

PACKAGE 25-04				ODISHA POWER TRANSMISSION CORPORATION LIMITED												
				NAME OF THE WORK:- Construction of 2X20 MVA-132/33 KV Sub-station at HIRAKUD & associated 132 KV LILO line on existing Burla-Sambalpur (Line length-0.5 Kms).												
				NOTICE INVITING TENDER-NIT NO. 25/2013-14 & BID DOCUMENT No.:Sr. G.M- CPC- TENDER- HIRAKUD- PACKAGE- 25-04 / 2013												
				SCHEDULE-2A-SUPPLY (FOR SUBSTATION) (Equipment/Materials Price Break-up of Ex-works Prices against Package-25-04-HIRAKUD)												
Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2A-SS) SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS (As per Technical Specification)	UNITS	NAME OF THE BIDDER													
				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 IN INR	Unit FORD Price IN INR	TOTAL FORD Price IN INR	
			QUANTITY for Construction of 2x20 MVA, 132/33 KV Sub-Station at HIRAKUD (132 KV BAY NOS 02 F&I, 02 TFR & 01 BC) & (33 KV BAY 07 NOS, 04 F&I, 02 TFR, 01 BC)													
1	2	3	4	5	6=4X5	7	8= 4X7	9	10	11	12	13	14 = 10+11+12+13	15=9+7+10+11+12+13	16=15x4	
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	15		0.00		0.00						0.00	0.00	0.00	
2	145 KV,1250A,31.5KA,ISOLATORS															
2.1	S/I WITH OUT EARTH SWITCH	NOS	8		0.00		0.00						0.00	0.00	0.00	
2.2	D/I WITH SINGLE EARTH SWITCH	NOS	2		0.00		0.00						0.00	0.00	0.00	
2.3	D/I WITHOUT EARTH SWITCH	NOS	2		0.00		0.00						0.00	0.00	0.00	
3	145 KV,6000pF,3CORE,SINGLE PHASE CAPACITOR VOLTAGE TRANSFORMER	NOS	6		0.00		0.00						0.00	0.00	0.00	
4	120 KV METAL OXIDE SURGE ARRESTOR, 10 KA, Class III	NOS	12		0.00		0.00						0.00	0.00	0.00	
5	145 KV ,2 CORE,SINGLE PHASE,IVT	NOS	3		0.00		0.00						0.00	0.00	0.00	
6	132 KV Bus Post Insulators	NOS	16		0.00		0.00						0.00	0.00	0.00	
7	145KV,3150A,40KA,SF6,CIRCUIT BREAKER WITH SUPPORTING STRUCTURE	NOS	5		0.00		0.00						0.00	0.00	0.00	
8.1	36 KV,800-400-200,25KA,3 CORE SINGLE PHASE CURRENT TRANSFORMER(2 NOS PS CLASS & 1 NO. 0.2s CLASS)	NOS	15		0.00		0.00						0.00	0.00	0.00	
8.2	36 KV,800-400-200,25KA,4 CORE SINGLE PHASE CURRENT TRANSFORMER(3 NOS PS CLASS & 1 NO. 0.2s CLASS)	NOS	6		0.00		0.00						0.00	0.00	0.00	
9	36 KV CLASS NCT FOR POWER TRANSFORMER REF PROTECTION (RATIO 800-400-200 A) & HAVING TWO CORE (PS CLASS) (IN EACH POWER TRANSFORMER 132 KV SIDE: 1 NO. & 33 KV SIDE: 1 NO.)	NOS	4		0.00		0.00						0.00	0.00	0.00	
10	36 KV,1250A,25KA,ISOLATORS															
10.1	S/I WITH OUT EARTH SWITCH	NOS	8		0.00		0.00						0.00	0.00	0.00	
10.2	D/I WITH SINGLE EARTH SWITCH	NOS	4		0.00		0.00						0.00	0.00	0.00	
10.3	D/I WITHOUT EARTH SWITCH	NOS	2		0.00		0.00						0.00	0.00	0.00	
10.4	S/I WITH BEAM MOUNTED	NOS	2		0.00		0.00						0.00	0.00	0.00	
11	30 KV, METAL OXIDE SURGE ARRESTOR, 10KA, class II	NOS	27		0.00		0.00						0.00	0.00	0.00	
12	36 KV ,2 CORE,SINGLE PHASE,IVT	NOS	3		0.00		0.00						0.00	0.00	0.00	
13	36KV,1250A,25KA,VACUUM CIRCUIT BREAKER WITH SUPPORTING STRUCTURE	NOS	7		0.00		0.00						0.00	0.00	0.00	
14	33 KV Bus Post Insulators	NOS	16		0.00		0.00						0.00	0.00	0.00	
15	BUS BAR & CIRCUIT MATERIALS															
15.1	ANTIFOG TYPE INSULATORS															
15.1.1	120 KN	NOS	1080		0.00		0.00						0.00	0.00	0.00	
15.1.2	90 KN	NOS	240		0.00		0.00						0.00	0.00	0.00	
15.2	HARDWARES & FITTINGS/SPACERS/CLAMP & CONNECTORS															
15.2.1	132 KV Double Tension Hard ware fitting for TWIN MOOSE ACSR Conductor.	NOS	36		0.00		0.00						0.00	0.00	0.00	
15.2.2	132 KV Single Tension Hard ware fitting for TWIN MOOSE ACSR Conductor.	NOS	18		0.00		0.00						0.00	0.00	0.00	
15.2.3	132 KV Single Suspension Hard ware fitting for SINGLE MOOSE ACSR Conductor.	NOS	15		0.00		0.00						0.00	0.00	0.00	
15.2.4	132 KV Single Tension Hard ware fitting for SINGLE MOOSE ACSR Conductor.	NOS	42		0.00		0.00						0.00	0.00	0.00	
15.2.5	33 KV Single Tension Hard ware fitting for SINGLE MOOSE ACSR Conductor.	NOS	45		0.00		0.00						0.00	0.00	0.00	
15.2.6	33 KV Single Suspension Hard ware fitting for SINGLE MOOSE ACSR Conductor.	NOS	27		0.00		0.00						0.00	0.00	0.00	
15.2.7	33 KV Single Tension Hard ware fitting for TWIN MOOSE ACSR Conductor.	NOS	18		0.00		0.00						0.00	0.00	0.00	
15.2.8	132 KV "T" Clamp for single moose run with single moose ACSR drop	NOS	72		0.00		0.00						0.00	0.00	0.00	
15.2.9	132 KV "T" Clamp for twin moose run with single moose ACSR drop	NOS	15		0.00		0.00						0.00	0.00	0.00	
15.2.10	33 KV "T" Clamp for single moose run with single moose ACSR drop	NOS	78		0.00		0.00						0.00	0.00	0.00	
15.2.11	33 KV "T" Clamp for twin moose run with single moose ACSR drop	NOS	39		0.00		0.00						0.00	0.00	0.00	
15.2.12	132 KV PI Clamp	NOS	14		0.00		0.00						0.00	0.00	0.00	
15.2.13	132 KV LA Clamp	NOS	12		0.00		0.00						0.00	0.00	0.00	
15.2.14	132 KV CVT Clamp	NOS	12		0.00		0.00						0.00	0.00	0.00	
15.2.15	132 KV WT Clamp	NOS	8		0.00		0.00						0.00	0.00	0.00	
15.2.16	132 KV CT Clamp	NOS	30		0.00		0.00						0.00	0.00	0.00	
15.2.17	132 KV IVT Clamp	NOS	6		0.00		0.00						0.00	0.00	0.00	
15.2.18	132 KV CB Clamp	NOS	30		0.00		0.00						0.00	0.00	0.00	

Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2A-SS) SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS (As per Technical Specification)	UNITS	NAME OF THE BIDDER												
			QUANTITY: for Construction of 2x20 MVA, 132/33 KV Sub-Station at HIRAKUD (132 KV BAY-05 NOS @2 FDR,02 TFR & 01 B/C) & (33 KV BAY-07 NOS,04 FDR, 02 TFR ,01 B/C)	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 IN INR	Unit FORD Price IN INR	TOTAL FORD Price IN INR
1	2	3	4	5	6=4X5	7	8=4X7	9	10	11	12	13	14 = 10+11+12+13	15=6+7+10+11+12+13	16=15x4
15.2.19	33 KV PI Clamp	NOS	7		0.00		0.00						0.00	0.00	0.00
15.2.20	33 KV Isolator pad clamp	NOS	114		0.00		0.00						0.00	0.00	0.00
15.2.21	33 KV LA Clamp	NOS	24		0.00		0.00						0.00	0.00	0.00
15.2.22	33 KV CT Clamp	NOS	42		0.00		0.00						0.00	0.00	0.00
15.2.23	33 KV IVT Clamp	NOS	3		0.00		0.00						0.00	0.00	0.00
15.2.24	33 KV CB Clamp	NOS	42		0.00		0.00						0.00	0.00	0.00
15.2.25	Spacer for Twin bus ACSR 132 KV bus	NOS	15		0.00		0.00						0.00	0.00	0.00
15.2.26	Spacer for Twin bus ACSR 33 KV bus	NOS	16		0.00		0.00						0.00	0.00	0.00
15.3	ACSR MOOSE CONDUCTOR	KMS	4		0.00		0.00						0.00	0.00	0.00
15.4	EARTHING SPIKES & ITS HARDWARES & FITTING														
15.4.1	FOR 132KV SIDE : 21 NOS @ 7 MTRS LENGTH EACH	SET	21		0.00		0.00						0.00	0.00	0.00
15.4.2	FOR 33 KV SIDE: 19 NOS @ 5 MTRS EACH	SET	19		0.00		0.00						0.00	0.00	0.00
15.5	SUBSTATION EARTHING SYSTEMS														
15.5.1	EARTHING CONDUCTOR FOR BURRIAL : 75X10 mm GI Flat for laying (spacing maximum 5m both way)	M.T	23.92		0.00		0.00						0.00	0.00	0.00
15.5.2	EARTHING CONDUCTOR: 50X6 mm GI Flat for Raiser from the burial earth mat to equipment structure etc)	M.T.	9		0.00		0.00						0.00	0.00	0.00
15.5.3	EARTHING DEVICE & ASSOCIATED ACCESSORIES (50 mm heavy duty GI PERFORATED PIPE 3 mtrs long for treated earth pit)	SETS	120		0.00		0.00						0.00	0.00	0.00
15.5.4	EARTHING DEVICE & ASSOCIATED ACCESSORIES 40mm MS rod 3 mtrs long for non treated earth pit)	SETS	85		0.00		0.00						0.00	0.00	0.00
15.5.5	Providing and supplying all labour, material, equipments etc. required for making of Special Bore well type earthing by using Pipe-In-Pipe earthing electrode in order to minimize the earth resistance OF THE SWITCH-YARD below 0.5 OHM.	NOS	0		0.00		0.00						0.00	0.00	0.00
15.6	G.I Cable Trays including support GI angle suitable for different sections i.e. Section-1:1-2,2-3 & 4-4 along with its accessories as per TS.														
15.6.1	G.I Cable Trays(size: 450X75X2500mm)	MTRS	1500		0.00		0.00						0.00	0.00	0.00
15.6.2	G.I Cable Trays(size: 300X75X2500mm)	MTRS	2000		0.00		0.00						0.00	0.00	0.00
15.6.3	G.I Cable Trays(size: 150X75X2500mm)	MTRS	1200		0.00		0.00						0.00	0.00	0.00
15.6.4	Support G. I angle 50X50x6 mm for cable tray	MT	2.5		0.00		0.00						0.00	0.00	0.00
15.7	SUB STATION SWITCHYARD BMK,AC CONSOLE & OTHER MARSHALLING BOXES														
15.7.1	BAY MARSHALLING KIOSK (03 Nos 132 kv bay & 04 Nos 33 KV bay)	NOS	7		0.00		0.00						0.00	0.00	0.00
15.7.2	SWITCH YARD AC CONSOLE FOR LIGHTING ( 01 Nos 132 kv bay & 01 No in 33KV bay )	NOS	2		0.00		0.00						0.00	0.00	0.00
15.7.3	SWITCH YARD RECEPTACLE BOARD FOR TFR OIL FILTRATION ( 1 No near 132/33 KV power Transformer)	NOS	1		0.00		0.00						0.00	0.00	0.00
15.7.4	SWITCH YARD RECEPTACLE BOARD FOR WELDING & OTHER EMERGENCY (01 nos each on 132 & 33 kv bay )	NOS	2		0.00		0.00						0.00	0.00	0.00
15.7.5	CT,PT & CVT Out Door Console Boxes	NOS	18		0.00		0.00						0.00	0.00	0.00
16	SWITCH YARD STRUCTURES COLUMN & BEAM (LATTICE TYPE) FOR 132/33 KV CLASS INCLUDING FOUNDATION BOLTS & NUTS.														
16.1	DIFFERENT TYPES OF COLUMNS WITH DETAILS														
16.1.1	T15 - 132 KV(NOMINAL UNIT WT-1.2 MT) (16 nos.)	MT	19.2												
16.1.2	T45 - 132KV (NOMINAL UNIT WT- 0.95 MT) (5nos.)	MT	4.75												
16.1.3	T85 - 33KV(NOMINAL UNIT WT- 0.8 MT) (9 nos.)	MT	7.2												
16.1.4	T95 - 33KV(NOMINAL UNIT WT- 0.6 MT) (11 nos.)	MT	6.6												
16.2	DIFFERENT TYPE OF BEAMS WITH DETAILS														
16.2.1	G1 - 132 KV(NOMINAL UNIT WT- 0.62 MT) (11 nos.)	MT	6.82												
16.2.2	G1X - 132 KV (NOMINAL UNIT WT- 1.4 MT) (5 nos.)	MT	7												
16.2.3	G2 - 132 KV(NOMINAL UNIT WT- 0.91 MT) (4 nos.)	MT	3.64												
16.2.4	G1.2 - 132 KV(Each two beams of G1 type) (NOMINAL UNIT WT- 1.25 MT)	MT	0												
16.2.5	G6 - 33KV (NOMINAL UNIT WT- 0.53 MT) (3 nos.)	MT	1.59												
16.2.6	G4 - 33KV(NOMINAL UNIT WT- 0.4 MT) (9 nos.)	MT	3.6												
16.2.7	G4X - 33KV (NOMINAL UNIT WT- 0.4 MT) (2 nos.)	MT	0.8												
16.3	TOTAL WEIGHT OF COLUMN & BEAM	MT	61.2		0.00		0.00						0.00	0.00	0.00
16.4	SWITCH YARD EQUIPMENT STRUCTURES (LATTICE TYPE) FOR 132/33 KV CLASS INCLUDING FOUNDATION BOLTS & NUTS.														
16.4.1	ISOLATORS-132KV														
16.4.1.1	132KV ISOLATOR (S.I.) (9 NOS.)	MT	10.44												
16.4.1.2	132 KV ISOLATOR (D.I.) (4 NOS.)	MT	4.64												
16.4.2	ISOLATORS-33 KV														
16.4.2.1	33KV ISOLATOR (S.I.) (8 NOS.)	MT	2.064												
16.4.2.2	33KV ISOLATOR (D.I.) (6 NOS.)	MT	2.58												
16.4.3	CTS-132 KV (15 NOS.)	MT	3.39												

