

**ODISHA POWER TRANSMISSION CORPORATION LIMITED**

NAME OF THE WORK:- Construction of 132 KV Feeder Bay Extensions in existing 132/33 KV Grid Sub-station at (1) AKHUSINGH,(2) PARALAKHEMUNDI and Conversion of 132 KV S/C Line to 132 KV D.C line on D.C Tower from the existing 132/33 KV S/S at AKHUSINGH to PARALAKHEMUNDI S/S (approximate length is 76.9 Kms) & Associated System ON TURNKEY BASIS.

NOTICE INVITING TENDER-NIT NO. CPC-30 / 2013-14 & TENDER SPECIFICATION NO. Sr. G.M-CPC- Tender-Package-30/2013-14(Akhusingh-Paralakhemundi)

**SCHEDULE-2A-SUPPLY (FOR SUBSTATION) (Equipment/Materials Price Break-up of Ex-works Prices against Package-30)**

**PACKAGE 30**

Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2A-SS) SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS (As per Technical Specification)	UNITS	Quantity for Construction of 132 KV Bay Extension at 132/33 KV Sub-Station at AKHUSINGH.	Quantity for Construction of 132 KV Bay Extension at 132/33 KV Sub-Station at PARALAKHEMUNDI.	NAME OF THE BIDDER	Total Quantity	Unit Ex-Works Price	Total Ex-Works Price	Unit F&I Charges	Total F&I Charges	Mode of Transaction (Direct or Bought-out item)	Unit Excise duty	Unit VAT	Unit CST	Any other tax	Total Taxes and duties	Unit FORD Price	TOTAL FORD Price
							IN INR	IN INR	IN INR	IN INR	IN INR	IN INR	IN INR	IN INR	IN INR	IN INR	IN INR	IN INR
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
<b>1</b>	<b>Main Equipment as per technical specification</b>																	
1.1	145KV, 3150A, 40KA, SF6 Circuit Breaker with the supporting structure	Set	1	1	2		0.00		0.00						0.00	0.00	0.00	
1.2	145KV, 1200A, 31.5kA Isolators																	
1.2.1	Single Isolator W/O Earth Switch	Set	1	1	2		0.00		0.00						0.00	0.00	0.00	
1.2.2	Beam Mounted Isolator W/O Earth Switch	Set	1	1	2		0.00		0.00						0.00	0.00	0.00	
1.2.3	Double Isolator With Earth Switch	Set	1	1	2		0.00		0.00						0.00	0.00	0.00	
1.3	145KV, 800-400-200A, 31.5KA, 4Core Single Phase Current Transformer	Nos.	3	3	6		0.00		0.00						0.00	0.00	0.00	
1.4	145KV, 660pF, 3 Core, Single Phase Capacitive Voltage Transformer	Nos.	3	3	6		0.00		0.00						0.00	0.00	0.00	
1.5	120kV Metal Oxide Lightning Arrester, 10kA, Class III	Nos.	3	3	6		0.00		0.00						0.00	0.00	0.00	
1.6	132KV Post Insulator Stack	Nos.	5	5	10		0.00		0.00						0.00	0.00	0.00	
1.7	132 KV Line Trap for Pedestal mounting with complete accessories 800A, 0.5 mH, (90-500kHz), Isc=31.5kA compatible to IEC 353 specifications	Nos.	2	2	4		0.00		0.00						0.00	0.00	0.00	
1.8	Line Matching Unit (LMU) & Line Matching Distribution Unit (LMDU)	Set	1	1	2		0.00		0.00						0.00	0.00	0.00	
1.9	132KV Control & Relay Panel [Simplex type]																	
1.9.1	132 KV Feeder Control Panel	Nos.	1	1	2		0.00		0.00						0.00	0.00	0.00	
1.9.2	132 KV Feeder Relay Panel	Nos.	1	1	2		0.00		0.00						0.00	0.00	0.00	
<b>2</b>	<b>Distribution / Console Boxes as per technical specification</b>																	
