					ER TRANSMISSIO WORK:-Constructio				langir district w	ith associated 1	32 KV LILO Li	ne from existi	ng 132 KV Bolang	ir-Saintala line. (Aj	pp. Line Length:
	PACKAGE 67(II)/2014-15			NOTICE INVIT	ING TENDER-NIT										
			NAME OF THE												
	SUBSTATION EQUIPMENTS / MATERIALS		BIDDER												
Sl. No.	DESCRIPTION OF TRASSOCIEDULE 2A-SS) SUPPLY OF OLLOWING GUINENT & AMATEMALS (As per Technical Specification)	UNITS	QUANTITY: for Construction of 2X20 MVA, 13233 KV 8/8, TUSURA (132 KV BayoG Nos: 02 FDR, 02 TRF& 01 B/C) & (33 KV Bay-07 No: 04 FDK, 02 TRF& 0 B/C)	Unit Ex-Works Price IN INR	Total Ex-Works Price IN INR	Unit F&I Charges IN INR	Total FAI Charges IN INR	Mode of Transaction (Direct or Bought-out item)	Unit Excise duty IN INR	UNIK VAT IN INR	Unit CST in INR	. Any other tax IN INR	Total Taxes and duises IN INR	Unit FORD Price IN INR	TOTAL FORD Price
1 1 2	2 145 KV.800-400-200 A.31.5 KASCARE SINGLE PHASE CURRENT TRANSFORMER (3 NOS PS CLASS & 1 NO. 0.2± CLASS) 145 KV.1250A.31.5KA.ISOLATORS	3 NOS	4	5	6=4X5 0.00	7	8=4X7 0.00	9	10	11	12	13	14 = 10+11+12+13 0.00	15x5+7+10+11+12+13 0.00	16=15x4 0.00
	SI WITH OUT EARTH SWITCH DI WITH SINGLE EARTH SWITCH DI WITHOUT EARTH SWITCH	NOS NOS NOS	9 2 2		0.00 0.00 0.00		0.00 0.00 0.00						0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
3	145 KV, 6600pF, 3CORE,SINGLE PHASE CAPACITOR VOLTAGE TRANSFORMER 120 KV METAL OXIDE SURGE ARRESTOR, 10 KA, Class III	NOS NOS	6		0.00		0.00						0.00	0.00	0.00
6 7	145 KV, 2 CORE, SINGLE PHASE, IVT 132 KV Bus Post Insulators 145KV, 3150A, 40KA, SF6, CIRCUIT BREAKER WITH SUPPORTING	NOS	3 16 5		0.00 0.00 0.00		0.00 0.00 0.00						0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
7.1	STRUCTURE 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
7.2	36 KV, 800-400-200, 25KA, 4 CORE SINGLE PHASE CURRENT TRANSFORMER (3 NOS PS CLASS & 1 NO. 0.2# CLASS)	NOS	6		0.00		0.00						0.00	0.00	0.00
8	36 KV CLASS NCT FOR POWER TRANSFORMER REF PROTECTION (RATID 800-400-200 A) & HAVING TWO CORE (PS CLASS) (N EACH POWER TRANSFORMER 132 KV SIDE: 1 NO. & 33 KV SIDE: 1 NO.) 36 KV,1230A,25KA,ISOLATORS	NOS	4		0.00		0.00						0.00	0.00	0.00
9.1 9.2 9.3 9.4	S/I WITH OUT EARTH SWITCH D/I WITH SINGLE EARTH SWITCH	NOS NOS NOS	8 4 2 2		0.00 0.00 0.00 0.00		0.00 0.00 0.00 0.00						0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
9.4 10 11 12	SI WITH BEAM MOUNTED 30 KV, METAL OXIDE SURGE ARRESTOR, 10KA, class II 36 KV.2 CORE.SINGLE PHASE.WTT1 core 3P & other core 0.2s) 36KV,1250A,25KA,VACUUM CIRCUIT BREAKER WITH SUPPORTING	NOS NOS	2 24 3		0.00		0.00						0.00	0.00	0.00
13 14	STRUCTURE 33 KV Bus Post Insulators BUS BAR & CIRCUIT MATERIALS	NOS	7		0.00		0.00						0.00	0.00	0.00
14.1 14.1.1	TENSION & SUSPENSION ANTI FOG TYPE INSULATOR STRING 120 kN ANTIFOG INSULATOR STRINGS for Double Moose cond (TENSION)-132 kV	NOS	1,080		0.00		0.00						0.00	0.00	0.00
14.1.2 14.2 14.3	90 kN ANTIFOG INSULATOR STRINGS for Double/ Single Moose cond (SUSPENSION)-132 KV ACSR MOOSE CONDUCTOR	NOS KMS	240 4		0.00		0.00						0.00	0.00	0.00
14.3.1 14.3.2	HARDWARES & FITTINGS/SPACERS/CLAMP & CONNECTORS 132 KV Double Tension H/W fitting suitable for twin ACSR Moose . 132 KV Single Tension H/W fitting suitable for twin ACSR Moose .	NOS NOS	18 0		0.00		0.00						0.00	0.00	0.00
14.3.2 14.3.3	132 KV Single suspension HW fitting suitable for single ACSR Moose. 132 KV Single Tension HW fitting suitable for single ACSR Moose. 33 KV Single Tension HW fitting suitable for single ACSR Moose.	NOS NOS NOS	15 30 45		0.00 0.00 0.00		0.00 0.00 0.00						0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
14.3.5 14.3.6	33 KV Single Suspension H/W fitting suitable for single ACSR Moose = 27 Nos. 33 KV Single Tension H/W fitting suitable for twin ACSR Moose = 18 Nos.	NOS NOS	27		0.00		0.00						0.00	0.00	0.00
14.3.8 14.3.9	132 KV 'T Clamp for single moose run with single moose ACSR drop 132 KV 'T Clamp for twin moose run with single moose ACSR drop 33 KV 'T Clamp for single moose run with single moose ACSR drop	NOS NOS	72 15 78		0.00 0.00 0.00		0.00 0.00 0.00						0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
'14.3.11 '14.3.12	33 KV T Clamp for twin moose run with single moose ACSR drop 132 KV PI Clamp 132 KV LA Clamp 132 KV LA Clamp	NOS NOS NOS	39 14 12 12		0.00 0.00 0.00 0.00		0.00 0.00 0.00 0.00						0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
'14.3.14 '14.3.15	132 KV CVT Clamp 132 KV WT Clamp 132 KV CT Clamp 132 KV WT Clamp	NOS NOS NOS	0 30		0.00 0.00 0.00		0.00 0.00 0.00 0.00						0.00	0.00	0.00 0.00 0.00
'14.3.17 '14.3.18	132 KV VI Camp 33 KV Pi Clamp 33 KV Isolator pad clamp	NOS NOS NOS	30 7 114		0.00 0.00 0.00		0.00 0.00 0.00						0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
'14.3.20 '14.3.21	33 KV LA Clamo 33 KV CT Clamp 33 KV IVT Clamp	NOS NOS NOS	24 42 3		0.00 0.00 0.00		0.00 0.00 0.00 0.00						0.00 0.00 0.00	0.00	0.00 0.00 0.00
'14.3.23 '14.3.24 '14.3.25	33 KV CB Clamp Spacer for Twin bus ACSR 132 KV bus	NOS NOS	42 15 16		0.00 0.00 0.00		0.00 0.00 0.00						0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
14.4.1	FOR 33 KV SIDE: 19 NOS @ 5 MTRS EACH	SET SET	22 19		0.00		0.00						0.00	0.00	0.00
14.5 14.5.1	SUBSTATION EARTHING SYSTEMS EARTHING CONDUCTOR FOR BURRIAL : 75X10 mm GI Flat for laying (spacing maximum 5m both way)	MT	30		0.00		0.00						0.00	0.00	0.00
14.5.2 14.5.3	EARTHING CONDUCTOR: 50X6 mm GI Flat for Raiser from the burial earth mat to equipment structure etc) EARTHING DEVICE & ASSOCIATED ACCESSORIES (50 mm heavy duty GI	MT NOS	8		0.00		0.00						0.00	0.00	0.00
14.5.4	PERFORATED PIPE 3 mtrs long for treated earth citi EARTHING DEVICE & ASSOCIATED ACCESSORIES 40mm MS rod 3 mtrs long for non treated earth citi	NOS	70		0.00		0.00						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.	MTRS	1400		0.00		0.00						0.00	0.00	000
14.6.2	G.I Cable Trays(size: 450x75x2500mm) G.I Cable Trays(size: 300x75x2500mm) G.I Cable Trays(size: 150x75x2500mm) Support G. Lande 50x500m mm for cable tray	MTRS MTRS MT	2000 1300 2.5		0.00 0.00 0.00		0.00 0.00 0.00						0.00	0.00	0.00 0.00 0.00
14.7	Sub STATION SWITCYARD BMK, AC CONSOLE & OTHER MARSHALLING BOXES 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
	SWITCH YARD AC CONSOLE FOR LIGHTING (01 Nos 132 kv bay & 01 No in 33KV bay) SWITCH YARD RECEPTACLE BOARD FOR TFR OIL FILTERATION	NOS	2		0.00		0.00						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	0.00	0.00
15	CT, PT & CVT Out Door Console Boxes (132 KV CT-4 Nos.+1 No., 33 KV CT- 8 Nos., 132 KV CVT-1 No., 13 KV IVT-1 No. SWTCH YARD STRUCTURES COLUMN & BEAM (LATTICE TYPE) FOR 132/33 KV CLASS INCLUDING FOUNDATION BOLTS & NUTS.	NOS	17		0.00		0.00						uu		0.00
15.1.1	DIFFERENT TYPES OF COLUMNS WITH DETAILS T15 - 132 KV(NOMINAL UNIT WT- 1.2 MT) = 16 Sets. T4S - 132KV (NOMINAL UNIT WT- 0.92 MT) = 6 Sets. T4S - 230/UCMINAL UNIT WT- 0.92 MT) = 6 Sets.	NOS NOS	16 5												
15.1.4	T9S - 33KV/NOMINAL UNIT WT- 0.6 MT) = 11 Sets. DIFFERENT TYPE OF BEAMS WITH DETAILS	NOS NOS	9 11 11												
15.2.1 15.2.2 15.2.3 15.2.4	G1 - 132 KV(NOMINAL UNIT WT-0.58 MT) = 11 Sets. G1X - 132 KV (NOMINAL UNIT WT-0.582 MT) = 5 Sets. G2 - 132 KV(NOMINAL UNIT WT-0.9 MT) = 04 Sets G1,2 - 132 KV(Each two beams of G1 type) (NOMINAL UNIT WT-1.25 MT) =	NOS NOS	5 4												
15.2.5	G1.2 + 132 KV(Each two beams of G1 type) (NUMINAL UNIT W1 + 1.25 M1) = Nil G6 - 33KV (NOMINAL UNIT WT + 0.36 MT) = 03 Sets. G4 - 33KV(NOMINAL UNIT WT + 0.3 MT) = 9 Sets.	NOS NOS	0 3 9												
15.2.7	G4X - 33KV (NOMINAL UNIT WT-0.52 MT) = 02 Sets. TOTAL WEIGHT OF COLUMN & BEAM SWITCH YARD EQUIPMENT STRUCTURES (LATTICE TYPE) FOR 132/33	MOS	2 61.20		0.00		0.00						0.00	0.00	0.00
15.4.1 15.4.2 15.4.3	S.I. WITHOUT E/S (Unit weight - 658.767 Kg) = 9 Nos. D.I. WITHOUT E/S (Unit Weight - 979.10 Kg) = 2 Nos.	NOS NOS	9 2												
15.4.5	D.I. WITH E/S (Unit Weight - 1120.559 Kg) = 2 Nos. ISOLATORS-33 KV S.I. WITHOUT E/S (Unit weight - 294.893 Kg) = 8 Nos. D.I. WITHOUT E/S (Unit weight - 254.893 Kg) = 8 Nos.	NOS	2												
15.4.8 15.4.9	D.I. WITHOUT E/S (Unit weight - 655.764 Kg) = 2 Nos. D.I. WITH E/S (Unit weight - 670.555 Kg) = 4 Nos. CTS-132 KV (Unit Weight - 214.546 Kg) = 15 Nos . CTS-33 KV (Unit Weight - 148.80 Kg) = 21 Nos	NOS NOS NOS	4 15												
'15.4.11 '15.4.12	CTS-33 KV (Unit Weight - 148.80 Kg) = 21 Nos CVTS-132 KV (Unit Weight - 236.628 Kg) = 6 Nos. IVTS-132 KV (Unit Weight - 231.195 Kg) = 3 Nos IVTS-33 KV (Unit Weight - 124.336 Kg) = 3 Nos	NOS NOS NOS	21 6 3												
15.4.13 15.4.14 15.4.15	IV IS-33 KV (Unit Weight - 124.338 Ka) = 3 Nos Surge Arrester-132 kV (Unit Weight - 179.893 Kg) = 12 Nos . Wave Trap-132 KV (Unit Weight - 247.254 Kg) = 4 Nos.	NOS NOS	3 12 4												
'15.4.16 '15.4.17	BPI-132 KV (Unit Weight - 309.883 Kg) = 16 Nos. BPI-33 KV (Unit Weight - 148.80 Kg) = 7 Nos NOTTO (Unit Weight - 148.80 Kg) = 7 Nos	NOS NOS	16 7												
'15.4.18	NCTS (Unit Weight - 138.24 Kg) = 4 Nos TOTAL WEIGHT OF EQUIPMENT STRUCTURE Total weight of GI Nuts and bolts for the above Column, Beam &	MOS MT MT	4 40.047 12.5		0.00		0.00						0.00	0.00	0.00
16 16.1	Structures GENERAL EQUIPMENT & SUBSTATION ACCESSORIES POWER CABLES,1.1KV,XLPE/PVC ARMOURED, ALUMINIUM														
16.1.2 16.1.3	XLPE 3.5 CX300 mm ² XLPE 3.5 CX185 mm ² XLPE 3.5 CX120 mm ²	MTRS MTRS MTRS	500 300 200		0.00 0.00 0.00		0.00 0.00 0.00						0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
16.1.4	PVC 3.5 CX70 mm ² PVC 3.5 CX35 mm ²	MTRS	600 1500		0.00		0.00						0.00	0.00	0.00

2010	2	LITTO O	4000	0.00	 0.00			0.00	0.00	0.00
'16.1.7	PVC 4 CX 16 mm ² PVC 4 CX 6 mm ²	MTRS	1000 3500	0.00 0.00	0.00			0.00	0.00	0.00
16.1.8	PVC 2CX 6 mm ² CONTROL CABLES,1.1 KV, PVC,STRANDED COPPER(As per	MTRS	2000	0.00	0.00			0.00	0.00	0.00
16.2.1	specification) 2 CX 2.5 mm2	MTRS	5000	0.00	0.00			0.00	0.00	0.00
16.2.2	4 CX 2.5 mm ² 5 CX 2.5 mm ²	MTRS	16000 4000	0.00	0.00			0.00	0.00	0.00
16.2.4	7CX 2.5 mm ²	MTRS	9000	0.00	0.00			0.00	0.00	0.00
16.2.6	10 CX 2.5 mm ² 12 CX 2.5 mm ²	MTRS MTRS	10000 9000	0.00 0.00	0.00			0.00	0.00	0.00
16.2.7	16 CX 2.5 mm ² 19 CX 2.5 mm ²	MTRS	5000 2000	0.00	0.00			0.00	0.00	0.00
16.2.9	1CX 120 mm ² BAT TO BAT CHARGER & CHARGER TO DCDB ACCESSORIES FOR PLCC SYSTEM AS PER TECHNICAL	MTRS	600	0.00	0.00			0.00	0.00	0.00
17.1	SPECIFICATION									
17.1	132 kV Line Trap for Pedestal mounting with complete accessories :1200A, 0.5 mH, (90-500kHZ).lsc=31.5kA compatible to IEC 353 specifications	NOS	0	0.00	0.00			0.00	0.00	0.00
'17.2	LINE MATCHING UNIT HAVING BUILT-IN PROTECTIVE DEVICES LIKE DRAINAGE COL, SURGE ARRESTOR AND EARTH SWITCH, TUNABLE									
	BAND PASS COUPLING FILTER: 90-500KHZ. HF POWER RATING: 650 W & LINE MATCHING DISTRIBUTION UNIT	SET	0	0.00	0.00			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	MTRS	0	0.00	0.00			0.00	0.00	0.00
'17.4	Resistance: 100 weg Omms Dielectric strength: 5 kV, Signal attenuation: 6 IRKM (Max) at 500 kHz EPAX standard complied to ITU-T, G-711,G-712,Q507,Q-517 capacity	MIKO	0	0.00	0.00				0.00	0.00
17.4	EPAX standard compiled to TIO-1, G-712,GS07,G-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
'17.5 '17.5	25PAIR ARMOURED TELEPHONE CABLES	MTRS	1000	0.00	0.00			0.00	0.00	0.00
'17.6	10 PAIR ARMOURED TELEPHONE CABLES 4 PAIR NON ARMOURED TELEPHONE CABLES	MTRS	500 300	0.00	0.00			0.00	0.00	0.00
'17.8	2 WIRE TELEPHONE SET FAX MACHINE	NO NO	20	0.00	0.00			0.00	0.00	0.00
'17.9 '17.10	48 V, 350 AH, maintenance free VRLA Battery set. 75A, 48V Float cum Boost Charger: (Float/Boost current as recommended by	SET SET	1	0.00	0.00			0.00	0.00	0.00
'17.11	VRLA Battery vendor) 48 V DCDB	SET	1	0.00	0.00			0.00	0.00	0.00
18	SUPPLY OF STATION TRANSFORMER & OTHER MATERIALS FOR MEETING THE AUXILIARY SUPPLY OF THE SUB-STATION AS PER									
18.1	TECHNICAL SPECIFICATION									
18.2	STATION TRANSFORMER 33KV/433V,250 KVA (AS PER SPECIFICATION)	NOS	2	0.00	0.00			0.00	0.00	0.00
	Supply of materials for erection of station transformers									
18.2.1	DP STRUCTURE: each set shall comprise of [2X 9.0 Mtrs (ISBM:200X100 mm(min) RS Joist(beam) with bracings of suitable	SET	2	0.00	0.00			0.00	0.00	0.00
	channels(ISMC 75X40) & angles (L50X50X6) & different size Steel plate of 10 mm thick etc].									