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			QUANTITY: for Construction of 2x20 MVA, 132/33 KV Sub-Station at HIRAKUD (132 KV BAY-05 NOS.02 FDR/02 TTR & 01 B.C. & 33 KV BAY-07 NOS.04 FDR.02 TTR.01 B.C)												
1	2	3	4	5	6=4X5	7	8= 4X7	9	10	11	12	13	14 = 10+11+12+13	15=9+7+10+11+12+13	16=15x4
16.4.4	CTS-33 KV (21 NOS.)	MT	3.801												
16.4.5	CVTS-132 KV (6 NOS.)	MT	1.524												
16.4.6	IVTS-132 KV (3 NOS.)	MT	0.762												
16.4.7	IVTS-33 KV (3 NOS.)	MT	0.402												
16.4.8	Surge Arrestor-132 KV (12 NOS.)	MT	2.712												
16.4.10	Wave Trap-132 KV (4 NOS.)	MT	0.984												
16.4.11	BPI-132 KV (16 NOS.)	MT	3.616												
16.4.12	BPI-33 KV (16 NOS.)	MT	0.938												
16.4.13	NCTS (4 NOS.)	MT	0.904												
16.5	TOTAL WEIGHT OF EQUIPMENT STRUCTURE	MT	38.76		0.00		0.00						0.00	0.00	0.00
16.6	Total weight of GI Nuts and bolts for the above structures	MT	8		0.00		0.00						0.00	0.00	0.00
17	GENERAL EQUIPMENT & SUBSTATION ACCESSORIES														
17.1	POWER CABLES,1.1KV,XLPE/PVC ARMoured, ALUMINIUM CONDUCTOR (As per Specification)														
17.1.1	XLPE 3.5 CX300 mm <sup>2</sup>	MTRS	500		0.00		0.00						0.00	0.00	0.00
17.1.2	XLPE 3.5 CX185 mm <sup>2</sup>	MTRS	300		0.00		0.00						0.00	0.00	0.00
17.1.3	XLPE 3.5 CX120 mm <sup>2</sup>	MTRS	200		0.00		0.00						0.00	0.00	0.00
17.1.4	PVC 3.5 CX70 mm <sup>2</sup>	MTRS	600		0.00		0.00						0.00	0.00	0.00
17.1.5	PVC 3.5 CX35 mm <sup>2</sup>	MTRS	1500		0.00		0.00						0.00	0.00	0.00
17.1.6	PVC 4 CX 16 mm <sup>2</sup>	MTRS	1000		0.00		0.00						0.00	0.00	0.00
17.1.7	PVC 4 CX 6 mm <sup>2</sup>	MTRS	3500		0.00		0.00						0.00	0.00	0.00
17.1.8	PVC 2CX 6 mm <sup>2</sup>	MTRS	2000		0.00		0.00						0.00	0.00	0.00
17.2	CONTROL CABLES,1.1 KV, PVC,STRANDED COPPER(As per specification)														
17.2.1	2 CX 2.5 mm <sup>2</sup>	MTRS	5000		0.00		0.00						0.00	0.00	0.00
17.2.2	4 CX 2.5 mm <sup>2</sup>	MTRS	10000		0.00		0.00						0.00	0.00	0.00
17.2.3	5 CX 2.5 mm <sup>2</sup>	MTRS	4000		0.00		0.00						0.00	0.00	0.00
17.2.4	7CX 2.5 mm <sup>2</sup>	MTRS	5000		0.00		0.00						0.00	0.00	0.00
17.2.5	10 CX 2.5 mm <sup>2</sup>	MTRS	10000		0.00		0.00						0.00	0.00	0.00
17.2.6	12 CX 2.5 mm <sup>2</sup>	MTRS	9000		0.00		0.00						0.00	0.00	0.00
17.2.7	16 CX 2.5 mm <sup>2</sup>	MTRS	5000		0.00		0.00						0.00	0.00	0.00
17.2.8	19 CX 2.5 mm <sup>2</sup>	MTRS	2000		0.00		0.00						0.00	0.00	0.00
17.2.9	1CX 120 mm <sup>2</sup> BAT TO BAT CHARGER & CHARGER TO DCDB	MTRS	600		0.00		0.00						0.00	0.00	0.00
18	ACCESSORIES FOR PLCC SYSTEM AS PER TECHNICAL SPECIFICATION														
18.1	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	4		0.00		0.00						0.00	0.00	0.00
18.2	LINE MATCHING UNIT HAVING BUILT-IN PROTECTIVE DEVICES LIKE DRAINAGE COIL, SURGE ARRESTOR AND EARTH SWITCH. TUNABLE BAND PASS COUPLING FILTER: 90-500KHZ, HF POWER RATING: 650 W & LINE MATCHING DISTRIBUTION UNIT	SET	2		0.00		0.00						0.00	0.00	0.00
18.3	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 MHz	MTRS	1000		0.00		0.00						0.00	0.00	0.00
18.4	EPAX standard complied to ITU-T, G-711,G-712,Q507,Q-517 capacity 16lines/Trunks, specification transducers and interfacing cards for Analog input and Digital output (Optional)	NO	1		0.00		0.00						0.00	0.00	0.00
18.5	10 PAIR ARMOURD TELEPHONE CABLES	MTRS	1000		0.00		0.00						0.00	0.00	0.00
18.6	4 PAIR NON ARMOURD TELEPHONE CABLES	MTRS	500		0.00		0.00						0.00	0.00	0.00
18.7	2 WIRE TELEPHONE SET	NO	20		0.00		0.00						0.00	0.00	0.00
18.8	FAX MACHINE	NO	1		0.00		0.00						0.00	0.00	0.00
18.9	48 V, 300 AH, maintenance free VRLA Battery set.	SET	1		0.00		0.00						0.00	0.00	0.00
18.10	75A, 48V Float cum Boost Charger; (Float/Boost current as recommended by VRLA Battery vendor)	SET	1		0.00		0.00						0.00	0.00	0.00
18.11	48 V DCDB	SET	1		0.00		0.00						0.00	0.00	0.00
19	SUPPLY OF STATION TRANSFORMER & OTHER MATERIALS FOR MEETING THE AUXILIARY SUPPLY OF THE SUB-STATION AS PER TECHNICAL SPECIFICATION														
19.1	STATION TRANSFORMER 33KV/13.3KV,315 KVA (AS PER SPECIFICATION)	NOS	2		0.00		0.00						0.00	0.00	0.00
19.2	33 KV AB SWITCH IN 33 KV SIDE(600AMP),HG FUSE, DP STRUCTURE(preferably by using 200X100 mm RS Joints) ANGLE FOR BRACING OF DP STRUCTURE,POWER CABLES, CHANEL, FOR ERECTION OF TRANSFORMER INCLUDING INSULATORS, CONDUCTOR, CLAMPS & SUB STATION LIGHTING (AS PER SPECIFICATION AND APPROVED DRAWINGS @Switch yard and other street area)	SETS	2		0.00		0.00						0.00	0.00	0.00
20	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).	SET	40		0.00		0.00						0.00	0.00	0.00
20.1	STREET LIGHTING, IT INCLUDES SUPPLY OF GI TUBULAR POLE, WITH LED LIGHTING FIXTURES WITH LAMPS of reputed make (Philips/CGL/Bajaj)(TO BE PROVIDED IN THE SWITCH YARD, ALONG THE ROADS (APPROACH INSIDE YARD AND OTHER ROADS).	SET	20		0.00		0.00						0.00	0.00	0.00

Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2A-SS) SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS (As per Technical Specification)	UNITS	NAME OF THE BIDDER														
			QUANTITY: for Construction of 2x20 MVA, 132/33 KV Sub-Station at HIRAKUD (132 KV, BAY-05 NOS. 02 HDR,02 TFR & 01 B/C) & (33 KV BAY-07 NOS-04 HDR, 02 TFR, 01 B/C)		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 IN INR	Unit FORD Price IN INR	TOTAL FORD Price IN INR	
1	2	3	4	5	6=4X5	7	8= 4X7	9	10	11	12	13	14 = 10+11+12+13	15=9+7+10+11+12+13	16=15x4		
20.2	<b>ELECTRICAL SUPPLY TO STREET LIGHTING, COLONY QUARTERS:-</b> <b>(1) &gt; 1 NO. OUTDOOR KIOSK FOR STREET LIGHTING PURPOSE</b> HAVING 2 NOS 200 AMP SWITCH FUSE UNITS AND 6 NOS. OUT LETS OF 32 AMP MCB FOR STREET LIGHTING. (XLPE CABLES(3.5 CORE 120 SQMM) FROM MAIN ACDB FROM CONTROL ROOM TO THE OUT DOOR KIOSK. XLPE CABLE OF 4C X 16 SQMM FROM OUTDOOR KIOSK TO THE STREET LIGHT POLES AND 4C X 6 SQMM FROM POLE TO POLE AND 2CX6 SQMM FROM POLE TO LIGHTING FIXTURES) <b>(2) &gt;1 NO. OUTDOOR KIOSK FOR COLONY SUPPLY PURPOSE</b> HAVING 2 NOS 200amp SWITCH FUSE UNIT. 6 NOS. OUTLETS OF 32 A MCB FOR COLONY QUARTERS (XLPE CABLE 3.5 C X 120 SQMM FROM MAIN ACDB FROM CONTROL ROOM TO THE OUT DOOR KIOSK. 4 C X 16 SQMM FROM KIOSK TO EACH QUARTERS, PRVISION OF CABLE (2C/4C-6 SQM) FROM THE OUTDOOR KIOSK INSTALLED NEAR THE QUARTER TO THE RESPECTIVE QUARTERS UP TO THE SWITCH FUSE UNIT PROVIDED INSIDE THE QUARTERS. INDIVIDUAL CABLES FOR INDIVIDUAL QUARTERS. IT ALSO INCLUDES PROPER EARTHING OF THE QUARTER AS PER THE STANDARD PRACTICE AND SPECIFICATION.) <b>REMARKS-&gt;</b> ALL THE STREET LIGHT POLE SHALL BE OF GI TUBULAR POLE AND PROVISION OF A GI JUNCTION BOX WITH SUITABLE COVERS AT A HEIGHT OF 1 METRE FROM THE GROUND. (LT UNDER GROUND POWER CABLES OF 4CX6/16 SQMM SHALL BE CONNECTED TO THE JUNCTION BOX.) THE JUNCTION BOX SHALL HAVE PROVISION OF FUSES, BUSES, CONNECTORS FOR CABLE IN AND OUT. THIS INCLUDES SUPPLY OF ALL MATERIALS(EXCEPT CABLES) AS PER APPROVED DRAWING AND SPECIFICATION TO COMPLETE THE STREET LIGHTING SYSTEM.	SET	2		0.00		0.00						0.00	0.00	0.00		
21	2 TR CAPACITY SPLIT AIR CONDITIONING UNITS WITH REMOTE CONTROL FACILITY: INCLUDING SUPPLY OF AIR CONDITIONERS,VOLTAGE STABILISER,CONTROL BOXES ETC FOR COMPLETING THE A.C SCHEME (AS PER SPECIFICATION ) FOR CONTROL ROOM, CARRIER ROOM & CONFERENCE ROOM.(SUPPLY OF CABLES ARE COVERED IN CABLE ITEMS AS INDICATED ABOVE.)	SET	20		0.00		0.00						0.00	0.00	0.00		
22	<b>FIRE FIGHTING SYSTEM(Portable and wheel mounted sets for control room,equipment like transformer and other areas as per tech spec(REFER TS-INST TO BIDDER BEFORE DESIGN-SL NO 16-ANNEXURE - I))</b>																
22.1	FOAM TYPE-9 LTRS	NOS	4		0.00		0.00						0.00	0.00	0.00		
22.2	DRY CHEMICAL POWDER(TROLLEY MOUNTED)- 22.5 KGS	NOS	4		0.00		0.00						0.00	0.00	0.00		
22.3	DRY POWDER TYPE - 5 KGS	NOS	4		0.00		0.00						0.00	0.00	0.00		
22.4	CO <sub>2</sub> - 4.5 KGS	NOS	10		0.00		0.00						0.00	0.00	0.00		
22.5	CO <sub>2</sub> - 9 KGS	NOS	10		0.00		0.00						0.00	0.00	0.00		
22.6	CO <sub>2</sub> (TROLLY MOUNTED)- 22.5 KGS	NOS	4		0.00		0.00						0.00	0.00	0.00		
22.7	Water type-9 LTRS	NOS	4		0.00		0.00						0.00	0.00	0.00		
22.8	Foam type - 50 LTR	NOS	2		0.00		0.00						0.00	0.00	0.00		
22.9	FIRE BUCKET (6 NOS IN EACH STAND) WITH STAND	SET	5		0.00		0.00						0.00	0.00	0.00		
23	<b>PROTECTION,CONTROL, METERING, EVENT LOGGER,BUS BAR PROT N PAN,COMM PAN, RELAY TOOL KITS AS PER TECH SPEC</b>																
23.1	TIME SYNCH EQUIPMENT	NOS	1		0.00		0.00						0.00	0.00	0.00		
23.2	<b>132 KV SIDE (DUPEX TYPE PANEL)</b>																
23.2.1	FEEDER CONTROL & RELAY PANEL	NOS	2		0.00		0.00						0.00	0.00	0.00		
23.2.2	TRANSFORMER CONTROL & RELAY PANEL( FOR 132 KV SIDE OF 132/33 KV POWER TRANSFORMER)	NOS	2		0.00		0.00						0.00	0.00	0.00		
23.2.3	BUSCOUPLER CONTROL & RELAY PANEL	NOS	1		0.00		0.00						0.00	0.00	0.00		
23.2.4	COMMON PANEL (KP-1)	NOS	1		0.00		0.00						0.00	0.00	0.00		
23.3	<b>33 KV SIDE</b>																
23.3.1	FEEDER CONTROL & RELAY PANEL	NOS	4		0.00		0.00						0.00	0.00	0.00		
23.3.2	TRANSFORMER CONTROL & RELAY PANEL	NOS	2		0.00		0.00						0.00	0.00	0.00		
23.3.3	BUSCOUPLER CONTROL & RELAY PANEL	NOS	1		0.00		0.00						0.00	0.00	0.00		
24	<b>AC &amp; DC SYSTEM</b>																
24.1	<b>AC SYSTEM</b>																
24.1.1	MAIN AC DB (HAVING 800 A,50KA,DRAWOUT TYPE ACB WITH 3 C/C,E/F,I/V RELAYING FACILITY INDOOR TYPE AS PER SPECIFICATION)(MAIN DB-1,MAIN DB-2 WITH B/C)	SET	1		0.00		0.00						0.00	0.00	0.00		
24.1.2	ACDB (HAVING 400A MCCB) AS PER SPECIFICATION (AC DB-1,AC DB-2 WITH B/C)	SET	1		0.00		0.00						0.00	0.00	0.00		
24.1.3	MAIN LIGHTING DISTRIBUTION BOARD (HAVING 250A MCCB AS INCOMER)AS PER SPECIFICATION (WITH DB-1,DB-2 & B/C)	SET	1		0.00		0.00						0.00	0.00	0.00		
24.1.4	INDOOR LIGHTING DISTRIBUTION BOARD AS PER SPECIFICATION. (WITH DB-1,DB-2 & B/C)	SET	1		0.00		0.00						0.00	0.00	0.00		
24.1.5	EMERGENCY LIGHTING DISTRIBUTION BOARD	SET	1		0.00		0.00						0.00	0.00	0.00		
24.1.6	INDOOR RECEPTACLE BOARD	SET	1		0.00		0.00						0.00	0.00	0.00		
24.2	<b>DC SYSTEM</b>																