2.1	CT Console Box	Nos.	1	1	2		0.00		0.00						0.00	0.00	0.00	
2.2	CVT Console Box	Nos.	1	1	2		0.00		0.00						0.00	0.00	0.00	
2.3	Bay Marshalling Kiosk	Nos.	1	1	2		0.00		0.00						0.00	0.00	0.00	
<b>3</b>	<b>Switchyard Structures, foundation Nuts Bolts &amp; other GI nuts &amp; bolts as per technical specification</b>																	
3.1	132KV Lattice Type Column with foundation nuts & bolts																	
3.1.1	T1S Column	Set	2	2	4		0.00		0.00						0.00	0.00	0.00	
3.1.2	T4S Column	Set	1	1	2		0.00		0.00						0.00	0.00	0.00	
3.2	132KV Lattice Type Beam																	
3.2.1	G1 Beam	Set	2	2	4		0.00		0.00						0.00	0.00	0.00	
3.2.2	S2 Beam	Set	2	2	4		0.00		0.00						0.00	0.00	0.00	
3.3	132KV Lattice Type Equipment Structures with foundation nuts & bolts.																	
3.3.1	Isolator Structure																	
3.3.1.1	Single Isolator without Earth Switch	Set	1	1	2		0.00		0.00						0.00	0.00	0.00	
3.3.1.2	Double Isolator With Earth Switch	Set	1	1	2		0.00		0.00						0.00	0.00	0.00	
3.3.2	CT Structure	Set	3	3	6		0.00		0.00						0.00	0.00	0.00	
3.3.3	CVT Structure	Set	3	3	6		0.00		0.00						0.00	0.00	0.00	
3.3.4	LA Structure	Set	3	3	6		0.00		0.00						0.00	0.00	0.00	
3.3.5	Post Insulator Structure	Set	2	2	4		0.00		0.00						0.00	0.00	0.00	
3.3.6	Wave Trap Structure	Set	2	2	4		0.00		0.00						0.00	0.00	0.00	
3.4	<b>Total Switchyard Structure [ 3.1 to 3.3 ]</b>	<b>MT</b>	<b>9.985</b>	<b>9.985</b>	<b>19.970</b>		<b>0.00</b>		<b>0.00</b>						<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	
3.5	Galvanised Nuts & Bolts	MT	0.940	0.940	1.88		0.00		0.00						0.00	0.00	0.00	
<b>4</b>	<b>Supply of different size Angles required for Cable Trench, Fencing etc.</b>																	
4.1	Sub-Cable Trench Section- 3-3 & 4-4	MT	0.700	0.640	1.34		0.00		0.00						0.00	0.00	0.00	
4.2	Angles required for Fencing	MT	0.370	0.320	0.69		0.00		0.00						0.00	0.00	0.00	
<b>5</b>	<b>Cable Trench Materials as per technical specification</b>																	
5.1	2mm thick G.I Cable Trays excluding support GI angle suitable for different sections i.e. Section: 3-3 & 4-4 along with its accessories as per TS.																	
5.1.1	Sub Cable Trench Section 3-3 (3 layers of cable trays as per specification)																	
5.1.2	Sub Cable Trench Section 4-4 (2 layers of cable trays as per specification)	Mtr	75	70	145		0.00		0.00						0.00	0.00	0.00	
<b>6</b>	<b>Conductor with 5% extra as per technical specification</b>																	
6.1	ACSR Zebra	km	0.49	0.49	0.98		0.00		0.00						0.00	0.00	0.00	
<b>7</b>	<b>Tension &amp; Suspension Disc Insulators with 5% extra towards breakage as per technical specification</b>																	
7.1	90kN Antilog - 132kV	Nos.	32	32	64		0.00		0.00						0.00	0.00	0.00	
7.2	120kN Antilog - 132kV	Nos.	208	208	416		0.00		0.00						0.00	0.00	0.00	
<b>8</b>	<b>Hardware Fittings with 5% extras per technical specification</b>																	
8.1	Suitable ACSR Zebra																	

Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2A-SS) SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS (As per Technical Specification)	UNITS	Quantity for Construction of 132 KV Bay Extension at 132/33 KV Sub-Station at AKHUSINGH.	Quantity for Construction of 132 KV Bay Extension at 132/33 KV Sub-Station at PARALAKHEMUNDI.	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	7	8	9	10	11	12	13	14	15	16	17	18
8.1.1	Single Tension HW Fittings (Single Insulator Single Conductor)	Nos.	7	7	14		0.00		0.00						0.00	0.00	0.00
8.1.2	Single Tension HW Fittings (Single Insulator Twin Conductor)	Nos.	13	13	26		0.00		0.00						0.00	0.00	0.00
8.1.3	Single Suspension HW Fittings (Single Insulator Single Conductor)	Nos.	4	4	8		0.00		0.00						0.00	0.00	0.00
8.1.4	Single Suspension HW Fittings (Single Insulator Twin Conductor)																
9	<b>Clamps &amp; Connectors suitable for ACSR Zebra with 5% extras per technical specification</b>																
9.1	Spacer Clamps (at 2 mtrs intervals)																
9.1.1	Twin Zebra (For Main & Reserve Bus or Bus-1 & Bus-1)	Nos.	49	49	98		0.00		0.00						0.00	0.00	0.00
9.2	Spacer 'T' Clamps																
9.2.1	Twin Zebra Run & Single Zebra Drop (For Bus to SI / DI Jumping)	Nos.	7	7	14		0.00		0.00						0.00	0.00	0.00
9.3	'T' Clamps																
9.3.1	Single Zebra Run & Single Zebra Drop (For Bus / Line to SI / DI / CT / WT / CVT / LA Jumping)	Nos.	13	13	26		0.00		0.00						0.00	0.00	0.00
9.4	Pad Clamps (Single Zebra)																
9.4.1	132KV Single Isolator	Nos.	7	7	14		0.00		0.00						0.00	0.00	0.00
9.4.2	132KV Double Isolator	Nos.	10	10	20		0.00		0.00						0.00	0.00	0.00
9.4.3	132KV Beam Mounted Isolator																
9.4.4	132KV Breaker	Nos.	7	7	14		0.00		0.00						0.00	0.00	0.00
9.4.5	132KV Wave Trap	Nos.	5	5	10		0.00		0.00						0.00	0.00	0.00
9.4.6	132KV LA	Nos.	4	4	8		0.00		0.00						0.00	0.00	0.00
9.5	Pad Clamps (Double Zebra)																
9.5.1	132KV Beam Mounted Isolator	Nos.	7	7	14		0.00		0.00						0.00	0.00	0.00
9.6	PI Clamps (Double Zebra)	Nos.	4	4	8		0.00		0.00						0.00	0.00	0.00
9.7	Straight through Clamps (Single Zebra)																
9.7.1	132KV CT	Nos.	7	7	14		0.00		0.00						0.00	0.00	0.00
9.7.2	132KV CVT	Nos.	4	4	8		0.00		0.00						0.00	0.00	0.00
10	<b>Power &amp; Control Cables as per technical specification</b>																
10.1	Power Cables, 1.1kV, PVC, Armoured, Aluminium Conductor																
10.1.1	4 Core x 16 mm <sup>2</sup>	km	0.07	0.08	0.15		0.00		0.00						0.00	0.00	0.00
10.2	Control Cables, 1.1kV, PVC, Stranded Copper																
10.2.1	24 Core x 2.5 mm <sup>2</sup>	km	0.05	0.04	0.09		0.00		0.00						0.00	0.00	0.00
10.2.2	12 Core x 2.5 mm <sup>2</sup>	km	0.18	0.16	0.34		0.00		0.00						0.00	0.00	0.00
10.2.3	10 Core x 2.5 mm <sup>2</sup>	km	0.09	0.07	0.16		0.00		0.00						0.00	0.00	0.00
10.2.4	7 Core x 2.5 mm <sup>2</sup>	km	0.65	0.55	1.20		0.00		0.00						0.00	0.00	0.00
10.2.5	4 Core x 2.5 mm <sup>2</sup>	km	0.87	0.89	1.76		0.00		0.00						0.00	0.00	0.00
10.2.6	2 Core x 2.5 mm <sup>2</sup>	km	0.03	0.02	0.05		0.00		0.00						0.00	0.00	0.00
11	<b>GJ Earth Flat &amp; Earthing device as per Specification</b>																
11.1	75x10 mm for Laying of Earth Mat	Mtr	390	370	760		0.00		0.00						0.00	0.00	0.00
11.2	50X6 mm for Earthing Riser	Mtr	755	730	1485		0.00		0.00						0.00	0.00	0.00
11.3	50mm dia, 3050 mm length heavy gauge GI perforated Earthing device including accessories/arrangement for Pipe Earthing as per specification, (including supply of 50mm dia, 3050mm length heavy gauge Earthing Pipe & 50x6mm GI Flats)	Set	15	15	30		0.00		0.00						0.00	0.00	0.00
12	<b>Switchyard illumination conforming to relevant ISS</b>																
12.1	Supply of Fixtures & Lamps (LED) to match with the existing system) of reputed make (Philips / CCL / Bajaj) with switch gear, GI Conduit etc.	Set	4	7	11		0.00		0.00						0.00	0.00	0.00
13	<b>Wire Mesh Fencing</b>																
13.1	Supply of GI Chain Link Wire Mesh (8 SWG) & also to match with the existing fencing in the switchyard as per the instruction of Engineer-in-charge.	Sqrm	130	110	240		0.00		0.00						0.00	0.00	0.00
<b>TOTAL OF SUBSTATION-2A (SUPPLY)</b>								<b>0.00</b>		<b>0.00</b>							<b>0.00</b>