18.2.2	33 KV AB SWITCH IN 33 KV SIDE(600AMP) including required GI	SET	2	0.00	0.00			0.00	0.00	0.00
18.2.3	pipe(horizontal & vertically down) & handle for operation of AB switch HG fuse set for 33 KV side of the Station transformer including base(each set									
	comprises three single HG fuse)	SET	2	0.00	0.00			0.00	0.00	0.00
18.2.4	OUT DOOR KIOSK MADE OUT OF 3mm thick CRCA steel duly galvanised having gland plates OR BETTER quality WITH 3 NOS. OF CUT-OUTS(1000									
	AMPS) AT THE INCOMING SIDE , 1No. OF 3 PHASE SFU (500AMPS) AT THE OUTGOING SIDE AND SUITABLE BUS BAR ARRANGEMENT FOR	SET	2	0.00	0.00			0.00	0.00	0.00
	TERMINATION of incoming cable from transformer & outgoing cable to Main ACDB.									
19	SUB STATION LIGHTING (AS PER SPECIFICATION AND APPROVED DRAWINGS)(Switch yard and other street area)									
'19.1	SUB-STATION SWITCH YARD LIGHTING,IT INCLUDES SUPPLY OF FIXTURES & LAMPS (LED) of reputed make (Philips/CGL/Bajaj) with switch	SET	40	0.00	0.00			0.00	0.00	0.00
19.2	gear etc.(Lighting fixtures are to be fixed rigidly on the Column at a suitable height so that the required lux can be achieved.(150 watt each)									
19.2	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).(100 watt each)									
19.2.1	LED LIGHTING FIXTURESincluding LAMPS of reputed make									
	LED LIGHTING FIXTURESincluding LAMPS of reputed make (Philips/CGL/Bajaj).(100 watt each) for Street Light.	SET	20	0.00	0.00			0.00	0.00	0.00
19.2.2	GI Tubular Pole: (410-SP-24: IS 2713-Part-II-1980 or latest) Length of pole 8.5 mtrs(minimum weight 158 Kgs).									
		SET	20	0.00	0.00			0.00	0.00	0.00
	GLUNCTION BOX WITH BUITABLE COVERS AT A HEIGHT OF 1 METRE FROM THE GROUND. THE JUNCTION BOX SHALL HAVE PROVISION OF FUSES, BUSES, CONNECTORS FOR CALL FIN AND OUT									
19.2.3	STREET LIGHT HAVING 2 NOS 200 AMP SWITCH FUSE LINITS AND 10	Nos	1	0.00	0.00			0.00	0.00	0.00
'19.3	NOS. OUT LETS OF 32 AMP MCB. OUTDOOR KIOSK of 3 mm thick CRCA sheet duly hot dip galvanised FOR COLONY SUPPLY PURPOSE: HAVING 2 NOS 200Amp SWITCH FUSE UNIT. 10 NOS. OUTLETS OF									
	SUPPLY PURPOSE: HAVING 2 NOS 200Amp SWITCH FUSE UNIT. 10 NOS. OUTLETS OF 32 A MCB.	Nos	1	0.00	0.00			0.00	0.00	0.00
	AIRCONDITIONING 2 TR CAPACITY 5-STAR rated SPLIT AIR CONDITIONING UNITS WITH									
	REMOTE CONTROL FACILITY: (AS PER SPECIFICATION) FOR CONTROL ROOM. CARRIER ROOM & CONFERENCE ROOM.	SET	20	0.00	0.00			0.00	0.00	0.00
'20.2	A.C. VOLTAGE STABILISER 5KVA, Voltage range 130-270 V for above air conditioner	SET	20	0.00	0.00			0.00	0.00	0.00
21	FIRE FIGHTING SYSTEM(PORTABLE AND WHEEL MOUNTED SETS FOR CONTROL ROOM, EQUIPMENT LIKE TRANSFORMER AND OTHER									
	AREAS AS PER TECH SPEC(REFR TS-INST TO BIDDER BEFORE DESIGN-SL NO 16-ANNEXURE - I)									
21.1	FOAM TYPE-9 LTRS DRY CHEMICAL POWDER(TROLLEY MOUNTED)- 22.5 KGS	NOS NOS	4 4	0.00	0.00			0.00	0.00	00.0
21.3	DRY POWDER TYPE - 5 KGS CO2 - 4.5 KGS	NOS NOS	4	0.00	0.00			0.00	0.00	0.00
'21.5	CO2-9 KGS	NOS	10	0.00	0.00			0.00	0.00	0.00
	CO ₂ (TROLLY MOUNTED)- 22.5 KGS Water type- 9 LTRS	NOS NOS	4	0.00	0.00			0.00	0.00	0.00
'21.8	Foam type - 50 LTR FIRE BUCKET (6 NOS IN EACH STAND) WITH STAND	NOS SET	2	0.00	0.00			0.00	0.00	0.00
22	PROTECTION,CONTROL METERING, EVENT LOGGER,BUS BAR PROTN PAN.COMM PAN. RELAY TOOL KITS AS PER TECH SPEC									
"22.1 "22.2	PAN.COMM PAN. RELAY TOOL KITS AS PER TECH SPEC TIME SYNCH EQUIPMENT EVENT LOGGER PANEL	NOS NOS	1	0.00	0.00			0.00	0.00	0.00
*22.3	EVENT LOGGER PANEL 132 KV SIDE (SIMPLEX TYPE PANEL) SEEDER CONTROL DANEL	NOS		0.00	0.00			0.00	0.00	0.00
22.3.1	FEEDER CONTROL PANEL TRANSFORMER CONTROL PANEL(FOR 132 KV SIDE OF 132/33 KV	NOS	2	0.00	0.00			0.00	0.00	0.00
22.3.3	POWER TRANSFORMER) BUSCOUPLER CONTROL PANEL	NOS	1	0.00	0.00			0.00	0.00	0.00
22.3.4 22.3.5	FEEDER RELAY PANEL TRANSFORMER RELAY PANEL(FOR 132 KV SIDE OF 132/33 KV POWER	NOS	2	0.00	0.00			0.00	0.00	0.00
22.3.6	TRANSFORMER) BUSCOUPLER RELAY PANEL	NOS	1	0.00	0.00			0.00	0.00	0.00
22.4	COMMON PANEL (KP-1) 33 KV SIDE	NOS		0.00	0.00			0.00	0.00	0.00
22.4.1	FEEDER CONTROL & RELAY PANEL TRANSFORMER CONTROL & RELAY PANEL	NOS	4	0.00	0.00			0.00	0.00	0.00
22.4.3	BUSCOUPLER CONTROL & RELAY PANEL AC & DC SYSTEM	NOS	1	0.00	0.00			0.00	0.00	0.00
23.1	AC SYSTEM MAIN AC DB (HAVING 800 A 50KA DRAWOUT TYPE ACB WITH 3 O/C.									
	E/F, U/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
23.1.2	ACDB (HAVING 400A MCCB) AS PER SPECIFICATION (AC DB-1, AC DB-2 WITH R/C)	SET	1	0.00	0.00			0.00	0.00	0.00
23.1.3	MAIN LIGHTING DISTRIBUTION BOARD (HAVING 250A MCCB AS	SET	1	0.00	0.00			0.00	0.00	0.00
23.1.4	INCOMERIAS PER SPECIFICATION (WITH DB-1, DB-2 & B/C) 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
23.1.5 23.1.6	EMERGENCY LIGHTING DISTRIBUTION BOARD INDOOR RECEPTACLE BOARD	SET SET	1	0.00 0.00	0.00 0.00			0.00	0.00	0.00
23.2 23.2.1	DC SYSTEM 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
23.2.3	220 V DC EMERGENCY DISTRIBUTION BOARD BATTERY (350 AH PLANTE TYPE) FOR 220 V DC	SET SET	1	0.00 0.00	0.00 0.00			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	0.00	0.00
24 25	USTLED WATER PLANT OF 10 LTR/HR FOR BATTERY BANKS WALKIE TALKIE SET	SET/	2	0.00	0.00			0.00	0.00	0.00
	PORTABLE ALUMINIUM LADDER EXTENDABLE TYPE OF ADEQUATE	PAIR	2		0.00				0.00	
	HEIGHT TO BE USED FOR MAINTENANCE OF EQUIPMENT INSIDE SWITCH YARD.	NOS	2	0.00	0.00			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	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	0.00	0.00
29 30	WATER COOLER WITH WATER PURIFIER SYSTEM MAINTENANCE TESTING EQUIPMENT (AS PER ANNEXURE - I	NOS	1	0.00	0.00			0.00	0.00	0.00
	INDICATED IN TS-TIMK-SCHEDULE OF REQUIREMENTS OF MAINTENANCE FOURPMENTS	SET	1	0.00	0.00			0.00	0.00	0.00
31	ANNEXURE - II INDICATED IN TS-TIMK-SCHEDULE OF REQUIREMENT	SET	1	0.00	0.00			0.00	0.00	0.00
32	OFFICE FURNITURE (AS PER ANNEXURE - III ,INDICATED IN TS-TIMK-	_								
	SCHEDULE OF REQUIREMENTS OFFICE FURNITURE)>PLACING IN CONTROL ROOM,CONFERENCE ROOM, OFFICE ROOMS, LIBRARY,	SET	1	0.00	0.00			0.00	0.00	0.00
33	TESTING LAB. etc. BEST QUALITY & APPROVED MAKE RUBBER MAT TO BE KEPT INFRONT		67					0.55		0.02
	OF ALL PANELS.BOARDS ETC.(2000X1000X10)mm Size	NOS	35	0.00	0.00			0.00	0.00	0.00
	TOTAL OF SUPPLY FOR SUBSTATION TRANSMISSION LINE EQUIPMENTS / MATERIALS									0.00
Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2A-LINE)	UNITS	8 2 8 S							

			OUATTIY: for Construction of 1; KVLIID Line from existing 132 K Bohagi Sainhal line to the propose 1223 SUC Grid Substance TUSUJ 1223 SUC Grid Substance TUSUJ (App. Line Longth: 14.8Kms.)	Unit Ex-Works Price IN INR	Total Ex-Works Price IN INR	Unit F&I Charges IN INR	Total Fål 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 14 = 10+11+12+13	Unit FORD Price IN INR	TOTAL FORD Price
1	2 UPPLY of Following type tassed Lattice pape Galvanized seel tangent / Angle tower with sales and clears, different type of CLHT Nets & Bolts, washer, approprimation books. Supply of tack biuminous pains for these casts op to a height of Stolman above the cooping/lags & tracking members]. All Supply should confirm to the Technical Specification.	3	4	5	6=4X5	7	8=4X7	9	10	11	12	13	14 = 10+11+12+13	1545+/+10+11+12+13	16=15x4
1.2.1	PA TYPE (SUPERVICAL TYPERS Removal and several 14/36 MT (H nos) 4.5 EXTENSION Removal and several 14/36 MT (H nos) 4.6 EXTENSION Removal and several 14/36 MT (F nos) PA TYPE (2014 April (k) 1 TOWERS Removal and several 14/37 MT (H nos) 4.1 EXTENSION Removal and several 14/18 MTH (nos) 4.1 EXTENSION Removal and several 14/18 MTH (nos) 6.1 EXTENSION Removal and the several 14/18 MTH (nos) 6.1 EXTENSION Removal 14/18 MTH (nos) 6.1 E	Nos. Nos. Nos. Nos. Nos. Nos.	39 12 4 5 2 0 14												
1.3.1 1.3.2 1.4 1.4.1 1.4.2	A B ETTENSION (Netroins) and water 1 (28 MT) (17 cm) de EXTENSION Netronal and water 2 (20 MT) (2 mo) TAPPATES PA Notional and water 0.655 MT] 4 Nos.) PB Notional and water 0.655 MT] 4 Nos.) PB Notional and water 0.651 MT1 Nos.) PC Notional and water 0.651 MT1 Nos.)	Nos. Nos. Nos. Nos. MT	5 0 4 1 2 279.10		0.00		0.00						0.00	0.00	0.00
1.7 2.0 2.1 2.2 2.3 2.4	Vesicit of attriner too G Maa and bolis Boophy of the following lower accessories as per technical specification and as directed by the antihear in cleance. EXPTMENT REVIEW CONTRACTOR Sector Secto	MT Nos. Nos. Nos.	14 64 64 64 354		0.00 0.00 0.00 0.00 0.00 0.00		0.00 0.00 0.00 0.00 0.00 0.00 0.00						0.00 0.00 0.00 0.00 0.00	0.00	0.00 0.00 0.00 0.00 0.00 0.00
2.5 2.6 2.7 2.8 3.0	BID CURRD ARTICLARENO DE VICE CIRCUTPATE CONTERPORTS FARTHING Supply of following POWER CONDUCTORS in the proposed 132 VY lines with provision for say and weating a say per the technical specification and as per the	Nos. Nos. Nos.	234 64 120 0		0.00 0.00 0.00 0.00		0.00 0.00 0.00						0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
414	Arcise Point-Re Point-Re Point-Re Point-Re Point-Re Construction ArcEssoreies Point-Re Construction ArcEssoreies Point-Re Point-Re Point-R	Kms. Nos. Nos. Nos. Nos.	90.6 612 90 45 270		0.00 0.00 0.00 0.00 0.00		0.00 0.00 0.00 0.00 0.00						0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
4.1.5 5.0 6.1 6.2 6.3	FIG CLAMP FOR ACSR PARTER FIG CLAMP FOR ACSR PARTER Supply of the Garman wine of sub 71.15 mm as per the technical specification, with Supply of the Garman and Supply	Nos. Kms. Nos. Nos. Nos.	0 15.1 100 96 39 19		0.00 0.00 0.00 0.00 0.00 0.00		0.00 0.00 0.00 0.00 0.00 0.00						0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
6.4 6.5 6.6 7.0 7.1 7.2 8.0	TENEOR CLAMP MID SPAN COMPRESSION JOINT REPAR & EDVE Supply of the following. And fog type disc insulators as per the technical specification and as per the instruction of the Engineer in charge. Di Altimataria Di Altimataria Di Altimataria Supply of the following hard wave fittings suitable for ACSR Parther conductors as per	Nos. Nos. Nos. Nos.	19 10 5 2390 2772		0.00 0.00 0.00 0.00 0.00		0.00 0.00 0.00 0.00 0.00						0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
8.1 8.1.1 8.1.2 8.1.3 8.1.4 8.1.5	Double suspension Hard wares fittings (AGS type) suitable for 90 KN insulator. Single rension Hard wares fittings suitable for 120 KN insulator. Double tension Hard wares fittings suitable for 120 KN insulator. 10° Shackle	Nos. Nos. Nos. Nos. Nos.	234 0 216 48 114		0.00 0.00 0.00 0.00 0.00		0.00 0.00 0.00 0.00 0.00						0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
8.1.6 8.1.7 9.0 9.1 9.2	1/Boit 24 Fibre/OWSMOPGW fibre Oosic Cable OPGW hardware set like suspension Asambly,Tensin Assembly/Dead end assembly, Pass through assembly, Wohation Damper,Down Lead Clamp Assembliedro 24 Fibre/INVSMID OPGW Juliet Rev	Nos. Nos Kmtr Kmtr	234 0 14 14		0.00 0.00 0.00 0.00		0.00 0.00 0.00 0.00						0.00	0.00 0.00 0.00 0.00	00.0 00.0 00.0 00.0 00.0
9.3 9.4	FDDPF/frate Optic Distribution Panel/48 F: hodory type, rack mounted with FDPC counting and to talkit/UXPs mit. Fibre) Fibre Optic Approach cabling/including Installation hardwarelike tracicipalcidad; counds.udcst. supports filtings, accessione et for 24 fibre Optical line Terminal Equipment(OLTE) / Fibre Optic Transmission System(FDTS)/STM4 type including MUX having provision for tributary cands to 2 nos speech post, situburg and for Protection(FCE commodation 343)	No Kmtr	1		0.00		0.00						0.00	0.00	00.0
9.5 9.6	1.) & 2 nos Data ports (V24V/28) for interfacing with Speech, Protection & data which should be compatible with existing OPTCL system Telephone set suitable for interfacing with OLTE / FOTS TOTAL OF SUPPLY FOR TRANSISSION LINE: MANDATORY SPARES	No No	4		0.00		0.00						0.00	0.00	0.00 0.00 0.00
SL No.	DESCRIPTION OF TRANSSCRIPTLE-3) SUPPLY OF MANDATORY SPACES FOR THE FOLD OWNER QUEPMENTS. (A) per Technical Specification 2	Unit 3	TOTAL QUANTITY 4	Unit Ex-Works Price IN INR 5	Total Ex-Works Price IN INR 6=5x4	Unit F&I Charges IN INR 7	Total F&I Charges IN INR 8::7x4	Mode of Transaction (Direct or Bought-out item) 9	Unit Excise duty IN INR 10	Unit VAT IN INR 11	Unit CST in INR 12	Any other tax IN INR 13	Total Taxes and daties IN INR 14=10+11+12+13	Unit FORD Price IN INR 15::5+7+10+11+12+13	TOTAL FORD Price IN INR 16=15x4
1	145 KV,(800-400-200 A),31.5KA,4CORE SINGLE PHASE CURRENT TRANSFORMER INCLUDING TERMINAL CONNECTOR 145 KV,1250A,31.5KA,4SOLATORS	NOS	2		0.00		0.00						0.00	0.00	0.00