Sl. No.	DESCRIPTION OF ITEMS/(SCHEDULE-2A-SS) SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS (As per Technical Specification)	UNITS	NAME OF THE BIDDER												
			QUANTITY: for Construction of 2x20 MVA, 132/33 KV Sub-Station at HIRAKUD (132 KV BAY-4 NOS.02 FDR,02 ITR & 01 BC) & (33 KV BAY-07 NOS.04 FDR,02 ITR,01 BC)	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 IN INR	Unit FORD Price IN INR	TOTAL FORD Price IN INR
1	2	3	4	5	6=4X5	7	8=4X7	9	10	11	12	13	14 = 10+11+12+13	15=9+7+10+11+12+13	16=15x4
24.2.1	220 V DC BOARD (HAVING 100A DC MCCB AS INCOMER, E/F (EARTH LEAKAGE), UNDER & OVER VOLTAGE AS PER SPECIFICATION (DC DB-1)	SET	1		0.00		0.00						0.00	0.00	0.00
24.2.2	220 V DC EMERGENCY DISTRIBUTION BOARD	SET	1		0.00		0.00						0.00	0.00	0.00
24.2.3	BATTERY (350 AH PLANTE TYPE) FOR 220 V DC	SET	1		0.00		0.00						0.00	0.00	0.00
24.2.4	BATTERY CHARGER FOR 220 V, 350 AH BATTERY (FLOAT AND FLOAT CUM BOOST)	SET	1		0.00		0.00						0.00	0.00	0.00
25	DISTILTED WATER PLANT OF 10 LTR/HR FOR BATTERY BANKS	SET	1		0.00		0.00						0.00	0.00	0.00
26	WALKIE TALKIE SET	SET /PAIR	2		0.00		0.00						0.00	0.00	0.00
27	PORTABLE ALUMINIUM LADDER EXTENDABLE TYPE OF ADEQUATE HEIGHT TO BE USED FOR MAINTENANCE OF EQUIPMENT INSIDE SWITCH YARD.	NOS	2		0.00		0.00						0.00	0.00	0.00
28	PEDESTAL MOUNTED WHEEL FITTED DERRICK FOR LIFTING/ LOWERING OF MATERIALS UP TO 1.5 TON CAPACITY.	SET	1		0.00		0.00						0.00	0.00	0.00
29	POWER WINCH NEAR STORE SHED FOR HANDLING MATERIALS UPTO 5 TON CAPACITY.	SET	1		0.00		0.00						0.00	0.00	0.00
30	WATER COOLER WITH WATER PURIFIER SYSTEM	NOS	1		0.00		0.00						0.00	0.00	0.00
31	MAINTENANCE TESTING EQUIPMENT (AS PER ANNEXURE - I INDICATED IN TS-TIMK-SCHEDULE OF REQUIREMENTS OF MAINTENANCE EQUIPMENT)	SET	1		0.00		0.00						0.00	0.00	0.00
32	OTHER TOOLS AND PLANTS (T&P's) REQUIREMENT (AS PER ANNEXURE - II INDICATED IN TS-TIMK-SCHEDULE OF REQUIREMENTS OTHER T&P's)	SET	1		0.00		0.00						0.00	0.00	0.00
33	OFFICE FURNITURE (AS PER ANNEXURE - B) INDICATED IN TS-TIMK-SCHEDULE OF REQUIREMENTS OFFICE FURNITURE)-PLACING IN CONTROL ROOM,CONFERENCE ROOM,OFFICE ROOMS,LIBRARY,TESTING LAB,etc.	SET	1		0.00		0.00						0.00	0.00	0.00
34	BEST QUALITY & APPROVED MAKE RUBBER MAT TO BE KEPT INFRONT OF ALL PANELS,BOARDS ETC.	NOS	35		0.00		0.00						0.00	0.00	0.00
	<b>TOTAL OF SUBSTATION-2A (SUPPLY)</b>				0.00		0.00		0.00	0.00	0.00	0.00	0.00		0.00

PACKAGE 25-04				ODISHA POWER TRANSMISSION CORPORATION LIMITED											
				NAME OF THE WORK:- Construction of 2X20 MVA-132/33 KV Sub-station at HIRAKUD & associated 132 KV LILO line on existing Burla-Sambalpur (Line length-0.5 Kms).											
				NOTICE INVITING TENDER-NIT NO. 25/2013-14 & BID DOCUMENT No.:Sr. G.M- CPC- TENDER- HIRAKUD- PACKAGE- 25-04 / 2013											
				SCHEDULE-2A-SUPPLY (FOR TRANSMISSION LINE) (Equipment/Materials Price Break-up of Ex-works Prices against Package-25-04-HIRAKUD)											
Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2A-LINE) SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS (As per Technical Specification)	UNITS	NAME OF THE BIDDER												
			QUANTITY: for Construction of LILO line from existing 132 KV Burla- Sambalpur SCC line to proposed 132/33 KV Grid Sub-Station HIRAKUD (APPROX.LENGTH 0.5 kms.)	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 IN INR	Unit FORD Price IN INR	TOTAL FORD Price IN INR
1	2	3	4	5	6=4X5	7	8= 4X7	9	10	11	12	13	14 = 10+11+12+13	15=6+7+10+11+12+13	16=15x4
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 cooping(legs & bracing members). All Supply should confirm to the Technical Specification.														
1.1	PC TYPE (60 deg ANGLE ) TOWERS (Nominal unit weight 6.214 MT)( 3 NOS)	MT	18.642												
1.2	TEMPLATES														
1.2.1	PC (Nominal unit weight 0.904 MT) ( 1 NOS)	Nos.	0.904												
1.3	WEIGHT OF THE STRUCTURES (including Tower stubs, Templates & Foundation Nut and Bolts)	MT	19.546		0.00		0.00						0.00	0.00	0.00
1.4	Weight of different type G.I Nuts and Bolts	MT	1.02		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	EARTHING DEVICE	Nos.	3		0.00		0.00						0.00	0.00	0.00
2.2	DANGER BOARD	Nos.	3		0.00		0.00						0.00	0.00	0.00
2.3	NUMBER PLATE	Nos.	3		0.00		0.00						0.00	0.00	0.00
2.4	PHASE PLATE	Nos.	18		0.00		0.00						0.00	0.00	0.00
2.5	BIRD GUARD	Nos.	0		0.00		0.00						0.00	0.00	0.00
2.6	ANTICLIMBING DEVICE	Nos.	3		0.00		0.00						0.00	0.00	0.00
2.7	CIRCUIT PLATE	Nos.	6		0.00		0.00						0.00	0.00	0.00
3.0	Supply of following POWER CONDUCTORS in the proposed 132 kV lines with provision for sag and wastage as per the technical specification and as per the instruction of the engineer in charge.														
3.1	ACSR PANTHER (30/7/3.0 mm)	Kms.	3.1		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.	36		0.00		0.00						0.00	0.00	0.00
4.1.2	MID SPAN JOINT	Nos.	5		0.00		0.00						0.00	0.00	0.00
4.1.3	Repair Sleeve	Nos.	3		0.00		0.00						0.00	0.00	0.00
4.1.4	Performed Armoured Rod	Set	0		0.00		0.00						0.00	0.00	0.00
5.0	Supply of the GI earth wire of size 7/3.15 mm as per the technical specification, with provision for Sag & Wastage and as per the direction of Engineer in charge.	Kms.	0.6		0.00		0.00						0.00	0.00	0.00
6.0	EARTH CONDUCTOR ACCESSORIES														
6.1	VIBRATION DAMPER	Nos.	8		0.00		0.00						0.00	0.00	0.00
6.2	FLEXIBLE EARTH BOND	Nos.	10		0.00		0.00						0.00	0.00	0.00
6.3	SUSPENSION CLAMP	Nos.	0		0.00		0.00						0.00	0.00	0.00
6.4	TENSION CLAMP	Nos.	10		0.00		0.00						0.00	0.00	0.00
6.5	MID SPAN JOINT	Nos.	5		0.00		0.00						0.00	0.00	0.00
6.6	Repair Sleeve	Nos.	5		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	Nos.	0		0.00		0.00						0.00	0.00	0.00
7.2	120 KN Insulator	Nos.	504		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.	0		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.	0		0.00		0.00						0.00	0.00	0.00
8.1.3	Single tension Hard wares fittings suitable for 120 KN insulator.	Nos.	48		0.00		0.00						0.00	0.00	0.00
8.1.4	Double tension Hard wares fittings suitable for 120 KN insulator.	Nos.	0		0.00		0.00						0.00	0.00	0.00

Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2A-LINE) SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS (As per Technical Specification)	UNITS	NAME OF THE BIDDER												
				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 IN INR	Unit FORD Price IN INR	TOTAL FORD Price IN INR
			QUANTITY: for Construction of LLO line from existing 132 KV Burla- Sambalpur SC line to proposed 132/33 KV Grid Sub-Station HIRAKUD (APPROX. LENGTH 0.5 kms.)												
1	2	3	4	5	6=4X5	7	8=4X7	9	10	11	12	13	14 = 10+11+12+13	15=6+7+10+11+12+13	16=15x4
8.1.5	10+Shackle	Nos.	0		0.00		0.00						0.00	0.00	0.00
8.1.6	Hanger	Nos.	0		0.00		0.00						0.00	0.00	0.00
8.1.7	U-Bolt	Nos	12		0.00		0.00						0.00	0.00	0.00
	TOTAL OF SUBSTATION-2A (SUPPLY)				0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 ref clause 6.0 of SCC (Vol-IA)

PACKAGE 25-04				ODISHA POWER TRANSMISSION CORPORATION LIMITED				
				NAME OF THE WORK:- Construction of 2X20 MVA-132/33 KV Sub-station at HIRAKUD & associated 132 KV LILO line on existing Burla-Sambalpur (Line length-0.5 Kms).				
				NOTICE INVITING TENDER-NIT NO. 25/2013-14 & BID DOCUMENT No.:Sr. G.M- CPC- TENDER- HIRAKUD- PACKAGE- 25-04 / 2013				
				SCHEDULE-2C-ERECTION & CIVILWORKS (FOR SUBSTATION) (Equipment/Materials Price Break-up of Ex-works Prices against Package-25-04-HIRAKUD)				
Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2C-SS) ERECTION,TESTING & COMMISSIONING OF FOLLOWING EQUIPMENTS ALONG WITH CIVIL WORKS (As per Technical Specification)	UNIT	NAME OF THE BIDDER	Unit Erection Rate IN INR	Total Erection Price IN INR	Unit Service tax IN INR	Total Service tax IN INR	TOTAL Erection chrges(including service tax) IN INR
1	2	3	4	5	6=4x5	7	8=4x7	9=6+8
<b>PART-A ELECTRICAL WORKS</b>								
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	15		0.00		0.00	0.00
2	145 KV,1250A,31.5KA,ISOLATORS							
2.1	SI WITH OUT EARTH SWITCH	NOS	8		0.00		0.00	0.00
2.2	DI WITH SINGLE EARTH SWITCH	NOS	2		0.00		0.00	0.00
2.3	DI WITHOUT EARTH SWITCH	NOS	2		0.00		0.00	0.00
3	145 KV,6600pF,3CORE,SINGLE PHASE CAPACITOR VOLTAGE TRANSFORMER	NOS	6		0.00		0.00	0.00
4	120 KV METAL OXIDE SURGE ARRESTOR, 10 KA, Class III	NOS	12		0.00		0.00	0.00
5	145 KV,2 CORE,SINGLE PHASE JVT	NOS	3		0.00		0.00	0.00
6	132 KV Bus Post Insulators	NOS	16		0.00		0.00	0.00
7	145KV,3150A,40KA,3P/6 CIRCUIT BREAKER WITH SUPPORTING STRUCTURE	NOS	5		0.00		0.00	0.00
8	36 KV,800-400-200,25KA,3 CORE SINGLE PHASE CURRENT TRANSFORMER							
8.1	36 KV,800-400-200,25KA,3 CORE SINGLE PHASE CURRENT TRANSFORMER(2 NOS PS CLASS & 1 NO. 0.2s CLASS)	NOS	15		0.00		0.00	0.00
8.2	36 KV,800-400-200,25KA,4 CORE SINGLE PHASE CURRENT TRANSFORMER(3 NOS PS CLASS & 1 NO. 0.2s CLASS)	NOS	6		0.00		0.00	0.00
9	36 KV CLASS NCT FOR POWER TRANSFORMER REF PROTECTION (RATIO 800-400-200 A) & HAVING TWO CORE (PS CLASS) (IN EACH POWER TRANSFORMER 132 KV SIDE: 1 NO. & 33 KV SIDE:1 NO)	NOS	4		0.00		0.00	0.00
10	36 KV,1250A,25KA,ISOLATORS							
10.1	SI WITH OUT EARTH SWITCH	NOS	8		0.00		0.00	0.00
10.2	DI WITH SINGLE EARTH SWITCH	NOS	4		0.00		0.00	0.00
10.3	DI WITHOUT EARTH SWITCH	NOS	2		0.00		0.00	0.00
10.4	SI WITH BEAM MOUNTED	NOS	2		0.00		0.00	0.00
11	30 KV, METAL OXIDE SURGE ARRESTOR, 10KA, class II	NOS	27		0.00		0.00	0.00
12	36 KV,2 CORE,SINGLE PHASE JVT	NOS	3		0.00		0.00	0.00
13	36KV,1250A,25KA,VACUUM CIRCUIT BREAKER WITH SUPPORTING STRUCTURE	NOS	7		0.00		0.00	0.00
14	<b>BUS BAR &amp; CIRCUIT MATERIALS</b>							
14.1	TENSION & SUSPENSION ANTI FOG TYPE INSULATOR STRING							
14.1.1	120 KN ANTIFOG INSULATOR STRINGS for Double Moose cond (TENSION)-132 KV	NOS	1080		0.00		0.00	0.00
14.1.2	90 KN ANTIFOG INSULATOR STRINGS for Double/ Single Moose cond (SUSPENSION)-132 KV	NOS	240		0.00		0.00	0.00
14.2	Supply of labour,T&P and other necessary arrangements for stringing of bus bar conductors,hoisting of single or double insulator strings,Single or Double Hard-wares Fittings, Clamp & connectors, as per requirements, Jumpers, connections to Equipments,testing,commissioning etc. as per the instruction of Engineer-in charge.							
14.2.1	Single conductor	KM	3		0.00		0.00	0.00
14.2.2	Twin Conductor	KM	1		0.00		0.00	0.00
14.3	Supply of labour,T&P & other necessary arrangement for erection of all type of HARDWARES & FITTINGS/SPACERS/CLAMP & CONNECTORS as per the instruction of Engineer-in charge.	LOT	1		0.00		0.00	0.00
14.4	<b>EARTH SPIKES &amp; IT'S HARDWARES &amp; FITTING</b>							
14.4.1	FOR 132KV SIDE : 21 NOS @ 7 MTRS LENGTH EACH	SET	21		0.00		0.00	0.00
14.4.2	FOR 33 KV SIDE: 19 NOS @ 5 MTRS EACH	SET	19		0.00		0.00	0.00
14.5	<b>SUBSTATION EARTHING SYSTEMS</b>							



Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2C-SS) ERECTION,TESTING & COMMISSIONING OF FOLLOWING EQUIPMENTS ALONG WITH CIVIL WORKS (As per Technical Specification)	UNIT	NAME OF THE BIDDER					
				Unit Erection Rate IN INR	Total Erection Price IN INR	Unit Service tax IN INR	Total Service tax IN INR	TOTAL Erection chrges(including service tax) IN INR
			QUANTITY: for Construction of 2x,20 MVA, 132/33 KV Sub-Station at HIRAKUD 132 KV BAY-405 NOS.02 FOR 132KV/33KV/11KV/0.4KV BAY- FDRAKUD 132KV/33KV/11KV/0.4KV 07 NOS.04 FDR, 02 TFR,01 B.C					
1	2	3	4	5	6=4x5	7	8=4X7	9=6+8
14.5.1	EARTHING CONDUCTOR FOR BURRIAL : 75X10 mm GI Earth Flat for laying (spacing maximum 5m) (Substation earth mat): Design, engineering, supply (except the MS Rods, only erection) inclusive of corrosion protection measures if any,laying of earth mat conductors of size 75X10 mm GI Flat as per the approval of Engineer in charge, excavation,welding/jointing of ground conductors along with risers (a) up to Finished level from the mat size 75X10 mm GI Flat with back filling and good compaction,The spacing between the earth conductor not more than 5 mtrs (both way) and to be buried at depth of 700 mm from the finished ground level as per the practice and as per specification.	MTRS	4125		0.00		0.00	0.00
14.5.2	EARTHING CONDUCTOR: 50x6 mm GI Flat for Raiser from the burial earth mat to equipment,structure including proper welding, bending and anti corrosive painting etc from the finished ground level to the top of the structure and equipment shall be with 50X6 mm GI Flats, as per approved drawing and specification.	MTRS	3750		0.00		0.00	0.00
14.5.3	EARTHING DEVICE & ASSOCIATED ACCESSORIES (50 mm heavy duty GI PERFORATED PIPE 3 mtrs long for treated earth pit): perforated 50 mm Heavy duty GI pipes for treated earth pits (with details of treatment as per IS) including, excavation,supply of Bentonate powder and other materials for the treated earth pit as per standard practice and as per specification.	NOS	120		0.00		0.00	0.00
14.5.4	EARTHING DEVICE & ASSOCIATED ACCESSORIES 40mm MS rod 3 mtrs long for non treated earth pit)	NOS	85		0.00		0.00	0.00
14.6	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 TS.							
14.6.1	G.I Cable Trays(size: 450x75x2500mm)	MTRS	1500		0.00		0.00	0.00
14.6.2	G.I Cable Trays(size: 300x75x2500mm)	MTRS	2000		0.00		0.00	0.00
14.6.3	G.I Cable Trays(size: 150x75x2500mm)	MTRS	1200		0.00		0.00	0.00
14.6.4	Support G. I angle 50x50x6 mm for cable tray	MT	2.5		0.00		0.00	0.00
14.7	SUB STATION SWITCHYARD BMK, AC CONSOLE & OTHER MARSHALLING BOXES							
14.7.1	BAY MARSHALLING KIOSK	NOS	7		0.00		0.00	0.00
14.7.2	SWITCH YARD AC CONSOLE FOR LIGHTING	NOS	2		0.00		0.00	0.00
14.7.3	SWITCH YARD RECEPTACLE BOARD FOR TFR OIL FILTRATION	NOS	1		0.00		0.00	0.00
14.7.4	SWITCH YARD RECEPTACLE BOARD FOR WELDING & OTHER EMERGENCY	NOS	2		0.00		0.00	0.00
14.7.5	CT, PT & CVT Out Door Console Boxes ( 132 KV CT-4 Nos.+ 1 No., 33 KV CT-8 Nos., 132 KV CVT-1 No. + 1 No., 132 KV IVT-1 No., 33 KV IVT-1 No.	NOS	18		0.00		0.00	0.00
14.8	36 KV Bus Post Insulators	NOS	16		0.00		0.00	0.00
15	SWITCH YARD STRUCTURES COLUMN & BEAM (LATTICE TYPE) FOR 132/33 KV CLASS INCLUDING FOUNDATION BOLTS & NUTS.							
15.1	DIFFERENT TYPES OF COLUMNS WITH DETAILS							
15.1.1	T1S -132 KV(NOMINAL UNIT WT-1.2 MT) (16 nos.)							
15.1.2	T4S -132KV (NOMINAL UNIT WT-0.95 MT) (5nos.)							
15.1.3	T8S -33KV(NOMINAL UNIT WT-0.8 MT) (9 nos.)							
15.1.4	T9S -33KV(NOMINAL UNIT WT-0.6 MT) (11 nos.)							
15.2	DIFFERENT TYPE OF BEAMS WITH DETAILS							
15.2.1	G1 -132 KV(NOMINAL UNIT WT-0.62 MT) (11 nos.)							
15.2.2	G1X -132 KV (NOMINAL UNIT WT-1.4 MT) (6 nos.)							
15.2.3	G2 -132 KV(NOMINAL UNIT WT-0.91 MT) (4 nos.)							
15.2.4	G1.2 -132 KV(Each two beams of G1 type) (NOMINAL UNIT WT- 1.25 MT)							
15.2.5	G6 -33KV (NOMINAL UNIT WT-0.53 MT) (3 nos.)							
15.2.6	G4 -33KV(NOMINAL UNIT WT-0.4 MT) (9 nos.)							
15.2.7	G4X -33KV (NOMINAL UNIT WT-0.4 MT) (2 nos.)							
15.3	TOTAL WEIGHT OF COLUMN & BEAM	MT	61.2		0.00		0.00	0.00
15.4	SWITCH YARD EQUIPMENT STRUCTURES (LATTICE TYPE) FOR 132/33 KV CLASS INCLUDING FOUNDATION BOLTS & NUTS.							
15.4.1	ISOLATORS-132KV							
15.4.2	S.I. WITHOUT E/S (Unit weight - 658.767 Kg) = 8							
15.4.3	D.I. WITHOUT E/S (Unit Weight - 979.10 Kg) = 2 Nos.							
15.4.4	D.I. WITH E/S (Unit Weight - 1120.559 Kg) = 2 Nos.							
15.4.5	ISOLATORS-33 KV							
15.4.6	S.I. WITHOUT E/S (Unit weight - 294.893 Kg) = 8 Nos.							
15.4.7	D.I. WITHOUT E/S (Unit weight - 655.764 Kg) = 2 Nos.							
15.4.8	D.I. WITH E/S (Unit weight - 670.555 Kg) = 4 Nos.							
15.4.9	CTS-132 KV (Unit Weight - 214.546 Kg) = 15 Nos							
15.4.10	CTS-33 KV (Unit Weight - 148.80 Kg) = 24 Nos							
15.4.11	CVTS-132 KV (Unit Weight - 236.628 Kg) = 6 Nos.							

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				Unit Erection Rate IN INR	Total Erection Price IN INR	Unit Service tax IN INR	Total Service tax IN INR	TOTAL Erection charges(including service tax) IN INR
			QUANTITY: for Construction of 2x,20 MVA, 132/33 KV Sub-Station at HIRAKUD 132 KV BAY-05 NOS 02 FOR 132 KV BAY-05 BAY- 07 NOS04 FDR, 02 FTR,01 B.C					
1	2	3	4	5	6=4x5	7	8=4X7	9=6+8
15.4.12	IVTS-132 KV (Unit Weight - 231.195 Kg) = 3 Nos							
15.4.13	IVTS-33 KV (Unit Weight - 124.336 Kg) = 3 Nos							
15.4.14	Surge Arrester-132 kv (Unit Weight - 179.893 Kg) = 12 Nos							
15.4.15	Wave Trap-132 KV (Unit Weight - 247.254 Kg) = 4 Nos							
15.4.16	BPI-132 KV (Unit Weight - 309.883 Kg) = 16 Nos							
15.4.17	BPI-33 KV (Unit Weight - 148.80 Kg) = 16 Nos							
15.4.18	NCTS (Unit Weight - 138.24 Kg) = 4 Nos							
15.4.19	TOTAL WEIGHT OF EQUIPMENT STRUCTURE	MT	38.76		0.00		0.00	0.00
15.5	Total weight of GI Nuts and bolts for the above Column, Beam & structures	MT	8		0.00		0.00	0.00
16	GENERAL EQUIPMENT & SUBSTATION ACCESSORIES							
16.1	POWER CABLES,1.1KV,XLPE/PVC ARMoured, ALUMINIUM CONDUCTOR (As per Specification)							
16.1.1	XLPE 3.5 CX300 mm <sup>2</sup>	MTRS	500		0.00		0.00	0.00
16.1.2	XLPE 3.5 CX185 mm <sup>2</sup>	MTRS	300		0.00		0.00	0.00
16.1.3	XLPE 3.5 CX120 mm <sup>2</sup>	MTRS	200		0.00		0.00	0.00
16.1.4	PVC 3.5 CX70 mm <sup>2</sup>	MTRS	600		0.00		0.00	0.00
16.1.5	PVC 3.5 CX35 mm <sup>2</sup>	MTRS	1500		0.00		0.00	0.00
16.1.6	PVC 4 CX 16 mm <sup>2</sup>	MTRS	1000		0.00		0.00	0.00
16.1.7	PVC 4 CX 6 mm <sup>2</sup>	MTRS	3500		0.00		0.00	0.00
16.1.8	PVC 2CX 6 mm <sup>2</sup>	MTRS	2000		0.00		0.00	0.00
16.2	CONTROL CABLES,1.1 KV, PVC,STRANDED COPPER(As per specification)							
16.2.1	2 CX 2.5 mm <sup>2</sup>	MTRS	5000		0.00		0.00	0.00
16.2.2	4 CX 2.5 mm <sup>2</sup>	MTRS	10000		0.00		0.00	0.00
16.2.3	5 CX 2.5 mm <sup>2</sup>	MTRS	4000		0.00		0.00	0.00
16.2.4	7CX 2.5 mm <sup>2</sup>	MTRS	5000		0.00		0.00	0.00
16.2.5	10 CX 2.5 mm <sup>2</sup>	MTRS	10000		0.00		0.00	0.00
16.2.6	12 CX 2.5 mm <sup>2</sup>	MTRS	9000		0.00		0.00	0.00
16.2.7	16 CX 2.5 mm <sup>2</sup>	MTRS	5000		0.00		0.00	0.00
16.2.8	19 CX 2.5 mm <sup>2</sup>	MTRS	2000		0.00		0.00	0.00
16.2.9	1CX 120 mm <sup>2</sup> BAT TO BAT CHARGER & CHARGER TO DCDB	MTRS	600		0.00		0.00	0.00
17	ACCESSORIES FOR PLCC SYSTEM AS PER TECHNICAL SPECIFICATION							
17.1	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	4		0.00		0.00	0.00
17.2	LINE MATCHING UNIT HAVING BUILT-IN PROTECTIVE DEVICES LIKE DRAINAGE COIL, SURGE ARRESTOR AND EARTH SWITCH. TUNABLE BAND PASS COUPLING FILTER: 90-500KHZ. HF POWER RATING: 650 W & LINE MATCHING DISTRIBUTION UNIT	SET	2		0.00		0.00	0.00
17.3	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	1000		0.00		0.00	0.00
17.4	EPAX standard complied to ITU-T, G-711,G-712,Q507,Q-517 capacity 16lines/Trunks, specification transducers and interfacing cards for Analog input and Digital output (Optional)	NO	1		0.00		0.00	0.00
17.5	10 PAIR ARMoured TELEPHONE CABLES	MTRS	1000		0.00		0.00	0.00
17.6	4 PAIR NON ARMoured TELEPHONE CABLES	MTRS	500		0.00		0.00	0.00
17.7	2 WIRE TELEPHONE SET	NO	20		0.00		0.00	0.00
17.8	FAX MACHINE	NO	1		0.00		0.00	0.00
17.9	48 V, 300 AH, maintenance free VRLA Battery set.	SET	1		0.00		0.00	0.00
17.10	75A, 48V Float cum Boost Charger: (Float/Boost current as recommended by VRLA Battery vendor)	SET	1		0.00		0.00	0.00
17.11	48 V DCDB	SET	1		0.00		0.00	0.00
18	ERECTION OF STATION TRANSFORMER & OTHER MATERIALS FOR MEETING THE AUXILIARY SUPPLY OF THE SUB-STATION AS PER TECHNICAL SPECIFICATION							
18.1	STATION TRANSFORMER 33KV/433V,250 KVA (AS PER SPECIFICATION)	NOS	2		0.00		0.00	0.00

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				Unit Erection Rate IN INR	Total Erection Price IN INR	Unit Service tax IN INR	Total Service tax IN INR	TOTAL Erection chrges(including service tax) IN INR
1	2	3	4	5	6=4x5	7	8=4x7	9=6+8
18.2	33 KV AB SWITCH IN 33 KV SIDE(600AMP), HG FUSE, DP STRUCTURE(preferably by using 200X100 mm RS Joist), ANGLE FOR BRACING OF DP STRUCTURE,POWER CABLES, CHANEL, FOR ERECTION OF TRANSFORMER INCLUDING INSULATORS, CONDUCTOR, CLAMPS & CONNECTOR, JUMPERING AND	SETS	2		0.00		0.00	0.00
19	SUB STATION LIGHTING (AS PER SPECIFICATION AND APPROVED DRAWINGS ) (Switch yard and other street area)							
19.1	Erection of SUB-STATION SWITCH YARD LIGHTING as per instruction of Engineer in charge	SET	40		0.00		0.00	0.00
19.2	Erection of STREET LIGHTING (TO BE PROVIDED IN THE SWITCH YARD, ALONG THE ROADS (APPROACH INSIDE YARD AND OTHER ROADS) as per instruction of Engineer in Charge.	SET	20		0.00		0.00	0.00
19.3	ELECTRICAL SUPPLY TO STREET LIGHTING, COLONY QUARTERS:- (1) > Erection of 1 NO. OUTDOOR KIOSK FOR STREET LIGHTING PURPOSE HAVING 2 NOS 200 AMP SWITCH FUSE UNITS AND 6 NOS. OUT LETS OF 32 AMP MCB FOR STREET LIGHTING. (2) >Erection of 1 NO. OUTDOOR KIOSK FOR COLONY SUPPLY PURPOSE HAVING 2 NOS 200amp SWITCH FUSE UNIT. 6 NOS. OUTLETS OF 32 A MCB FOR COLONY QUARTERS	SET	2		0.00		0.00	0.00
20	Erection of 2 TR CAPACITY 5-STAR rated SPLIT AIR CONDITIONING UNITS WITH REMOTE CONTROL FACILITY. INCLUDING SUPPLY OF AIR CONDITIONERS,VOLTAGE STABILISER,CONTROL BOXES ETC FOR COMPLETING THE A.C. SCHEME.(AS PER SPECIFICATION ) FOR CONTROL ROOM, CARRIER ROOM & CONFERENCE ROOM.	SET	20		0.00		0.00	0.00
21	Erection of FIRE FIGHTING SYSTEM(Portable and wheel mounted sets for control room,equipment like transformer and other areas as per tech spec(refer TS-INST TO BIDDER BEFORE DESIGN-SL NO 16- ANNEXURE - I)							
21.1	FOAM TYPE-9 LTRS	NOS	4		0.00		0.00	0.00
21.2	DRY CHEMICAL POWDER(TROLLEY MOUNTED)- 22.5 KGS	NOS	4		0.00		0.00	0.00
21.3	DRY POWDER TYPE - 5 KGS	NOS	4		0.00		0.00	0.00
21.4	CO <sub>2</sub> - 4.5 KGS	NOS	10		0.00		0.00	0.00
21.5	CO <sub>2</sub> - 9 KGS	NOS	10		0.00		0.00	0.00
21.6	CO <sub>2</sub> (TROLLY MOUNTED)- 22.5 KGS	NOS	4		0.00		0.00	0.00
21.7	Water type-9 LTRS	NOS	4		0.00		0.00	0.00
21.8	Foam type - 50 LTR	NOS	2		0.00		0.00	0.00
21.9	FIRE BUCKET (6 NOS IN EACH STAND) WITH STAND	SET	5		0.00		0.00	0.00
22	PROTECTION,CONTROL METERING, EVENT LOGGERS, BUS BAR PROT PAN,COMM PAN, RELAY TOOL KITS AS PER TECH SPEC							
22.1	TIME SYNCH EQUIPMENT	NOS	1		0.00		0.00	0.00
22.2	132 KV SIDE (DUPLICATE TYPE PANEL)							
22.2.1	FEEDER CONTROL & RELAY PANEL	NOS	2		0.00		0.00	0.00
22.2.2	TRANSFORMER CONTROL & RELAY PANEL( FOR 132 KV SIDE OF 132/33 KV POWER TRANSFORMER)	NOS	2		0.00		0.00	0.00
22.2.3	BUSCOUPLER CONTROL & RELAY PANEL	NOS	1		0.00		0.00	0.00
22.2.4	COMMON PANEL (KP-1)	NOS	1		0.00		0.00	0.00
22.3	33 KV SIDE							
22.3.1	FEEDER CONTROL & RELAY PANEL	NOS	4		0.00		0.00	0.00
22.3.2	TRANSFORMER CONTROL & RELAY PANEL	NOS	2		0.00		0.00	0.00
22.3.3	BUSCOUPLER CONTROL & RELAY PANEL	NOS	1		0.00		0.00	0.00
23	AC & DC SYSTEM							
23.1	AC SYSTEM							
23.1.1	MAIN AC DB, (HAVING 800 A, 50KA, DRAWOUT TYPE ACB WITH 3 O/C, E/F, UV/ RELAYING FACILITY INDOOR TYPE AS PER SPECIFICATION. (MAIN DB-1, MAIN DB-2 WITH B/C)	SET	1		0.00		0.00	0.00
23.1.2	ACDB (HAVING 400A MCCB) AS PER SPECIFICATION (AC DB-1, AC DB-2 WITH B/C)	SET	1		0.00		0.00	0.00
23.1.3	MAIN LIGHTING DISTRIBUTION BOARD (HAVING 250A MCCB AS INCOMER)AS PER SPECIFICATION (WITH DB-1, DB-2 & B/C)	SET	1		0.00		0.00	0.00
23.1.4	INDOOR LIGHTING DISTRIBUTION BOARD AS PER SPECIFICATION. (WITH DB- 1,DB-2 & B/C)	SET	1		0.00		0.00	0.00
23.1.5	EMERGENCY LIGHTING DISTRIBUTION BOARD	SET	1		0.00		0.00	0.00

