

				PAYMENT MADE THROUGH EFT/RTG							
NORTH CENTRAL RAILWAY				ELECTRICAL DEPARTMENT							
Bill No.AGC/Dy CEE/C/T/02/2011/08 dated 31.12.2013				9th ON ACCOUNT BILL							
Name and Address of Contractor:-M/s Kailash Electricals, S-1 Bishambhar Dham, Opp Suraj Hospital, 117/N/52, KakaDev, Kanpur-208025											
Name of work: (A) Design, Supply , erection, testing & commissioning of 132/25 Kv Traction substation with 2400 KVAR shunt capacitor bank at Runkuta station of Agra division . (B) Design, supply, erection, testing & commissioning of 132 KV Double circuit AC Transmission line for Runkuta TSS of Agra division and (C) Design, supply,erection , testing & commissioning of 25kv Spat Farah, conversion of Bilaspur to 25kv in SSP of Agra Division.											
Authority for work:-DY.CEE (C ) AGC						C.A.NO.AGC/Dy CEE/C/T/02/2011/01 dated 14.11.2011					
	Work done upto					Bank Name : Union Bank of india Kaushalpur, Kanpur					
1	Date of commencement		14.11.2011								
2	Date of completion		14.11.2012				IFS Code : UBIN0543586				
3	Date of actual completion		Work in progress				A/c No. 435804010021095				
4	Date of extension		31.3.14				PAN No. AAIPC0351Q				
5	Date of measurement		31.12.13								
	Description of work	Sch.	Rev.	Unit		Qty.executed		Payment on the basis		%age of	
		Qty	Qty			since last	Upto date	of actual measurement		payment	
						certificate	as per MB	Upto date	Since last bill		
				SOR Rate							
				Material	Supply						
1	2	3		4	5	6	7	8	9	10	11
1	Design and drawings for traction Sub-station.	1	1	Each	0.00	19782.00	NOT OPERATED				
1 (b)	Design and drawings for feeding stations & Switching stations.	4	4	Each	0.00	7393.00					
2 (a) (i)	Concrete for foundation & trench in hard soil	10	10	Cum	1002.00	333.00					
2 (b) (i)	Concrete for foundation & trench other than hard soil & rock.	600.00	600.00	Cum	1004.00	250.00	0	367.374	414618.30	0.00	
					S		10.697	10.697	9665.81	9665.81	90% OF
					E		10.697	10.697	2406.83	2406.83	90% OF
2 (c) (i)	Reinforced concrete for foundation & trench.	100	100	Cum	1209.00	302.00	NOT OPERATED				
2 (c) (ii)	Cable trench covers.	125	125	Sq.m.	446.00	106.00					
2 (d)	Reinforced brick work to baffle wall										
2 (d) (i)	Reinforced brick work.	30	30	Cum	1121.00	222.00					
2 (d) (ii)	Plastering of brick work.	100	100	Sq.m.	18.00	12.00					
4(a)	Supply, fabrication, galvanization & erection of steel gantries/portals, supporting structures and small parts steel work.	45	45	Tonne	32829.00	832.00	0	42.859	1125614.49	0.00	
					S		16.85	16.85	55316.87	55316.87	10% OF
					E		16.85	16.85	12617.28	12617.28	90% OF
5 (a)	Supply & erection of 132KV double pole isolators (manually operated)	5	5	Each	118716.00	845.00	0	5	474864.00	0.00	
					S		5	5	59358.00	59358.00	10% OF
					E		5	5	3802.50	3802.50	90% OF
5 (b)	Extra for supply & erection of earthing blade assembly for 132 KV double pole isolators (Manually operated)	1	2	Each	9044.00	178.00	0	1	7235.20	0.00	
					S		1	1	904.40	904.40	10% OF
					S		1	1	8139.60	8139.60	90% OF

					E		2	2	320.40	320.40	90% OF
6	Supply & erection of 132 kV Current transformer, 400-200/5A	4	4	Each	103418.00	482.00	0	4	330937.60	0.00	