2.1 2.2 2.3 2.4 2.5	MULE & FERNALE CONFACTS POWER CONTACTOR ELVIS MOLE SWITCHES / USES PUBH BUTTORE, RESISTORS ETC AS PER APPROVED SCHEMATIC. LIAIT SWITCH LIAIT SWITCH MOTOR WITH GENA ASSEMBLY A BEVEL MOTOR WITH GENA ASSEMBLY	SET SET SET SET SET	1 1 2 1		0.00 0.00 0.00 0.00 0.00		0.00 0.00 0.00 0.00 0.00						0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
2.6 2.7 2.8 3	EARTHNO ROD & BLADE CONTACT SIDE HINGE PINS TERMINIL CONNECTOR TERMINIL PAD POST INSULATOR SUPPORT 145 FV 2000F SUPPORT	SET SET (3NOS. PER SET) NOS	1 1 1		0.00 0.00		0.00						0.00	0.00	0.00 0.00
4 5 6 7 7.1	CAPACITOR YOU TAGE TRANSPONDER ACLIENTS COMPETTOR TO YAVIETI, CAPITOR IN A. CLASS IN SURGE ARRESTOR, COMPETTAR WITH VIS AND COMPETANCE AND CAPITAL AND COMPETANT AND AND SEAS VI COMPETANCE PARAMETERIA 19 VI CAPITAL AND CAPITAL AND CAPITAL AND CAPITAL AND CAPITAL 19 VI CAPITAL AND CAPITAL AND CAPITAL AND CAPITAL 19 VI CAPITAL AND CAPITAL AND CAPITAL AND CAPITAL AND CAPITAL 19 VI CAPITAL AND CAPITAL AND CAPITAL AND CAPITAL AND CAPITAL AND CAPITAL 19 VI CAPITAL AND CAPITAL	NOS NOS NOS	1 2 1 2 1		0.00 0.00 0.00 0.00 0.00 0.00		0.00 0.00 0.00 0.00 0.00 0.00						0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
7.2 7.3 7.4 7.5 7.6 7.7	SPRING OWEGINE WOTCH BEERER AULULUEV CONTACTS POWER CONTACTORS RELAYAMOBIL SWITCHES FLESS RUH BUTTORS, RESISTORS PRESSURE SWITCHES, LIMIT SWITCHES, TLESS RUH BUTTORS, RESISTORS PRESSURE SWITCHES, LIMIT SWITCHES, TLESS RUH BUTTORS, DESCHARTIC CONTACT WOTCHTSCHERT, STEM (FREQUENC) CLOSING COLL	NOS SET SET SET NOS NOS	1 1 1 1 4 4		0.00 0.00 0.00 0.00 0.00 0.00		0.00 0.00 0.00 0.00 0.00 0.00 0.00						0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
7.8 7.9 8.1 8.2 9	SFE GAS FLAND CEVICE SFE OF CARACTER	NOS SET NOS NOS	1 1 2 1		0.00 0.00 0.00 0.00		0.00 0.00 0.00 0.00						0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
9.1 9.2 9.3 9.4 9.5	NULE & FEMILE CONTACTS POWER CONTACTOR RELAYS/MCBA, SWITCHER SLEERS HOURD RELEASTORS ETC AS PER APPROVED SCHEMATIC. LIMIT SWITCH MOTOR WITC GRAP ASSEMELY & BEVEL GERM ASSEMELY COMPLETE. ADULIARY SWITCH CONTACTS ASSEMELY	SET SET SET SET SET	1 1 2 1 1		0.00 0.00 0.00 0.00 0.00		0.00 0.00 0.00 0.00 0.00						0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
9.6 9.7 9.8	EARTHNO ROD & BLADE CONTACT SIDE HINDE FINIS TERMINAL CONNECTOR TERMINAL PAD POST INSULATOR SUPPORT	SET SET (3NOS. PER SET) NOS	1 1 1 3		0.00 0.00 0.00 0.00		0.00 0.00 0.00 0.00						0.00	0.00	0.00 0.00 0.00
11 12 12.1 12.2 12.3	38 YOV R-14, COUR; 10 AC, LOSS II SARCE MOSTITOR COURT INTERNIT INTERNATION AND ENGINEMENT INCLUDENT TEXTINE CONFECTOR MAY, 130A, SEAK ACCURATE OFCUT BEAKER ONE COMPLETE POLE ASSEMILY OF CICULT BEAKER THEPPING COLS C. OSENIC COL.	NOS SET NOS	1 1 4 4		0.00		0.00						0.00	0.00	0.00
12.4 12.5 12.6 12.7 13	SPRING CHARGING MOTOR AUXILIARY SWITCH CONTACTS ASSEMBLY SET OF CARKET; OF RNGS SEX MAN PER CARLT BERZERE CARLT BERZERE AUXILIARY AND	NOS SET SET SET NOS	1 1 1		0.00 0.00 0.00 0.00		0.00 0.00 0.00 0.00						0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	00.0 00.0 00.0 00.0
14 14.1 14.2 14.3 14.4 14.5 14.6	US AN COLO FOUL FOUL FOULD BUIS BAR & CORCUT MATERIALS 120 NM ANTIFOCI INSULATOR STRINGS for Double Mosse cond (TENSION)-132 KV 120 NM ANTIFOCI INSULATOR STRINGS for Single Mosse cond (TENSION)-132 KV 120 NM ANTIFOCI INSULATOR STRINGS for Double Mosse cond (TENSION)-132 KV	NOS SET SET SET SET SET SET MTRS	3 2 2 2 2 2 2 2 2 2 2 50		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		0.00 0.						0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0

		SET										
		(EACH										
16	HARDWARES & FITTINGS/SPACERS/CLAMP & CONNECTORS ETC. FOR 132 KV & 33 KV	TYPE	1		0.00	0.00				0.00	0.00	0.00
		THREE										
		NOS.)										
17	GENERAL EQUIPMENT & SUBSTATION ACCESSORIES											
17.1	POWER CABLES,1.1KV,XLPE & PVC,ARMOURED,											
	ALLIMINIUM CONDUCTOR/As ner Sneoification)											
	3.5 CX300 mm ² (ONE PIECE OF MAXM. LENGTH OF CABLE USED)-XLPE	PCS. PCS.	1		0.00	0.00				0.00	0.00	0.00
	3.5 CX185 mm ² (ONE PIECE OF MAXM. LENGTH OF CABLE USED)-XLPE		1		0.00	0.00						
17.1.3 17.1.4	3.5 CX120 mm ² (ONE PIECE OF MAXM, LENGTH OF CABLE USED)-XLPE	PCS. PCS.	1		0.00	0.00				0.00	0.00	0.00
17.1.5	3.5 CX70 mm ² (ONE PIECE OF MAXM. LENGTH OF CABLE USED)-PVC	PCS.	1		0.00	0.00				0.00	0.00	0.00
17.1.6	3.5 CX35 mm ² (ONE PIECE OF MAXM. LENGTH OF CABLE USED)-PVC 4 CX 16 mm ² PVC	MTRS			0.00	0.00				0.00	0.00	0.00
17.1.0	4 CX 16 mm ² -PVC	MTRS	250 250		0.00	0.00				0.00	0.00	0.00
17.1.8		MIRS								0.00	0.00	0.00
	2CX 6 mm ² -PVC CONTROL CABLES,1.1 KV, PVC, STRANDED COPPER(As per specification)	mina	250		0.00	0.00				0.00	0.00	0.00
17.2.1	4 CX 2.5 mm ² (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 ² (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 ² (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 ² (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 ² (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 ² (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 ² (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 ²	MTRS	50		0.00	0.00	 	 		0.00	0.00	0.00
	BAT TO BAT CHARGER & CHARGER TO DCDB		50		0.00						2.00	0.00
17.3	CARRIER COMMUNICATION & OTHER MATERIALS 132 KV.1200 A.0.5mH.Padestal Mounting	_										+
17.3.1	132 KV,1200 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 &	SET	1		0.00	0.00				0.00	0.00	0.00
	LINE MATCHING DISTRIBUTION UNIT									0.10		
17.3.3	VRLA TYPE BATTERY 300 AH, ONE COMPLETE CELL ASSEMBLY OF BATTERY(FOR 48	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	NO	1		0.00	0.00		1		0.00	0.00	0.00
	220 V)				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		057	1							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 PROTN PAN, COMM											
18.1	PAN RELAY TOOL KITS AS PER TECH SPEC AND ROD FOR PCM 132 KV SIDE					 						
	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
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
	33 KV SIDE OVER CURRENT & EARTH FAULT RELAY	100								0.00	0.00	
	MASTER TRIP RELAY	NOS	1		0.00	0.00	 	 		0.00	0.00	0.00
		NOS	2		0.00	0.00		-		0.00	0.00	0.00
18.2.3	OTHER AUXILIARY RELAYS (EACH 1 NO. OF DIFFERENT TYPE) ANNUNCIATOR	NOS	1		0.00	0.00	 			0.00	0.00	0.00
	ANNUNCIATOR CONTROL SWITCHES FOR	NUS			0.00	0.00				0.00	0.00	0.00
	a) CIRCUIT BREAKER	NOS	2	1	0.00	0.00		1		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
	AMMETER ALONG WITH TRANSDUCER	SET	1	1	0.00	0.00		1	1	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		1		0.00	0.00	0.00
	MVAR METER ALONG WITH TRANSDUCER	SET	1		0.00	0.00				0.00	0.00	0.00
	TOTAL FOR SUPPLY OF MANDATORY SPARE											00.0
	TOTAL OF SUPPLY PRICE FOR EQUIPEMENTS /	_										
												0.00
	MATERIALS SCHEDULE 2A											

Before filling up nai-mount etc. in the schedules bidders are requested to read carefully the instruction given in Vol-1 of Bidding Document. Bidders are requested to rot flue parametint and colument expert badder portion. Bidders are requested to not knew any column biach. If any column is left bhanks 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 In mode of remassion column please, https://www.column.please.column.please.column.please.column.please.field.please.column.please.field.please.column.please.field.please.field.please.column.please.field.please.fie

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				ODISHA POWER TRANSMIS	SION CORPORATION LIMITED
	PACKAGE 67(II)/2014-15			NAME OF THE WORKConstru TUSURA in Bolangir district with ass 132 KV Bolangir-Saintala lin NOTICE INVITING TENDER-NIT No.:Sr. G.M- CPC- TENDER- TUSL 20 SCHEDULE-2C-ERECTION & CI	etion of 2X20 MVA,132/33 KV S/s at occiated 132 KV LLO Line from existing te. (App. Line Length: 14.8Kms.) NO. 67/2014.15 & BID DOCUMENT JRA(BOLANGIR)- PACKAGE- 67(II) / 14-15 VILWORKS (FOR SUBSTATION) up of Ex-works Prices against Package-
			NAME OF THE BIDDER		
	ERECTION, TESTING & COMMISSIONING & CIVIL WORKS _SUBSTATION		BIDDEK		
\$1. 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 2X20 QUANTITY: for Construction of 2X20 Bayed Shos: UP TRB of DE DR Bayed Shos: UP TRB of DR OF (33 KV Bay-47 Mac; UP TRP, 02 TRF & 01 BC)	Unit Erection Rate IN INR	Total Erection Price IN INR
1 PART-A	2 ELECTRICAL WORKS	3	4	5	6=4x5
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
2 '2.1	145 KV,1250A,31.5KA,ISOLATORS S/I WITH OUT EARTH SWITCH	NOS	9		0.00
	D/I WITH SINGLE EARTH SWITCH D/I WITHOUT EARTH SWITCH	NOS NOS	2		0.00 0.00
3 4	145 KV, 6600pF, 3CORE,SINGLE PHASE CAPACITOR VOLTAGE TRANSFORMER 120 KV METAL OXIDE SURGE ARRESTOR, 10 KA, Class III	NOS NOS	6		0.00
5	145 KV, 2 CORE, SINGLE PHASE, IVT	NOS	3		0.00
7	132 KV Bus Post Insulators 145KV, 3150A, 40KA, SF6, CIRCUIT BREAKER WITH SUPPORTING STRUCTURE	NOS NOS	16 5		0.00
7.1	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
7.2	38 KV, 800-400-200, 25KA, 4 CORE SINGLE PHASE CURRENT TRANSFORMER (3 NOS PS CLASS & 1 NO. 0.25 CLASS) 36 KV CLASS NCT FOR POWER TRANSFORMER REF PROTECTION (RATIO 800-400-200 A) & HAVING	NOS	6		0.00
9	TWO CORE (PS CLASS) (IN EACH POWER TRANSFORMER 132 KV SIDE: 1 NO, & 33 KV SIDE: 1 NO) 36 KV,1250A,25KA,ISOLATORS	NOS	4		0.00
'9.1	S/I WITH OUT EARTH SWITCH	NOS	8		0.00
'9.2 '9.3	D/I WITH SINGLE EARTH SWITCH D/I WITHOUT EARTH SWITCH	NOS NOS	4 2		0.00 0.00
'9.4 10	S/I WITH BEAM MOUNTED 30 KV, METAL OXIDE SURGE ARRESTOR, 10KA, class II	NOS NOS	2 24		0.00 0.00
11 12	36 KV ,2 CORE,SINGLE PHASE,IVT(1 core 3P & other core 0.2s) 36KV,1250A,25KA,VACUUM CIRCUIT BREAKER WITH SUPPORTING STRUCTURE	NOS NOS	3		0.00
13	33 KV Bus Post Insulators BUS BAR & CIRCUIT MATERIALS	NOS	7		0.00
	TENSION & SUSPENSION ANTI FOG TYPE INSULATOR STRING	SET			0.00
'14.1.2	120 kN ANTIFOG INSULATOR STRINGS for Double Moose cond (TENSION)-132 KV 120 kN ANTIFOG INSULATOR STRINGS for Single Moose cond (TENSION)-132 KV	SET	18 30		0.00 0.00
'14.1.3 '14.1.4	120 kN ANTIFOG INSULATOR STRINGS for Double Moose cond (TENSION)-33 KV 120 kN ANTIFOG INSULATOR STRINGS for Single Moose cond (TENSION)-33 KV	SET SET	18 24		0.00 0.00
'14.1.5 '14.1.6 14.2	90 kN ANTFOG INSULATOR STRINGS for Double' Single Moose cond (SUSPENSION)-132 KV 90 kN ANTFOG INSULATOR STRINGS for Double' Single Moose cond (SUSPENSION)-33 KV Supply of labour.TAP and other necessary arrangements for stiringing of bus bar conductors, hosting 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.	SET SET	9		0.00
	Single conductor Twin Conductor	KM KM	3		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
14.4	FOR 132KV SIDE : 22 NOS @ 7 MTRS LENGTH EACH	SET	22		0.00
14.4.2	FOR 33 KV SIDE: 19 NOS @ 5 MTRS EACH SUBSTATION EARTHING SYSTEMS	SET	19		0.00
'14.5.1	SUBS IARIUM EAK ITING STSTEMS EARTHING CONDUCTOR FOR BURKHAL: TSX10 mm GI Earth Flat for laying (specing maximum 6m) (Substation earth mat): Design, engineering, supply (sexupt the MS Rode, only erection) inclusive of corrosion protection measures. If any laying of earth mat conductors of a size TSX10 mm GI That as per the approach of Engineer in charge, accession, welding/pimiting of ground conductors. If a size TSX10 mm GI That as per the approach of Engineer in charge, accession, welding/pimiting of ground compaction. The spacing between the earth conductor not more than 5 mits (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	5000		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	3300		0.00
'14.5.3	EARTIMINO DEVICE & ASSOCIATED ACCESSORIES (50 mm heavy duty CI) PERFORATED PIPE 3 mms long for treated earth pit): perforated 50 mm Heavy duty (5) lippes for treated earth pits (wind earth pits (wind earth pits) (wind earth pits); molarity exerusions.supply of Bentonate powder and other materials for the treated earth pit as per standard practice and as per specification.	NOS	180		0.00
'14.5.4 14.6	EARTHING DEVICE & ASSOCIATED ACCESSORIES. 40mm MS rod 3 mins long for non treated earth pit) 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.	NOS	70		0.00
'14.6.1	G.I Cable Trays(size: 450x75x2500mm)	MTRS	1400		0.00
'14.6.3	G.I Cable Trays(size: 300x75x2500mm) G.I Cable Trays(size: 150x75x2500mm)	MTRS MTRS	2000		0.00 0.00
'14.6.4 14.7 '14.7.1	Support G. I angle 50x50x6 mm for cable tray SUB STATION SWITCYARD BMK, AC CONSOLE & OTHER MARSHALLING BOXES BAY MARSHALLING KIOSK	MT NOS	2.5		0.00
	SWITCH YARD AC CONSOLE FOR LIGHTING SWITCH YARD AC CONSOLE FOR LIGHTING SWITCH YARD RECEPTACLE BOARD FOR TFR OIL FILTERATION SWITCH YARD RECEPTACLE BOARD FOR WELDING & OTHER EMERGENCY	NOS NOS NOS	2 1 2		0.00 0.00 0.00
'14.7.4	SWITCH YARD RECEPTACLE BOARD FOR WELDING & OTHER EMERGENCY 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	17		0.00