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				Unit Erection Rate IN INR	Total Erection Price IN INR	Unit Service tax IN INR	Total Service tax IN INR	TOTAL Erection charges(including service tax) IN INR
			QUANTITY: for Construction of 2x,20 MVA, 132/33 KV Sub-Station at HIRAKUD (132 KV BAY-05 NOS-02 FOR DISMANTLING OF 132 KV BAY- 07 NOS&4 FDR, 02 FTR,01 B.C)					
1	2	3	4	5	6=4x5	7	8=4X7	9=6+8
23.1.6	INDOOR RECEPTACLE BOARD	SET	1		0.00		0.00	0.00
23.2	DC SYSTEM							
23.2.1	220 V DC BOARD (HAVING 100A DC MCCB AS INCOMER, E/F (EARTH LEAKAGE), UNDER & OVER VOLTAGE AS PER SPECIFICATION (DC DB-1)	SET	1		0.00		0.00	0.00
23.2.2	220 V DC EMERGENCY DISTRIBUTION BOARD	SET	1		0.00		0.00	0.00
23.2.3	BATTERY (350 AH PLANTE TYPE) FOR 220 V DC	SET	1		0.00		0.00	0.00
23.2.4	BATTERY CHARGER FOR 220 V, 350 AH BATTERY (FLOAT AND FLOAT CUM BOOST)	SET	1		0.00		0.00	0.00
24	DISTLED WATER PLANT OF 10 LTR/HR FOR BATTERY BANKS	SET	1		0.00		0.00	0.00
25	WALKIE TALKIE SET	SET/ PAIR	2		0.00		0.00	0.00
26	PORTABLE ALUMINIUM LADDER EXTENDABLE TYPE OF ADEQUATE HEIGHT TO BE USED FOR MAINTENANCE OF EQUIPMENT INSIDE SWITCH YARD.	NOS	2		0.00		0.00	0.00
27	PEDESTAL MOUNTED WHEEL FITTED DERRICK FOR LIFTING/ LOWERING OF MATERIALS UP TO 1.5 TON CAPACITY.	SET	1		0.00		0.00	0.00
28	POWER WINCH NEAR STORE SHED FOR HANDLING MATERIALS UPTO 5 TON CAPACITY.	SET	1		0.00		0.00	0.00
29	WATER COOLER WITH WATER PURIFIER SYSTEM	NOS	1		0.00		0.00	0.00
30	MAINTENANCE TESTING EQUIPMENT (AS PER ANNEXURE - I, INDICATED IN TS- TIMK-SCHEDULE OF REQUIREMENTS OF MAINTENANCE EQUIPMENT)	SET	1		0.00		0.00	0.00
31	OFFICE FURNITURE (AS PER ANNEXURE - III, INDICATED IN TS-TIMK-SCHEDULE OF REQUIREMENTS OFFICE FURNITURE)>PLACING IN CONTROL ROOM,CONFERENCE ROOM, OFFICE ROOMS, LIBRARY, TESTING LAB, etc.	SET	1		0.00		0.00	0.00
32	BEST QUALITY & APPROVED MAKE RUBBER MAT TO BE KEPT INFRONT OF ALL PANELS,BOARDS ETC.	NOS	35		0.00		0.00	0.00
33	OTHER TOOLS AND PLANTS (T&P's) REQUIREMENT (AS PER ANNEXURE - II, INDICATED IN TS-TIMK-SCHEDULE OF REQUI-REMENTS OTHER T&P's)	SET	1		0.00		0.00	0.00
34	RECEIVING THE TRANSFORMERS AND ITS ACCESSORIES FROM NEAREST OPTCL STORES.DRAGGING AND INSTALLING ON THE PLINTH AND PLACING IN POSITION. ERECTION OF ACCESSORIES OF THE TRANSFORMERS, EART-HING AS PER STANDARD(INCLUDING SUPPLY OF MATERIALS,VACUUM TREATMENT OF THE TANK AND WINDING.OIL FILTRATION(INCLUDING SUPPLY OF VACUUM CUM OIL FILTER MACHINE),SUPPLY & LAYING OF ALL TYPES OF CONTROL & POWER CABLES PERTAINING TO TRANSFORMERS ,TESTING AND COMMISSIONING INCLUDING ALL TESTS OF THE OILS AS PER STIPULATION IN THE STANDARD APPROVED TESTING LABORATORY AND AS PER THE INSTRUCTION OF THE ENGINEER IN CHARGE.THIS INCLUDE ALL RELATED WORKS FOR ERECTION(transformer and its accessories,RTCC Panel etc),TESTING AND COMMISSIONING OF THE POWER TRANSFORMERS.(CONTRACTOR TO ARRANGE POWER SUPPLY FOR FILTRATION AND VACUUM TREATMENT WORKS),IT ALSO INCLUDES SUPPLY OF ALL MATERIALS FOR ERECTION INCLUDING T&P's. 1. 132/33 KV 20/40 MVA: 02 Nos	Nos	2		0.00		0.00	0.00
35	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		0.00		0.00	0.00
	TOTAL of ELECTRICAL WORKS Part-I (A)				0.00		0.00	0.00
1	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.							
1.1	Switch yard gantry/portal structure foundations							
1.1.1	TTS - 132 KV(NOMINAL UNIT WT- 1.2 MT)	NOS	16					
1.1.2	T4S - 132KV (NOMINAL UNIT WT-0.96 MT)	NOS	5					
1.1.3	T8S - 33KV(NOMINAL UNIT WT-0.9 MT)	NOS	9					
1.1.4	T9S - 33KV(NOMINAL UNIT WT- 0.6 MT)	NOS	11					

Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2C-SS) ERECTION,TESTING & COMMISSIONING OF FOLLOWING EQUIPMENTS ALONG WITH CIVIL WORKS (As per Technical Specification)	UNIT	NAME OF THE BIDDER					
				Unit Erection Rate IN INR	Total Erection Price IN INR	Unit Service tax IN INR	Total Service tax IN INR	TOTAL Erection charges(including service tax) IN INR
			QUANTITY: for Construction of 2x,20 MVA, 132/33 KV Sub-Station at HIRAKUD 132 KV BAY-05 NOS-02 FOUNDATION (132 KV BAY- 05 NOS-04 FDR, 02 TFR,01 B.C)					
1	2	3	4	5	6=4x5	7	8=4X7	9=6+8
1.2	Equipment foundations :							
1.2.1	145 KV, 800-400-200 A, 31.5 KA, 4CORE SINGLE PHASE CURRENT TRANSFORMER	NOS	15					
1.3	145 KV,1200A, 31.5KA, ISOLATORS							
1.3.1	SI/ WITH OUT EARTH SWITCH	NOS	7					
1.3.2	DI/ WITH SINGLE EARTH SWITCH	NOS	2					
1.3.3	DI/ WITHOUT EARTH SWITCH	NOS	2					
1.4	145 KV, 6600pF, 3CORE, SINGLE PHASE CAPACITOR VOLTAGE TRANSFORMER	NOS	6					
1.5	120 KV METAL OXIDE SURGE ARRESTOR, 10 KA, Class III	NOS	12					
1.6	145 KV ,2 CORE,SINGLE PHASE,IVT	NOS	3					
1.7	132 KV Bus Post Insulators	NOS	16					
1.8	145KV, 3150A, 40KA, SF6, CIRCUIT BREAKER WITH SUPPORTING STRUCTURE	NOS	5					
1.9	36 KV, 800-400-200, 25KA, 3CORE SINGLE PHASE CURRENT TRANSFORMER	NOS	15					
1.9	36 KV, 800-400-200, 25KA, 4 CORE SINGLE PHASE CURRENT TRANSFORMER (3 NOS PS CLASS & 1 NO. 0.2s CLASS)	NOS	6					
1.10	36 KV CLASS NCT FOR POWER TRANSFORMER REF PROTECTION (RATIO 800-400-200 A) & HAVING TWO CORE (PS CLASS) (IN EACH POWER TRANSFORMER 132 KV SIDE: 1 NO, & 33 KV SIDE:1 NO)	NOS	4					
1.11	36 KV,800A,25KA,ISOLATORS							
1.11.1	SI/ WITH OUT EARTH SWITCH	NOS	9					
1.11.2	DI/ WITH SINGLE EARTH SWITCH	NOS	4					
1.11.3	DI/ WITHOUT EARTH SWITCH	NOS	2					
1.12	SI/ WITH BEAM MOUNTED	NOS	2					
1.13	36 KV ,2 CORE,SINGLE PHASE,IVT	NOS	3					
1.14	36KV,1250A,25KA,VACUUM CIRCUIT BREAKER WITH SUPPORTING STRUCTURE	NOS	7					
1.15	33 KV Bus Post Insulators	NOS	16					
1.16	SUB STATION SWITCHYARD BMK, AC CONSOLE & OTHER MARSHALLING BOXES							
1.16.1	BAY MARSHALLING KIOSK,(03 Nos 132 kv bay & 03 Nos 33 KV bay)	NOS	7					
1.16.2	SWITCH YARD AC CONSOLE FOR LIGHTING	NOS	2					
1.16.3	SWITCH YARD RECEPTACLE BOARD FOR TFR OIL FILTRATION	NOS	1					
1.16.4	SWITCH YARD RECEPTACLE BOARD FOR WELDING & OTHER EMERGENCY	NOS	2					
1.16.5	CT, PT & CVT Out Door Console Boxes ( 132 KV CT-4 Nos.+ 1 No., 33 KV CT-8 Nos., 132 KV CVT-1 No. + 1 No., 132 KV IVT-1 No., 33 KV IVT-1 No.	NOS	18					
1.17	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.							
1.17.1	Normal Soil(SOFT/LOOSE)	Cum	3100		0.00		0.00	0.00
1.17.2	Hard Soil	Cum	2600		0.00		0.00	0.00
1.17.3	Soft Rock	Cum	300		0.00		0.00	0.00
1.17.4	Hard Rock(Requiring Blasting/Using breaker machinery)	Cum	500		0.00		0.00	0.00
1.17.5	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 for the above column/equipment/marshalling box foundations ( SI No. 1.1 & 1.2) 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	250		0.00		0.00	0.00
1.17.6	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 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	1500		0.00		0.00	0.00
1.17.7	Supply, cutting,bending, binding (including supply of binding wire) placing in position of steel rods for foundation concreting including cost of binding wire for the foundation of above tower & equipment.	MT	20		0.00		0.00	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 cable trench 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 supply of Labour all materials like MS Rod,Cement, coarse and fine aggregates,shuttering,cutting,bending,binding of MS 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) Fly ash Brickwork with fly ash Fly ash Brick plastering (1:6 Ratio) & curing, wherever required including the supply of labour,material, cement, etc. (5)Supply,fabrication & Fixing of MS Angle(GLI) for cable tray support (as per specification). The cable tray support frame shall be per 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 concrete.							
2.1	Section 1-1	Mtrs	300		0.00		0.00	0.00

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				Unit Erection Rate IN INR	Total Erection Price IN INR	Unit Service tax IN INR	Total Service tax IN INR	TOTAL Erection chrges(including service tax) IN INR
			QUANTITY: for Construction of 2x,20 MVA, 132/33 KV Sub-Station at HIRAKUD (132 KV BAY-4) NOS-02 FOR DISCHARGE OF 132 KV BAY- 07 NOS/04 FDR, 02 FTR,01 B.C					
1	2	3	4	5	6=4x5	7	8=4x7	9=6+8
2.2	Section 2-2	Mtrs	200		0.00		0.00	0.00
2.3	Section 3-3	Mtrs	300		0.00		0.00	0.00
2.4	Section 4-4	Mtrs	500		0.00		0.00	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.	Nos	2		0.00		0.00	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	Nos	1		0.00		0.00	0.00
4.2	Section 2-2	Nos	1		0.00		0.00	0.00
4.3	Section 3-3	Nos	2		0.00		0.00	0.00
5	Boundary wall : Soil investigation,Design, engineering,procurement of material/labour including all associated works for construction of boundary-wall along the property line of the sub-station as per technical specification and instruction of the Engineer in Charge,(the size of the bricks shall be 250mm having 1st class kiln burn having compressive strength with 75kg/cm2). This also includes excavation in all types of soil or rocks,backfilling,and disposal of excess earth,Piling etc as per the direction of Engineer in charge. ("APPROXIMATE LENGTH OF THE BOUNDARY WALL IN MTRS) and as per approved drawing.	RM	900		0.00		0.00	0.00
6	Contour Survey & Leveling 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.							
6.1	Contour survey of the entire sub-station area including Supply of all labour & T&P by contractor.	SQM	25000		0.00		0.00	0.00
6.2	Soil investigation : Supply of labour,T&P and other necessary arrangements for Soil investigation/testing of the Switchyard,control Room, Quarters area etc.as per the site requirement,Technical specification & instruction of Engineer-in-Charge.	PER POINT	3		0.00		0.00	0.00
6.3	Cutting of sub-station area of the as per the direction of Engineer in Charge including supply of all labour, T&P (Soft & Compact Soil) .	Cum	2000		0.00		0.00	0.00
6.4	Filling with borrowed earth beyond 30 mtrs lead & upto 100 mtrs as per the direction of Engineer in Charge.	Cum	5000		0.00		0.00	0.00
6.5	Filling with borrowed earth beyond 100 mtrs lead as per the direction of Engineer in Charge.	Cum	5000		0.00		0.00	0.00
7	Switch yard buildings: Design, engineering and construction of switch yard buildings including the piling where required, the cost of material, supply of labour, cement, reinforcement- steel, form work and excavation as per the approved drawing and technical specification ( The RCC structure frame should be in the 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. As per approved drawings and specification.CONTROL ROOM BUILDING:(one building): A) Area of the Ground floor with portico at front side, stair case to first floor and top of the building. The details of rooms to be provided are as per the Tech spec. B) Area of the first floor. The details of rooms to be provided are as per the Tech spec. Size of Ground floor. Nos./ area of ground floor/area of first floor . 01 No/ Area of Ground Floor :38 mtrsX11mtrs(418 sq mtrs) / Area of first floor 19mtrsX11mtrs(209 sq mtrs) & Portico & Ramp	SQ.MTR	700		0.00		0.00	0.00
7.1	RCC volume including MS rods(including column ,Beams and roofs etc) as per technical spec & approved drawings.	Lot	1		0.00		0.00	0.00
7.2	Brick masonry work in cement sand mortar 1: 6 with bricks of class designation 75 as per technical spec & approved drawings.	Lot	1		0.00		0.00	0.00
7.3	Flooring with vitrified tiles with dado in all the rooms,Bath and toilets shall be provided with anti skid ceramic tiles(wall of the same also to be provided with ceramic tiles).Acid proof industrial tiles to be provided on the floor and wall of the battery room as per technical spec & approved drawings.	Lot	1		0.00		0.00	0.00
7.4	External and internal wall and ceiling paintings as per technical spec mentioned in the civil section. The left over portion of walls and ceiling of Battery room shall be acid proof paints as per specification & approved drawings.	Lot	1		0.00		0.00	0.00
7.5	Provision of ceiling in the control room area as per specification mentioned in the civil section & approved drawings.	Lot	1		0.00		0.00	0.00
7.6	Doors and windows shall be of sliding type with locking facility and shall be of aluminium with glaze of 6mm & windows shall have aluminium grills. As per technical spec & approved drawing.	Lot	1		0.00		0.00	0.00