					S		4	4	41367.20	41367.20	10% OF
					E		4	4	1735.20	1735.20	90% OF
7	Supply & erection of 132KV Lightning Arrest.	8	8	Each	60514.00	341.00		8	387289.60	0.00	
					S		8	8	48411.20	48411.20	10% OF
					E		8	8	2455.20	2455.20	90% OF
10 [c]	Extra for erection of interlocking mechanism	12	12	Each	0.00	52.00	NOT OPERATED				
11 [a]	Supply & erection of 25KV Potential Transformer Type - II)	2	3	Each	22210.00	204.00	0	2	35536.00	0.00	
					S		2	2	4442.00	4442.00	10% OF
					E		2	2	367.20	367.20	90% OF
11 [b]	Supply & erection of 25KV Potential Transformer Type - I)	10	13	Each	26242.00	206.00	0	10	209936.00	0.00	
					S		4	4	10496.80	10496.80	10% OF
					E		4	4	741.60	741.60	90% OF
12	Supply & erection of 25KV Current transformer 1500/750/5A	4	6	Each	28927.00	199.00	0	4	92566.40	0.00	
					S		4	4	11570.80	11570.80	10% OF
					E		4	4	716.40	716.40	90% OF
13	Supply & erection of control panel suitable for double transformer traction sub station (132/25kV)	1	1	Each	774680.00	3904.00	0	1	619744.00	0.00	
14	Supply & erection of 25kV Lightning Arrestors.	15	15	Each	27720.00	135.00		15	332640.00	0.00	
					S		7	7	19404.00	19404.00	10% OF
					E		7	7	850.50	850.50	90% OF
16	Supply & erection of 25kV Drop out fuse switches for 10 KVA Auxiliary Supply transformers.	2	3	Each	5252.00	116.00	0	2	8403.20	0.00	
					S		2	2	1050.40	1050.40	10% OF
					E		2	2	208.80	208.80	90% OF
17 (a)	Supply & erection of tubular aluminum busbars 50x39mm dia.	250	300	Mtrs.	219.00	14.00	0	246	43099.20	0.00	
17 (b)	Supply & erection of Zebra ACSR conductor.	350	350	Mtrs.	135.00	3.00	0	350	37800.00	0.00	
17 (c)	Supply & erection of busbar junctions & connectors.										
17 (c) (i)	Rigid bimetallic terminal connector suitable for 50 dia Aluminum tubular busbar to terminal pad of 25KV Isolator/CT (ID-11090)	60	60	Each	962.00	8.00	0	60	46176.00	0.00	
17 (c) (ii)	Details of expansion type terminal connector to suit 50 dia Aluminum tubular busba, terminal pad of 25kV CT/Isolator (ID-11060)	10	10	Each	1491.00	8.00	0	10	11928.00	0.00	
17 (c) (iii)	25KV system rigid Bus splice connector to suit 50 O/D Aluminum tube on both ways (ID-11180)	12	15	Each	892.00	8.00	0	12	8563.20	0.00	
17 (c) (iv)	25kV System TEE connector to suit 50 O/D Aluminum tubular Busbar (ID-11150)	15	15	Each	947.00	8.00	0	11	8333.60	0.00	
17 (c) (v)	Rigid through connector to suit 50 dia Aluminum tubular Busbar & Spider AAC conductor for 25kV PT Type II (ID-11110)	6	12	Each	842.00	8.00	0	6	4041.60	0.00	
17 (c) (vi)	25kV system expansion Bus coupler to suit 50 O/D Al. tube (ID-11210)	2	2	Each	2021.00	8.00	0	1	1616.80	0.00	

17 (c) (vii)	132kV System TEE connector to suit 50,O/D Aluminum tubular spider conductor (ID-11140)	8	14	Each	848.00	8.00	0	7	4748.80	0.00	
17 (c) (viii)	132 KV System TEE to suit Zebra (28.58 dia) ACSR conductor on both ways.(ID-11040)	50	50	Each	907.00	8.00	0	28	20316.80	0.00	
17 (c) (ix)	Rigid terminal connector suitable for 20 dia Al. conductor to terminal pad of 132 KV Isolator & 25kV PT Type I & II. (ID-11120)	8	8	Each	729.00	8.00	0	8	4665.60	0.00	