15	SWITCH YARD STRUCTURES COLUMN & BEAM (LATTICE TYPE) FOR 132/33 KV CLASS INCLUDING FOUNDATION BOLTS & NUTS.				
'15.1.1	DIFFERENT TYPES OF COLUMNS WITH DETAILS T1S - 132 KV(NOMINAL UNIT WT- 1.2 MT) = 16 Sets.	NOS	16		
'15.1.3	T4S - 132KV (NOMINAL UNIT WT- 0.92 MT) = 05 Sets T8S - 33KV(NOMINAL UNIT WT- 0.83 MT) = 09 Sets.	NOS NOS	5 9		
'15.1.4 15.2	T9S - 33KV(NOMINAL UNIT WT- 0.6 MT) = 11 Sets. DIFFERENT TYPE OF BEAMS WITH DETAILS	NOS	11		
'15.2.1	G1 - 132 KV(NOMINAL UNIT WT- 0.58 MT) = 11 Sets. G1X - 132 KV (NOMINAL UNIT WT- 0.582 MT) = 05 Sets.	NOS NOS	11		
'15.2.3	G2 - 132 KV (NOMINAL UNIT WT- 0.9 MT) = 04 Sets G2 - 132 KV(NOMINAL UNIT WT- 0.9 MT) = 04 Sets G1,2 - 132 KV(Each two beams of G1 type) (NOMINAL UNIT WT- 1.25 MT) = Nil	NOS NOS NOS	4 0		
'15.2.5	G6 - 33KV (NOMINAL UNIT WT- 0.36 MT) = 03 Sets.	NOS	3		
'15.2.7	G4 - 33KV(NOMINAL UNIT WT- 0.3 MT) = 9 Sets. G4X - 33KV(NOMINAL UNIT WT- 0.52 MT) = 02 Sets.	NOS NOS	9 2		0.55
	TOTAL WEIGHT OF COLUMN & BEAM SWITCH YARD EQUIPMENT STRUCTURES (LATTICE TYPE) FOR 132/33 KV CLASS INCLUDING FOUNDATION BOLTS & NUTS.	MT	62		0.00
	ISOLATORS-132KV S.I. WITHOUT E/S (Unit weight - 658.767 Kg)	NOS	9		

			_	
'15.4.3 '15.4.4	D.I. WITHOUT E/S (Unit Weight - 979.10 Kg) D.I. WITH E/S (Unit Weight - 1120.559 Kg)	NOS NOS	2	
'15.4.5 '15.4.6	ISOLATORS-33 KV S.I. WITHOUT E/S (Unit weight - 294.893 Kg)	NOS	8	
'15.4.7	D.I. WITHOUT E/S (Unit weight - 655.764 Kg)	NOS	2	
'15.4.8 '15.4.9	D.I. WITH E/S (Unit weight - 670.555 Kg) CTS-132 KV (Unit Weight - 214.546 Kg)	NOS NOS	4 15	
'15.4.10 '15.4.11	CTS-33 KV (Unit Weight - 148.80 Kg) CVTS-132 KV (Unit Weight - 236.628 Kg)	NOS NOS	21 6	
'15.4.12	IVTS-132 KV (Unit Weight - 231.195 Kg)	NOS	3	
'15.4.13 '15.4.14	IVTS-33 KV (Unit Weight - 124.336 Kg) Surge Arrester-132 kV (Unit Weight - 179.893 Kg)	NOS NOS	3 12	
'15.4.15 '15.4.16	Wave Trap-132 KV (Unit Weight - 247.254 Kg) BPI-132 KV (Unit Weight - 309.883 Kg)	NOS NOS	0 16	
'15.4.17	BPI-33 KV (Unit Weight - 148.80 Kg)	NOS	7	
'15.4.18 '15.4.19	NCTS (Unit Weight - 138.24 Kg) TOTAL WEIGHT OF EQUIPMENT STRUCTURE	NOS MT	4 40.047	0.00
15.5 16	Total weight of GI Nuts and bolts for the above Column, Beam & structures GENERAL EQUIPMENT & SUBSTATION ACCESSORIES	MT	12.5	0.00
16.1	POWER CABLES,1.1KV,XLPE/PVC ARMOURED, ALUMINIUM CONDUCTOR (As per Specification)			
'16.1.1	XLPE 3.5 CX300 mm ²	MTRS	500	0.00
'16.1.2	XLPE 3.5 CX185 mm ²	MTRS	300	0.00
'16.1.3 '16.1.4	XLPE 3.5 CX120 mm ² PVC 3.5 CX70 mm ²	MTRS MTRS	200 600	0.00 0.00
'16.1.5	PVC 3.5 CX35 mm ²	MTRS	1500	0.00
'16.1.6 '16.1.7	PVC 4 CX 16 mm ² PVC 4 CX 6 mm ²	MTRS MTRS	1000 3500	0.00
'16.1.8	PVC 2CX 6 mm ²	MTRS	2000	0.00
16.2 '16.2.1	CONTROL CABLES.1.1 KV, PVC,STRANDED COPPER(As per specification) 2 CX 2.5 mm2	MTRS	5000	0.00
'16.2.2	4 CX 2.5 mm ²	MTRS	16000	0.00
'16.2.3 '16.2.4	5 CX 2.5 mm ² 7CX 2.5 mm ²	MTRS MTRS	4000 9000	0.00 0.00
'16.2.5	10 CX 2.5 mm ²	MTRS	10000	0.00
'16.2.6 '16.2.7	12 CX 2.5 mm ²	MTRS MTRS	9000 5000	0.00 0.00
'16.2.8	16 CX 2.5 mm ² 19 CX 2.5 mm ²	MTRS	2000	0.00
'16.2.9	1CX 120 mm ² BAT TO BAT CHARGER & CHARGER TO DCDB	MTRS	600	0.00
17	ACCESSORIES FOR PLCC SYSTEM AS PER TECHNICAL SPECIFICATION 132 kV Line Trap for Pedestal mounting with complete accessories :1200A, 0.5 mH, (90-	NOS	0	0.00
'17.2	500kHZ).lsc=31.5kA compatible to IEC 353 specifications 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	0	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	0	0.00
'17.4	EPAX standard complied to ITU-T, G-711,G-712,Q507,Q-517 capacity 16lines/Trunks, specification	NO	1	0.00
'17.5	transducers and interfacing cards for Analog input and Digital output (Optional) 25PAIR ARMOURED TELEPHONE CABLES	MTRS	1000	0.00
'17.5 '17.6	10 PAIR ARMOURED TELEPHONE CABLES 4 PAIR NON ARMOURED TELEPHONE CABLES	MTRS MTRS	500 300	0.00 0.00
'17.7 '17.8	FAX MACHINE	NO	20	0.00
'17.9	48 V, 350 AH, maintenance free VRLA Battery set.	SET	1	0.00
'17.10	75A, 48V Float cum Boost Charger: (Float/Boost current as recommended by VRLA Battery vendor)	SET	1	0.00
'17.11	48 V DCDB	SET	1	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
18.2	Erection of D.P structures with 33 KV AB switch in 33 KV side (600AMP),HG fuse,Power Cables and supply &	100	2	0.00
	erection of insulators,conductor ,clamps & connectors,jumpering and other accessories required for the erection ,testing & commissioning of the station transformer. Erection of LT out-door Kiosk and required cable		_	
	termination . The DP structure shall be painted with two coats of Zinc rich primer & two coats of epoxy based Aluminium paint.	SETS	2	0.00
19	SUB STATION LIGHTING (AS PER SPECIFICATION AND APPROVED DRAWINGS)(Switch yard and other street area)			
'19.1	Erection of LED LAMPs with fixtures & switch gear alongwith supply & fixing of GI Conduit etc.(Lighting fixtures are to be fixed rigidly on the Column in the SWITCH YARD at a suitable height so			
	that the required lux can be maintained).Required cable connections to be made from nearest A.C	SET	40	0.00
	source.(* REMARKS : FOR SUPPLY OF ALL THE CABLES AS INDICATED ARE COVERED IN THE CABLE ITEMS for SUPPLY CONTRACT) & as per instruction of Engineer in charge			
'19.2	Erection of GI tubular Pole and fixing of LED lamp with fixtures at a suitable height, cable connection from			
	distribution board complete in all respect . (TO BE PROVIDED IN THE SWITCH YARD, ALONG THE ROADS (APPROACH INSIDE YARD AND OTHER ROADS).	SET	20	0.00
	(* REMARKS : FOR SUPPLY OF ALL THE CABLES AS INDICATED ARE COVERED IN THE CABLE ITEMS	SET	20	0.00
'19.3	for SUPPLY CONTRACT) & as per instruction of Engineer in Charge. 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. (Erection of Out door Kiosk for street lighting purpose along with laying of (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	NO		0.00
	FROM OUTDOOR KIOSK TO THE STREET LIGHT POLES AND 4CX6 SQMM FROM POLE TO POLE AND 2CX6 SQMM FROM POLE TO LIGHTING FIXTURES.) and connections in all respect according to technical	NO.	1	0.00
	specification and direction of engineer in charge. (Remarks: For supply of all the cable are covered in supply contract & erection of cable covered in the supply contract)			
'19.4	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 (Erection of Out Door			
	Kiosk for Colony supply purpose along with laying of (XLPE CABLES(3.5 CORE 120 SQM) FROM MAIN ACDB FROM CONTROL ROOM TO THE OUT DOOR KIOSK. 4CX16 SQMM FROM KIOSK TO EACH			
	QUARTER. PROVISION OF CABLE(2C/4C-6 SQM) FROM THE OUT DOOR 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.) and	NO.	1	0.00
	connections in all respect according to technical specification and direction of engineer in charge. (Remarks:			
	For supply of all the cable are covered in supply contract & erection of cable covered in the supply contract)			
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	SET	20	0.00
	FOR COMPLETING THE A.C SCHEME.(AS PER SPECIFICATION) FOR CONTROL ROOM, CARRIER ROOM & CONFERENCE ROOM.	SET	20	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 '21.2	FOAM TYPE-9 LTRS DRY CHEMICAL POWDER(TROLLEY MOUNTED)- 22.5 KGS	NOS NOS	4 4	0.00 0.00
'21.3 '21.4	DRY POWDER TYPE - 5 KGS	NOS	4	0.00
21.4	CO ₂ - 4.5 KGS CO ₂ - 9 KGS	NOS	10	0.00
'21.6	CO ₂ (TROLLY MOUNTED)- 22.5 KGS	NOS	4	0.00
'21.7 '21.8	Water type- 9 LTRS Foam type - 50 LTR	NOS NOS	4 2	0.00 0.00
'21.9 22	FIRE BUCKET (6 NOS IN EACH STAND) WITH STAND PROTECTION,CONTROL METERING, EVENT LOGGER,BUS BAR PROTN PAN,COMM PAN, RELAY	SET	4	0.00
'22.1	TOOL KITS AS PER TECH SPEC TIME SYNCH EQUIPMENT	NOS	1	0.00
'22.2	EVENT LOGGER PANEL	NOS	0	0.00
'22.3	132 KV SIDE (SIMPLEX TYPE PANEL)			0.00

		NOO		0.00
'22.3.1 '22.3.2	FEEDER CONTROL PANEL TRANSFORMER CONTROL PANEL(FOR 132 KV SIDE OF 132/33 KV POWER TRANSFORMER)	NOS NOS	2 2	0.00
'22.3.3	BUSCOUPLER CONTROL PANEL	NOS	1	0.00
'22.3.4 '22.3.5	FEEDER RELAY PANEL TRANSFORMER RELAY PANEL(FOR 132 KV SIDE OF 132/33 KV POWER TRANSFORMER)	NOS NOS	2	0.00
'22.3.6	BUSCOUPLER RELAY PANEL	NOS	1	0.00
'22.3.7 22.4	COMMON PANEL (KP-1) 33 KV SIDE	NOS	1	0.00
'22.4.1	FEEDER CONTROL & RELAY PANEL	NOS	4	0.00
'22.4.2 '22.4.3	TRANSFORMER CONTROL & RELAY PANEL BUSCOUPLER CONTROL & RELAY PANEL	NOS NOS	2	0.00
23	AC & DC SYSTEM	1100		0.00
23.1 '23.1.1	AC SYSTEM MAIN AC DB, (HAVING 800 A, 50KA, DRAWOUT TYPE ACB WITH 3 O/C, E/F, U/V RELAYING FACILITY			
23.1.1	INDOOR TYPE AS PER SPECIFICATION. (MAIN DB-1, MAIN DB-2 WITH B/C)	SET	1	0.00
'23.1.2 '23.1.3	ACDB (HAVING 400A MCCB) AS PER SPECIFICATION (AC DB-1, AC DB-2 WITH B/C) MAIN LIGHTING DISTRIBUTION BOARD (HAVING 250A MCCB AS INCOMER)AS PER SPECIFICATION	SET	1	0.00
23.1.3	(WITH DB-1, DB-2 & B/C)	SET	1	0.00
'23.1.4 '23.1.5	INDOOR LIGHTING DISTRIBUTION BOARD AS PER SPECIFICATION. (WITH DB-1, DB-2 & B/C)	SET SET	1	0.00
23.1.5	EMERGENCY LIGHTING DISTRIBUTION BOARD INDOOR RECEPTACLE BOARD	SET	1	0.00
23.2 '23.2.1				
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
'23.2.2	220 V DC EMERGENCY DISTRIBUTION BOARD	SET SET	1	0.00
'23.2.3 '23.2.4	BATTERY (350 AH PLANTE TYPE) FOR 220 V DC BATTERY CHARGER FOR 220 V, 350 AH BATTERY (FLOAT AND FLOAT CUM BOOST)	SET	1	0.00
24	DISTLED WATER PLANT OF 10 LTR/HR FOR BATTERY BANKS	SET	2	0.00
25 26	WALKIE TALKIE SET PORTABLE ALUMINIUM LADDER EXTENDABLE TYPE OF ADEQUATE HEIGHT TO BE USED FOR	SET/ PAIR	2	0.00
	MAINTENANCE OF EQUIPMENT INSIDE SWITCH YARD.	NOS	2	0.00
27	PEDESTAL MOUNTED WHEEL FITTED DERRICK FOR LIFTING/ LOWERING OF MATERIALS UP TO 1.5 TON CAPACITY.	SET	1	0.00
28	POWER WINCH NEAR STORE SHED FOR HANDLING MATERIALS UPTO 5 TON CAPACITY.	SET	1	0.00
29 30	WATER COOLER WITH WATER PURIFIER SYSTEM MAINTENANCE TESTING EQUIPMENT (AS PER ANNEXURE - I ,INDICATED IN TS-TIMK-SCHEDULE OF	NOS	1	0.00
	REQUIREMENTS OF MAINTENANCE EQUIPMENT)	SET	1	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	SET	1	0.00
	ROOMS LIBRARY, TESTING LAB, etc.			
32	BEST QUALITY & APPROVED MAKE RUBBER MAT TO BE KEPT INFRONT OF ALL PANELS, BOARDS ETC.	NOS	35	0.00
33	OTHER TOOLS AND PLANTS (T&P's) REQUIREMENT (AS PER ANNEXURE - II ,INDICATED IN TS-TIMK-	SET	1	0.00
34	SCHEDULE OF REQUI-REMENTS OTHER T&P's) RECEIVING THE TRANSFORMERS AND ITS ACCESSORIES FROM NEAREST OPTCL STORES, DRAGGING AND			0.00
	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	Nos	2	0.00
	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) JT ALSO INCLUDES SUPPLY OF ALL MATERIALS FOR ERECTTION INCLUDING T&P's.			
	1. 132/33 KV 20/40 MVA: 02 Nos			
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
36	SIGNBOARD AND SINGLE LINE DIAGRAM : : Design, engineering, procurement of labour, material including all associated works for construction and fixing of			
	(a) glow signboard with dimension 1.1mx1.6m with illumination and fixing with MS frames having RCC (1:1.5:3) foundations	LOT	1	0.00
	infront of substation. (b) The single line diagram size 1.0mx1.5m with illumination arrangement and to be wall hanged type to be fixed inside the control	201		0.00
	room building.			
