and as per the instruction of the engineer in charge.																
3.1	ACSR Panther (30/7/70 mm)	Kms		201			0.00		0.00						0.00	0.00	0.00
4.0	POWER CONDUCTOR ACCESSORIES																
4.1	For ACSR PANTHER																
4.1.1	VIBRATION DAMPER	Nos		956			0.00		0.00						0.00	0.00	0.00
4.1.2	MID SPAN JOINT	Nos		200			0.00		0.00						0.00	0.00	0.00
4.1.3	Repair Sleeve	Nos		200			0.00		0.00						0.00	0.00	0.00
4.1.5	PG CLAMP	Nos		12			0.00		0.00						0.00	0.00	0.00

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1	2	3	4	5	6=4+5	7	8=6X7	9	10= 6X9	11	12	13	14	15	16 = 12+13+14+15	17=7*9+12+13+14+15	18=17X6
5.0	Supply of the GI earth wire of size 7/3.15 mm as per the technical specification, with 11.5% provision for Sag & Wastage and as per the direction of Engineer in charge.	Kms.			66.807		0.00		0.00						0.00	0.00	0.00
6.0	EARTH CONDUCTOR ACCESSORIES																
6.1	VIBRATION DAMPER	Nos.			459		0.00		0.00						0.00	0.00	0.00
6.2	FLEXIBLE EARTH BOND	Nos.			164		0.00		0.00						0.00	0.00	0.00
6.3	SUSPENSION CLAMP	Nos.			161		0.00		0.00						0.00	0.00	0.00
6.4	TENSION CLAMP	Nos.			161		0.00		0.00						0.00	0.00	0.00
6.5	END SPAN JOINT	Nos.			66		0.00		0.00						0.00	0.00	0.00
6.6	WIRE STAYS	Nos.			66		0.00		0.00						0.00	0.00	0.00
7.0	Supply of the following Anti fog type disc insulators as per the technical specification and as per the instruction of the Engineer in charge.																
7.1	90 KN Insulator (taking 5% extra towards wastage)	Nos.			4609		0.00		0.00						0.00	0.00	0.00
7.2	120KN Insulator (taking 5% extra towards wastage)	Nos.			5418		0.00		0.00						0.00	0.00	0.00
8.0	Supply of the following hard ware fittings suitable for ACSR Panther conductors as per the technical specification.																
8.1	FOR ACSR PANTHER																
8.1.1	Single suspension Hard wares fittings.(AGS type) suitable for 90 KN insulator.	Nos.			459		0.00		0.00						0.00	0.00	0.00
8.1.2	Double suspension Hard wares fittings.(AGS type) suitable for 90 KN insulator.	Nos.			24		0.00		0.00						0.00	0.00	0.00
8.1.3	Single tension Hard wares fittings suitable for 120 KN insulator.	Nos.			480		0.00		0.00						0.00	0.00	0.00
8.1.4	Double tension Hard wares fittings suitable for 120 KN insulator.	Nos.			18		0.00		0.00						0.00	0.00	0.00
8.1.5	Shackle	Nos.			492		0.00		0.00						0.00	0.00	0.00
8.1.6	Hanger	Nos.			483		0.00		0.00						0.00	0.00	0.00
8.1.7	U-Bolt.	Nos.			161		0.00		0.00						0.00	0.00	0.00
B	TOTAL OF SUPPLY FOR TRANSMISSION LINE						0.00		0.00						0.00	0.00	0.00
	SUPPLY PRICE_TOTAL OF SCHEDULE 2A (A+B)(SS & LINE)																0.00

Note:

- 1 Before filling up rate/amount etc. in the schedules bidders are requested to read carefully the instruction given in Vol-I of Bidding Document.
- 2 Bidders are required to fill up only blue shaded cells.
- 3 Bidders are requested not to leave any column blank. If any column is left blank it shall be considered that amount against those items are included in any other item and the total amount for that item shall be calculated as free of cost (Zero value).
- 4 In mode of transaction column please indicate Direct/Bought-Out. For Taxes & Duties on Direct/Bought-out items refer clause 6.0 of SCC (Vol-1A)