17 (c) (x)	Rigid terminal connector on SI to suit 50mm O/D Alm Busbar O/D Al. Busbar (ID-11200)	30	32	Each	356.00	8.00	0	30	8544.00	0.00	
17 (c) (xi)	Sliding clamp for 50mm O/D Al. Busbar (ID-11190)	6	6	Each	531.00	8.00	0	4	1699.20	0.00	
17 (c) (xii)	Rigid connector on SI to suit Zebra (28.58 dia) ACSR conductor (ID-11050)	2	4	Each	379.00	8.00	0	2	606.40	0.00	
17 (c) (xiii)	25kV System Tee connector to suit 36 O/D Al. Busbar to 50mm O/D Al. Busbar (ID-11240)	2	2	Each	947.00	8.00	0	2	1515.20	0.00	
17 (e)	Supply & Erection of copper jumper.	20	20	Each	801.00	58.00	NOT OPERATED				
17 (f)	Supply & Erection of an Al. Jumper	20	20	Each	686.00	53.00					
18 (a)	Supply & erection of 132KV Support Insulator.	8	8	Each	12623.00	161.00	0	8	80787.20	0.00	
					S		4	4	5049.20	5049.20	10% OF
					E		4	4	579.60	579.60	90% OF
18 (b)	Supply & erection of 25KV Support Insulator.	40	40	Each	1543.00	46.00	0	40	49376.00	0.00	
					S		27	27	4166.10	4166.10	10% OF
					E		27	27	1117.80	1117.80	90% OF
11 (a) ii	Supply & erection of 25KV Solid core Suspension Insulator.	16	16	Each	1610.00	81.00	0	0	0.00	0.00	
17 (c) (i)	Supply & erection of 132kV termination with Disc insulator with adjuster.	8	8	Each	4719.00	84.00	0	8	30201.60	0.00	
17 (c) (ii)	Supply & erection of 132kV termination with Disc insulator without adjuster.	8	8	Each	4431.00	84.00	0	8	28358.40	0.00	
19	Supply & erection of 110V, 200 AH Low maintenance lead acid batteries.	1	1	Set	147486.00	2294.00	0	1	117988.80	0.00	
20	Supply & erection of Battery chargers for 110V 200 AH Low Maintenance Lead Acid Batteries.	2	2	Each	86800.00	270.00	NOT OPERATED				
21	Supply & erection of terminal board	1	1	Each	4030.00	98.00					
21 (a)	Supply & erection of iron clad fuse box	1	1	Each	124.00	23.00					
21 (b)	Supply & erection battery Charger of 110V 40AH low maintance Lead Acid Batteries.	3	3	Each	67983.00	1478.00	0	3	163159.20	0.00	
21 (c)	Supply & erection of batter charger for 110V 40AH low maintance Lead Acid Batteries.	3	3	Each	22998.00	203.00	NOT OPERATED				
21 (d)	Supply and erection of 240 V LT distribution boards in the control room for 10KVA LT supply transformer.	1	1	Each	15996.00	233.00	0	1	12796.80	0.00	
21 (e)	Supply and erection of 110V DC distribution boards.	1	1	Each	7651.00	170.00	0	1	6120.80	0.00	
23	Supply & Installation of cables.										
23 (a)	For circuit breakers & Interrupter control and indication circuits. (7x2.5Sq.mm. Copper)	2000.00	2550.00	Mtrs.	59.00	4.00	0	2000	94400.00	0.00	
23 (b)	For transformer alarm. trip circuits & tap changer control (10x2.5Sq.mm. Copper)	550.00	550.00	Mtrs.	83.00	4.00	0	550	36520.00	0.00	
23 (c)	For transformer bushing CT circuits & 110V DC circuits. (4x4 Sq.mm. Copper)	150.00	325.00	Mtrs.	57.00	4.00	0	150	6840.00	0.00	
23 (d)	Current transformer circuits, 110V DC & 240V AC supply circuits.(2x4Sq.mm. Copper)	1000.00	1100.00	Mtrs.	33.00	4.00	0	1000	26400.00	0.00	
23 (e)	Potential transformer and 240V,AC supply circuits(2x2.5 Sq.mm. Copper)	700.00	700.00	Mtrs.	23.00	4.00	0	700	12880.00	0.00	
23 (f)	240V Heater circuit (2x4 Sq.mm.)	700.00	775.00	Mtrs.	18.00	3.00	0	700	10080.00	0.00	