1	TOTAL of ELECTRICAL WORKS Part-I (A) _SUBSTATION Foundations : Design, engineering, supply of all labour, material (Cement-OPC-43 Grade,MS Rod, coarse			0.00
	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,			
	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			
	tootings of any depth, pedestal and pilling 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			
	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underpinning and back filling of foundations etc compilete for the following switch yard gantry/ portal structures and equipment support & others as per the technical			
	tootings of any depth, pedestal and pilling 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			
	tootings of any depth, pedestal and pilling 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			
1.1	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 RATO 11.5.3). 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. Switch yard gantry/portal structure foundations	200		
1.1 1.1.1 1.1.2	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 1:1.5:2). 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.	NOS NOS	16 5	
1.1.1 1.1.2 1.1.3	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 pilot and disposal of excess earth as per the direction of Engineer in charge. Switch yard gantry/portal structure foundations T15 - 132 KV(INCMINAL UNIT VT - 12 MT) T45 - 132XV (NOMINAL UNIT VT - 0.5 MT) T45 - 333V(INOMINAL UNIT VT - 0.6 MT)	NOS NOS	5 9	
1.1.1 1.1.2 1.1.3 1.1.4	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 RATO 11.5.3); 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. Switch yard gantry/portal structure foundations TTS -132 KVINONINAL UNIT WT - 12 MT) TES - 132KVINONINAL UNIT WT - 08 MT) TES - 33XVINOMIAL UNIT WT - 06 MT)	NOS	5	
1.1.1 1.1.2 1.1.3 1.1.4 1.2 1.2.1	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 RATO 11.5.3); 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. Switch yard gantry/portal structure foundations TTS -132 KVINONINAL UNIT WT - 12 MT) TES - 132KVINONINAL UNIT WT - 08 MT) TES - 33KVINOMIAL UNIT WT - 08 MT) TES - 33KVINOMIAL UNIT WT - 08 MT] Equipment foundations : 14 KVI sol-00-000 A ; 315 KA, 4CORE SINGLE PHASE CURRENT TRANSFORMER	NOS NOS	5 9	
1.1.1 1.1.2 1.1.3 1.1.4 1.2	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. Switch yard gantry/portal structure foundations TIS - 132 KV(INCMINAL UNIT WT - 1.2 MT) TAS - 132XV(INCMINAL UNIT WT - 0.5 MT) TBS - 33XV(INCMINAL UNIT WT - 0.6 MT) TBS - 33XV(INCMINAL UNIT WT - 0.6 MT)	NOS NOS NOS	5 9 11	
1.1.1 1.1.2 1.1.3 1.1.4 1.2 1.2.1 1.3 1.3.1	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RATO 11.5.3). 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. Switch yard gantry/bortal structure foundations TLS - 132 KV(KOMMAL UNT WT - 12 MT) T45 - 132 KV(KOMMAL UNT WT - 0.8 MT) T45 - 333(V(KOMMAL UNT WT - 0.8 MT) T45 - 333, V(KOMMAL UNT WT - 0.8 MT) T45 - 334, V(KOMMAL UNT WT - 0.8 MT) T45 - 345, V(KOMM	NOS NOS NOS NOS NOS NOS	5 9 11 15 9 2	
1.1.1 1.1.2 1.1.3 1.1.4 1.2 1.2.1 1.3 1.3.1 1.3.2 1.3.3	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 RATO 11.5.3); 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. Switch yard gantry/portal structure foundations TTS -132 KVINONNAL UNT WT - 12 MT) TES - 33XVINONNAL UNT WT - 0.6 MT) TER - 33XVINONNAL UNT WT - 0.6 MT)	NOS NOS NOS NOS NOS NOS NOS	5 9 11 15 9 2 2	
1.1.1 1.1.2 1.1.3 1.1.4 1.2 1.3 1.3.1 1.3.1 1.3.2 1.3.3 1.4 1.5	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RATO 11.5.3); 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. Switch yard gantry/portal structure foundations TTIS -128 (VINONAL UNIT WT - 12.MT) TaS - 338 (VINONAL UNIT WT - 0.8 MT) TaS - 338 (VINONAL UNIT WT - 0.6 MT) TaS - 338 (VINONAL UNIT WT - 0.6 MT) Equipment foundations : 145 (VI. 200A, 03.5) IS (A, CORE SINGLE PHASE CURRENT TRANSFORMER 145 (VI. 200A, 03.5) IS (A, CORE SINGLE PHASE CURRENT TRANSFORMER 145 (VI. 200A, 03.5) IS (A, CORE SINGLE PHASE CURRENT TRANSFORMER 145 (VI. 200A, 03.5) IS (A, CORE SINGLE PHASE CURRENT TRANSFORMER 145 (VI. 200A, 03.5) IS (A, CORE SINGLE PHASE CURRENT TRANSFORMER 145 (VI. 200A, 03.5) IS (A, CORE SINGLE PHASE CURRENT TRANSFORMER 145 (VI. 200A, 03.5) IS (A, CORE SINGLE PHASE CURRENT TRANSFORMER 145 (VI. 200A, 03.5) IS (A, CORE SINGLE PHASE CURRENT TRANSFORMER 145 (VI. 200A, 03.5) IS (A, CORE SINGLE PHASE CURRENT TRANSFORMER 145 (VI. 200A, 03.5) IS (A, CORE SINGLE PHASE CURRENT TRANSFORMER 145 (VI. 200A, 03.5) IS (A, CORE SINGLE PHASE CURRENT TRANSFORMER 145 (VI. 200A, 03.5) IS (A, CORE SINGLE PHASE CURRENT TRANSFORMER 145 (VI. 200A, 03.5) IS (A, CORE SINGLE PHASE CURRENT TRANSFORMER 145 (VI. 200A, 03.5) IS (A, CORE SINGLE PHASE CURRENT TRANSFORMER 145 (VI. 200A, 03.5) IS (A, CORE SINGLE PHASE CAPACITOR VOLTAGE TRANSFORMER 145 (VI. 200A, 03.5) IS (A, CORE SINGLE PHASE CAPACITOR VOLTAGE TRANSFORMER 145 (VI. 200A, 03.5) IS (A, CORE SINGLE PHASE CAPACITOR VOLTAGE TRANSFORMER 145 (VI. 200A, 03.5) IS (A, CORE SINGLE PHASE CAPACITOR VOLTAGE TRANSFORMER 145 (VI. 200A, 03.5) IS (A, CORE SINGLE PHASE CAPACITOR VOLTAGE TRANSFORMER 150 (VI. 200A, 0	NOS NOS NOS NOS NOS NOS NOS NOS NOS	5 9 11 15 9 2 2 6 12	
1.1.1 1.1.2 1.1.3 1.1.4 1.2 1.2.1 1.3 1.3.1 1.3.2 1.3.3 1.4 1.5 1.6	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RRATD 11.15.31. 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. Switch yard gantry/bortal structure foundations T15-152 KVINOUNAL UNIT WT-12.MT) T35-1320 KVINOUNAL UNIT WT-0.56 MT) T35-330KINOMMAL UNIT WT-0.56 MT) T36-330KINOMMAL UNIT WT-0.56 MT) T36-30KINOMMAL UNIT WT-0.50 MT) T36-30KINOMMAL WT-0.50 MT T30 MT	NOS NOS NOS NOS NOS NOS NOS NOS NOS NOS	5 9 11 15 9 2 2 2 6 6 12 3	
1.1.1 1.1.2 1.1.3 1.1.4 1.2 1.3 1.3.1 1.3.2 1.3.3 1.4 1.5 1.6 1.7 1.8	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RRATD 11.15.37. 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. Switch yard gantry/portal structure foundations T15-152 KVINOMMAL UNIT WT-12.MT) T45-132W (NOMMAL UNIT WT-0.5 MT) T45-132W (NOMMAL UNIT WT-0.5 MT) T45-338W(NOMMAL UNIT WT-0.5 MT) Equipment foundations: 145 KV. 800-40-200.3.415 cA. ACORE SINGLE PHASE CURRENT TRANSFORMER 145 KV. 2004.2.315 AJ. BOLATORS SI WTH OUT EARTH SWITCH DI WTH SNGLE EARTH SWITCH DI WTH SNGLE EARTH SWITCH DI WTH SNGLE EARTH SWITCH T30 KV BT4L AUDDE SURGE FINASE CAPACITOR VOLTAGE TRANSFORMER 145 KV. 2004.5.500E, SINGLE PHASE CAPACITOR VO	NOS NOS NOS NOS NOS NOS NOS NOS NOS NOS	5 9 11 15 2 2 6 12 3 16 5	
1.1.1 1.1.2 1.1.3 1.1.4 1.2 1.2.1 1.3.1 1.3.2 1.3.3 1.4 1.5 1.6 1.7 1.8 1.9	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RATO 11.5.3); 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. Switch yard gantry/portal structure foundations TTIS -132 KVINONIAL UNT WT - 12 MT) TES - 33XVINOMIAL UNT WT - 0.6 MT TES - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 -	NOS NOS NOS NOS NOS NOS NOS NOS NOS NOS	5 9 11 15 2 2 2 6 6 12 3 16 5 21	
1.1.1 1.1.2 1.1.3 1.1.4 1.2 1.2.1 1.3.1 1.3.2 1.3.3 1.4 1.5 1.6 1.7 1.8 1.9 1.9	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RATO 11.5.3). 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. Switch yard gantry/portal structure foundations T15 - 132 (NINONNAL UNIT WT - 12 MT) T45 - 1332 (NINONNAL UNIT WT - 08 MT) T45 - 1332 (NINONNAL UNIT WT - 08 MT) T45 - 3334 (NINONNAL UNIT WT - 08 MT) T45 - 3334 (NINONAL UNIT WT - 08 MT) T45 - 3344 (NINONAL UNIT WT - 08 MT) T45 - 344 (NINONAL UNIT WT - 08 MT) T45 - 344 (NINONAL UNIT WT - 08 MT) T45 - 344 (NINOT WT - 01 MT) T45 - 74 - 74 MT =	NOS	5 9 11 15 2 2 6 12 3 16 5 21 0	
1.1.1 1.1.2 1.1.3 1.2.1 1.2.1 1.2.1 1.3.1 1.3.2 1.3.3 1.4 1.5 1.6 1.5 1.6 1.9 1.9	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning and back filling of foundations etc complete for the following switch yard gantryl portal structures and equipment support & others as per the technical specification and approved drawings, RCC RRATD 11.5.33; 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. Switch yard gantrylportal structure foundations T15 - 132 KVINOMAL UNIT WT - 12 MT) Tas - 338 KVINOMAL UNIT WT - 08 MT] Tas - 338 KVINOMAL WIT - 000 KVINO S MT - 000 KVINO S KVINO COME KVINO S TAS - 000 KVINO S KVINO S KVINO COME KVINOS TANG CURSE NA TANGS TONER Tas - 700 KVINO S TANG A CORE S MALE PHASE CURRENT TINNASFORMER Tas - 700 KVINO S TAS - 00	NOS NOS NOS NOS NOS NOS NOS NOS NOS NOS	5 9 11 15 2 2 2 6 6 12 3 16 5 21	
1.1.1 1.1.2 1.1.3 1.1.4 1.2 1.2.1 1.3.1 1.3.2 1.3.3 1.4 1.5 1.6 1.7 1.8 1.9 1.9	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RATD 11.5.3). 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. Switch yard gantry/bortal structure foundations T1S - 132 KV(KOMMAL UNT WT - 12 MT) T4S - 1320 KV(KOMMAL UNT WT - 0.8 MT) T4S - 1320 KV(KOMMAL UNT WT - 0.8 MT) T4S - 333KV(KOMMAL UNT WT - 0.8 MT) T4S - 335KV(KOMMAL UNT WT - 0.8 MT) T4S - 35KV(KOMMAL UNT WT - 0.8 MT) T4S -	NOS	5 9 11 15 2 2 6 12 3 16 5 21 0	
1.1.1 1.1.2 1.1.3 1.1.4 1.2.1 1.2.1 1.3.1 1.3.3 1.3.1 1.3.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10 1.11 1.11.1	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RATD 11.5.3; 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. Switch yard gantry/bortal structure foundations T15 :128 XVIROMINAL UNIT WT - 12 MT) T45 - 132KV (NOMINAL UNIT WT - 0.8 MT) T45 - 132KV (NOMINAL UNIT WT - 0.8 MT) T45 - 33KVIROMINAL UNIT WT - 0.8 MT) T45 - 43KVIROMINAL UNIT WT - 0.8 MT T45 - 43KVIROMINAL UNIT WT - 0.8 MT	NOS	5 9 11 2 2 6 6 12 3 5 5 21 0 4 4 4	
1.1.1 1.1.2 1.1.3 1.1.4 1.2 1.2.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.2 1.3.3 1.4 1.5 1.6 1.9 1.9 1.10 1.11 1.11.2	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underphining 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 RRATD 11.5.3). 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. Switch yard gantry/portal structure foundations T15 - 132 KVINOMAL UNIT WT - 12 MT) T45 - 132 KVINOMAL UNIT WT - 08 MT) T45 - 338 KVINOMAL UNIT WT - 08 MT) T45 KV 200A 200A 2, 31 5K A. CORE SINGLE PHASE CURRENT TRANSFORMER T45 KV 200A 200A 2, 31 5K A. CORE SINGLE PHASE CURRENT TRANSFORMER T45 KV 200A 200A 2, 31 5K A. CORE SINGLE PHASE CURRENT TRANSFORMER T45 KV 200A 200A 2, 31 5K A. CORE SINGLE PHASE CURRENT TRANSFORMER T45 KV 200A 2, 30 KVIT OUT EASTOR 10 KA Class III T45 KV 2 00A 2, 30 KVIT COL T405 SINGLE PHASE CURRENT TRANSFORMER T45 KV 2 00A 2, 30 KVIT COL T405 SINGLE PHASE CURRENT TRANSFORMER T45 KV 2 00A 2, 30 KVIT COL T405 SINGLE PHASE CURRENT TRANSFORMER T45 KV 2 00A 2, 30 KVIT COL T405 SINGLE PHASE CURRENT TRANSFORMER T45 KV 2 00A 2, 30 KVIT COL T405 SINGLE PHASE CURRENT TRANSFORMER T45 KV 2 00A 2, 30 KVIT COL T405 SINGLE PHASE CURRENT TRANSFORMER T55 KV CUASS NOT FOR POWER TRANSFORMER TER PROTECTION (RATO 800-020 A) & 1 HAVING TWO CORE (PS CLASS) IN FACH POWER TRANSFORMER TER PROTECTION (RATO 800-020 A) & 1 HAVING TWO CORE (PS CLASS) IN FACH POWER TRANSFORMER TER PROTECTION (RATO 800-020 A) & 1 HAVING TWO CORE (PS	NOS	5 9 11 15 2 2 6 12 3 16 5 21 0 4	
1.1.1 1.1.2 1.1.3 1.1.3 1.1.4 1.2 1.2.1 1.3.1 1.3.2 1.3.3 1.4 1.5 1.6 1.7 1.8 1.9 1.9 1.11 1.11 1.11.3 1.13	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RRATO 11.5.3). 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. Switch yard gantry/portal structure foundations T15 - 132 KNINONINAL UNIT WT - 12 MT) Tas - 338 KNINONIAL UNIT WT - 08 MT Tas - 338 KNINT OUT EARL TAS	NOS	5 9 11 15 2 2 2 6 12 3 16 5 21 0 4 4 4 2 2 24	
1.1.1 1.1.2 1.1.3 1.1.4 1.2 1.2.1 1.3 1.3.1 1.3.3 1.3.3 1.3.4 1.5 1.3.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10 1.11 1.152 1.11.3	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RRATD 11.15.31, 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. Switch yard gantry/bortal structure foundations T15-152 XVINOUNAL UNIT WT-12 MT) T45-1520Y (NOUNAL UNIT WT-0.6 MT) T45-1520Y (NOUNAL UNIT WT-0.6 MT) T45-1520Y (NOUNAL UNIT WT-0.6 MT) T45-330X/INOMIAL UNIT WT-0.6 MT) T45-330X/INOMIALUNIT WT-0.6 MT) T45-330X/INOMIALUNIT WT-0.6 MT) T46-XX 800-400-200 A, 315-X4, 4CORE SINGLE PHASE CURRENT TRANSFORMER T46 XV, 800-407-200 C, 315-X4, 4CORE SINGLE PHASE CURRENT TRANSFORMER T46 XV 200-007-200-8, 315-X4, 4CORE SINGLE PHASE CURRENT TRANSFORMER T46 XV 2000-200-8, 305-X000-200 A, 315-X4, 4CORE SINGLE PHASE CURRENT TRANSFORMER T46 XV 2000-200-8, 305-X000-200-200 A, 315-X4, 4CORE SINGLE PHASE CURRENT TRANSFORMER T46 XV 2000-200-200-200-200-200 A, 315-X4, 4CORE SINGLE PHASE CURRENT TRANSFORMER T46 XV 2000-200-200-200-200-200 A, 315-X4, 4CORE SINGLE PHASE CURRENT TRANSFORMER T46 XV 2000-200-200-200-200-200-200 A, 315-X4, 4CORE SINGLE PHASE CURRENT TRANSFORMER T46 XV 2000-200-200-200-200-200 A, 315-X4, 4CORE SINGLE PHASE CURRENT TRANSFORMER T46 XV 2000-200-200-200-200 A, 315-X4, 4CORE SINGLE PHASE CURRENT TRANSFORMER T46 XV 2000-200-200-200-200-200 A, 315-X4, 4CORE SINGLE PHASE CURRENT TRANSFORMER SIX XV 2000-200-200-200-200-200-200 A, 34-X4000-200-200 A, 34-X4000-200-200 A, 34-X4000-200-200 A, 35-X4000-200-200 A, 35-X4000-200 A, 35-X4000-200-20	NOS NOS NOS NOS NOS NOS NOS NOS NOS NOS	5 9 11 2 2 6 6 12 3 3 5 21 0 4 4 8 8 4 2 2	
1.1.1 1.1.2 1.1.3 1.1.4 1.1.4 1.1.3 1.1.4 1.2 1.3.1 1.3.2 1.3.3 1.3.4 1.5 1.6 1.7 1.8 1.9 1.10 1.11 1.11.1 1.11.2 1.11.3 1.14 1.15	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RRATD 11.15.31. 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. Switch yard gantry/bortal structure foundations T15-152 KVINOUNAL UNIT WT-12 MT) T35-1320 KVINOUNAL UNIT WT-0.58 MT) T35-330KVINOUNAL UNIT WT-0.58 MT) T35-330KVINOUNAL UNIT WT-0.58 MT) T35-330KVINOUNAL UNIT WT-0.56 MT) T35-750KVINOUNAL UNIT WT-0.5750KVINOUNAL UNIT	NOS	5 9 11 15 2 2 6 6 12 3 12 6 6 12 3 12 3 4 4 4 2 2 2 2 4 3 3	