PACKAGE: 49B (1)/2014-15- PHULBANI-BOUDH						ODISHA POWER TRANSMISSION CORPORATION LIMITED	
						NAME OF THE WORK:-Construction of 132KV SC line on DC tower from existing 132/33KV Phulbani grid substation to 132/33KV Boudh grid substation with 132KV feeder bay extension at both Phulbani & Boudh substations on turnkey basis. (Approximate 132 KV line length65.82 Kms).	
						NOTICE INVITING TENDER-NIT NO. 49/2014-15 & BID DOCUMENT No.:Sr. G.M- CPC-TENDER- PACKAGE- 49/2014-15	
						SCHEDULE-2C-ERECTION & CIVILWORKS(Equipment/Materials Price Break-up of Ex-works Prices against Package-49B(1)/2014-15-PHULBANI-BOUDH)	
						NAME OF THE BIDDER	
ERECTION_SUBSTATION EQUIPMENT & MATERIALS							
Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2C) ERECTION, TESTING & COMMISSIONING OF FOLLOWING EQUIPMENTS ALONG WITH CIVIL WORKS (As per Technical Specification)	UNIT	QUANTITY: for Construction of 1 No. 132 KV Feeder Bay extension at BOUDH for PHULBANI	QUANTITY: for Construction of 1 No. 132 KV Feeder Bay extension at PHULBANI for BOUDH.	Total Quantity	Unit Erection Rate excluding service tax IN INR	Total Erection Price excluding service tax IN INR
1	2	3	4	5	6=4+5	7	8=7X6
A ELECTRICAL WORKS							
1	145 KV,800-400-200 A,31.5 KA,4CORE SINGLE PHASE CURRENT TRANSFORMER	NOS	3	3	6		0.00
2	145 KV,1200A,31.5KA,ISOLATORS						
2.1	S/I WITH OUT EARTH SWITCH	NOS	1	1	2		0.00
2.2	D/I WITH SINGLE EARTH SWITCH	NOS	1	1	2		0.00
2.3	D/I WITHOUT EARTH SWITCH	NOS	0	0	0		0.00
3	145 KV,6600pF,3CORE,SINGLE PHASE CAPACITOR VOLTAGE TRANSFORMER	NOS	3	3	6		0.00
4	120 KV METAL OXIDE SURGE ARRESTOR, 10 KA, Class III	NOS	3	3	6		0.00
5	145 KV ,2 CORE,SINGLE PHASE,IVT	NOS	0	0	0		0.00
6	132 KV Bus Post Insulators	NOS	2	2	4		0.00
7	145KV,3150A,40KA,SF6,CIRCUIT BREAKER WITH SUPPORTING STRUCTURE	NOS	1	1	2		0.00
8 BUS BAR & CIRCUIT MATERIALS							
8.1	TENSION & SUSPENSION ANTI FOG TYPE INSULATOR STRING						
8.1.1	120 kN ANTIFOG INSULATOR STRINGS for <i>win Zebra cond</i> (TENSION)-132 KV	SET	6	0	6		0.00
8.1.2	120 kN ANTIFOG INSULATOR STRINGS for <i>Single Zebra cond</i> (TENSION)-132 KV	SET	12	18	30		0.00
8.1.3	90 kN ANTIFOG INSULATOR STRINGS for <i>Double/ Single Zebra cond</i> (SUSPENSION)-132 KV	SET	9	9	18		0.00
9	ACSR MOOSE CONDUCTOR	KMS	0.5	0.5	1		0.00
9.1	ACSR Panther CONDUCTOR	LOT	0.25	0.25	0.5		0.00
10	HARDWARES & FITTINGS/SPACERS/CLAMP & CONNECTORS	LOT	1	1	2		0.00
11	EARTHING SPIKE & ITS ACCESSORIES(7 MTRS LENGTH EACH) :	SET	3	3	6		0.00
12	SUBSTATION EARTHING SYSTEMS						

		NAME OF THE BIDDER					
ERECTION SUBSTATION EQUIPMENT & MATERIALS							
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12.1	EARTHING CONDUCTOR FOR BURRIAL : 75X10 mm GI Flat for laying (spacing maximum 5m both way)	MT	4.186	4.186	8.372		0.00
12.2	EARTHING CONDUCTOR: 50X6 mm GI Flat for Raiser from the burial earth mat to equipment,structure etc)	MT	1.125	1.125	2.25		0.00
12.3	EARTHING DEVICE & ASSOCIATED ACCESSORIES (50 mm heavy duty GI PERFORATED PIPE 3 mtrs long for treated earth pit)	NOS	25	25	50		0.00
12.4	EARTHING DEVICE & ASSOCIATED ACCESSORIES 40mm MS rod 3 mtrs long for non treated earth pit)	NOS	25	25	50		0.00
12.5	G.I Cable Trays including G.I. support Angle suitable for different sections i.e. Section:1-1,2-2,3-3 & 4-4 along with its accessories as per IS.	MTRS	180	180	360		0.00
13	SUB STATION SWITCHYARD BMK,AC CONSOLE & OTHER MARSHALLING BOXES						
13.1	BAY MARSHALLING KIOSK (01 No + 01 No. 132 kv bay)	NOS	1	1	2		0.00
13.2	SWITCH YARD AC CONSOLE FOR LIGHTING (0 no)	NOS			0		
13.3	SWITCH YARD RECEPTACLE BOARD FOR TFR OIL FILTERATION (0 No)	NOS			0		
13.4	SWITCH YARD RECEPTACLE BOARD FOR WELDING & OTHER EMERGENCY (0 Nos)	NOS			0		
13.5	CT, PT & CVT Out Door Console Boxes (132 KV CT 1 NO.+1 No., 132 KV CVT-1 No. + 1 No.)	NOS	2	2	4		0.00
14	SWITCH YARD STRUCTURES (LATTICE TYPE) FOR 220/132/33 KV CLASS INCLUDING FOUNDATION BOLTS & NUTS.						
14.1	DIFFERENT TYPES OF COLUMNS WITH DETAILS						
*14.1.1	T1S - 132 KV(NOMINAL UNIT WT- 1.2 MT)	NOS	2	2	4		0.00
*14.1.2	T4S - 132KV (NOMINAL UNIT WT- 0.95 MT)	NOS	1	1	2		0.00
*14.1.3	T8S - 33KV(NOMINAL UNIT WT- 0.8 MT)	NOS		0	0		0.00
*14.1.4	T9S - 33KV(NOMINAL UNIT WT- 0.6 MT)	NOS		0	0		0.00
14.2	DIFFERENT TYPE OF BEAMS WITH DETAILS						
*14.2.1	G1 - 132 KV(NOMINAL UNIT WT- 0.62 MT)	NOS	2	2	4		
*14.2.2	G1X - 132 KV (NOMINAL UNIT WT- 1.4 MT)	NOS		0	0		
*14.2.3	G2 - 132 KV(NOMINAL UNIT WT- 0.91 MT)	NOS	2	2	4		
*14.2.4	G1.2 - 132 KV(Each two beams of G1 type) (NOMINAL UNIT WT- 1.25 MT)	NOS		0	0		
*14.2.5	G6 - 33KV (NOMINAL UNIT WT- 0.53 MT)	NOS		0	0		
*14.2.6	G4 - 33KV(NOMINAL UNIT WT- 0.4 MT)	NOS		0	0		
*14.2.7	G4X - 33KV (NOMINAL UNIT WT- 0.4 MT)	NOS		0	0		
14.3	TOTAL WEIGHT OF COLUMN & BEAM	MT	6.28	6.28	12.56		0.00
14.4	SUPPORT STRUCTURES (LATTICE/PIPE TYPE) FOR ALL 132 KV & 33KV EQUIPMENTS						
*14.4.1	ISOLATORS-132KV	NOS	2	2	4		0.00
*14.4.2	CTS-132 KV	NOS	3	3	6		0.00
*14.4.3	CVTS-132 KV	NOS	3	3	6		0.00
*14.4.4	Surge Arrester-132 kv	NOS	3	3	6		0.00
*14.4.5	Wave Trap-132 KV	NOS	2	2	4		0.00
*14.4.6	BPI-132 KV	NOS	2	2	4		0.00
14.5	TOTAL WEIGHT OF EQUIPMENT STRUCTURE	MT	4.787	4.787	9.57		0.00
14.6	Total weight of GI Nuts and bolts for the above structures	MT	1	1	2		0.00
15	GENERAL EQUIPMENT & SUBSTATION ACCESSORIES						