23 (g)	L.T. power supply to control room (2x25 Sq.mm. Al.)	2000.00	2000.00	Mtrs.	56.00	5.00	0	2000	89600.00	0.00	
24	<b>Supply &amp; erection of earth systems</b>										
24 (a)	Earth electrode.	50	50	Each	989.00	309.00	0	50	39560.00	0.00	
24 (b)	Earth leads 75mm x 8mm mild steel laid in the ground.	400	400	Mtrs.	70.00	19.00	0	400	22400.00	0.00	
24 (c)	Earth leads 50mm x 6mm mild steel laid in the ground.	800	800	Mtrs.	34.00	14.00	0	800	21760.00	0.00	
24 (d)	Earth leads 75mm x 8mm mild steel laid exposed.	200	200	Mtrs.	70.00	14.00	0	200	11200.00	0.00	
24 (e)	Earth leads 50mm x 6mm mild steel flat laid exposed.	800	800	Mtrs.	34.00	12.00	0	800	21760.00	0.00	
24 (f)	8 SWG GI Wire for earthing.	100	130	Mtrs.	6.00	5.00	NOT OPERATED				
24 (g)	32mm dia MS Rod for earth mat.	1800	1800	Mtrs.	80.00	5.00	0	1800	115200.00	0.00	
25 (a)	Supply & erection of earth screen wires.	350	350	Mtrs.	89.00	4.00	0	350	24920.00	0.00	
26 (a) (i)	Supply & erection of Alu bus bar 36mmx28mm	100	100	Mtrs.	113.00	14.00	NOT OPERATED				
26 (b) ii)	Supply & erection Alu connrctors, bus splice	8	8	Each	672.00	9.00	0	8	4300.80	0.00	
26 (b) iii)	Supply & erection Alu bus bar connector / T connector	8	8	Each	685.00	8.00	0	8	4384.00	0.00	
26 (b) iv)	Supply & erection Al busbar connrctor/Terminal connector	16	16	Each	632.00	8.00	0	16	8089.60	0.00	
26 (b) vi)	S&E Al busbar connecto /Terminal connector bolted type.	8	8	Each	517.00	8.00	NOT OPERATED				
26 (a)	Supply & erection of fencing panels at sub - stations.	700	700	Mtrs.	617.00	19.00	239.98	239.98	133260.89	133260.89	90% OF S
					E		239.98	239.98	4103.66	4103.66	90% OF E
26 (b)	Supply & erection of fencing uprights.	10	10	Tonne	20022.00	522.00	0	10	160176.00	0.00	
					S		3.1202	3.1202	6247.26	6247.26	10% OF
					E		3.1202	3.1202	1465.87	1465.87	90% OF
26 (c)	Supply & erection of gates.	10	10	Mtrs.	621.00	52.00	8.66	8.66	4840.07	4840.07	90% OF S
							8.66	8.66	405.29	405.29	90% OF E
26 (d)	Supply & erection of anticlimbing device at Sub - stations.	650	650	Mtrs.	100.00	2.00	NOT OPERATED				
27	Erection, testing & commissioning of 132/27 kV, 21.6 MVA single phase power transformer.	2	2	Each	0.00	77430.00					
28	Supply & spreading of Ballast/Gravel in the switch yard.	300	300	Cum	345.00	2.00					
29	Supply & manual erection of all Aluminum25kv feeder/Return conductor (SPIDER).	4	4	km	61020.00	828.00					
30	Supply and erection of large copper jumper 160 sq. mm between Alimn. Bus and cross feeders	16	16	Each	415.00	58.00					
31	Erection of copper feeder wire (37/2.25mm HDBC)	0.8	0.8	km	161485.00	828.00					
32	Supply (other than insulator ) & erection of materials including insulators for termination of copper cross feeder with gantaries	14	14	Each	1698.00	196.00	NOT OPERATED				
35	Supply of materials and erection of large copper jumper 160sqmm between cross feeder & OHE	4	4	Each	722.00	58.00					
36	Supply of insulators for item no 32	14	14	Each	1222.00	0.00					
37	Supply & erection of copper strips for equipment earthing	80	80	Mtrs.	177.00	16.00					
34	Supply & erection of structue bond	50	50	Each	137.00	63.00					
	<b>Total of SOR items</b>								5899883.12	457584.74	