$\begin{array}{c} 1.1.1\\ 1.1.2\\ 1.1.3\\ 1.1.4\\ 1.2\\ 1.2.1\\ 1.3\\ 1.3.1\\ 1.3.1\\ 1.3.2\\ 1.3.3\\ 1.3.3\\ 1.3.3\\ 1.3.3\\ 1.3.3\\ 1.3.1\\ 1.3.2\\ 1.3.3\\ 1.4\\ 1.5\\ 1.5\\ 1.6\\ 1.7\\ 1.10\\ 1.11\\ 1.11.2\\ 1.112\\ 1.13\\ 1.12\\ 1.13\\ 1.14\\ 1.15\\ 1.16\\ 1.17\\ 1.16\\$	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RRATD e11.5.3). 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. Switch yard gantry/portal structure foundations T15 - 132 KVINONNAL UNT WT - 12 MT) T45 - 132 KVINONNAL UNT WT - 10 MT) T45 - 132 KVINONNAL UNT WT - 0 & MT) T45 - 333 KVINONNAL UNT WT - 0 & MT) T45 - 333 KVINONNAL UNT WT - 0 & MT) T45 - 333 KVINONNAL UNT WT - 0 & MT) T45 - 333 KVINONNAL UNT WT - 0 & MT) T45 - 333 KVINONNAL UNT WT - 0 & MT) T45 - 333 KVINONNAL UNT WT - 0 & MT) T45 - 333 KVINONAL UNT WT - 0 & MT) T45 - 333 KVINONAL UNT WT - 0 & MT) T45 - 333 KVINONAL UNT WT - 0 & MT) T45 - 333 KVINONAL UNT WT - 0 & MT) T45 KV & debt 200 A 3 J1 SKA & CORE SINGLE PHASE CURRENT TRANSFORMER 145 KV 1200 A 3 J3 SKA & CORE SINGLE PHASE CURRENT TRANSFORMER 145 KV 200 AD 200 A 3 J1 SKA & CORE SINGLE PHASE CURRENT TRANSFORMER 145 KV 200 AD 200 A 3 J1 SKA & CORE SINGLE PHASE CURRENT TRANSFORMER 145 KV 200 AD 200 AD 3 SI SKA & CORE SINGLE PHASE CURRENT TRANSFORMER 145 KV 200 AD 200 AD 3 SI SKA & SIDE FMASE CURRENT TRANSFORMER 145 KV 200 AD 200 Z5KA & 200 END E PHASE CURRENT TRANSFORMER 145 KV 200 AD 200 Z5KA & 200 END E PHASE CURRENT TRANSFORMER 145 KV 200 AD 200 Z5KA & 200 END E PHASE CURRENT TRANSFORMER 145 KV 200 AD 200 Z5KA & 200 END E PHASE CURRENT TRANSFORMER 145 KV 200 AD 200 Z5KA & 200 END E PHASE CURRENT TRANSFORMER 145 KV 200 AD 200 Z5KA & 200 END E PHASE CURRENT TRANSFORMER 145 KV 200 AD 200 Z5KA & 200 END E PHASE CURRENT TRANSFORMER 145 KV 200 AD 200 Z5KA & 200 END E PHASE CURRENT TRANSFORMER 145 KV 200 AD 200 Z5KA & 200 END E PHASE CURRENT TRANSFORMER 145 KV 200 AD 200 Z5KA & 200 END E PHASE CURRENT TRANSFORMER	NOS NOS	5 9 11 15 2 2 6 12 3 16 5 21 0 4 4 2 21 0 4 4 2 2 24 3 7	
$\begin{array}{c} 1.1.1\\ 1.1.2\\ 1.1.3\\ 1.1.4\\ 1.2\\ 1.2.1\\ 1.3\\ 1.3.1\\ 1.3.1\\ 1.3.2\\ 1.3.3\\ 1.3.3\\ 1.3.3\\ 1.3.3\\ 1.3.3\\ 1.3.3\\ 1.3.5\\ 1.5\\ 1.6\\ 1.6\\ 1.6\\ 1.6\\ 1.10\\ 1.10\\ 1.11\\ 1.11.2\\ 1.13\\ 1.12\\ 1.13\\ 1.14\\ 1.15\\ 1.16\\ 1.17\\ 1.16\\ 1.16\\ 1.17\\ 1.16\\ 1.16\\ 1.17\\ 1.16\\ 1.16\\ 1.17\\ 1.16\\ 1$	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RRATD e11.5.3). 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. Switch yard gantry/portal structure foundations T15 - 132 KVINONINAL UNIT WT - 12 MT) T45 - 132 KVINONINAL UNIT WT - 08 MT) T45 - 133 KVINONIAL UNIT WT - 08 MT) T45 - 333 KVINOMIAL UNIT WT - 08 MT) T45 - 333 KVINOMIAL UNIT WT - 08 MT T45 KV 200A 3, 31 SAL ACORE SINGLE PHASE CURRENT TRANSFORMER T45 KV 200A 3, 31 SAL ACORE SINGLE PHASE CURRENT TRANSFORMER T45 KV 200A 200A 3, 31 SAL MASC CAPACITOR VOLTAGE TRANSFORMER T45 KV 200A 200A 200 ZSAL ACORE SINGLE PHASE CAPACITOR VOLTAGE TRANSFORMER T45 KV 200A 200A ZSAL ACORE SINGLE PHASE CAPACITOR VOLTAGE TRANSFORMER T45 KV 200A 200A ZSAL ACORE SINGLE PHASE CURRENT TRANSFORMER T45 KV 200A 200A ZSAL ACORE SINGLE PHASE CURRENT TRANSFORMER T45 KV 200A 200A ZSAL 4 CORE SINGLE PHASE CURRENT TRANSFORMER SI KV. 200A 200A ZSAL 4 CORE SINGLE PHASE CURRENT TRANSFORMER SI KV. 200A ZSAL ACORE SINGLE PHASE CURRENT TRANSFORMER SI KV. 200A ZS	NOS NOS NOS NOS NOS NOS NOS NOS NOS NOS	5 9 11 15 2 2 6 12 3 16 5 21 0 4 2 24 3 7 7 7 2	
1.1.1 1.1.2 1.1.3 1.1.4 1.1.4 1.2 1.3.1 1.3.2 1.3.3 1.3.4 1.5 1.5 1.6 1.7 1.8 1.9 1.9 1.11 1.11.2 1.11.3 1.11.4 1.11.2 1.11.3 1.14 1.15 1.14 1.15 1.16 1.17	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RRATD 11.15.31, 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.	NOS NOS	5 9 9 11 15 2 6 12 16 5 21 6 12 3 16 5 21 0 4 2 2 2 3 7 7 7 7 2 1 1	
$\begin{array}{c} 1.1.1\\ 1.1.2\\ 1.1.3\\ 1.1.4\\ 1.1.3\\ 1.1.4\\ 1.2\\ 1.2\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3$	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplining and back filling of foundations etc complete for the following switch yard gantry/ portal structures and equipment support & others as per the technical psedification and approved drawings, RCC RRATD 11.15.31, 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. Switch yard gantry/bortal structure foundations T15-152 KVINONINAL UNIT WT-12 MT) T35-132KVINONINAL UNIT WT-0.58 MT) T35-33KVINONINAL UNIT WT-0.58 MT) T35-35KVINOTI CANTA SUBLE PHASE CURRENT TRANSFORMER T45-XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	NOS NOS NOS NOS NOS NOS NOS NOS NOS NOS	5 9 11 15 2 2 6 12 3 16 5 21 0 4 2 24 3 7 7 7 2	
$\begin{array}{c} 1.1.1\\ 1.1.2\\ 1.1.3\\ 1.1.4\\ 1.2\\ 1.2.1\\ 1.3\\ 1.3.1\\ 1.3.1\\ 1.3.2\\ 1.3.3\\ 1.3.3\\ 1.3.3\\ 1.3.3\\ 1.3.5\\ 1.5\\ 1.5\\ 1.5\\ 1.6\\ 1.6\\ 1.6\\ 1.6\\ 1.6\\ 1.10\\ 1.112\\ 1.112\\ 1.112\\ 1.112\\ 1.112\\ 1.16\\ 1.17\\ 1.16\\ 1.16\\ 1.17\\ 1.16\\ 1.1$	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RRATD 11.5.3). 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.	NOS NOS	5 9 9 11 15 9 2 2 6 12 3 16 5 21 0 4 8 4 2 2 24 3 7 7 7 7 2 2	
1.1.1 1.1.2 1.1.3 1.1.4 1.2 1.2.1 1.2.1 1.2.1 1.2.1 1.2.1 1.2.1 1.3.1 1.3.2 1.3.3 1.3.4 1.5 1.6 1.7 1.6 1.10 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.16 1.17 1.16 1.162 1.162 1.164 1.165	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RRATD 11.5.3). 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. Switch yard gantry/portal structure foundations T15 - 132 KVINONINAL UNIT WT - 12 MT) Tas - 338 KVINOMIAL UNIT WT - 08 MT Tas - 338 KVINOMIA Tas - 200 KS SINGLE PHASE CAPACITOR VOLTAGE TRANSFORMER Tas - 200 KVINOMIA SINGLE PHASE CAPACITOR VOLTAGE TRANSFORMER Tas - 200 KS SINGLE PHASE CAPACITOR VOLTAGE TRANSFORMER Tas - 200 KS SINGLE PHASE CURRENT TRANSFORMER Tas - 200 KS SINGLE PHASE CURRENT TRANSFORMER SINGL + 200 KS SINGLE PHASE CURRENT TRANSFORMER SINGL + 200 KS SINGLE PHASE CURRENT TRANSFORMER SINGL + 200 KS SINGL E PHASE CURRENT TRANSFORMER SINGL + 200 KSINGL E PHASE CURREN	NOS NOS	5 9 9 11 15 9 2 2 6 12 3 16 5 21 0 4 8 4 2 2 24 3 7 7 7 7 2 2	
$\begin{array}{c} 1.1.1\\ 1.1.2\\ 1.1.3\\ 1.1.4\\ 1.2\\ 1.2.1\\ 1.2.1\\ 1.2.1\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1$	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RRATD 11.15.3). 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.	NOS NOS NOS NOS NOS NOS NOS NOS NOS NOS	5 9 111 15 2 2 6 6 12 3 16 5 5 21 0 4 4 2 2 2 2 4 3 7 7 7 7 7 7 7 2 1 1 5 15 15	0.00
$\begin{array}{c} 1.1.1\\ 1.1.2\\ 1.1.3\\ 1.1.4\\ 1.2\\ 1.2\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3$	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplining and back filling of foundations etc complete for the following switch yard gantry/ portal structures and equipment support & others as per the technical peedfection and approved drawings, (RCC RRATO 11.5.3). 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. Switch yard gantry/portal structure foundations TTIS -132 KVINONNAL UNT WT - 12 MT) TES -132 KVINONNAL UNT WT - 0.8 MT) TES -132 KVINONNAL UNT WT - 0.8 MT) TES -333 KVINONNAL UNT WT - 0.8 MT] TES -333 KVINONDE UNT - 0.8 MT - 0.	NOS NOS	5 9 11 15 2 2 2 2 2 3 16 5 21 0 4 2 24 3 7 7 2 1 2 15 3100 300	
1.1.1 1.1.2 1.1.3 1.1.4 1.2 1.2.1 1.2.1 1.2.1 1.2.1 1.2.1 1.3.1 1.3.1 1.3.1 1.3.2 1.3.3 1.3.4 1.5 1.6 1.7 1.8 1.10 1.11 1.14 1.14 1.15 1.16 1.17 1.165 1.17 1.17 1.17	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplining and back filling of foundations etc complete for the following switch yard gantry/ portal structures and equipment support & others as per the technical peedfection and approved drawings, (RCC RRATO 11.5.3). 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. Switch yard gantry/portal structure foundations TTIS -132 KVINONNAL UNT WT - 12 MT) TES -33XVINONNAL UNT WT - 0.6 MT) TES -33XVINONDAL UNT WT - 0.6 MT - 0.6 MT - 0.6 MT - 0.6 MT -	NOS NOS NOS NOS NOS NOS NOS NOS NOS NOS	5 9 111 15 2 2 6 6 12 3 16 5 5 21 0 4 4 2 2 2 2 4 3 7 7 7 7 7 7 7 2 1 1 5 15 15	0.00 0.00
$\begin{array}{c} 1.1.1\\ 1.1.2\\ 1.1.3\\ 1.1.4\\ 1.2\\ 1.2.1\\ 1.2.1\\ 1.2.1\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1$	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RRATO 11.15.3). This also includees excavation in all types of soil or rocks,back filling and disposal of excess earth as per the direction of Engineer In charge.	NOS NOS	5 9 11 15 2 6 12 3 16 5 21 0 4 2 24 3 7 7 2 15 3100 2600 3000 500	0.00 0.00 0.00
$\begin{array}{c} 1.1.1\\ 1.1.2\\ 1.1.3\\ 1.1.4\\ 1.2\\ 1.2.1\\ 1.2.1\\ 1.2.1\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1$	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplining 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 RRATD 11.15.31. 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. Switch yard gantry/portal structure foundations T15-152 XVINOMINAL UNIT WT-12 MT) Ta5-132VVINOMINAL UNIT WT-10 SMT) Ta5-33VINOMINAL UNIT WT-0.56 MT) Ta5-33VINOMINAL BACK TA5-56 MT) Ta5-76 M	NOS NOS	5 9 11 15 2 2 2 2 2 3 16 5 21 0 4 2 24 3 7 7 2 1 2 15 3100 300	0.00 0.00
$\begin{array}{c} 1.1.1\\ 1.1.2\\ 1.1.3\\ 1.1.4\\ 1.1.3\\ 1.1.4\\ 1.2\\ 1.2\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3$	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplining and back filling of foundations etc complete for the following switch yard gantry/ portal structures and equipment support & others as per the technical psedification and approved drawings, RCC RRATD 11.15.33. 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. Switch yard gantry/portal structure foundations T15-152 XVINOMMAL UNIT WT-12.MT) T45-132V/INOMMAL UNIT WT-0.54 MT) T45-333V(NOMMAL UNIT WT-0.56 MT) T45-330V(NOMMAL UNIT WT-0.56 MT) T45 VV 2000, 315 AL & CORE SINGLE PHASE CURRENT TRANSFORMER T46 VV 2007, 250, 250, 250, 250, 250, 250, 250, 250	NOS NOS	5 9 11 15 2 6 12 3 16 5 21 0 4 2 24 3 7 7 2 15 3100 2600 3000 500	0.00 0.00 0.00
$\begin{array}{c} 1.1.1\\ 1.1.2\\ 1.1.3\\ 1.1.4\\ 1.2\\ 1.2.1\\ 1.2.1\\ 1.2.1\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1$	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RRATO 11.5.3). 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. Switch yard gantry/portal structure foundations TTIS -132 KVINONNAL UNIT WT - 12 MT) TES -33XVINONNAL UNIT WT - 0.6 MT) TES -33XVINONDAL TES -2005C, SINOLE PHASE CURRENT TRANSFORMER 16 MV - 2005C, SINOLE PHASE MT HIS UPPORTING STRUCTURE 36 WV - 2005C, SINOLE PHASE MICH PHONE TRANSFORMER TES PROTECTION (RATO 0400-020-02 M) & HAVING TWO CORE (FS 36 WV - 2005C, SINOLE PHASE MT - 1000CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	NOS NOS	5 9 11 15 2 6 12 3 16 5 21 0 4 2 24 3 7 7 2 15 3100 2600 3000 500	0.00 0.00 0.00
$\begin{array}{c} 1.1.1\\ 1.1.2\\ 1.1.3\\ 1.1.4\\ 1.1.3\\ 1.1.4\\ 1.2\\ 1.2\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3$	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RATD 11.15.33. 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. Switch yard gantry/portal structure foundations T15 -152 XVINOMAL UNIT WT - 12 MT) Tas - 33XVINOMAL UNIT WT - 08 MT) Tas - 33XVINOMAL UNIT WT - 0.8 MT Tas - 100 WT Tas - 100 WT	NOS NOS	5 9 9 11 15 2 2 2 6 12 3 16 5 21 0 4 8 4 2 2 24 3 7 7 2 2 15 3100 2600 3000 500 250	0.00 0.00 0.00 0.00
$\begin{array}{c} 1.1.1\\ 1.1.2\\ 1.1.3\\ 1.1.4\\ 1.1.3\\ 1.1.4\\ 1.2\\ 1.2\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3$	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RRATO 11.5.3). 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. Switch yard gantry/portal structure foundations TTIS -132 KVINONNAL UNIT WT - 12 MT) TES -33XVINONNAL UNIT WT - 0.6 MT) TES -33XVINONDAL TES -2005C, SINOLE PHASE CURRENT TRANSFORMER 16 MV - 2005C, SINOLE PHASE MT HIS UPPORTING STRUCTURE 36 WV - 2005C, SINOLE PHASE MICH PHONE TRANSFORMER TES PROTECTION (RATO 0400-020-02 M) & HAVING TWO CORE (FS 36 WV - 2005C, SINOLE PHASE MT - 1000CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	NOS NOS	5 9 11 15 2 6 12 3 16 5 21 0 4 2 24 3 7 7 2 15 3100 2600 3000 500	0.00 0.00 0.00
$\begin{array}{c} 1.1.1\\ 1.1.2\\ 1.1.3\\ 1.1.4\\ 1.1.3\\ 1.1.4\\ 1.2\\ 1.2\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3$	footings of any depth, pedestal and piling as per requirement including soil investigation, excavation, concreting, shuttering, grouting, underplinning 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 RATO 11.5.3). 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. Switch yard gantry/portal structure foundations TTIS -132 KVINONNAL UNT WT - 12 MT) TES - 33XVINONNAL UNT WT - 0.8 MT) TES - 33XVINONDAL UNT WT - 0.8 MT TES -	NOS NOS	5 9 9 11 15 2 2 2 6 12 3 16 5 21 0 4 8 4 2 2 24 3 7 7 2 2 15 3100 2600 3000 500 250	0.00 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.			
	 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. 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 M.S.Rod including supply of binding wire proper curing of the foundations/concrete and T&P in			
	line with the Specification and as per direction of Engineer in Charge. (4) Ply ash Brickwork with fly ash Fly ash Brick, plastering (!:6 Ratio) & curing, wherever required including the supply of labour, material, cement, etc.			
	(5)Supply, fabrication & Fixing of MS Angle(G1) for cable tray support (as per specification). The cable tray support frame shall be pre fabricated GI angle as per requirement and to be welded with the plate fixed on the trench wall for better rigidity. The plate (6mm) fixed on the wall are also to be welded with the MS			
	rods provided for the trench wall before concreting. (6) Process of PCC course (11.5-2) and its fixing on the cable trench as per space and instruction of Energy In Charge			
	(c) Testan of Rec Cross (1:1:5) Just a testage at the const activity at per observation of Eng. in Construction of Eng. (i) CABLE TRENCHES INSIDE THE CONTROL ROOM SHALL BE COVERED MUTH MS CHEQUERED PLATE(Duly painted as per instruction of Eng. in charge) INCLUDING STANDARD SUPPORT STAND (HD Galvanised (M.S JOIST, CHANNEL, ANGLE)).			