			NAME OF THE BIDDER				
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1	2	3	4	5	6=4+5	7	8=7X6
15.1	POWER CABLES,1.1KV,XLPE,ARMOURED, ALUMINIUM CONDUCTOR (As per Specification)						
15.1.1	3.5 CX300 mm ²	MTR	0	0	0		0.00
15.1.2	3.5 CX185 mm ²	MTR	0	0	0		0.00
15.1.3	3.5 CX120 mm ²	MTR	0	0	0		0.00
15.1.4	3.5 CX70 mm ²	MTR	0	0	0		0.00
15.1.5	3.5 CX35 mm ²	MTR	250	250	500		0.00
15.1.6	4 CX 16 mm ²	MTR	0	0	0		0.00
15.1.7	4 CX 6 mm ²	MTR	250	250	500		0.00
15.1.8	2CX 6 mm ²	MTR	200	200	400		0.00
15.2	CONTROL CABLES,1.1 KV, PVC,STRANDED COPPER(As per specification)						
'15.2.1	2CX 2.5 mm ²	MTR	500	500	1000		0.00
'15.2.2	4 CX 2.5 mm ²	MTR	2500	2500	5000		0.00
'15.2.3	5 CX 2.5 mm ²	MTR	500	500	1000		0.00
'15.2.4	7CX 2.5 mm ²	MTR	500	500	1000		0.00
'15.2.5	10 CX 2.5 mm ²	MTR	1000	1000	2000		0.00
'15.2.6	12 CX 2.5 mm ²	MTR	1000	1000	2000		0.00
'15.2.7	16 CX 2.5 mm ²	MTR	0	0	0		0.00
'15.2.8	19 CX 2.5 mm ²	MTR	0	0	0		0.00
'15.2.9	1CX 120 mm ² BAT TO BAT CHARGER & CHARGER TO DCDB	MTR	0	0	0		0.00
16	PLCC System						
16.1	132 kV Line Trap for Pedestal mounting with complete accessories :800A, 0.5 mH, (90-500KHZ),Isc=31.5kA compatible to IEC 353 specifications	NOS	2	2	4		0.00
16.2	LINE MATCHING UNIT & LINE MATCHING DISTRIBUTION UNIT	SET	1	1	2		0.00
16.3	12.5 mm OD armoured Co-axial Cable; Impedance: 75 ohms, Insulation Resistance: 100 Meg Ohms Dielectric strength: 5 kv, Signal attenuation: 6 dB/KM (Max) at 500 kHz	MTRS	500	500	1000		0.00
16.4	4 PAIR NON ARMOURED TELEPHONE CABLES	MTRS	100	100	200		0.00
16.5	2 WIRE TELEPHONE SET	NO	4	4	8		0.00
17	SUB STATION LIGHTING (AS PER SPECIFICATION AND APPROVED DRAWINGS)(Switch yard and other street area)						
'17.1	SUB-STATION SWITCH YARD LIGHTING,IT INCLUDES SUPPLY OF FIXTURES & LAMPS (LED) of reputed make (Philips/CGL/Bajaj) with switch gear,GI Conduit etc.(Lighting fixtures are to be fixed rigidly on the Column at a suitable height so that the required lux can be maintained).	NOS	6	6	12		0.00
18	PROTECTION,CONTROL METERING, EVENT LOGGER,BUS BAR PROTN PAN,COMM PAN, RELAY TOOL KITS AS PER TECH SPEC						
18.1	132 KV SIDE						
'18.1.1	FEEDER CONTROL & RELAY PANEL (DUPLEX TYPE)	NOS	1	1	2		0.00
18.1.2	INDOOR RECEPACLE BOARD	SET	1	1	2		
19	BEST QUALITY &APPROVED MAKE RUBBER MAT TO BE KEPT INFRONT OF ALL PANELS,BOARDS ETC.(2000X1000X10)mm Size	NOS	2	2	4		0.00