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				Unit Erection Rate IN INR	Total Erection Price IN INR	Unit Service tax IN INR	Total Service tax IN INR	TOTAL Erection charges(including service tax) IN INR
1	2	3	4	5	6=4x5	7	8=4x7	9=6+8
7.7	Provision of PHD and other fittings of reputed make,provision of rain water discharge pipes at different locations and etc as per requirement and approved drawing. There shall be septic tank and soak pit of required capacity including complete sewage system as per approved drawing & technical specification & as per instruction of Engg- in-Charge. It includes supply of all types of materials of reputed make, labour etc to complete the work.	Lot	1		0.00		0.00	0.00
7.8	Internal concealed wiring,fixing of lighting fixtures ,fans and regulators ,exhaust fan,D.C emergency lighting as per spec & approved drawing.	Lot	1		0.00		0.00	0.00
7.9	Provision of smoke and fire detection system of the building.	Lot	1		0.00		0.00	0.00
8	<b>Roads:</b> Design, construction of roads and walkways/ shoulders within sub-station( <b>Switch yard area,approach road, control room area, main gate to the switch yard gate etc</b> ) 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)							
8.1	3.75 mtrs Concrete 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	600		0.00		0.00	0.00
8.2	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	150		0.00		0.00	0.00
8.3	7 mtrs wide Bituminous 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	150		0.00		0.00	0.00
9	<b>Drainage system:Collection of rainfall data,</b> Design, construction of storm water drainage scheme, road-culverts, and drains crossing cable trenches etc. as per specification and approved drawing.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.All the switchyard bays , roads water drainage shall be connected to the mainsurface drain.As per approved drawing and specification.							
9.1	Storm water drain	LOT	1		0.00		0.00	0.00
9.2	Road-culverts, drain crossings	LOT	1		0.00		0.00	0.00
9.3	Cable trench crossing	LOT	1		0.00		0.00	0.00
10	Foundations for transformers ,Design, engineering, supply of labour, material, equipments and construction of Auto-transformer/Transformer foundation including piling if any, all associated works, rail tracks, jacking pads,anchor block RCC and PCC, miscellaneous structural steel including oil collection pits, MS grating(if required), gravel filling, and other items etc. not mentioned herein, but specifically required for the completion of the work as per technical specification and approved drawing. (Rate shall be inclusive of cement, reinforcement steel, angles,flats and form work etc.)all cement concrete shall have RCC ratio 1:1.5:3). Transformer RCC foundation and Rail Track should be extended upto the approaching road (However,the height of RCC foundation beyond transformer main plinth area should be same as height of concrete road as per item under 7 mtrs concrete road). 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. 1. 132/33 KV 20/40 MVA Transformer (2 Nos)							
10.1	12.5/ 20 /40 MVA, 132/ 33KV transformers a) Overall dimension of transformer(approx) Length:7200 mmX Width 6000 mmX Height 6200 mm b) Total weight with oil and tank: 97.5 MT (approx)	Nos	2		0.00		0.00	0.00
10.2	<b>OIL SUMP PIT:</b> Oil collection (from transformers)ump pit with provision of pump(5 HP, with auto level control , including cabling, fixing of control gear jas per CIGRE. As per spec and approved drawing. >Oil capacity of each Transformer in ltrs approx. a) 20/40 MVA,132/33 KV: 26500 ltrs.	Nos	1		0.00		0.00	0.00
11	<b>PCC before site surfacing :</b> 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	500		0.00		0.00	0.00
12	<b>Metal Spreading:</b> Providing supplying and laying two layers of machine crushed metals (gravel) till, 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	600		0.00		0.00	0.00
13	<b>PROVISION OF PLANTATIONS</b> Provision of plantation of 100 nos fruit bearing plants and 100 nos decorative plants at different locations, a garden in front of the control room including supply of plants,soil treatment and its plantation including materials,labour and T&P.As per the instruction of Engineer in Charge and specification.	LOT	1		0.00		0.00	0.00

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				Unit Erection Rate IN INR	Total Erection Price IN INR	Unit Service tax IN INR	Total Service tax IN INR	TOTAL Erection chrges(including service tax) IN INR
1	2	3	4	5	6=4x5	7	8=4X7	9=6+8
14	STONE PITCHING & TOE WALL:Stone pitching including making of toe walls both at top and bottom, including surface drain both at top and bottom and partition wall in every 10 mtrs by using boulders and RR masonry walls respectively. This also includes excavation in all types of soil or rocks,back filling, and disposal of excess earth and supply of materials and labour as per the direction of Engineer In charge and as per approved drawing and specification.							
14.1	Excavation in soft & Loose Soil	CUM	800		0.00		0.00	0.00
14.2	P.C.C.(1:3:6) Lean concrete Grade M-10	CUM	90		0.00		0.00	0.00
14.3	RR Mosonary (1:5)	CUM	500		0.00		0.00	0.00
14.4	P.C.C.(1:2:4) Lean concrete Grade M-15	CUM	8		0.00		0.00	0.00
15	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	280		0.00		0.00	0.00
16	Fire wall: Design, engineering, procurement of labour, material including all associated works for construction of fire-walls as per technical specification and approved drawings(column shall be RCC ratio1:1.5:3 and the walls are of fire resistant bricks).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. As per approved drawing and specification. Painting of the walls as per direction of the Site In charge	NO.	1		0.00		0.00	0.00
14	Any other civil work to be included in the schedule by the Bidder if required essential for successful completion of project, including supply of labour, material, cement reinforcement steel, form work etc. Bidder shall also quote the unit rate for the following items of works.(Rate shall be inclusive of supply of labour, material, cement, reinforcement steel, form work etc.)							
14.1	Excavation 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.	Cu.m.	1		0.00		0.00	0.00
14.2	PCC: M10(1: 3 : 6)	Cu.m.	1		0.00		0.00	0.00
14.3	RCC M 15(1:2:4)	Cu.m.	1		0.00		0.00	0.00
14.4	RCC: M 20(1:1.5:3)	Cu.m.	1		0.00		0.00	0.00
14.5	Brick masonry work in cement sand mortar 1: 6 with bricks of class designation 75.	Cu.m.	1		0.00		0.00	0.00
14.6	12 mm thick plaster in cement sand mortar (1: 6 )	Sq.m.	1		0.00		0.00	0.00
14.7	Cutting,bending,binding(supply of binding wires) and fixing of reinforcement(including supply of reinforcement).	M.T.	1		0.00		0.00	0.00
15	Construction of township/colony (residential quarters) for staff and employees of the employer. Layout, design, survey, leveling, site dressing and clearing of the area, soil investigation, excavation, PCC, RCC, brick work, plastering ,flooring/flooring shall be with vitrified tiles of reputed make with a dado of minimum6 inches),fixing of doors windows and window grills, including all labour material like cement ,sand aggregate, bricks, reinforcements etc with all bought items required for completion of the quarters as per approved construction drawings with all facilities for supply of drinking water. The outer paint shall be applied with weather coat synthetic enamel paint as per the standard practice of application and the inner paint shall be applied with distemper of approved quality as per the instruction and approval of the same by OPTCL. 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. Internal electrical wiring with fixing of light fixtures and fans with electronic regulators and exhaust fans as per technical specification and approved drawing. Construction of over head RCC tank(1000 ltrs capacity one for each quarters), sewerage disposal and							
15.1	D' type quarter as per technical specification ( 2 Nos. of Quarter, each of size 120 Sq. Mtr (D1 & D2) ( one no. two storied flat> Each Flat shall be with one no. quarters on ground floor							
15.1.1	"D" type Quarter As per technical specification(02 Nos Quarter, each of size 120 Sq Mtrs)(D1 & D2)(one no. two storied flat. Each flat shall be with 1 no. quarter on ground floor & 1 No quarter on 1st floor).							
15.1.2	"D" type Quarter As per technical specification: 1 no. quarter on ground floor & the size of quarter plinth area shall be 120 Sq Mtrs(approx)	SQ MTRS	120		0.00		0.00	0.00
15.1.3	"D" type Quarter As per technical specification: 1 no. quarter on first floor & the size of quarter plinth area shall be 120 Sq Mtrs(approx)	SQ MTRS	120		0.00		0.00	0.00
15.2.1	"E" type Quarter As per technical specification (one no. two storied flat. Each flat shall be with 2 nos quarters on ground floor & 2 Nos quarters on 1st floor).(There shall be 4 Nos quarters to be accommodated in one flat as E1,E2,E3 & E4)							
15.2.2	"E" type Quarter As per technical specification: 2 nos. quarters on ground floor & the quarters to be accommodated in ground floor E1 & E2 (Each quarter size plinth area shall be 73 Sq Mtrs(approx)	SQ MTRS	146		0.00		0.00	0.00
15.2.3	"E" type Quarter As per technical specification: 2 nos. quarters on first floor & the quarters to be accommodated in ground floor E3 & E4(Each quarter size shall be 73 Sq Mtrs(approx)	SQ MTRS	146		0.00		0.00	0.00



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				Unit Erection Rate IN INR	Total Erection Price IN INR	Unit Service tax IN INR	Total Service tax IN INR	TOTAL Erection charges(including service tax) IN INR
1	2	3	4	5	6=4x5	7	8=4X7	9=6+8
16	<b>MAIN &amp; SWITCH YARD GATES</b> Design, engineering, procurement of labour, material including all associated works for construction and fixing of of a main gate and one no. switch yard gates with men gates 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 direction of Engineer In charge. Provision of gate lights (Post top lantern type) on each pillar of the gate. It includes supply & fixing of light fixtures including LED Gate lamp, LV XLPE cables, switchgear etc required to complete works as per specification and approved drawings.	Lot	1		0.00		0.00	0.00
17	<b>COLOUR CODING, BAY MARKING</b> 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 gentry &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		0.00	0.00
18	<b>STATION TRANSFORMER FOUNDATION</b> Design, engineering, procurement of labour, material including all associated works for construction of foundation and DP structure foundation for station transformers 33/0.415 KV,250 KVA STN TRANSFORMER including excavation & RCC (1:1.5:3) foundation as per approved drawing and specification.	NOS	2		0.00		0.00	0.00
19	<b>SECURITY SHED &amp; CUM VISITOR ROOM AND VEHICLE PARKING SHED:</b> Design, engineering, procurement of labour, material including all associated works for construction of Security shed near main gate,watch tower shed at the corners of switch yard as per the approved drawing and instruction of Engineer 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. Internal electrification including supply of lighting fixtures,fan with regulators and provision of incoming AC supply from the main ACDB/outdoor kiosks installed for street light or colony quarters. Also includes painting of the building (in side and out side) as per recommended for colony building in the specification.							
19.1	<b>SECURITY SHED</b> The size of the security shed shall be 3.5 mtrsX5mtrs and height of 3.5mtrs RCC roof,brick masonry works,plastering and painting and fixing of MS doors and windows.	Nos	1		0.00		0.00	0.00
19.2	<b>VEHICLE PARKING SHED:</b> The size of the parking area shall be 15mtrs X 15 mtrs, out of the entire area there shall be provision of shed for 5 mtrs X 15 mtrs and rest of the area shall be without shed. Roof of the parking place shall be RCC & Parking shed shall be as per TS-EG-Civil & as per the direction of Engineer in Charge.	Nos	1		0.00		0.00	0.00
20	<b>BORE WELL &amp; PUMP HOUSE</b> Design, engineering, procurement of labour, material including all associated works for construction of two nos. bore wells for control room building including switch yard and colony quarters as per specification and approved drawing and instruction of Engineer in charge. This includes supply and fixing and commissioning of two nos 5 HP submersible water pump with starter and other protection. Construction of two nos pump house at ideal location for fixing of the electrical starter units. The pump house be of RCC roof and having walls of Brick masonry and plastering and painting with MS door having locking arrangement. The size of the room shall be 2.5mtrsX2.5 mtrs having height of 3 mtrs. as per approved drawing and specification. There shall be approach road to the pump house. This includes supply of materials/labours and T&P & excavation of all type of soils including rock and disposal of excess materials as per instruction of Engineer In charge Supply & laying of LV XLPE 3.5CX35 sqmm cable from ACDB to pump house, control gear & earthing of the system etc to complete the scheme as per approved drawing & instruction of Engineer-in-charge.	NOS	2		0.00		0.00	0.00
21	<b>STORE SHED</b> 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 15 mtrX7.5 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.	Lot	1		0.00		0.00	0.00
22	<b>PLATFORM FOR STORING EQUIUMENTS</b> :Design, engineering, procurement of labour, material including all associated works for construction of a platform for storing of bushings,Instrument transformers etc, 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 platform outside the store shed RR masonry (compacted) with PCC at the top for storing the transformer bushings, Instrument transformers, transformer oil drums etc. The floor size of the platform shall be 15mtrX10 mtr with Galvanised Corrugated Sheet (Tata Make) top cover and associated MS supporting structure duly painted.	Lot	1		0.00		0.00	0.00
23	<b>PROVISION OF RAMP</b> Design, engineering, procurement of labour, material including all associated works for construction and fixing of Ramp 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 direction of Engineer In charge. Provision of a ramp of adequate size and capable of for loading and unloading of the materials of 5 Ton capacity from the lorry or to the lorry near the store shed. Adequate size of MS frames and RCC (1:1.5:3) based ramps to be used for the said purpose.	Lot	1		0.00		0.00	0.00
24	<b>Anti-Weed Treatment</b>							
24.1	Supply of labour,T&P,Chemicals and other necessary arrangements for anti-weed treat of the switch-yard areas,controlroom etc. as per the instruction of Engineer-in-Charge.	Sq.Mtrs	7000		0.00		0.00	0.00
	<b>TOTAL OF SUBSTATION (Civil Work) (PART-B)</b>				<b>0.00</b>		<b>0.00</b>	<b>0.00</b>

Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2C-SS) ERECTION,TESTING & COMMISSIONING OF FOLLOWING EQUIPMENTS ALONG WITH CIVIL WORKS (As per Technical Specification)	UNIT	NAME OF THE BIDDER					
			QUANTITY: for Construction of 2x,20 MVA, 132/33 KV Sub-Station at HIRAKUD (132 KV BAY-4) NOS./02 FDNOS. (02 NOS.) (02 NOS.) BAY- 07 NOS/04 FDR, 02 FTR, 01 B.C)	Unit Erection Rate IN INR	Total Erection Price IN INR	Unit Service tax IN INR	Total Service tax IN INR	TOTAL Erection chrges(including service tax) IN INR
1	2	3	4	5	6=4x5	7	8=4x7	9=6+8
	<b>TOTAL OF ERECTION SUBSTATION (Electrical Work) &amp; (Civil Work) -2C (ERECTION)</b>				<b>0.00</b>		<b>0.00</b>	<b>0.00</b>

PACKAGE 25-04				ODISHA POWER TRANSMISSION CORPORATION LIMITED				
				NAME OF THE WORK:- Construction of 2X20 MVA-132/33 KV Sub-station at HIRAKUD & associated 132 KV LILO line on existing Burla-Sambalpur (Line length-0.5 Kms).				
				NOTICE INVITING TENDER-NIT NO. 25/2013-14 & BID DOCUMENT No.:Sr. G.M- CPC- TENDER- HIRAKUD- PACKAGE- 25-04 / 2013				
				SCHEDULE-2C-ERECTION & CIVILWORKS (FOR TRANSMISSION LINE) (Equipment/Materials Price Break-up of Ex-works Prices against Package-25-04-HIRAKUD)				
Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2C-LINE) ERECTION,TESTING & COMMISSIONING OF FOLLOWING EQUIPMENT/MATERIALS ALONG WITH CIVIL WORKS (As per Technical Specification)	UNIT	NAME OF THE BIDDER	Unit Erection Rate IN INR	Total Erection Price IN INR	Unit Service tax IN INR	Total Service tax IN INR	TOTAL Erection charges(including service tax) IN INR
1	2	3	4	5	6=4x5	7	8=4X7	9=6+8
<b>PART-A ELECTRICAL WORKS</b>								
1.0	ERECTION,TESTING & COMMISSIONING of Following tested Lattice type Galvanized steel tangent / Angle tower without stubs and cleats including 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 coping legs & bracing members. All Erection should confirm to the Technical Specification laid there in the Tender Specification.							
1.1	PC TYPE (60 deg ANGLE ) TOWERS (Nominal unit weight 6.214 MT)( 3 NOS)	MT	18.642					
1.2	TEMPLATES							
1.2.1	PC (Nominal unit weight 0.904 MT) ( 1 NOS)	Nos.	0.904					
1.3	WEIGHT OF THE STRUCTURES (including Tower stubs, Templates & Foundation Nut and Bolts)	MT	19.546		0.00		0.00	0.00
1.4	Weight of different type G.I Nuts and Bolts	MT	1.02		0.00		0.00	0.00
1.6	Hoisting and fixing of insulators with required accessories, paying out of conductor ,jointing, stringing, sagging & Jumpering etc. of power conductor with G.I. Earth wire in the proposed lines and without earth wire with all required accessories including scaffolding for 33 KV,11 KV, LT , P&T lines, roads and using own required T&P and compression jointing machines etc. with 1.5% provision for Sag & Wastage and as per the direction of Engineer in charge.							
1.6.1	DOUBLE CIRCUIT(ACSR, SIX POWER CONDUCTOR )	RKM	3.10		0.00		0.00	0.00
1.6.2	POWER CONDUCTOR ACESSORIES							
1.6.2.1	VIBRATION DAMPER	Nos.	36					
1.6.2.2	MID SPAN JOINT	Nos.	5		0.00		0.00	0.00
1.6.2.3	Repair Sleeve	Nos.	3		0.00		0.00	0.00
1.6.2.4	Perfomed Armoured Rod	Set	0		0.00		0.00	0.00
1.7	Erection of the GI earth wire of size 7/3.15 mm as per the technical specification, with provision for Sag & Wastage and as per the direction of Engineer in charge.	Route(Km)	0.6		0.00		0.00	0.00
<b>EARTH CONDUCTOR ACESSORIES</b>								
1.7.1	VIBRATION DAMPER	Nos.	8		0.00		0.00	0.00
1.7.2	FLEXIBLE EARTH BOND	Nos.	10		0.00		0.00	0.00
1.7.3	SUSPENSION CLAMP	Nos.	0		0.00		0.00	0.00
1.7.4	TENSION CLAMP	Nos.	10		0.00		0.00	0.00
1.7.5	MID SPAN JOINT	Nos.	5		0.00		0.00	0.00
1.7.6	Repair Sleeve	Nos.	5		0.00		0.00	0.00
1.8	Erection of the following Anti fog type disc insulators as per the technical specification and as per the instruction of the Engineer in charge.							
1.8.1	90 KN Insulator	Nos.	0		0.00		0.00	0.00
1.8.2	120KN Insulator	Nos.	504		0.00		0.00	0.00
1.9	Erection of the following hard ware fittings suitable for ACSR Panther conductors as per the technical specification.							
<b>For ACSR PANTHER</b>								
1.9.1	Single suspension Hard wares fittings.(AGS type) suitable for 90 KN insulator.	Nos.	0		0.00		0.00	0.00
1.9.2	Double suspension Hard wares fittings.(AGS type) suitable for 90 KN insulator.	Nos.	0		0.00		0.00	0.00

Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2C-LINE) ERECTION,TESTING & COMMISSIONING OF FOLLOWING EQUIPMENT/MATERIALS ALONG WITH CIVIL WORKS (As per Technical Specification)	UNIT	NAME OF THE BIDDER					
				Unit Erection Rate IN INR	Total Erection Price IN INR	Unit Service tax IN INR	Total Service tax IN INR	TOTAL Erection charges(including service tax) IN INR
			QUANTITY: for Construction of LIL O line from existing 132 KV Barbe- Sambalpur S.C line to proposed 132.33 KV Grid Sub-Station HIRAKUD (APPROX LENGTH 0.3 kms.)					
1	2	3	4	5	6=4x5	7	8=4x7	9=6+8
1.9.3	Single tension Hard wares fittings suitable for 120 KN insulator.	Nos.	48	0.00	0.00	0.00	0.00	0.00
1.9.4	Double tension Hard wares fittings suitable for 120 KN insulator.	Nos.	0	0.00	0.00	0.00	0.00	0.00
1.9.5	10+Shackle	Nos.	0	0.00	0.00	0.00	0.00	0.00
1.9.6	Hanger	Nos.	0	0.00	0.00	0.00	0.00	0.00
1.9.7	U-Bolt.	Nos	12	0.00	0.00	0.00	0.00	0.00
1.10	Erection of the following tower accessories as per technical specification and as directed by the engineer-in charge.							
1.10.1	EARTHING DEVICE	Nos.	3	0.00	0.00	0.00	0.00	0.00
1.10.2	DANGER BOARD	Nos.	3	0.00	0.00	0.00	0.00	0.00
1.10.3	NUMBER PLATE	Nos.	3	0.00	0.00	0.00	0.00	0.00
1.10.4	PHASE PLATE	Nos.	18	0.00	0.00	0.00	0.00	0.00
1.10.5	BIRD GUARD	Nos.	0	0.00	0.00	0.00	0.00	0.00
1.10.6	ANTICLIMBING DEVICE	Nos.	3	0.00	0.00	0.00	0.00	0.00
1.10.7	CIRCUIT PLATE	Nos.	6	0.00	0.00	0.00	0.00	0.00
	TOTAL of ELECTRICAL WORKS Part-I (A)			0.00		0.00	0.00	
PART B	CIVIL WORKS							
1	SURVEY OF LINE & PREPARATION LAND SCHEDULE: Supply of required T&Ps, Technical personnels, labours for conducting							
1.1	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.	KM.	0.500	0.00	0.00	0.00	0.00	0.00
1.2	Check survey including supply of all labour, T&P as per instruction of Engineer in Charge and as per the approved profile.	KM.	0.500	0.00	0.00	0.00	0.00	0.00
1.3	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.	KM.	0.500	0.00	0.00	0.00	0.00	0.00
1.4	Soil Testing in complete shape along with submission of report etc. up to the depth of 15 Mtrs.	Per Loc.	15	0.00	0.00	0.00	0.00	0.00
1.5	Soil Testing in complete shape along with submission of report etc. upto the depth of 45 mtrs for River bed pile.	Per Loc.	0	0.00	0.00	0.00	0.00	0.00
2	EXCAVATION WORKS FOR OPEN CAST/SALLOW TYPE FOUNDATIONS							
2.1	Excavation for following type of 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/morrum/sand shall be brought for filling and compaction, including supply of sand, all T&P, labour as required.							
2.1.1	Soft/Loose soil	CUM	0	0.00	0.00	0.00	0.00	0.00
2.1.2	Dense/Compact soil	CUM	0	0.00	0.00	0.00	0.00	0.00
2.1.3	Wet soil	CUM	0	0.00	0.00	0.00	0.00	0.00
2.1.4	Partial Submerged soil	CUM	0	0.00	0.00	0.00	0.00	0.00
2.1.5	Fully submerged soil	CUM	500	0.00	0.00	0.00	0.00	0.00
2.1.6	Soft/Disintegrated rock(Not requiring Blasting)	CUM	0	0.00	0.00	0.00	0.00	0.00
2.1.7	Hard Rock(Requiring Blasting/Using breaker machinery)	CUM	0	0.00	0.00	0.00	0.00	0.00
3.0	Fixing of of Templates & setting of stubs							
3.1	PA Type	MT	0	0.00	0.00	0.00	0.00	0.00
3.2	PB Type	MT	0	0.00	0.00	0.00	0.00	0.00
3.3	PC Type	MT	2.712	0.00	0.00	0.00	0.00	0.00
4.0	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							

Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2C-LINE) ERECTION,TESTING & COMMISSIONING OF FOLLOWING EQUIPMENT/MATERIALS ALONG WITH CIVIL WORKS (As per Technical Specification)	UNIT	NAME OF THE BIDDER					
				Unit Erection Rate IN INR	Total Erection Price IN INR	Unit Service tax IN INR	Total Service tax IN INR	TOTAL Erection chrges(including service tax) IN INR
			QUANTITY: for Construction of L1LO line from existing 132 KV Barde- Sambalpur S.C line to proposed 132.33 KV Grid Sub-Station HIRAKUD (APPROX LENGTH 0.3 kms.)					
1	2	3	4	5	6=4x5	7	8=4x7	9=6+8
4.1	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	9		0.00		0.00	0.00
4.1.1	Design, Engineering and laying of reinforced cement concrete (RCC1:1.5:3) 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 (FE-500) 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	48		0.00		0.00	0.00
4.2	DE-WATERING(FOR OPEN CAST LOCATION)							
4.2.1	(i) With Supply of all T&P on Man Hour basis.	Man Hour	0		0.00		0.00	0.00
4.2.2	(ii) With Supply of all T&P, Fuel, Lubricant & electricity on HP Hour basis.	HP Hour	300		0.00		0.00	0.00
4.3	Supply of borrowed earth/morrum for back filling for foundation/revertment works							
4.3.1	(i) Up to 30 mtr lead	CUM	0		0.00		0.00	0.00
4.3.2	(ii) Beyond 30 mtr lead	CUM	100		0.00		0.00	0.00
4.3.3	(iii) beyond 100 mtr lead	CUM	0		0.00		0.00	0.00
4.4	SHORING & SHUTTERING-Required in wet/submerged or special locations of open cast/shallow type foundations with supply of all materials,T&P and Labour.	SQ.MTR.	300		0.00		0.00	0.00
4.5	Head-Loading of all types of foundation-materials, towers, structures, conductors, Insulators, Hard-wares for inaccessible Locations beyond 400 mtrs from the nearest approach road as per the recommendation of site Engineer-In- Charge and approval of the General Manager of Concerned circle.	Per MT/ Per Mtr	0		0.00		0.00	0.00
4.6	WELDING OF TOWER MEMBERS							
4.6.1	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 operator), application of required zinc rich paints around the welding portion after welding (two coats),fuel,lubricants,T&P and labours and other arrangements etc.	Nos.	3200					
5	REVETMENT: (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.							
5.1	Excavation in all type of soil including rock & back filling including supply of sand with back filling.	CUM	10		0.00		0.00	0.00
5.2	Lean Concrete in the ratio1:3:6(Grade M-10) including supply of sand chips etc.	CUM	7		0.00		0.00	0.00
5.3	PCC in the ratio 1:2:4(Grade M-15) as above.	CUM	10		0.00		0.00	0.00
5.4	RR Masonary work in the ratio 1:5.	CUM	10		0.00		0.00	0.00
	TOTAL OF SUBSTATION (Civil Work) (PART-B)				0.00		0.00	0.00
	TOTAL OF ERECTION SUBSTATION (Electrical Work) & (Civil Work) -2C (ERECTION)				0.00		0.00	0.00

PACKAGE 25-04				ODISHA POWER TRANSMISSION CORPORATION LIMITED											
				NAME OF THE WORK:- Construction of 2X20 MVA-132/33 KV Sub-station at HIRAKUD & associated 132 KV LILO line on existing Burla-Sambalpur (Line length-0.5 Kms).											
				NOTICE INVITING TENDER-NIT NO. 25/2013-14 & BID DOCUMENT No.-Sr. G.M- CPC- TENDER- HIRAKUD- PACKAGE- 25-04 / 2013											
				SCHEDULE-3 SUPPLY OF MANDATORY SPARES FOR AGARPADA (Item wise Price of Mandatory Spares for Package 25-04 / 2013)											
Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-3) SUPPLY OF MANDATORY SPARES FOR THE FOLLOWING EQUIPMENTS. (As per Technical Specification)	Unit	NAME OF THE BIDDER												
				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 IN INR	Unit FORD Price IN INR
1	2	3	4	5	6=5x4	7	8=7x4	9	10	11	12	13	14=10+11+12+13	15=5+7+10+11+12+13	16=15x4
1	145 KV (800-400-200 A),31.5KA,4CORE SINGLE PHASE CURRENT TRANSFORMER INCLUDING TERMINAL CONNECTOR	NOS	2		0.00		0.00						0.00	0.00	0.00
2	145 KV,1250A,31.5KA,ISOLATORS														
2.1	MALE & FEMALE CONTACTS	SET	1		0.00		0.00						0.00	0.00	0.00
2.2	POWER CONTACTOR,RELAYS,MCBs, SWITCHES,FUSES,PUSH BUTTONS,RESISTORS ETC AS PER APPROVED SCHEMATIC.	SET	1		0.00		0.00						0.00	0.00	0.00
2.3	LIMIT SWITCH	SET	2		0.00		0.00						0.00	0.00	0.00
2.4	MOTOR WITH GEAR ASSEMBLY & BEVEL GEAR ASSEMBLY COMPLETE	SET	1		0.00		0.00						0.00	0.00	0.00
2.5	AUXILIARY SWITCH CONTACTS ASSEMBLY	SET	1		0.00		0.00						0.00	0.00	0.00
2.6	EARTHING ROD & BLADE CONTACT SIDE	SET	1		0.00		0.00						0.00	0.00	0.00
2.7	HINGE PINS,TERMINAL CONNECTOR,TERMINAL PAD	SET	1		0.00		0.00						0.00	0.00	0.00
2.8	POST INSULATOR SUPPORT	SET ( 3NOS. PER SET)	1		0.00		0.00						0.00	0.00	0.00
3	145 KV,6600pF,3CORE,SINGLE PHASE CAPACITOR VOLTAGE TRANSFORMER INCLUDING TERMINAL CONNECTOR	NOS	1		0.00		0.00						0.00	0.00	0.00
4	120 KV METAL OXIDE 10 KA, CLASS III SURGE ARRESTOR, COMPLETING WITH INSULATING BASE & SURGE MONITOR.	NOS	2		0.00		0.00						0.00	0.00	0.00
5	145 KV ,2 CORE,SINGLE PHASE,IVT INCLUDING TERMINAL CONNECTOR	NOS	1		0.00		0.00						0.00	0.00	0.00
6	132 KV Bus Post Insulators	NOS	2		0.00		0.00						0.00	0.00	0.00
7	145KV,3150A,40KA,SF6,CIRCUIT BREAKER														
7.1	COMPLETE ONE POLE ASSEMBLY OF BREAKER	NOS	1		0.00		0.00						0.00	0.00	0.00
7.2	SPRING CHARGING MOTOR	NOS	1		0.00		0.00						0.00	0.00	0.00
7.3	BREAKER AUXILIARY CONTACTS POWER CONTACTORS,RELAYS,MCBs, SWITCHES,FUSES,PUSH BUTTONS,RESISTORS,PRESSURE SWITCHES,LIMIT SWITCHES, ETC AS PER APPROVED SCHEMATIC.	SET	1		0.00		0.00						0.00	0.00	0.00
7.4		SET	1		0.00		0.00						0.00	0.00	0.00
7.5	DENSITY MONITORING SYSTEM (IF REQUIRED)	SET	1		0.00		0.00						0.00	0.00	0.00
7.6	CLOSING COIL	NOS	4		0.00		0.00						0.00	0.00	0.00
7.7	TRIPPING COIL	NOS	4		0.00		0.00						0.00	0.00	0.00
7.8	SF6 GAS FILLING DEVICE	NOS	1		0.00		0.00						0.00	0.00	0.00
7.9	SET OF GASKETS, "O" RINGS,SEALS PER CIRCUIT BREAKER	SET	1		0.00		0.00						0.00	0.00	0.00
8.1	36 KV,(800-400-200 A),25KA,3CORE SINGLE PHASE CURRENT TRANSFORMER	NOS	2		0.00		0.00						0.00	0.00	0.00
8.2	36 KV,(800-400-200 A),25KA,4 CORE SINGLE PHASE CURRENT TRANSFORMER	NOS	1		0.00		0.00						0.00	0.00	0.00
9	36 KV,1250A,25KA,ISOLATORS														
9.1	MALE & FEMALE CONTACTS	SET	1		0.00		0.00						0.00	0.00	0.00
9.2	POWER CONTACTOR,RELAYS,MCBs, SWITCHES,FUSES,PUSH BUTTONS,RESISTORS ETC AS PER APPROVED SCHEMATIC.	SET	1		0.00		0.00						0.00	0.00	0.00
9.3	LIMIT SWITCH	SET	2		0.00		0.00						0.00	0.00	0.00
9.4	MOTOR WITH GEAR ASSEMBLY & BEVEL GEAR ASSEMBLY COMPLETE	SET	1		0.00		0.00						0.00	0.00	0.00
9.5	AUXILIARY SWITCH CONTACTS ASSEMBLY	SET	1		0.00		0.00						0.00	0.00	0.00
9.6	EARTHING ROD & BLADE CONTACT SIDE	SET	1		0.00		0.00						0.00	0.00	0.00
9.7	HINGE PINS,TERMINAL CONNECTOR,TERMINAL PAD	SET	1		0.00		0.00						0.00	0.00	0.00
9.8	POST INSULATOR SUPPORT	SET ( 3NOS. PER SET)	1		0.00		0.00						0.00	0.00	0.00
10	30 KV,METAL OXIDE, 10 KA, CLASS II SURGE ARRESTOR COMPLETE WITH INSULATOR BASE AND SURGE MONITOR	NOS	3		0.00		0.00						0.00	0.00	0.00
11	36 KV ,2 CORE,SINGLE PHASE /VT INCLUDING TERMINAL CONNECTOR	NOS	1		0.00		0.00						0.00	0.00	0.00
12	36KV, 1250A,25KA,VACUUM CIRCUIT BREAKER														
12.1	ONE COMPLETE POLE ASSEMBLY OF CIRCUIT BREAKER	SET	1		0.00		0.00						0.00	0.00	0.00
12.2	TRIPPING COILS	NOS	4		0.00		0.00						0.00	0.00	0.00
12.3	CLOSING COIL	NOS	4		0.00		0.00						0.00	0.00	0.00
12.4	SPRING CHARGING MOTOR	NOS	1		0.00		0.00						0.00	0.00	0.00
12.5	AUXILIARY SWITCH CONTACTS ASSEMBLY	SET	1		0.00		0.00						0.00	0.00	0.00
12.6	SET OF GASKET,"O" RINGS,SEALING PER CIRCUIT BREAKER	SET	1		0.00		0.00						0.00	0.00	0.00
12.7	POWER CONTACTORS,RELAYS,MCBs, SWITCHES,FUSES,PUSH BUTTONS,RESISTORS,PRESSURE SWITCHES,LIMIT SWITCHES, ETC AS PER APPROVED SCHEMATIC.	SET	1		0.00		0.00						0.00	0.00	0.00

Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-3) SUPPLY OF MANDATORY SPARES FOR THE FOLLOWING EQUIPMENTS. (As per Technical Specification)	Unit	NAME OF THE BIDDER												
				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 IN INR	Unit FORD Price IN INR
1	2	3	4	5	6=5x4	7	8=7x4	9	10	11	12	13	14=10+11+12+13	15=5+7+10+11+12+13	16=15x4
13	33 KV Bus Post Insulators	NOS	3		0.00		0.00						0.00	0.00	0.00
14	BUS BAR & CIRCUIT MATERIALS														
14.1	120 kN ANTIFOG INSULATOR STRINGS for Double Moose cond (TENSION)-132 KV	SET	2		0.00		0.00						0.00	0.00	0.00
14.2	120 kN ANTIFOG INSULATOR STRINGS for Single Moose cond (TENSION)-132 KV	SET	2		0.00		0.00						0.00	0.00	0.00
14.3	120 kN ANTIFOG INSULATOR STRINGS for Double Moose cond (TENSION)-33 KV	SET	2		0.00		0.00						0.00	0.00	0.00
14.4	120 kN ANTIFOG INSULATOR STRINGS for Single Moose cond (TENSION)-33 KV	SET	2		0.00		0.00						0.00	0.00	0.00
14.5	90 kN ANTIFOG INSULATOR STRINGS for Double/ Single Moose cond (SUSPENSION)-132 KV	SET	2		0.00		0.00						0.00	0.00	0.00
14.6	90 kN ANTIFOG INSULATOR STRINGS for Double/ Single Moose cond (SUSPENSION)-33 KV	SET	2		0.00		0.00						0.00	0.00	0.00
15	ACSR MOOSE CONDUCTOR	MTRS	250		0.00		0.00						0.00	0.00	0.00
16	HARDWARES & FITTINGS/SPACERS/CLAMP & CONNECTORS ETC. FOR 132 KV & 33 KV	SET (EACH TYPE THREE NOS.)	1		0.00		0.00						0.00	0.00	0.00
17	GENERAL EQUIPMENT & SUBSTATION ACCESSORIES														
17.1	POWER CABLES,1.1KV,XLPE & PVC,ARMORED, ALUMINIUM CONDUCTOR(As per Specification)														
17.1.1	3.5 CX300 mm <sup>2</sup> (ONE PIECE OF MAXM. LENGTH OF CABLE USED)-XLPE	PCS.	1		0.00		0.00						0.00	0.00	0.00
17.1.2	3.5 CX185 mm <sup>2</sup> (ONE PIECE OF MAXM. LENGTH OF CABLE USED)-XLPE	PCS.	1		0.00		0.00						0.00	0.00	0.00
17.1.3	3.5 CX120 mm <sup>2</sup> (ONE PIECE OF MAXM. LENGTH OF CABLE USED)-XLPE	PCS.	1		0.00		0.00						0.00	0.00	0.00
17.1.4	3.5 CX70 mm <sup>2</sup> (ONE PIECE OF MAXM. LENGTH OF CABLE USED)-PVC	PCS.	1		0.00		0.00						0.00	0.00	0.00
17.1.5	3.5 CX35 mm <sup>2</sup> (ONE PIECE OF MAXM. LENGTH OF CABLE USED)-PVC	PCS.	1		0.00		0.00						0.00	0.00	0.00
17.1.6	4 CX 16 mm <sup>2</sup> -PVC	MTRS	250		0.00		0.00						0.00	0.00	0.00
17.1.7	4 CX 6 mm <sup>2</sup> -PVC	MTRS	250		0.00		0.00						0.00	0.00	0.00
17.1.8	2CX 6 mm <sup>2</sup> -PVC	MTRS	250		0.00		0.00						0.00	0.00	0.00
17.2	CONTROL CABLES,1.1 KV, PVC,STRANDED COPPER(As per specification)														
17.2.1	4 CX 2.5 mm <sup>2</sup> (ONE DRUM HAVING LENGTH OF 500 MTRS)	Mtrs	500		0.00		0.00						0.00	0.00	0.00
17.2.2	5 CX 2.5 mm <sup>2</sup> (ONE DRUM HAVING LENGTH OF 500 MTRS)	Mtrs	500		0.00		0.00						0.00	0.00	0.00
17.2.3	7 CX 2.5 mm <sup>2</sup> (ONE DRUM HAVING LENGTH OF 500 MTRS)	Mtrs	500		0.00		0.00						0.00	0.00	0.00
17.2.4	10 CX 2.5 mm <sup>2</sup> (ONE DRUM HAVING LENGTH OF 500 MTRS)	Mtrs	500		0.00		0.00						0.00	0.00	0.00
17.2.5	12 CX 2.5 mm <sup>2</sup> (ONE DRUM HAVING LENGTH OF 250 MTRS)	Mtrs	250		0.00		0.00						0.00	0.00	0.00
17.2.6	16 CX 2.5 mm <sup>2</sup> (ONE DRUM HAVING LENGTH OF 250 MTRS)	Mtrs	250		0.00		0.00						0.00	0.00	0.00
17.2.7	19 CX 2.5 mm <sup>2</sup> (ONE DRUM HAVING LENGTH OF 250 MTRS)	Mtrs	250		0.00		0.00						0.00	0.00	0.00
17.2.8	1CX 120 mm <sup>2</sup>	MTRS	50		0.00		0.00						0.00	0.00	0.00
17.3	CARRIER COMMUNICATION & OTHER MATERIALS														
17.3.1	132 KV/800 A/0.5mH,Pedestal Mounting WAVE TRAP	NOS	1		0.00		0.00						0.00	0.00	0.00
17.3.2	LINE MATCHING UNIT & LINE MATCHING DISTRIBUTION UNIT	SET	1		0.00		0.00						0.00	0.00	0.00
17.3.3	VRLA TYPE BATTERY 300 AH, ONE COMPLETE CELL ASSEMBLY OF BATTERY(FOR 48 V)	NO	1		0.00		0.00						0.00	0.00	0.00
17.3.4	PLANTE TYPE BATTERY 350 AH, ONE COMPLETE CELL ASSEMBLY OF BATTERY(FOR 220 V)	NO	1		0.00		0.00						0.00	0.00	0.00
17.3.5	BATTERY CHARGER FOR 300 AH (48V) ONE COMPLETE SET OF ELECTRONIC CARDS	SET	1		0.00		0.00						0.00	0.00	0.00
17.3.6	BATTERY CHARGER FOR 350 AH (220V) ONE COMPLETE SET OF ELECTRONIC CARDS	SET	1		0.00		0.00						0.00	0.00	0.00
18	PROTECTION, CONTROL, METERING, EVENT LOGGER, BUS BAR PROT/N PAN, COMM PAN, RELAY TOOL KITS AS PER TECH SPEC AND BOQ FOR PCM														
18.1	132 KV SIDE														
18.1.1	DISTANCE PROTECTION RELAY	NOS	1		0.00		0.00						0.00	0.00	0.00
18.1.2	OVER CURRENT & EARTH FAULT RELAY	NOS	1		0.00		0.00						0.00	0.00	0.00
18.1.3	MASTER TRIP RELAY	NOS	2		0.00		0.00						0.00	0.00	0.00
18.1.4	DIFFERENTIAL PROTECTION RELAY	NOS	1		0.00		0.00						0.00	0.00	0.00
18.1.5	TRIP SUPERVISION RELAY	NOS	3		0.00		0.00						0.00	0.00	0.00
18.1.6	OTHER AUXILIARY RELAYS(EACH 1 NO. OF DIFFERENT TYPE)	SET	1		0.00		0.00						0.00	0.00	0.00
18.1.7	ANNUNCIATOR	NOS	1		0.00		0.00						0.00	0.00	0.00
18.1.8	DISCREPANCY CONTROL SWITCH														
	a) FOR CIRCUIT BREAKER	NOS	2		0.00		0.00						0.00	0.00	0.00
	b) FOR ISOLATOR	NOS	2		0.00		0.00						0.00	0.00	0.00
18.1.9	PROTECTION TRANSFER SWITCH	NOS	1		0.00		0.00						0.00	0.00	0.00

Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-3) SUPPLY OF MANDATORY SPARES FOR THE FOLLOWING EQUIPMENTS. (As per Technical Specification)	Unit	NAME OF THE BIDDER												
				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 IN INR	Unit FORD Price IN INR
1	2	3	4	5	6=5x4	7	8=7x4	9	10	11	12	13	14=10+11+12+13	15=5+7+10+11+12+13	16=15x4
18.1.10	AMMETER SELECTOR SWITCH	NOS	1		0.00		0.00						0.00	0.00	0.00
18.1.11	VOLTMETER SELECTOR SWITCH	NOS	1		0.00		0.00						0.00	0.00	0.00
18.1.12	AMMETER ALONG WITH TRANSDUCER	SET	1		0.00		0.00						0.00	0.00	0.00
18.1.13	VOLTMETER ALONG WITH TRANSDUCER	SET	1		0.00		0.00						0.00	0.00	0.00
18.1.14	MW METER ALONG WITH TRANSDUCER	SET	1		0.00		0.00						0.00	0.00	0.00
18.1.15	MVAR METER ALONG WITH TRANSDUCER	SET	1		0.00		0.00						0.00	0.00	0.00
18.2	33 KV SIDE														
18.2.1	OVER CURRENT & EARTH FAULT RELAY	NOS	1		0.00		0.00						0.00	0.00	0.00
18.2.2	MASTER TRIP RELAY	NOS	2		0.00		0.00						0.00	0.00	0.00
18.2.3	OTHER AUXILIARY RELAYS (EACH 1 NO. OF DIFFERENT TYPE)	SET	1		0.00		0.00						0.00	0.00	0.00
18.2.4	ANNUNCIATOR	NOS	1		0.00		0.00						0.00	0.00	0.00
18.2.5	CONTROL SWITCHES FOR														
	a) CIRCUIT BREAKER	NOS	2		0.00		0.00						0.00	0.00	0.00
	b) ISOLATOR	NOS	2		0.00		0.00						0.00	0.00	0.00
18.2.6	PROTECTION TRANSFER SWITCH	NOS	1		0.00		0.00						0.00	0.00	0.00
18.2.7	AMMETER SELECTOR SWITCH	NOS	1		0.00		0.00						0.00	0.00	0.00
18.2.8	VOLTMETER SELECTOR SWITCH	NOS	1		0.00		0.00						0.00	0.00	0.00
18.2.9	AMMETER ALONG WITH TRANSDUCER	SET	1		0.00		0.00						0.00	0.00	0.00
18.2.10	VOLTMETER ALONG WITH TRANSDUCER	SET	1		0.00		0.00						0.00	0.00	0.00
18.2.11	MW METER ALONG WITH TRANSDUCER	SET	1		0.00		0.00						0.00	0.00	0.00
18.2.12	MVAR METER ALONG WITH TRANSDUCER	SET	1		0.00		0.00						0.00	0.00	0.00
TOTAL OF SUBSTATION -3 -MANDATORY SPARE						0.00	0.00						0.00	0.00	0.00



<b>PACKAGE 25-04</b>		<b>ODISHA POWER TRANSMISSION CORPORATION LIMITED</b> NAME OF THE WORK:- Construction of 2X20 MVA-132/33 KV Sub-station at HIRAKUD & associated 132 KV LILO line on existing Burla-Sambalpur (Line length-0.5 Kms).  NOTICE INVITING TENDER-NIT NO. 25/2013-14 & BID DOCUMENT No..Sr. G.M- CPC- TENDER- HIRAKUD- PACKAGE- 25-04 / 2013 <b>SCHEDULE-I(ABSTRACT OF PRICE SCHEDULE)</b>
	<b>NAME OF THE BIDDER</b>	
Sl. No.	<b>DESCRIPTION OF SCHEDULES</b>	<b>PRICE IN INR</b>
<b>1</b>	<b>2</b>	<b>3</b>
1	Schedule 2A-Substation_Supply of Equipments and materials (Ex-works / Basic price including Packing & Forwarding, Freight and Insurance, Taxes and duties)	
2	TOTAL of Ex-Works / Basic Price	
3	TOTAL Excise Duty	
4	TOTAL VAT	
5	TOTAL CST	
6	TOTAL Any other tax	
7	TOTAL F&I CHARGES	
8	<b>Total of Schedule 2A Substation Supply</b>	<b>0.00</b>
9	Schedule 3_Supply of Mandatory spares (Ex-works / Basic price including Packing & Forwarding, Freight and Insurance, Taxes and duties)	
10	TOTAL of Ex-Works / Basic Price	
11	TOTAL Excise Duty	
12	TOTAL VAT	
13	TOTAL CST	
14	TOTAL Any other tax	
15	TOTAL F&I CHARGES	
16	<b>Total of Schedule 3 Supply of Mandatory spares</b>	<b>0.00</b>
17	<b>SUPPLY CONTRACT PRICE</b>	<b>0.00</b>
18	Schedule 2C-Substation_Erection and Civil works (Erection charges, Civil work charges & Service tax)	
19	ELECTRICAL WORKS	
20	TOTAL of Erection charges	
21	TOTAL of Service tax on Erection charges	
22	<b>TOTAL of Erection charges including service tax</b>	<b>0.00</b>
23	CIVIL WORKS	
24	TOTAL Price for Civil works	
25	TOTAL of Service tax on Civil works	
26	<b>TOTAL of Civil works including service tax</b>	<b>0.00</b>
27	<b>Total of Schedule 2C Substation Erection &amp; Civil works</b>	<b>0.00</b>
28	<b>ERECTION CONTRACT PRICE</b>	<b>0.00</b>
29	<b>TOTAL BID PRICE(SUPPLY + ERECTION )</b>	<b>0.00</b>
30	<b>TOTAL DISCOUNT OFFERED BY THE FIRM</b>	
31	<b>TOTAL CONTRACT PRICE(SUPPLY + ERECTION ), AFTER DISCOUNT</b>	<b>0.00</b>

<b>PACKAGE 25-04</b>		<b>ODISHA POWER TRANSMISSION CORPORATION LIMITED</b>
		NAME OF THE WORK:- Construction of 2X20 MVA-132/33 KV Sub-station at HIRAKUD & associated
		NOTICE INVITING TENDER-NIT NO. 25/2013-14 & BID DOCUMENT No.:Sr. G.M- CPC- TENDER- HIRAKUD- PACKAGE- 25-04 / 2013
		<b>DISCOUNT OFFER BY THE BIDDER IF ANY</b>
	<b>NAME OF THE BIDDER</b>	
<b>SL No</b>	<b>Description of Discount offered against the PRICE SCHEDULES</b>	<b>Price in INR</b>
1	Discount on Schedule 2A Substation_Supply	
2	Discount on Schedule 3_ Supply of Mandatory spares	
3	<b>TOTAL DISCOUNT ON SUPPLY CONTRACT PRICE</b>	0.00
4	Discount on Erection charges including service tax	
5	Discount on Civil works including service tax	
6	Total of Schedule 2C_ Substation_Erection & Civil works	0.00
7	<b>TOTAL DISCOUNT ON ERECTION CONTRACT PRICE</b>	0.00
8	<b>TOTAL OF DISCOUNT OFFERED</b>	0.00