2.1	Section 1-1	Mtrs	300	0.00
2.2	Section 2-2	Mtrs	200	0.00
2.3	Section 3-3 Section 4-4	Mtrs Mtrs	300 500	 0.00
3	Rain water harvesting system as per Technical specification and approval of drawing and as per the direction of the	Nos	1	0.00
4	Engineer in charge. 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
4.2	Section 2- 2 Section 3-3	Nos Nos	1	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	RM	900	0.00
	charge.(**APPROXIMATE LENGHTH OF THE BOUNDARY WALL IN MTRS) and as per approved drawing.	KIVI	500	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.			
	Contour survey of the entire sub-station area including Supply of all labour & T&P by contractor.	SQM	43500	0.00
6.2	Cutting of sub-station area of the as per the direction of Engineer in Charge including supply of all labour, T&P (Hard & Compact Soil).	Cum	5000	0.00
6.3 7	Filling with borrowed earth beyond 30 mtrs lead as per the direction of Engineer in Charge. Switch yard buildings: Design, engineering and construction of switch yard buildings including the piling where	Cum	30000	0.00
	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	SO MTR		
	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.	SQ.MTR		
	19mtrsX11mtrs(209 sq mtrs) & Portico & Ramp			
7.1	RCC volume including MS rods(including column ,Beams and roofs etc) as per technical spec & approved drawings.	Lot	1	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
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
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 Batterv room shall be acid proof paints as per specification & approved drawings. Provision of ceiling in the control room area as per specification mentioned in the civil section & approved drawings.	Lot	1	0.00
7.5	Provision of ceiling in the control room area as per specification mentioned in the civil section & approved drawings. Doors and windows shall be of sliding type with locking facility and shall be of aluminium with glaze of 6mm & windows shall have	Lot	1	 0.00
7.7	Provision of PHD and other fittings of reputed make,provision of rain water discharge pipes at different locations and etc as per	Lot	1	0.00
1.1	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 Enqg- in-Charge. It includes supply of all types of	Lot	1	0.00
7.8	materials of reputed make, labour etc to complete the work.			
	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
7.9	Provision of smoke and fire detection system of the building. Roads: Design, construction of roads and walkways/ shoulders within sub-station(Switch yard area, approach road, control	Lot	1	0.00
	room area, main gate to the switch yard gate etc) as per specification, layout and approved drawings complete. This also includes excavation in all types of soil or rocks, back filling, and disposal of excess earth as per the direction of Enginer 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
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 switchvard to be connected to switch vard main gate.	MTRS	110	0.00
8.3	7 mtrs wide Bituminus roads with shoulder as per specification indicated in the civil section.(for main and approach roads).Shall have drain on both side of the road.	MTRS	150	0.00
9	Drainage system:Collection of rainfall data, 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 Enginer In charge.All the switcyard 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
9.2 9.3	Road-culverts, drain crossings Cable trench crossing	LOT	1	0.00 0.00
10	Foundations for transformers :Design, engineering, supply of labour, material, equipments and construction of Auto- transformer/Transformer foundation including pilling 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 tech.(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(appox)	Nos	2	0.00
	Length:7200 mmX Width 6000 mmX Height 6200 mm b) Total weight with oil and tank: 97.5 MT (appox)		-	0.00
10.2	OIL SUMP PIT:Oil collection (from transformers)sump pit with provision of pump(5 HP, with auto level control, including cabling, fixing of control gear)as per CIGRE. As per spec and approved drawing.	Nos	1	0.00
	>Oil capacity of each Transformer in Itrs appox. a) 20/40 MVA.132/33 KV: 26500 Itrs.	1103		0.00
11	PCC before site surfacing :Providing and supplying all labour, material, equipments etc. required for proper leveling of earth after erection of structures and equipments and proper compaction by using roller of adequate capacity(minimum 3 Ton capacity) with			
	water sprinkling of switch yard area. After proper leveling of the switch yard area (after anti-weed treatment), spreading of plain cement concrete with mixing ratio 1:4:8 (M10) and maintaining proper sloping for easy discharge of storm water having concrete	LOT		0.00
	thickness of 75 mm. including rolling, dressing, compacting,the area. As per technical specification and approved drawing, and as per the instruction of the Engq-in-Charge. This also includes excavation in all types of soil or rocks,back-filling,and disposal of	LOT	1	0.00
	excess earth as per the direction of Engineer in charge and approved drawing. (Switch yard area)			
12	Metal Spreading: Providing supplying and laying two layers of machine crushed metals (gravei) fill, the first layer after compaction shall make minimum 50 mm thickness coarse/ layer of 20 mm nominal size consolidated/ compacted and (by using roller as			
	shall make minimum 50 mm thickness coarser layer or 20 mm nominal size consolicateor compacted and (by using folier 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(14:8).	LOT	1	0.00
13	first layer or so mm mickness and as per me technical specification and instruction of Engineer in charge above the PCC(14:8). The total compacted thickness of the metals(20 mm Nominal) 100mm above the PCC. PROVISION OF PLANTATIONS :Provision of plantation of 100 nos fruit bearing plants and 100 nos decorative plants at different			
13	locations, a garden in front of the control room including supply of plants, soil treatment and its plantation including materials, labour	LOT	1	0.00
14	and T&P.As per the instruction of Engineer in Charge and specification. STONE PITCHING & TOE WALL: Stone pitching including making of the walls both at top and bottom, including surface drain both to the 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 distributed of contents of the second and account of the second sec			
14.1	direction of Engineer In charge and as per approved drawing and specification. Excavation in soft & Loose Soil	CUM	800	0.00
14.2 14.3	P.C.C.(1:3;6) Lean concrete Grade M-10 RR Mosonary (1:5)	CUM CUM	90 500	0.00 0.00
14.4	P.C.C.(1:2:4) Lean concrete Grade M-15	CUM	8	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	LOT	1	0.00
	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.	LOT	I	0.00
-				

16	Fire wall: Design, engineering, procurement of labour, material including all associated works for construction of fire-walls as per				
16	First, sells, sells, englised mig, pickdiminisci adapos, instense finitorianity at 65 adores wates to cutanication of the wetters a plent includes accession in all types of and or cocks ack illing and disposed of access each any 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.	2		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
14.2	PCC: M10(1:3:6) RCC M 15(1:2:4)	Cu.m. Cu.m.	1		0.00 0.00
14.4	RCC: M 20(1:1.5:3)	Cu.m.	1		0.00
14.6	Brick masonry work in cement sand mortar 1: 6 with bricks of class designation 75. 12 mm thick plaster in cement sand mortar (1: 6).	Cu.m. Sq.m.	1		0.00
14.7 15	Cutting,bending,binding(supply of binding wires) and fixing of reinforcement(including supply of reinforcement). Construction of township/colony (residential quarters) for staff and employees of the employer. Layout, design, survey, leveling,	M.T.	1		0.00
15.1	site desaing and clearing of the area, soil investigation, excavation, PCC, RCC, brick work, plastering flooring/liboring shall be with trittlet lists of reputed make with a dato of minimum inches/fulling of lactors windows and window ghills, including all labour material like centrel, and aggregate, bricks, reinforcements etc with all bought lens required for completion of the quarters as per approved control works. The standard practice of application and the inner paint shall be applied with distempt of approved quality as per the instruction and approval of the same by OPTC. This also includes execution in all types of soil or buryes and fars with electronic regulators and approval of the same by OPTC. This also includes execution in all types of soil or buryes and fars with electronic regulators and shared then as per technical specification and approved drawing. Construction of the same by the standard or and approval of thems, a service approximation and approved drawing approved specific approximation and approved thems, approximation and approved thems approximation and approved thems, approximation and approved thems, approximation and approved thems, approximation and approved thems, approximation and approved thems approximation and approved thems, approximation and approved thems approximation and approved thems, approximation and approved thems, approximation approximat				
	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 "D' type Quarter As per technical specification(20 Nos Quarter, each of size 120 SQ. Mtrs)(D1 & D2)(one no. two storied flat. Each				
15.1.1	b type Quarter As per technical specification: 1 no quarter on strong. "D" type Quarter As per technical specification: 1 no quarter on strong."				
15.1.2	Mtrs(appox) "O" type Quarter As per technical specification: 1 no quarter on first floor & the size of quarter plinth area shall be 120 Sq Mtrs(appox)	SQ MTRS	120		0.00
15.1.3	This appox) The second se	SQ MTRS	120		0.00
15.2.1	The quarter on 1st floor). (There shall be A los quarters to be accommodated in one of that E12_E3 & E4) "E" type Quarter As per technical specification: 2 nos quarters on ground floor & the quarters to be accommodated in ground floor				
15.2.2	E1 & E2 (Each quarter size plinth area shall be 73 Sq Mrs(appox) "E" type Quarter As per technical specification: 2 nos quarters on first floor & the quarters to be accommodated in ground floor E3	SQ MTRS	146		0.00
15.2.3 16	& E4(Each quarter size shall be 73 Sq Mtrs(appox)	SQ MTRS	146		0.00
	MAIN & SWITCH YARD GATES.Design, engineering, procurement of labour, material including all associated works for construction and fuing of a la main gate and one on, 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 the charge. Provision of gate lights (Poer to famert hype) on each plare of the gate. Includes supply. Shing of light futures including LED Gate lamp, LV XLPE cables, switchgear etc required to complete works as per specification and approved drawings. (Main Gate 1 No. with adjacent wicket gate & Switchyard Gate 2 Nos. with adjacent wicket gate)	Lot	1		0.00
17	COLOUR CODING. BAY MARKING EIC/besign, engineering, procument of labour, material including all associated works for the followings. This should be as per direction of site in charge. a/Codor coding (red Yellew & Biw) for equipments Burg string & Scolum of errire switch and Codo quality weather proof sitclex 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 entities switch and area.	Lot	1		0.00
18	STATION TRANSFORMER FOUNDATION Design, engineering, procurement of labour, material including all associated works for construction of foundation and DP structure foundation for station transformers 330.415 KV.250 KVA STN TRANSFORMER including excavation & RCC (11.5.3) foundation as per approved drawing and specification. SECURITY SHED & CUM VISITOR ROOM AND VEHICLE PARKING SHED: Design, engineering, procurement of labour, material	NOS	2		0.00
19	SECURITY OFED & CONTROL FOR OWNERS CEPARATES SEED, Design engineering protocement of second material protoing all associated works for construction of Security and new main generation was allowed at the corners of switch yard ass filling and disposal of excess sentin as per the direction of Engineer in charge, hermal electrification including supply of hybrid hittings and disposal of excess sentin as per the direction of Engineer in charge. hermal electrification including supply of hybrid bitmas, and write majorities and provide in of incoming AD supply from the main ACDB/outbook tooks installed for there light or colory quarters. Also includes painting of the building (in side and out side) as per recommended for colory building in the specification.				
19.1	SECURITY SHED. The size of the security shed shall be 3.5 mtrsX5mtrs and height of 3.5mtrs RCC roof, brick masonary works, plastering and painting and fixing of MS doors and windows.	Nos	1		0.00
19.2	VEHICLE PARKING SHED: 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. 100 mm thick PCC(1:2.4) flooring after the preparing the foundation base & Roof of the parting place shall be RCC A Parking shed shall be aper TS-EE-CNB & as per the direction of the the direction of the text of text of text of text of the text of t	Nos	1		0.00
20	Engineer in Charge. BORE WELL & PUMP HOUSE: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 fining and commissioning of two nos 6 1 HP submetable water pump with statter and other protection. Construction of two nos pump house at ideal location for fining of the electrical statter units. The pump house be of RCC for data in a data water and the first statter and other protection. There shall be approach to the pump house. There shall be approach to the pump house, the includes supply of materials above and T&P as executed of all type of solis including rock and disposal of excess materials as per instruction of Engineer in charge Supply & scheme as per approved drawing & instruction of Engineer-in charge.	NOS	2		0.00
21	Substation earth mat Design, engineering, suppl(sexept the GI Flats,GI Pipe,MS Recti(ordy erection)) inclusive of correston protection measures if any jaying of earth mat conductors along with risers (a) upp Finished level from the mat size 75X10 mm Almage, excevation, welfaciptioning of ground conductors along with risers (a) upp Finished level from the mat size 75X10 mm of the ground set of the finished ground level to the top of the subcute are designment shall be with 5006 mm CT Flats, with back design of the finished ground level to the top of the subcute are designment shall be with 5006 mm CT Flats, with back treated earth ptity/with details of treatment as part (B). The spacing between the earth conductor not more than 5 mms (both way) and to be buried adepth of 700mm from the finished ground level. For provision of treated earth pit and untrasted earth pit, with the required to be provided number the treated earth pit. The not, of treated and un-frieted earth pits are top close as per the practice and as indicated in the drawing for different equipments. This is as per approved drawing and specification.				