- Note:
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  - 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 30			ODISHA POWER TRANSMISSION CORPORATION LIMITED													
			NAME OF THE WORK:- Construction of 132 KV Feeder Bay Extensions in existing 132/33 KV Grid Sub-station at (1) AKHUSINGH,(2) PARALAKHEMUNDI and Conversion of 132 KV S/C Line to 132 KV D.C line on D.C Tower from the existing 132/33 KV S/S at AKHUSINGH to PARALAKHEMUNDI S/S (approximate length is 76.9 Kms) & Associated System ON TURNKEY BASIS.													
			NOTICE INVITING TENDER-NIT NO. CPC-30 / 2013-14 & TENDER SPECIFICATION NO. Sr. G.M-CPC: Tender-Package-30/2013-14(Akhusingh-Paralakhemundi)													
			SCHEDULE-2A-SUPPLY (FOR TRANSMISSION LINE) (Equipment/Materials Price Break-up of Ex-works Prices against Package-30)													
Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2A-LINE) SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS (As per Technical Specification)	UNITS	QUANTITY: for Conversion of 132 KV S/C Line to 132 KV D.C line on D.C Tower from the existing 132/33 KV S/S at AKHUSINGH to PARALAKHEMUNDI S/S (approximate length is 76.9 Kms)	Unit Ex-Works	Total Ex-Works Price	Unit F&I Charges	Total F&I Charges	Mode of	Unit Excise duty	Unit VAT	Unit CST	Any other tax	Total Taxes and	Unit FORD Price	TOTAL FORD Price	
				Price IN INR	IN INR	IN INR	IN INR	Transaction (Direct or Bought-out item)	IN INR	IN INR	in INR	IN INR	IN INR	IN INR	IN INR	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	<b>Tower Accessories</b>															
1.1	Phase Plate	Nos.	828	0.00			0.00						0.00	0.00	0.00	
1.2	Circuit Plate	Nos.	276	0.00			0.00						0.00	0.00	0.00	
2	<b>Power Conductor (ACSR Panther) with 1.5% extra towards Sag, Jumpering &amp; Wastage</b>	kms	234.161	0.00			0.00						0.00	0.00	0.00	
3	<b>Conductor Accessories compatible for ACSR Panther incl. 5% extra</b>															
3.1	Stock Bridge Vibration Damper	Nos.	1739	0.00			0.00						0.00	0.00	0.00	
3.2	Mid Span Compression Joint	Nos.	186	0.00			0.00						0.00	0.00	0.00	
3.3	Repair Sleeve	Nos.	93	0.00			0.00						0.00	0.00	0.00	
3.4	Performed Armour Rod Set	Nos.	705	0.00			0.00						0.00	0.00	0.00	
4	<b>Insulators incl. 5% extra towards breakage</b>															
4.1	90 kN Insulators	Nos.	6606	0.00			0.00						0.00	0.00	0.00	
4.2	120 kN Insulators	Nos.	3591	0.00			0.00						0.00	0.00	0.00	
5	<b>Hardware Fittings compatible for ACSR Panther incl. 5% extra</b>															
5.1	Single Suspension HW Fittings with Arcing Horns	Nos.	677	0.00			0.00						0.00	0.00	0.00	
5.2	Double Suspension HW Fittings with Arcing Horn	Nos.	28	0.00			0.00						0.00	0.00	0.00	
5.3	Single Tension HW Fittings with Arcing Horns	Nos.	309	0.00			0.00						0.00	0.00	0.00	
5.4	Double Tension HW Fittings with Arcing Horns	Nos.	25	0.00			0.00						0.00	0.00	0.00	
<b>TOTAL (Part-II)-2A-LINE</b>																