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1	2	3	4	5	6=4+5	7	8=7X6
20	ERECTION OF PLCC EQUIPMENT SUPPLIED BY OWNER INCLUDING DISMANTLING FROM EXISTING SUBSTATION (AS PER THE DETAILS SLD GIVEN IN TS) AND TRANSPORTATION AS REQUIRED	LOT	1		1		0.00
A	TOTAL OF (Electrical Work) (PART-A)_SUBSTATION						0.00
B	CIVIL WORKS						
1	<i>Foundations : Design, engineering, supply of all labour, material (Cement-OPC-43 Grade,MS Rod, coarse and fine aggregates(Sand and Metal Chips) etc) for construction of RCC (1:1.5:3) & PCC (1:3:6), RCC footings of any depth, pedestal and piling as per requirement including soil investigation, excavation,concreting, shuttering, grouting, underpinning and back filling of foundations etc complete for the following switch yard gantry/ portal structures and equipment support & others as per the technical specification and approved drawings.(RCC RATIO 1:1.5:3). This also includes excavation in all types of soil or rocks,back filling,and disposal of excess earth as per the direction of Engineer In charge.</i>						
1.1	Switch yard gantry/portal structure foundations						
1.1.1	T1S - 132 KV(NOMINAL UNIT WT- 1.2 MT)	NOS	2	2	4		0.00
1.1.2	T4S - 132KV (NOMINAL UNIT WT- 0.95 MT)	NOS	1	1	2		0.00
1.2	Equipment foundations :						
1.2.1	145 KV,800-400-200 A,31.5 KA,4CORE SINGLE PHASE CURRENT TRANSFORMER	NOS	3	3	6		0.00
1.3	145 KV,1200A,31.5KA,ISOLATORS						
1.3.1	S/I WITH OUT EARTH SWITCH	NOS	1	1	2		0.00
1.3.2	D/I WITH SINGLE EARTH SWITCH	NOS	1	1	2		0.00
1.3.3	D/I WITHOUT EARTH SWITCH	NOS			0		0.00
1.4	145 KV,6600pF,3CORE,SINGLE PHASE CAPACITOR VOLTAGE TRANSFORMER	NOS	3	3	6		0.00
1.5	120 KV METAL OXIDE SURGE ARRESTOR, 10 KA, Class III	NOS	3	3	6		0.00
1.6	145 KV ,2 CORE,SINGLE PHASE,IVT	NOS			0		0.00
1.7	132 KV Bus Post Insulators	NOS	2	2	4		0.00
1.8	145KV,3150A,40KA,SF6,CIRCUIT BREAKER WITH SUPPORTING STRUCTURE	NOS	1	1	2		0.00
1.9	SUB STATION SWITCYARD BMK,AC CONSOLE & OTHER MARSHALLING BOXES						
1.9.1	BAY MARSHALLING KIOSK(03 Nos 132 kv bay & 04 Nos 33 KV bay)	NOS	1	1	2		0.00
1.9.2	CT, PT & CVT Out Door Console Boxes (132 KV CT 1 NO.+ 1 No., 132 KV CVT-1 No. + 1 No.)	NOS	2	2	4		
1.1	EXCAVATION:This also includes excavation in all types of soil or rocks,backfilling,and disposal of excess earth as per the direction of Engineer In charge.						
*1.10.1	Normal Soil(SOFT/LOOSE)	Cum	200	100	300		0.00
*1.10.2	Hard Soil	Cum	150	100	250		0.00

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1	2	3	4	5	6=4+5	7	8=7X6
1.10.3	Soft Rock	Cum	100	150	250		0.00
1.10.4	Hard Rock(Requiring Blasting/Using breaker machinery)	Cum	50	150	200		0.00
1.10.5	Design, Engineering, Providing and laying of plain cement concrete (PCC 1:3:6) of grade M10 with approved quality coarse aggregates (Nominal size 12mm to 20mm) , fine aggregates, cement in column and equipment foundation as blind layer inclusive of labour charges for concrete mixing & curing. This includes supply of all labourers, T&P and dewatering wherever required as per Technical specification and instruction of Engineer In charge.	Cum	16	16	32		0.00
1.10.6	Open cast foundation for the above column/equipment/marshalling box foundations { SI No. 1.1 & 1.2} with RCC: 1:1.5:3 (Grade M-20),including supply of Labour all materials like Steel (Supply,Cutting,Bending,Binding (including supply of binding wire) and placing in position of steel rods of different size as per design in the foundation pit as required for the above foundations),Cement, coarse and fine aggregates,shuttering,proper curing of the foundations/concrete and T&P in line with the Specification and as per direction of Engineer in Charge.	Cum	85	85	170		0.00
2	Cable Trenches: Design, engineering, and construction of RCC cable trenches and all associated works for cable trench and cable trench crossings as per technical specifications and approved drawings and as per direction of the Engineer in Charge. (1) This also includes excavation in all types of soil or rocks,back filling,and disposal of excess earth as per the direction of Engineer In charge. (2) Design, Engineering, Providing and laying of plain cement concrete (PCC 1:3:6) of grade M10 with approved quality coarse aggregates (Nominal size 12mm to 20mm) , fine aggregates, cement in column and equipment foundation as blind layer inclusive of labour charges for concrete mixing & curing. This includes supply of all labourers, T&P and dewatering wherever required as per Technical specification and instruction of Engineer In charge. (3) Open cast foundation for the cable trench with RCC: 1:1.5:3 (Grade M-20 Nominal mixing),including supplyoflabourallmaterialslikeMSRod,Cement,coarseand fine aggregates,shuttering,cutting,bending,binding of M.S.Rod including supply of binding wire proper curing of the foundations/concrete and T&P in line with the Specification and as per direction of Engineer in Charge. (4) Brickwork with KB brick, plastering (1:6 Ratio) & curing, wherever required including the supply of labour,material, cement, etc. (5)Supply,fabrication & Fixing of MS Angle(G.I) for cable tray support (as per specification). The cable tray support frame shall be pre fabricated GI angle as per requirement and to be welded with the plate fixed on the trench wall for better rigidity. The plate (6mm) fixed on the wall are also to be welded with the MS rods provided for the trench wall before concreting. (6) Precast of RCC covers (1:1.5:3) and its fixing on the cable trench as per spec and instruction of Engg. In Charge. (7) CABLE TRENCHES INSIDE THE CONTROL ROOM SHALL BE COVERED WITH M.S CHEQUERED PLATE(Duly painted as per instruction of Engg in charge) INCLUDING STANDARD SUPPORT STAND (HD Galvanised (M.S JOIST , CHANNEL,ANGLE)).						
2.1	Section 1-1	Mtrs	0		0		0.00