21.1 21.2	Excavation for laying of EARTHING CONDUCTOR (75x10mm for laying (spacing maximum 5m) (GI FLAT) Excavation for putting the EARTHING DEVICE INCLUDING ITS ASSOCI-ATED ACCESSORIES(50 mm heavy duty GI PIPE 3.0 mtrs long for	Lot	1		0.00
21.2	Excavation for putting the EARTHING DEVICE INCLUDING ITS ASSOCIATED ACCESSORIES(40 mm M.S. Rod 3.0 mtrs long for un-treated earth Treated earth pit) Excavation for putting the EARTHING DEVICE INCLUDING ITS ASSOCIATED ACCESSORIES(40 mm M.S. Rod 3.0 mtrs long for un-treated earth	Lot Lot	1		0.00
22	pro- STORE SHEDDesign, engineering, procurement of labour, material including all associated works for construction of store shed as per specification and approved drawing. This also includes exeavation in all types of soil or rocks,back filling,and disposed in cases earth as per the specification approved drawing and direction of figures in brange. There is sore shed of from sair 58 and the start of the specification and approved drawing and direction of figures in brange. There is sore shed of from sair 58 RR masony works (as per standard practice of flooring). Provision of adequate nos of MS racks (proper paritings also be done apper the direction of site in charge) to rekerging the space materials. The height of the shed shall be drawn so be plint.		1		0.00
23					
	PLATEORN FOR STORNOE EQUIMENTS bears, engineering, procurement of labour, material including all associated works for construction of a plateom for storing obtainings. Instrument transformers dc, as per specification and approved drawing. This also includes exemution in all types of soil or rock back filling and disposil of excess sent has per the specification.approved drawing and direction of Engineer in charge. One on platform coulds the store sheet RR mascery (compared by with PCC) at the top for the transformer download to the platform to the specification of the specification approved drawing the transformer download to the platform to the specification of the specification approved drawing start of the specification of the specification of the specification of the specification of the platform and start of the specification	Lot	1		0.00
24	PROVISION OF RAMP Design, engineering, procurement of labour, material including all associated works for construction and thing of Ram pas per specification and approved drawing. This also includes examation in all species of our or took should filling and disposit of excess earth as per the direction of Engineer to charge. Provision of a ramp of adequate size and capable of for loading and unloading of the materials of 51 cm capably from the long vor the long vore the store shed. Adequate size of MS frames and RCC (11:53) hased ramos to be used for the said purpose.	Lot	1		0.00
25 25.1	Anti-Weed Treatment Supply of labour, T&P, Chemicals and other necessary arrangements for anti-weed treat of the switch-yard areas, controlroom etc.	Sq.Mtrs	7000		0.00
	as per the instruction of Engineer-in-Charge. TOTAL OF Civil Work (PART-B)_SUBSTATION	04	7000		0.00
	TOTAL OF ERECTION PRICE_SUBSTATION				0.00
	ERECTION, TESTING & COMMISSIONING & CIVIL WORKS _ TRANSMISSION LINE				
Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-2C-SS) ERECTION,TESTING & COMMISSIONING OF FOLLOWING EQUIPMENTS ALONG WITH CIVIL WORKS (As per Technical Specification)	ÜNIT	QUANTITY: for Construction of 132 KV LILO Line from cation 123 KV CHILO Line from cation 123 XV CHILS and another the proposed 132.33 KV CHILS and another Opp. Line Length, 14.8Kms)	Unit Ercetion Rate IN INR	Total Erection Price IN INR
1	2	3	4	5	6=4x5

1.0 E 1.1 F '1.1.1 - '1.1.2 - '1.2.1 + '1.2.2 + '1.3.1 - '1.3.1 - '1.3.1 - '1.3.2 - '1.4 V '1.4.1 V	ELECTRICAL WORKS ERECTION/TESTING & COMMISSIONING of Following, tested Lattice type Galvanized steel tangent / Angle A TYPE (BUSPENSION) TOWERS (hommal unit weight 3.430 MT) (84 nos) 43 EXTENSION (hominal unit weight 0.337 MT) (16 nos) 45 EXTENSION (hominal unit weight 1.348 MT) (2 nos) 45 TYPE (3 dea ANGLE) TOWERS (hommal unit weight 4.973 MT) (16 nos) 35 EXTENSION (hominal unit weight 1.018 MT)(4 nos.) 45 EXTENSION (hominal unit weight 1.018 MT)(4 nos.) 45 EXTENSION (hominal unit weight 1.014 MT)(4 nos.) 45 EXTENSION (hominal unit weight 2.014 MT) (homin	Nos. Nos. Nos. Nos. Nos. Nos.	39 12 4 5 2	
1.1 P '1.1.1 - '1.1.2 - '1.2.1 + '1.2.2 + '1.3.1 - '1.3.1 - '1.3.2 + '1.3.4 V '1.4 V	Ar TYPE (SUSPENSION) TOWERS (Nominal unit weight 3.430 MT) (84 nos) +3 EXTENSION (Nominal unit weight 0.537 MT) (16 nos) +3 EXTENSION (Nominal unit weight 3.490 MT) (2 nos) B TYPE (30 dea ANGLE) TOWERS (Nominal unit weight 4.973 MT) (16 nos) 3 EXTENSION (Nominal unit weight 1.494 MT) (2 nos)	Nos. Nos. Nos. Nos.	12 4 5	
'1.1.2 - 1.2 P '1.2.1 + '1.2.2 + 1.3 - '1.3.1 - '1.3.2 - 1.4 V 1.4.1 V	46 EXTENSION (Nominal unit weight 1.349 MT) (2 nos) 96 TYPE (20 dea ANGLE) TOWERS (Nominal unit weight 4.973 MT) (16 nos) 35 ZYETENSION (Nominal unit weight 1.018 MT)(4 nos.) 46 EXTENSION (Nominal unit weight 2.104 MT) (0 nos)	Nos. Nos. Nos.	4 5	
1.2 P '1.2.1 + '1.2.2 + 1.3 P '1.3.1 - '1.3.2 - 1.4 V 1.4.1 V	PB TVPE (30 deg. ANGLE) TOWERS (Nominal unit weight 4.973 MT) (16 nos) 3 EXTENSION (Nominal unit weight 1.018 MT)(4 nos.) 6 EXTENSION (Nominal unit weight 2.104 MT) (0 nos)	Nos. Nos.	5	
'1.2.2 + 1.3 P '1.3.1 - '1.3.2 - 1.4 V 1.4.1 V	6 EXTENSION (Nominal unit weight 2.104 MT) (0 nos)		2	
1.3 P '1.3.1 - '1.3.2 - 1.4 V 1.4.1 V			0	
'1.3.2 + 1.4 V 1.4.1 V	PC TYPE (60 deg ANGLE) TOWERS (Nominal unit weight 6.214 MT) (3 nos)	Nos.	14	
1.4 V 1.4.1 V	+3 EXTENSION (Nominal unit weight 1.068 MT) (0 nos)	Nos.	5	
1.4.1 V	+6 EXTENSION (Nominal unit weight 2.243 MT) (0 nos) WEIGHT OF THE STRUCTURES (including Tower stubs, & Foundation Nut and Bolts)	Nos. MT	279.10	0.00
	Weight of different type G.I Nuts and Bolts	MT	14	0.00
	Fixing of of Templates & setting of stubs	Sets	39	0.00
'1.5.2 F	PB Type	Sets	5	0.00
	PC Type Hoisting and fixing of insulators with required accessories(power conductor accessories,Earth conductor	Sets	14	0.00
a ,j v u t	accessories.Anti fog type insulators & hard ware fittings tower accessories etc), paying out of conductor jointing, stringing, sagging & Jumpering etc. of power conductor with G.I. Earth wire in the proposed lines and with earth wire with all required accessories including scaffolding for 33 KV,11 KV, LT, P&T lines, roads and particular T&P and compression jointing machines etc. with provision for Sag & Wastage and as per be direction of Foundary to the state of th			
1.6.10 5	SINGLE CIRCUIT (ACSR/AAAC, THREE POWER CONDCTOR & 1 EARTH WIRE)	Route(Km)	0.00	0.00
1.6.11 C	DOUBLE CIRCUIT (ACSR/AAAC,SIX POWER CONDCTOR & 1 EARTH WIRE) COUNTER POISE EARTHING	Route(Km) Mtr. Length	14.88	0.00
1.11 E	Erection of earthing device including supply of materilas as per Technical Spec	Nos.	64	0.00
2.0 b s ti	TCC approval, raiway crossing has to be obtained by submitting the required documents to the concerned legariment through OPTCL. Way-Leave blockade charges and any other charges are to be bonne by the olders. The documents for PTCC clearance & Raiway clearance including required drawings etc has to be submitted by the contractor within 5 months of award of contract. Beyond the above period LD as applicable & the amount shall be deducted as specified in the specification.	LS	1	0.00
	DPGW SYSTEM nstallation of OPGW cables & hardware sets	Kmtr	14	0.00
'3.2 li	nstallation/Commissioning of FOTS/OLTE	LS	1	0.00
PARTR	TOTAL of ELECTRICAL WORKS Part-I (A) TRANSMISSION LINE CIVIL WORKS			0.00
	SURVEY OF LINE & PREPARATION LAND SCHEDULE: Supply of required T&P's, Technical			
' P	personnel's, labours for conducting			
t: F li	Preliminary survey. Detail survey and resurvey (required for avoiding ROW problem) including but not limited to aking of levels, profile plotting, tower spotting, marking of towers locations at site including showing P&T line, over line, Ralway line, river crossing, roads and submission of route map and survey report etc. The P&T ines and railway lines for a minimum distance of 8 kms on either side of alignment shall be clearly indicated.	KM.	14.88	0.00
	Check survey including supply of all labour, T&P as per instruction of Engineer in Charge and as per the approved profile.	KM.	14.88	0.00
1.3 F F fi	reparation of land schedule on revenue (if required/maps indicating alignment therein duly authenticated by Revenue Inspector & Tahasidare, enumeration of threes with the help of Forest officer and other prominent eatures required for alignment of the proposed 132 KV line. Final route to be plotted on 1:50000 topo sheet for approval.	KM.	14.88	0.00
	Soil Testing in complete shape along with submission of report etc. up to the depth of 15 Mtrs. Soil Testing in complete shape along with submission of report etc. up to the depth of 45 mtrs for River bed pile.	Per Loc.	29	0.00
1.5		Per Loc.	0	0.00
	EXCAVATION WORKS FOR OPEN CAST/SHALLOW TYPE FOUNDATIONS Excavation for following type of soil and rocks and back filling (back filling shall be done in layers of			
2.1 s	Accession for holewing type of son and rocks and back hilling (back hilling shall be done in layers on domin sprihiling of water and compaction threafter and disposed of excess quantity of excessited soil at suitable place after back filling). & if required for filling the foundation, borrowed arth/morrum/sand shall be brought for filling and compaction, including supply of sand, all T&P, abour as required. SoftLoces soil	CUM	135	0.00
2.1.2	Dense/Compact soil	CUM		0.00
2.1.3 V	Net Soil	CUM	2810	0.00
	Partial Submerged soil Fully submerged soil	CUM CUM	556 2039	0.00
	Soft/Disintegrated rock(Not requiring Blasting)	CUM	178	0.00
2.1.7 -	Hard Rock(Requiring Blasting/Using breaker machinery)	CUM	40	0.00
a	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 aid down in the technical specification and the direction of the site- in charge			
3.1 E	Design, Engineering, Providing and laying of plain coment concrete (PCC 13:6) of grade M10 with approved quality coarse aggregates (Nominal size 12mm to 20mm), fine aggregates, coment in tower foundation as slind 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.	СЛМ	213	0.00
fi c s c t t t t E E	Design. Engineering and laying of reinforced cement concrete (RCC11.5.3) of grade M20 for open cast condation with supply of approved quality coarse aggregates(Nommal size 12mm to 20mm), fine aggregates, sement and steel of different size(as per design) with cuting, 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, shorting, shuttering, testing of sample cement concrete cubes as per IS. The height of he coping shall be 350mm above the finished concrete level. The surrounding area shall be clear from haterials. Damage of land if any by the contractor shall be repaired before messurement. This includes supply al all abourers, T&P and dewatering wherever required as per Technical specification and instruction of noineer. In charge.	CUM	1055	0.00
5.1 o	PILE FOUNDATION (UNDER-REAMED) Supply of all materials like cement, steel, all coarse aggregates, fine aggregates and making Under-reamed pile foundations (after pile boring as per required depth, basing on design by means of manual Auger or motor there machinery etc.) of the required above mentioned type lowers and as per requirement, including supply of all equipments with labours, proper curing of the foundations and T&P as per specification in the concrete ato 11.5.3 (Greade M-20) including supply of Bernolnie required for stabilization bore of required diameter pore holes applicable for under ream piles up-to the depth of 20 Mrs.			
	375MM DIA	Mtr.	0	0.00
	450MM DIA	Mtr. Mtr.	0	0.00
5.1.4 6	SOOMM DIA	Mtr.	0	0.00
5.2 0	CAPPING, PEDESTAL & TIE-BEAM CONCRETE WORKS OF UNDER-REAMED PILE			
5.2.2 F	*CC(Lean Concrete) in the ratio 1:3:6(Grade M-10) Jein riser (if required),capping, the beams etc., required for stub setting including supply of rods, cement, ifferent gradient for concrete ratio 1:1.5:3 (Grade M-20.) including curing minimum for 15 days continuous with xcavation in all type of soils and back filling etc. PLE FOUNDATION (RIVER BED PLE DORING BY DMC METHOD)	CUM	0	0.00
5.3.1 S fr iii fr E	Supply of all materials like coment, steel, all coarse aggregates, fine aggregates and applying DMC Method pile oundations (after pile boring as per required depth), basing on design by means of machinery and high power pumps etc. used for DMC method piling) of the required above mentioned type towers and as per requirement, ncluding supply of all equipments shoring & shuttering materials, devatering with labours, proper curing of the oundations (after APA as per specification in the concrete ratio 11.15.3 (Grade M-20.) including supply of Bentonite required for stabilization bore of required diameter bore holes applicable for piles beyond 20 Mtrs.			
5.3.1.1 5	500MM DIA 1000 MM DIA	Mtr. Mtr.	0	0.00
5.3.1.3 F	1000 MM DIA Fixing charges of MS Liner including the supply of materials like MS Sheetofadequate hickness, fabrication, cutting, bending, binding, putting the liner in appropriate position and other related works	Mtr. MT	0	0.00
5.4 F	PILE RES.CAPPING, PEDESTAL & TIE-BEAM CONCRETE WORKS OF RIVER-BED PILE. PCC(Lean Concrete) in the ratio 1:3:6(Grade M-10) Pic rise (if required), capping, tie beams etc. required for stub setting including supply of rods, cement,	CUM	0	0.00
d	ifferent gradient for concrete ratio 11.5/3 (Grade M-20.) including curing minimum for 15 days continuous with scavation in all type of soils and back filling etc. De WATERINGFOR OPEN CAST LOCATION)	CUM	0	0.00
5.5	i) With Supply of all T&P on Man Hour basis.	Man Hour	0	0.00
5.5 E	ii) With Supply of all T&P, Fuel, Lubricant & electricity on HP Hour basis.	HP Hour	1200	0.00
5.5 [5.5.1 (5.5.2 (Sumply of borrowed earth/morrum for back filling for foundation/automationation			
5.5 E 5.5.1 (5.5.2 (5.6 S	Supply of borrowed earth/morrum for back filling for foundation/revertment works i) Up to 30 mtr lead	CUM	0	0.00
5.5 E 5.5.1 (5.5.2 (5.6 \$ 5.6.1 (5.6.2 (i) Up to 30 mtr lead ii) Beyond 30 mtr lead	CUM	0	0.00
5.5 [5.5.1 () 5.5.2 () 5.6 [5.6.2 () 5.6.3 () 5.6.3 ()	i) Up to 30 mtr lead			

5.9	WELDING OF TOWER MEMBERS			
	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		95449	0.00
	portion after welding (two coats),fuel,lubricants,T&P and labours and other arrangements etc.			
	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			
Ŭ	the towers, where felt unsafe and as per approved drawing and the direction of Engineer in charge.			
6.1	Excavation in all type of soil including rock & back filling including supply of sand with back filling.	CUM	1000	0.00
6.2	Lean Concrete in the ratio1:3:6(Grade M-10) including supply of sand chips etc.	CUM	200	0.00
6.3	PCC in the ratio 1:2:4(Grade M-15) as above.	CUM	100	0.00
6.4	RR Massonary work in the ratio 1:5.	CUM	3000	0.00
6.5	Plastering & Punning etc.	SQ.MTR.	0	0.00
6.6	stone Pitching	CUM	0	0.00
	TOTAL OF Civil Work (PART-B)_TRANSMISSION LINE			0.00
	TOTAL OF ERECTION PRICE_TRANSMISSION LINE			0.00
	TOTAL OF ERECTION PRICE _SCHEDULE 2C			0.00

		ODISHA POWER TRANSMISSION CORPORATION LIMITED
		NAME OF THE WORK:-Construction of 2X20 MVA.132/33 KV S/s at
		TUSURA in Bolangir district with associated 132 KV LILO Line from existing
		132 KV Bolangir-Saintala line. (App. Line Length: 14.8Kms.)
	PACKAGE 67(II)/2014-15	
		NOTICE INVITING TENDER-NIT NO. 67/2014-15 & BID DOCUMENT No.:Sr. G.M-
		CPC- TENDER- TUSURA(BOLANGIR)- PACKAGE- 67(II) / 2014-15
		SCHEDULE-1(ABSTRACT OF PRICE SCHEDULE)
	NAME OF THE BIDDER	
Sl. No.	DESCRIPTION OF SCHEDULES	PRICE IN INR
1	2	3
1.0	Substation_Supply of Equipments and materials	
1.1	TOTAL of Ex-Works / Basic Price	
1.2	TOTAL Excise Duty	
1.3	TOTAL VAT	
1.4	TOTAL CST	
1.5	TOTAL Any other tax	
1.6	TOTAL F&I CHARGES	
Σ 1.1 :1.6	Total of Substation_Supply	0.00
2.0	Transmission Line_Supply of Equipments and materials	
2.1	TOTAL of Ex-Works / Basic Price	
2.2	TOTAL Excise Duty	
2.3	TOTAL VAT	
2.4	TOTAL CST	
2.5	TOTAL Any other tax	
2.6	TOTAL F&I CHARGES	
	Total of Transmission Line_Supply	0.00
3.0	Mandatory spares_Supply	
3.1	TOTAL of Ex-Works / Basic Price	
	TOTAL Excise Duty	
3.3	TOTAL VAT	
3.4	TOTAL CST	
3.5	TOTAL Any other tax	
3.6	TOTAL F&I CHARGES	
<u>Σ</u> 3.1 :3.6	Total of Mandatory spares_Supply	0.00
4.0	Total of Schedule 2A _ Supply contract price	0.00
5.0	Substation_ (Electrical work charges, Civil work charges)	
5.1	Electrical works	
5.2	Civil works	0.00
Σ 5.1 :5.2	Total of Substation_Electrical work charges & Civil works charges	0.00
6.0	Transmission Line_(Electrical work charges, Civil work charges)	
6.1	Electrical works	
6.2	Civil works	
	Total of Transmission Line_Electrical work charges & Civil works charges	0.00
7.0	Total of Schedule 2C _ Erection contract price	0.00
8.0	Total Bid Price (Supply + Erection)	0.00

NAME OF THE WORK:-Construction of 2X20 MVA,132/33 KV S/s at TUSURA in Bolangir district with associated 132 KV LILO Line from existing 132 KV Bolangir-Saintala line. (App. Line Length: 14.8Kms.) NOTICE INVITING TENDER-NIT NO. 67/2014-15 BID DOCUMENT No.:Sr. G.M- CPC- TENDER- TUSURA(BOLANGIR)- PACKAGE- 67(II) / 2014-15 SCHDULE 1 (PART-II) (D1, D2,E,F,G) - DETAILS OF TAXES AND DUTIES									
					SI No	NAME OF THE BIDDER Description of Applicable Tax/Levy	Item /Component Sl. No. of Bid price on which	Tax @%	Total Amount of Tax
							Applicable		/Duty/ Levies
D1	Details of Taxes and levies on the direct transactions between Bidder and ODISHA POWER TRANSMISSION CORPORATION LTD. applicable on the date of bid opening, not included in the Bid Price above but as may be payable by ODISHA POWER TRANSMISSION CORPORATION LTD								
(i)	Excise Duty [as per Schedule-2A]								
(ii)	CST [as per Schedule-2A]								
(111)	VAT/Sales Tax [as per Schedule-2A]								
(iv)	Any other Levies: [as per Schedule-2A] except Entry Tax** (please specify): Central :-								
(a	a)								
(b))								
	TOTAL OF TAXES AND DUTIES [Sum (i) to (iv)			0.00					
D2	Service Tax***			0.00					
F	C. Appliantia Esta ten proble i en edditionalle is								
E	E. Applicable Entry tax payable if any additionally in respect of bought-out finished items which shall be dispatched directly from our sub-vendor's works to Employer's site (sale-in-transit).								
F	F. Total Bid Price: (including Taxes & Duties and other levies, but excluding entry tax and service tax, if the contract is awarded to us)								
G	G. The total bid price as summarised herein is derived from Schedule 2A,2B, 2C and 3, However, in the event of a difference in prices between schedule-2A,2B,2C & 3 and Schedule-1, the total price, derived from the quoted unit price in Schedule 2A,2B,2C and 3 after arithmetical corrections if any, shall prevail and the quoted total bid price								

* List of the items and their values considered under this component of bid price for taxes and levies to be enclosed by separately as annexure to this Schedule
 ** Entry Tax for all direct items shall not be included in the bid price, as the same shall be reimbursed at actual on the production of documentary evidence
 *** Service Tax on Erection price shall not be included in the bid price, as the same shall be reimbursed at actual on the production of documentary evidence.
 NOTE:- Lumpsum prices quoted by the Bidder shall include cost of total scope of work and any other supplies/work(s) not specifically mentioned in the Bidding Document but i) Excise Duty/VAT/Sales Tax/Service Tax any other taxes (except Octroi & Entry Tax) shall be inclusive in the bid price and shall not be paid/reimbursed separately.
 ii) Entry Tax for bought out items shall not be included in the bid price, as the same shall be reimbursed at actual on the production of documentary evidence.