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PACKAGE 30						ODISHA POWER TRANSMISSION CORPORATION LIMITED					
						NAME OF THE WORK:- Construction of 132 KV Feeder Bay Extensions in existing 132/33 KV Grid Sub-station at (1) AKHUSINGH,(2) PARALAKHEMUNDI and Conversion of 132 KV S/C Line to 132 KV D.C line on D.C Tower from the existing 132/33 KV S/S at AKHUSINGH to PARALAKHEMUNDI S/S (approximate length is 76.9 Kms) & Associated System ON TURNKEY BASIS.					
						NOTICE INVITING TENDER-NIT NO. CPC-30 / 2013-14 & TENDER SPECIFICATION NO. Sr. G.M-CPC- Tender-Package-30/2013-14(Akhusingh-Paralakhemundi)					
						SCHEDULE-2C-ERECTION & CIVILWORKS (FOR SUBSTATION) (Equipment/Materials Price Break-up of Ex-works Prices against Package-30)					
Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2C-SS) ERECTION,TESTING & COMMISSIONING OF FOLLOWING EQUIPMENTS ALONG WITH CIVIL WORKS (As per Technical Specification)	UNIT	Quantity for Construction of 132 KV Bay Extension at 132/33 KV Sub-Station at AKHUSINGH.	Quantity for Construction of 132 KV Bay Extension at 132/33 KV Sub-Station at PARALAKHEMUNDI.	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	7	8	9	10	11	
<b>PART-A ELECTRICAL WORKS</b>											
<b>1</b>	<b>Survey, Levelling &amp; Back Filling</b>										
1.1	Contour survey and furnishing contour map including supply of all materials, labour and T&P	Sqm	750	675	1,425		0.00		0.00	0.00	
1.2	Cutting, Filling and Leveling of Sub-station area including supply of labour and T&P										
1.2.1	Soft / Loose Soil	Cum	300	270	570		0.00		0.00	0.00	
1.2.2	Hard / Dense Soil	Cum	900	405	1,305		0.00		0.00	0.00	
1.2.3	Soft / Disintegrated Rock (not requiring blasting)	Cum	113		113		0.00		0.00	0.00	
1.3	Filling of substation area with borrowed earth including supply of all labour, T & P	Cum	0	0	0		0.00		0.00	0.00	
<b>2</b>	<b>Excavation &amp; Back Filling</b>										
	For foundation of equipment, column, cable trench, fencing, road & drainage system including supply of all materials, labour and T&P as per the instruction of Engineer-in-Charge.										
2.1	Soft / Loose Soil	Cum	94	230	324		0.00		0.00	0.00	
2.2	Hard / Dense Soil	Cum	263	250	513		0.00		0.00	0.00	
2.3	Soft / Disintegrated Rock (not requiring blasting)	Cum	9	9	18		0.00		0.00	0.00	
<b>3</b>	<b>Foundation &amp; Reinforcement</b>										
	Supply of all materials, good quality planks, ballas, shuttering plates for centering, shuttering, supply of good quality 20 mm machine broken granite chips, good quality river sand and concreting, curing for foundation of columns, equipment structures, cable trench with cover slabs, fencing, road & drainage system etc. as per IS 4156 including cost of taxes, royalties, lead lift, labour and T&P.										
3.1	M-10 Grade PCC in 1:3:6 Ratio (Without Steel)	Cum	22.0	56.0	78		0.00		0.00	0.00	
3.2	M-15 Grade PCC in 1:2:4 Ratio (Without Steel)	Cum	14.0	59.0	73		0.00		0.00	0.00	
3.3	M-20 Grade PCC in 1:1.5:3 Ratio (Without Steel)	Cum	131.0	127.0	258		0.00		0.00	0.00	
3.4	Cutting, bending, binding, placing in position of Steel Rods for foundation concreting with supply of M.S Rods (FE 500) of all sizes (TATA / RINL / SAIL MAKE) including cost of binding wire.	MT	11.0	14.0	25		0.00		0.00	0.00	
<b>4</b>	<b>Masonry Works</b>										
4.1	Brick Masonry in ratio 1:5 for drainage system, fencing etc. with supply of First Class K.B.Bricks, cement, good quality river sand, Labour & T&P.	Cum	12.0	15.0	27		0.00		0.00	0.00	
<b>5</b>	<b>Cement Plastering with Mortar of 1:6 ratio with supply of Cement, all fine aggregates (good quality river sand), all labour and T&amp;P.</b>										
5.1	Sub Cable Trench Section 3-3 & 4-4	Sqm	289	208	497		0.00		0.00	0.00	
5.2	Fencing Base	Sqm	104	89	193		0.00		0.00	0.00	
5.3	Drainage System	Sqm	65	82	147		0.00		0.00	0.00	
<b>6</b>	<b>Spreading of Metal / Sand incuding 2 coats of Anti-weed Treatment as per the instruction of Engineer-in-Charge</b>										
6.1	Supply and spreading of crusher dust in switch yard including stacking for measurement with supply of all labour and T&P.	Cum	38	34	72		0.00		0.00	0.00	
6.2	Supply and spreading of loose, fine, clear, good quality river sand in switch yard including stacking for measurement with supply of all labour and T&P.	Cum	75	68	143		0.00		0.00	0.00	
6.3	Supply and spreading of 20mm size hard granite machine broken metal in switch yard including stacking for measurement with supply of all labour and T&P.	Cum	75	68	143		0.00		0.00	0.00	
<b>7</b>	<b>Fabrication (Cutting of different size Angles, Drilling of holes) with Welding &amp; Painting including cost of Consumables, Labour, T&amp;P and other ancillary items as per the instruction of Engineer in Charge.</b>										
7.1	Sub Cable Trench Section 3-3 & 4-4	MT	0.700	0.640	1.340		0.00		0.00	0.00	
7.2	Angles required for Fencing	MT	0.370	0.320	0.690		0.00		0.00	0.00	
<b>8</b>	<b>Erection of Superstructure &amp; GI nuts &amp; bolts</b>										
	Supply of all labour, T&P and erection of columns, beams & equipment supporting structure										
8.1	Total Switchyard Structure	MT	9.985	9.985	19.970		0.00		0.00	0.00	
8.2	Galvanised Nuts & Bolts	MT	0.940	0.940	1.880		0.00		0.00	0.00	
<b>9</b>	<b>Erection of 132KV Equipments</b>										
	Transportation of equipment from site store, erection as per the specification and instruction of the Engineer-in-Charge with supply of all Labour, T&P.										
9.1	SFB Circuit Breaker	Set	1	1	2		0.00		0.00	0.00	

Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2C-SS) ERECTION,TESTING & COMMISSIONING OF FOLLOWING EQUIPMENTS ALONG WITH CIVIL WORKS (As per Technical Specification)	UNIT	Quantity for Construction of 132 KV Bay Extension at 132/03 KV Sub-Station at AKKUISINGH.	Quantity for Construction of 132 KV Bay Extension at 132/03 KV Sub-Station at PARALAKEMUNDI.	NAME OF THE BIDDER					
						Total Quantity	Unit Erection Rate IN INR	Total Erection Price IN INR	Unit Service tax IN INR	Total Service tax IN INR
1	2	3	4	5	6	7	8	9	10	11
9.2	Single Isolator W/O Earth Switch	Set	1	1	2		0.00		0.00	0.00
9.3	Double Isolator With Earth Switch	Set	1	1	2		0.00		0.00	0.00
9.4	CT	Nos.	3	3	6		0.00		0.00	0.00
9.5	CVT	Nos.	3	3	6		0.00		0.00	0.00
9.6	LA	Nos.	3	3	6		0.00		0.00	0.00
9.7	Post Isolator	Nos.	2	2	4		0.00		0.00	0.00
9.8	132 kV Line Trap for Pedestal mounting with complete accessories :800A, 0.5 mH, (90-500KHZ), Isc=31.5kA compatible to IEC 353 specifications Incl. LMU & LMDU	Nos.	2	2	4		0.00		0.00	0.00
10	<b>Bus Bar Stringing with fixing of Insulator Strings &amp; Hardware including supply of labour and T&amp;P</b>						0.00		0.00	0.00
10.1	ACSR Zebra [Single]	Mtr	90	90	180		0.00		0.00	0.00
10.2	ACSR Zebra [Twin]	Mtr	84	84	168		0.00		0.00	0.00
11	<b>Jumpering to Equipments with fixing of Clamps &amp; Connectors including supply of Labour and T &amp; P</b>						0.00		0.00	0.00
11.1	ACSR Zebra [Single]	Mtr	175	175	350		0.00		0.00	0.00
11.2	ACSR Zebra [Twin]	Mtr	15	15	30		0.00		0.00	0.00
12	<b>Fixation of Insulator Strings including supply of labour and T&amp;P</b>									
12.1	132kV Single Suspension	Nos.	3	3	6		0.00		0.00	0.00
13	<b>Laying &amp; Termination of Cable</b>									
13.1	Preparation of Cable Schedule for 132kV Feder Bay	Bays	1	1	2		0.00		0.00	0.00
13.2	Laying of LT Aluminium Power Armoured cable including fixing of cable trays with terminal connections both at equipment and panels with supply and fixing of lugs, glands with crimping and clamps made of aluminium, fixing of cables on the trays with bolts and nuts, supply and fixing of PVC bend and pipes where required, excavation and laying under ground where required.									
13.2.1	4 Core x 16 mm2	km	0.07	0.08	0.150		0.00		0.00	0.00
13.3	Laying of Control Cables (unarmoured) including fixing of cable trays with terminal connections both at equipment and control panels with supply and fixing of lugs, ferrules with crimping and clamps made of copper for fixing of cables on the tray including bolts and nuts with supply and fixing of PVC bend and pipes where required									
13.3.1	24 Core x 2.5 mm2	km	0.05	0.04	0.090		0.00		0.00	0.00
13.3.2	12 Core x 2.5 mm2	km	0.18	0.16	0.340		0.00		0.00	0.00
13.3.3	10 Core x 2.5 mm2	km	0.09	0.07	0.160		0.00		0.00	0.00
13.3.4	7 Core x 2.5 mm2	km	0.65	0.55	1.200		0.00		0.00	0.00
13.3.5	4 Core x 2.5 mm2	km	0.87	0.89	1.760		0.00		0.00	0.00
13.3.6	2 Core x 2.5 mm2	km	0.03	0.02	0.050		0.00		0.00	0.00
14	<b>Installation of Control &amp; Relay Panels, RTCC Panels, ACDB / DCDB, Marshalling Boxes, Console Boxes etc. including transportation from site store.</b>						0.00		0.00	0.00
14.1	132kV Relay Panel [Simplex]	Nos.	1	1	2		0.00		0.00	0.00
14.2	132kV Control Panel [Simplex]	Nos.	1	1	2		0.00		0.00	0.00
14.3	CT Console Box	Nos.	1	1	2		0.00		0.00	0.00
14.4	CVT Console Box	Nos.	1	1	2		0.00		0.00	0.00
14.5	Bay Marshalling Kiosk	Nos.	1	1	2		0.00		0.00	0.00
15	<b>Earthing</b>						0.00		0.00	0.00
15.1	<b>Laying of Earth Mat (75x10 mm)</b> Supply of all materials (excluding GI Flats), T&P, labour, welding machine, welding generator, welding rods etc. and Laying of Earth Mat (with spacing not more than 5mtrs and burial at a depth of 700mm from the finished ground level) including excavation of earth, welding of flats, application of two coats of bituminous paint, wrapping of HT Tapes over it and back filling of earth.	Mtr	390	370	760		0.00		0.00	0.00
15.2	<b>Earthing Riser 50x6 mm</b> Supply of all materials (excluding GI Flats) for Connection of 50x6 mm size GI Flats from earth mat to equipment, structures, columns, fencing, cable trays etc. including welding, bending, application of two coats of bituminous paint, wrapping of HT Tapes over it, including labour and T&P.	Mtr	755	730	1,485		0.00		0.00	0.00
15.3	<b>Pipe Earthing</b> including excavation of earth, treatment of bentonite compound & back filling as per the specification, termination to earth mat riser by welding / nut bolting, application of anti-corrosive paint where necessary with supply of all materials (Excluding supply of 50mm dia, 3050mm length heavy gauge Earthing Pipe & 50x6mm GI Flats), labour and T&P.	Set	15	15	30		0.00		0.00	0.00
16	<b>Switchyard illumination conforming to relevant ISS as per instruction of the Engineer-in-charge</b>									

Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2C-SS) ERECTION,TESTING & COMMISSIONING OF FOLLOWING EQUIPMENTS ALONG WITH CIVIL WORKS (As per Technical Specification)	UNIT	Quantity for Construction of 132 KV Bay Extension at 132/33 KV Sub-Station at AKHUSUNGRH.	Quantity for Construction of 132 KV Bay Extension at 132/33 KV Sub-Station at PARALAKHEMUNDI.	NAME OF THE BIDDER					
						Total Quantity	Unit Erection Rate IN INR	Total Erection Price IN INR	Unit Service tax IN INR	Total Service tax IN INR
1	2	3	4	5	6	7	8	9	10	11
16.1	Installation of Fixtures & Lamps (LED / to match with the existing system) of reputed make (Philips/CGL/Bajaj) with switch gear,GI Conduit etc. with associated cabling including supply of bend and clamps, 3C x 4mm <sup>2</sup> PVC Aluminium Cable, 6 Amp MCB etc. with termination at both ends. (Lighting fixtures are to be fixed rigidly on the Column at a suitable height so that the required lux can be maintained).	Set	4	7	11		0.00		0.00	0.00
<b>17</b>	<b>Wire Mesh Fencing</b>									
17.1	Fixing of Chain Link Wire Mesh up to a height of 1.5mtr from the finished ground level / to match with the existing fencing system along with the Angles to be fixed at 2mtrs intervals with necessary jointing / welding as per the instruction of Engineer-in-charge including supply of Labour and T&P	Sqm	130	110	240		0.00		0.00	0.00
<b>18</b>	<b>Ancillary Works</b>									
i)	Dismantling of Light Poles inside Switchyard including breaking of foundations for the light poles.	Nos.	4	4	8		0.00		0.00	0.00
ii)	Dismantling of Street Light DB	Nos.	0	1	1		0.00		0.00	0.00
iii)	Re-erection of Street Light DB	Nos.	0	1	1		0.00		0.00	0.00
iv)	Dismantling of existing Wire Mesh Fence incl. Angles, Flats, Concrete & Brick Works	Mtr	50.00	48.50	98.50		0.00		0.00	0.00
v)	Supply and Spreading of Boulder including rolling with sand / morum filling with supply of all labour and T&P required for construction of Road	Cum	0.00	93.38	93.38		0.00		0.00	0.00
<b>TOTAL OF SUB-STATION-2C (PART-II)</b>										