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1	2	3	4	5	6=4+5	7	8=7X6
2.2	Section 2- 2	Mtrs	0	0	0		0.00
2.3	Section 3-3	LOT	1	1	2		0.00
2.4	Section 4-4	Mtrs	0	0	0		0.00
3	Rain water harvesting system as per Technical specification and approval of drawing and as per the direction of the Engineer in charge.	Lot	0	0	0		0.00
4	Cable trench crossing:Design,engineering,construction including supply of labour,materials,cement,reinforcement steel,formwork etc,and all associated works for construction of trench crossing as per technical specification and approved drawing.(Road crossing)						
4.1	Section 1-1	Lot			0		0.00
4.2	Section 2- 2	Lot			0		0.00
4.3	Section 3-3	Lot			0		0.00
5	Contour Survey & Levelling of sub-station and other area and stone pitching works to protect from soil erosion. LEVELLING OF S/S AREA:Providing, neatly dressing up and leveling of switch yard area to a required level as decided by the Engineer in Charge, the work includes removal, clearing of the entire area from vegetation, trees, bushes, uprooting of plants and disposal of surplus earth and unusable material from the site by means of any mechanical transport, with all labours, tools, tackles and plants complete as per approved drawing and specification. This also includes excavation in all type of soils or rocks, and disposal of excess earth or rocks and filling of areas of switch yard by borrowed earth/sand to make the area to a level for construction as per scope.						
5.1	Contour survey of the entire sub-station area including Supply of all labour & T&P by contractor.	SQM	600	600	1200		0.00
5.2	Cutting of sub-station area of the as per the direction of Engineer in Charge.						
5.2.1	Cutting of sub-station area of the as per the direction of Engineer in Charge including supply of all labour, T&P (Hard & Compact Soil).	Cum	300	300	600		0.00
5.2.2	Cutting of sub-station area of the as per the direction of Engineer in Charge including supply of all labour, T&P (Normal Soil).	Cum	0	0	0		0.00
5.3	Filling with borrowed earth beyond 100 mtrs lead as per the direction of Engineer in Charge	Cum	100	100	200		0.00

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1	2	3	4	5	6=4+5	7	8=7X6
6	PCC before site surfacing :Providing and supplying all labour, material, equipments etc. required for proper leveling of earth after erection of structures and equipments and proper compaction by using roller of adequate capacity(minimum 3 Ton capacity) with water sprinkling of switch yard area. After proper leveling of the switch yard area (after anti-weed treatment), spreading of plain cement concrete with mixing ratio 1:4:8 (M10) and maintaining proper sloping for easy discharge of storm water having concrete thickness of 75 mm. including rolling , dressing, compacting,the area. As per technical specification and approved drawing, and as per the instruction of the Engg-in-Charge . This also includes excavation in all types of soil or rocks,back-filling,and disposal of excess earth as per the direction of Engineer in charge and approved drawing. (Switch yard area)	CUM	30	30	60		0.00
7	Metal Spreading : Providing supplying and laying two layers of machine crushed metals (gravel) fill, the first layer after compaction shall make minimum 50 mm thickness coarse/ layer of 20 mm nominal size consolidated/ compacted and (by using roller as specified in the specification).A final layer of 50 mm thickness of machine crushed 20 mm nominal size of metals(gravel) above the first layer of 50 mm thickness and as per the technical specification and instruction of Engineer in charge above the PCC(1:4:8). The total compacted thickness of the metals(20 mm Nominal) 100mm above the PCC.	CUM	35	35	70		0.00
8	Switch yard fencing: Providing and fixing of G.I Goat mesh (2.5 mm dia) fencing(the posts and links shall be of HD Galvanized) in switch yard and other areas of the substation with a total fence height complete as per specification and approved drawings, and as required under the safety regulation of local, state and central government bodies and as per instruction of the Engineer-in-Charge.(The PCC work for grouting the post shall be 1:2:4 and a continuous Brick masonry work with ratio 1:5 and cement pointing of the joints, for the fencing up to a height from the finished ground level) .This also includes excavation in all types of soil or rocks, back filling,and disposal of excess earth as per the direction of Engineer In charge. The earthing of the fencing as per specification.	MTR-RUN	55	55	110		0.00
9	COLOUR CODING, BAY MARKING Etc:Design, engineering, procurement of labour, material including all associated works for the followings. This should be as per direction of site In charge. a)Color coding (red,Yellow & Blue) for equipments,Bus gantry &column of entire switch yard. Good quality weather proof sticker may be used for identification. b)Each bay should be identified with the help of bay marker sign board, suitably grouted. MS sign board with stand to be installed. Proper painting and lettering to be done of the entire switch yard area.	Lot			1		0.00