**NOTE:**

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- Bidders are required to fill up only blue shaded cells.
- 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). No rate shall be furnished/obtained after bid opening (Ref clause no 33.4.1 of INB vol-I).
- Bidder has to quote rates excluding service tax (if any), service tax shall be paid/reimbursed as per conditions of Bid Document.

PACKAGE 30				ODISHA POWER TRANSMISSION CORPORATION LIMITED				
				NAME OF THE WORK:- Construction of 132 KV Feeder Bay Extensions in existing 132/33 KV Grid Sub-station at (1) AKHUSINGH,(2) PARALAKHEMUNDI and Conversion of 132 KV S/C Line to 132 KV D.C line on D.C Tower from the existing 132/33 KV S/S at AKHUSINGH to PARALAKHEMUNDI S/S (approximate length is 76.9 Km) & Associated System ON TURNKEY BASIS NOTICE INVITING TENDER-NIT NO. CPC-30 / 2013-14 & TENDER SPECIFICATION NO. Sr. G.M-CPC Tender-Package-30/2013-14(Akhusingh-Paralakhemundi)				
SCHEDULE-2C-ERECTION & CIVILWORKS (FOR TRANSMISSION LINE) (Equipment/Materials Price Break-up of Ex-works Prices against Package-30)								
Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2C-LINE) ERECTION, TESTING & COMMISSIONING OF FOLLOWING EQUIPMENT/MATERIALS ALONG WITH CIVIL WORKS (As per Technical Specification)	UNIT	QUANTITY for Construction of 220 KV LILC on existing Bolangir-Mangalpur 220 KV (L.L.C.) length: 0.2 Km approx.	Unit Erection Rate	Total Erection Price	Unit Service tax	Total Service tax	TOTAL Erection charges(including service tax) IN INR
				IN INR	IN INR	IN INR	IN INR	IN INR
1	2	3	4	5	6=4x5	7	8=4x7	9=6+8
<b>PART-A ELECTRICAL WORKS</b>								
1	Stringing of ACSR Panther Conductors including hoisting & fixing of insulators with required accessories, paying out, jointing, sagging, jumpering, scaffolding for 33 KV, 11 KV, LT, P&T lines, Roads and Railway lines etc. using required T&P and compression machines (AS PER SPECIFICATION).							
1.1	Stringing of 2nd Circuit (without Earth Wire) of 132kv Akhusingh-Paralakhemundi Line (1st Circuit in Charged Condition)	RKM	76.9		0			
2	Fixation of Tower Accessories							
2.1	Phase Plate	Nos.	828		0			
2.2	Circuit Plate	Nos.	276		0			
<b>TOTAL OF LINE-2C (PART-II)</b>					<b>0</b>			

**NOTE:**

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- 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). No rate shall be furnished/obtained after bid opening (Ref clause no 33.4.1 of INB vol-I) .
- 4 Bidder has to quote rates excluding service tax (if any), service tax shall be paid/reimbursed as per conditions of Bid Document.

<b>PACKAGE 30</b>		<b>ODISHA POWER TRANSMISSION CORPORATION LIMITED</b>
		NAME OF THE WORK:- Construction of 132 KV Feeder Bay Extensions in existing 132/33 KV Grid Sub-station at (1) AKHUSINGH,(2) PARALAKHEMUNDI and Conversion of 132 KV S/C Line to 132 KV D.C line on D.C Tower from the existing 132/33 KV S/S at AKHUSINGH to PARALAKHEMUNDI S/S (approximate length is 76.9 Kms) & Associated System ON TURNKEY BASIS.
		NOTICE INVITING TENDER-NIT NO. CPC-30 / 2013-14 & TENDER SPECIFICATION NO. Sr. G.M-CPC- Tender-Package-30/2013-14(Akhusingh-Paralakhemundi)
		<b>SCHEDULE-1(ABSTRACT OF PRICE SCHEDULE)</b>
	<b>NAME OF THE BIDDER</b>	
Sl.No.	DESCRIPTION OF SCHEDULES	PRICE IN INR



<b>PACKAGE 30</b>		<b>ODISHA POWER TRANSMISSION CORPORATION LIMITED</b> NAME OF THE WORK:- Construction of 132 KV Feeder Bay Extensions in existing 132/33 KV Grid Substation at (1) AKHUSINGHI,(2) PARALAKHEMUNDI and Conversion of 132 KV S/C Line to 132 KV D.C line on D.C Tower from the existing 132/33 KV S/S at AKHUSINGHI to PARALAKHEMUNDI S/S (approximate length is 76.9 Kms) & Associated System ON TURNKEY BASIS.  NOTICE INVITING TENDER-NIT NO. CPC-30 / 2013-14 & TENDER SPECIFICATION NO. Sr. G.M-CPC- Tender-Package-30/2013-14(Akhusingh-Paralakhemundi) <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 2A Line_Supply	
3	Discount on Schedule 3_Supply of Mandatory spares	
4	<b>TOTAL DISCOUNT ON SUPPLY CONTRACT PRICE</b>	0.00
5	Discount on Erection charges including service tax_Substation	
6	Discount on Civil works including service tax_Substation	
7	Total of discount on Schedule 2C_Substation_Erection & Civil works	0.00
8	Discount on Erection charges including service tax_Line	
9	Discount on Civil works including service tax_Line	
10	Total of Schedule 2C_Line_Erection & Civil works	0.00
11	<b>TOTAL DISCOUNT ON ERECTION CONTRACT PRICE</b>	0.00
12	<b>TOTAL OF DISCOUNT OFFERED</b>	0.00