		NAME OF THE BIDDER					
ERECTION SUBSTATION EQUIPMENT & MATERIALS							
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10	Substation earth mat Design, engineering, supply((except the GI Flats,GI Pipe,M.S Rod)(only erection)) inclusive of corrosion protection measures if any,laying of earth mat conductors of Hot dip galvanised flats of size 75X10mm to the approval of Project Manager, excavation, welding/jointing of ground conductors along with risers (a) upto Finished level from the mat size 75X10 mm GI flats & b) from the finished ground level to the top of the structure and equipment shall be with 50X6 mm GI Flats, with back filling and good compaction,grounding driven rods(40 mm MS solid rod for untreated earth pit ,perforated 50 mm Mid GI pipes for treated earth pits(with details of treatment as per IS). The spacing between the earth conductor not more than 5 mtrs (both way) and to be buried at depth of 700mm from the finished ground level. For provision of treated earth pit and untreated earth pit, refer the specification for designing. Provision of water taps inside the switch yard areas and peripheral treated and nu-treated earth pit are required to be provided for watering the treated earth pits. The no. of treated and un-treated earth pits are to be done as per the practice and as indicated in the drawing for different equipments. This is as per approved drawing and specification.						
21.1	Excavation for laying of EARTHING CONDUCTOR (75x10mm for laying (spacing maximum 5m) (GI FLAT)	Lot	1	1	2		0.00
21.2	Excavation for putting the EARTHING DEVICE INCLUDING ITS ASSOCI-ATED ACCESSORIES(50 mm heavy duty GI PIPE 3.0 mtrs long for treated earth pit)	Lot	1	1	2		0.00
21.2	Excavation for putting the EARTHING DEVICE INCLUDING ITS ASSOCI-ATED ACCESSORIES(50 mm heavy duty GI PIPE 3.0 mtrs long for treated earth pit)	Lot	1	1	2		0.00
21.3	Excavation for putting the EARTHING DEVICE INCLUDING ITS ASSOCI-ATED ACCESSORIES(40 mm M.S. Rod 3.0 mtrs long for un-treated earth pit)	Lot	1	1	2		0.00
22	STORE SHED:Design, engineering, procurement of labour, material including all associated works for construction of store shed as per specification and approved drawing. This also includes excavation in all types of soil or rocks,back filling,and disposal of excess earth as per the specification,approved drawing and direction of Engineer In charge. One no store shed of floor size 10X10 mtr having brick walls and plastering with RCC roof. The flooring shall be of 75 mm thickness PCC (mix ratio1:2:4) over RR masonry works (as per standard practice of flooring). Provision of adequate nos of MS racks (proper paintings also to be done as per the direction of site in charge) for keeping the spare materials. The height of the shed shall be 4mtrs above the plinth.	Sqmt	0	0	0		0.00
23	Roads: Design, construction of roads and walkways/ shoulders within sub-station(Switch yard area,approach road, control room area, main gate to the switch yard gate etc) as per specification, layout and approved drawings complete. This also includes excavation in all types of soil or rocks, back filling,and disposal of excess earth as per the direction of Engineer In charge. Provision of drains on both the side of the roads for easy discharge of rain water.(Refer the indicative drawing of s/s layout)						

			NAME OF THE BIDDER				
ERECTION_SUBSTATION EQUIPMENT & MATERIALS							
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1	2	3	4	5	6=4+5	7	8=7X6
23.1	3.75 mtrs Bituminus road with shoulder at both the side as per technical specification indicated in the civil section & shall have drain on both side of the road.	MTRS	0	0	0		0.00
23.2	7 mtrs wide Concrete roads with shoulder as per specification indicated in the civil section. & shall have drain on both side of the road. 7 Mtrs wide road inside the switchyard to be connected to switch yard main gate.	MTRS	20	20	40		0.00
23.3	7 mtrs wide Bituminus roads with shoulder as per specification indicated in the civil section. (for main and approach roads). Shall have drain on both side of the road.	MTRS	0	0	0		0.00
B	TOTAL of CIVIL WORKS Part-I (B) -SUBSTATION						0.00
	TOTAL OF ERECTION PRICE SUBSTATION (A+B)						0.00
ERECTION_TRANSMISSION LINE EQUIPMENT AND MATERIALS							
Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2C) ERECTION, TESTING & COMMISSIONING OF FOLLOWING EQUIPMENT/MATERIALS ALONG WITH CIVIL WORKS (As per Technical Specification)	UNIT			Total Qty for construction of 132KV / SC line on DC tower from existing 132/33KV Grid sub-station at PHULBANI to existing 132/33 KV S/S at BOUDH (65.82 KM approx.).	Unit Erection Rate excluding service tax IN INR	Total Erection Price excluding service tax IN INR
1.1	2	3	4	5	6=4+5	7	8=7x6
A	ELECTRICAL WORKS						
ELECTRICAL WORKS							
1	ERECTION, TESTING & COMMISSIONING of Following tested Lattice type Galvanized steel tangent / Angle tower with stubs and cleats, different type of G.I HT Nuts & Bolts, washer, spring washer for the above type towers, hanger and all accessories, tower super structure complete with tightening, punching of bolts including step bolts. All other left out portion of the bolts above bottom cross arm shall be riveted by using suitable hammer. Painting of black bituminous paints three coats shall be provided up to a height of 500mm above the cooping (legs & bracing members. All Erection should confirm to the Technical Specification laid there in the Tender Specification						
1.1	PA TYPE (SUSPENSION) TOWERS (Nominal unit weight 3.430 MT)	Nos.			161		
1.1.1	+3 EXTENSION (Nominal unit weight 0.537 MT)	Nos.			33		
1.1.2	+6 EXTENSION (Nominal unit weight 1.349 MT)	Nos.			12		
1.2	PBTYPE (30 deg ANGLE) TOWERS (Nominal unit weight 4.973 MT)	Nos.			42		
1.2.1	+3 EXTENSION (Nominal unit weight 1.018 MT)	Nos.			13		

			NAME OF THE BIDDER				
ERECTION SUBSTATION EQUIPMENT & MATERIALS							
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1	2	3	4	5	6=4+5	7	8=7X6
1.2.2	+6 EXTENSION (Nominal unit weight 2.104 MT)	Nos.			4		
1.3	PC TYPE (60 deg ANGLE) TOWERS (Nominal unit weight 6.214 MT)	Nos.			37		
1.3.1	+3 EXTENSION (Nominal unit weight 1.119 MT)	Nos.			6		
1.3.2	+6 EXTENSION (Nominal unit weight 2.342 MT)	Nos.			4		
1.4	OC TYPE (60 deg ANGLE) TOWERS (Nominal unit weight 9.513 MT)	Nos.			2		
1.4.1	+3 EXTENSION (Nominal unit weight 0.0 MT)	Nos.			0		
1.4.2	+6 EXTENSION (Nominal unit weight 2.537 MT)	Nos.			2		
1.5	UR TYPE (60 deg ANGLE) TOWERS (Nominal unit weight 9.472 MT)	Nos.			0		
1.5.1	+6 EXTENSION (Nominal unit weight 3.457 MT)	Nos.			0		
1.6	DD TYPE (60 deg ANGLE) TOWERS (Nominal unit weight 34.809 MT)	Nos.			1		
1.6.1	+25 EXTENSION (Nominal unit weight 34.339 MT)	Nos.			1		
1.7	TEMPLATES						
1.7.1	PA (Nominal unit weight 0.665 MT)	Nos.			161		
1.8	PB (Nominal unit weight 0.602 MT)	Nos.			42		
1.9	PC (Nominal unit weight 0.904 MT)	Nos.			37		
2.0	OC (Nominal unit weight 0.985 MT)	Nos.			2		
2.1	DD (Nominal unit weight 2.03 MT)	Nos.			1		
2.2	WEIGHT OF THE STRUCTURES (including Tower stubs, Templates & Foundation Nut and Bolts)	MT			1159.117		0.00
2.3	Weight of different type G.I Nuts and Bolts	MT			58.386		0.00
2.4	Erection of the following tower accessories as per technical specification and as directed by the engineer in charge.						
2.5	EARTHING DEVICE	Nos.			230		0.00
2.6	DANGER BOARD	Nos.			243		0.00
2.7	NUMBER PLATE	Nos.			243		0.00
2.8	PHASE PLATE	Nos.			729		0.00
2.9	BIRD GUARD	Nos.			483		0.00
3.0	ANTICLIMBING DEVICE	Nos.			243		0.00
3.1	CIRCUIT PLATE	Nos.			243		0.00
3.2	PREFORMED ARMOUR ROD	Nos.			483		0.00
4.0	COUNTERPOISE EARTHING	Nos.			15		0.00

		NAME OF THE BIDDER					
ERECTION SUBSTATION EQUIPMENT & MATERIALS							
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1	2	3	4	5	6=4+5	7	8=7X6
4.1	Hoisting and fixing of insulators with required accessories, paying out of conductor, jointing, stringing, sagging & jumpering etc. of power conductor and earth wire with all required accessories including scaffolding for 33KV, 11KV, LT, P& T lines, roads and railway lines and using own required T&P and compressing jointing machines etc. in the proposed 132 kV lines with 1.5% provision for sag and wastage as per the technical specification and as per the instruction of the engineer in charge.(including power conductor accessories, earth conductor accessories, insulators)						
'4.1.1	SINGLE CIRCUIT (ACSR/AAAC, THREE POWER CONDUCTOR & 1 EARTH WIRE)	Route Kms.			65.82		0.00
'4.1.3	Erection of the following hard ware fittings suitable for ACSR Panther conductors as						
'4.1.4	For ACSR PANTHER						
'4.1.5	Single suspension Hard wares fittings.(AGS type) suitable for 90 KN insulator.	Nos.			459		0.00
'4.1.6	Double suspension Hard wares fittings.(AGS type) suitable for 90 KN insulator.	Nos.			24		0.00
5	Single tension Hard wares fittings suitable for 120 KN insulator.	Nos.			480		0.00
6	Double tension Hard wares fittings suitable for 120 KN insulator.	Nos.			18		0.00
7	Shackle	Nos.			492		0.00
8	Hanger	Nos.			483		0.00
9	U'-Bolt.	Nos.			161		0.00
A	TOTAL of ELECTRICAL WORKS TRANSMISSION LINE						0.00
B	CIVIL WORKS						
	FOUNDATION MATERIALS: Supply of all materials like cement, steel, all coarse aggregates, fine aggregates and making foundations of the required above mentioned type towers as per the direction laid down in the technical specification and the direction of the site- in charge						
1.1.3	Excavation in all type soil and rocks and back filling (back filling shall be done in layers of 500mm sprinkling of water and compaction thereafter and disposed of excess quantity of excavated soil at suitable place after back filling), & if required for filling the foundation, borrowed earth/murum/sand shall be brought for filling and compaction, including supply of sand, all T&P, labour as required.						
1.1.4	Soft/Loose soil	CUM			4918		0.00
1.1.5	Dense/Compact soil	CUM			4000		0.00
1.1.6	Hard soil	CUM			0		0.00
1.1.7	Partial Submerged soil	CUM			5500		0.00
2	Fully submerged soil	CUM			4500		0.00

		NAME OF THE BIDDER					
ERECTION SUBSTATION EQUIPMENT & MATERIALS							
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1	2	3	4	5	6=4+5	7	8=7X6
3	Soft/Disintegrated rock(Not requiring Blasting)	CUM			6175		0.00
4	Hard Rock(Requiring Blasting/Using breaker machinery)	CUM			4400		0.00
4	Soil Investigation as per specification	LOC			25		0.00
5	Design, Engineering, Providing and laying of plain cement concrete (PCC 1:3:6) of grade M10 with approved quality coarse aggregates (Nominal size 12mm to 20mm) , fine aggregates, cement in tower foundation as blind layer inclusive of labour charges for concrete mixing & curing. This includes supply of all labourers, T&P and dewatering wherever required as per Technical specification and instruction of Engineer In charge.	Cum			500		0.00
5.1	Design, Engineering and laying of reinforced cement concrete (RCC 1:1.5:3) of grade M20 for open cast foundation with supply of approved quality coarse aggregates(Nominal size 12mm to 20mm) ,fine aggregates, cement and steel of different size(as per design) with cutting,bending,binding of M.S.Rod including supply of binding wire in tower foundation and inclusive of labour charges for concrete mixing, supply and fixing of form boxes, curing,shoring, shuttering, testing of sample cement concrete cubes as per IS. The height of the coping shall be 350mm above the finished concrete level. The surrounding area shall be clear from materials. Damage of land if any by the contractor shall be repaired before measurement. This includes supply of all labourers, T&P and dewatering wherever required as per Technical specification and instruction of Engineer In charge.	Cum			5220.46		0.00
5.1.1	Supply of all materials like cement, steel, all coarse aggregates, fine aggregates and making pile foundations with boring of piles (pile bore as per required depth, basing on design) , preparation of cage,lowering and positioning(cutting,bending,binding of M.S.Rod including supply of binding wire) of the required above mentioned Tower foundation as indicated above and as per requirement, including supply of all materials,labours, de-watering,proper curing of the foundations and T&P as per specification in the RCC :1:1.5:3 (Grade M-20.) including stabilization of bore :- Pile diameter (500 MM) and approximate length of the bore is 15 Mtrs.	Cum			0		0.00
5.1.2	Pile riser, cap, tie-beam with RCC: 1:1.5:3 (Grade M-20) , including supply of all materials like MS Rod of different size(as per design) with cutting,bending,binding of M.S.Rod including supply of binding wire in,Cement, coarse and fine aggregates,shuttering and supply of labours, de-watering,proper curing of the foundations/concrete and T&P in line with the Specification and as per direction of Engineer in Charge.	Cum			0		0.00
	REVTMENT:(including Benching)Supply of all materials like cement,Late-rite stone (stone masonry) all type aggregates, labours, & T&P for construction of revetment walls as per requirement to protect the towers, where felt unsafe and as per approved drawing and the direction of Engineer in charge .						

		NAME OF THE BIDDER					
ERECTION SUBSTATION EQUIPMENT & MATERIALS							
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1	2	3	4	5	6=4+5	7	8=7X6
5.1.3	Excavation in all type of soil including rock & back filling including supply of sand with back filling.	CUM			4500		0.00
5.2	Lean Concrete in the ratio 1:3:6(Grade M-10) including supply of sand chips etc.	CUM			578		0.00
5.3	PCC in the ratio 1:2:4(Grade M-15) as above.	CUM			75.7		0.00
5.4	RR Massonary work in the ratio 1:5.	CUM			4427		0.00
6	Supply of borrowed earth/morrum for back filling for foundation/revertment works						
7	(i) Up to 30 mtr lead	CUM			400		0.00
8.0	(ii) Beyond 30 mtr lead	CUM			0		0.00
	(iii) Beyond 100 mtr lead	CUM			500		0.00
8.2	Supply & painting of black bituminous paints three coats shall be provided up to a height of 500mm above the cooping(both leg & bracing members).	LOC			243		0.00
8.3	Supply of all materials for continuous welding of bolts & nuts (around the bolts) up to top of tower without cross arm, including welding rods, welding generator machine (diesel engine optd.), application of required zinc rich paints around the welding portion (two coats),fuel,lubricants,T&P and labours.	Nos.			161887		0.00
8.4	SURVEY OF LINE & PREPARATION LAND SCHEDULE: Supply of required T&P's, Technical personnel's labours for conducting						0.00
9	Preliminary survey, Detail survey and resurvey (required for avoiding ROW problem) including but not limited to taking of levels, profile plotting, tower spotting ,marking of towers locations at site including showing P&T line, power line, Railway line, river crossing, roads and submission of route map and survey report etc. The P&T lines and railway lines for a minimum distance of 8 kms on either side of alignment shall be clearly indicated.	Kms.			65.82		0.00
10	Check survey including supply of all labour, T&P as per instruction of Engineer in Charge and as per the approved profile.	Kms.			65.82		0.00
11	Preparation of land schedule on revenue (if required)maps indicating alignment therein duly authenticated by Revenue Inspector & Tahasildar, enumeration of trees with the help of Forest officer and other prominent features required for alignment of the proposed 132 KV line. Final route to be plotted on 1:50000 topo sheet for approval.	Rkm			65.82		0.00
12	PTCC approval has to be obtained by submitting the required documents to the concerned department through OPTCL & any other charges are to be borne by the bidders. The documents for PTCC clearance including required drawings etc has to be submitted by the contractor within 5 months of award of contract. Beyond the above period L.D as applicable & the amount shall be deducted as specified in the specification.	LS			1		0.00
13	SHORING & SHUTTERING-Required in wet/submerged or special locations of open cast/shallow type foundations with supply of all materials,T&P and Labou	SQ.MTR.			2500		0.00

ERECTION_SUBSTATION EQUIPMENT & MATERIALS			NAME OF THE BIDDER				
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14	Head-Loading of all types of foundation-materials,towers,structures,conductors,Insulators,Hard-wares & Emergency Restoration System towers required for	Per MT/Per Mtr			10,000		0.00
15	Benching for Tower	CUM			0		0.00
16	Dewatering	HP Hr			2430		0.00
B	TOTAL OF (Civil Work) TRANSMISSION LINE						
	TOTAL OF ERECTION PRICE_ TRANSMISSION LINE (A+B)						
	ERECTION PRICE_ TOTAL OF SCHEDULE 2C (SS & LINE)						

NOTE:

- 1 Before filling up rate/amount etc. in the schedules bidders are requested to read carefully the instruction given in Vol-I of Bidding Document.
- 2 Bidders are required to fill up only blue shaded cells.
- 3 Bidders are requested not to leave any column blank. If any column is left blank it shall be considered that amount against those items are included in any other item and the total amount for that item
- 4 Bidder has to quote rates excluding service tax (if any), service tax shall be paid/reimbursed as per conditions of Bid Document