	<b>Estimated 133.75 % above SOR items</b>								7891093.68	612019.5871	
	<b>Further 15% above</b>								2068646.52	160440.65	
	<b>Total</b>								15859623.32	1230044.97	
	<b>Add 15% as per LOA</b>								2378943.50	184506.75	
	<b>Total</b>								18238566.82	1414551.72	

8 (b) iii	Supply and erection of termination of feeder wire including insulator	16	16	Each	8201.00	746.00	NOT OPERATED				
3 (e)	Supply & erection of guy rod assembly	16	16	Each	7442.00	862.00					
3 (i)	Supply & erection of caution board	130	130	Each	240.00	76.00					
	<b>Total A</b>								<b>18238566.82</b>	<b>1414551.72</b>	
NS.1	Supply of 25KV/240V Auxiliary Supply T/F (10 KVA capacity) Oil Type.	2	2	Each	78899.00	3046.00	0	2	126238.40	0.00	
					<b>S</b>		<b>1</b>	<b>1</b>	<b>7889.90</b>	<b>7889.90</b>	<b>10% OF</b>
					<b>E</b>		<b>1</b>	<b>1</b>	<b>2741.40</b>	<b>2741.40</b>	<b>90% OF</b>
NS.4	Supply,erection,testing and commissioning of 25kv single pole isolator (1600A)	9	9	Each	40250.00	4025.00	0	9	289800.00	0.00	
					<b>S</b>		<b>8</b>	<b>8</b>	<b>32200.00</b>	<b>32200.00</b>	<b>10% OF</b>
					<b>E</b>		<b>8</b>	<b>8</b>	<b>28980.00</b>	<b>28980.00</b>	<b>90% OF</b>
NS.5	Supply,erection,testing and commissioning of 25kv double pole isolator (1600A)	11	15	Each	74750.00	5750.00	0	11	657800.00	0.00	
					<b>S</b>		<b>5</b>	<b>5</b>	<b>37375.00</b>	<b>37375.00</b>	<b>10% OF</b>
					<b>E</b>		<b>5</b>	<b>5</b>	<b>25875.00</b>	<b>25875.00</b>	<b>90% OF</b>
NS.6	Supply ,Erection,Testing and comissioning of 132 KV double pole SF6 Circuit Breaker.	2	2	Each	772605.00	5648.00	0	2	1236168.00	0.00	
					<b>S</b>		<b>2</b>	<b>2</b>	<b>154521.00</b>	<b>154521.00</b>	<b>10% OF</b>
					<b>E</b>		<b>2</b>	<b>2</b>	<b>10166.40</b>	<b>10166.40</b>	<b>90% OF</b>
NS.7	Supply erection testing and commissioning of 25 KV single pole vacuum Circuit Breaker.	5	5	Each	410529.00	3925.00	0	5	1642116.00	0.00	
					<b>S</b>		<b>5</b>	<b>5</b>	<b>205264.50</b>	<b>205264.50</b>	<b>10% OF</b>
					<b>E</b>		<b>5</b>	<b>5</b>	<b>17662.50</b>	<b>17662.50</b>	<b>90% OF</b>
NS.8	Supply erection testing and commissioning of 25 KV single pole vacuum interruptors	15	15	Each	234218.00	3059.00		15	2810616.00	0.00	
					<b>S</b>		<b>5</b>	<b>5</b>	<b>117109.00</b>	<b>117109.00</b>	<b>10% OF</b>
					<b>E</b>		<b>5</b>	<b>5</b>	<b>13765.50</b>	<b>13765.50</b>	<b>90% OF</b>
NS.9	Supply, erection,testing and commissioning of 100KVA , 25Kv/240v auxiliary transformers with all accessories	1	1	Each	302092.00	0.00	0	1	241673.60	0.00	
NS.10	Supply,erection,testing and commissioning of control & relay panel for shunt capacitor bank	1	1	nos	200000.00	10000.00	0	1	160000.00	0.00	
NS.11	Suppl, erection , testing & commissioning of 25kv shunt capacitor bank 2400KVAR rating	1	1	nos	625000.00	20000.00	0	1	500000.00	0.00	
					<b>S</b>		<b>1</b>	<b>1</b>	<b>62500.00</b>	<b>62500.00</b>	<b>10% OF</b>

					<b>E</b>		<b>1</b>	<b>1</b>	<b>18000.00</b>	<b>18000.00</b>	<b>90% OF</b>
NS.12	Supply, erection, testing and commissioning of low loss series reactor suitable for 2400 KVAR shunt capacitor bank	1	1	nos	750000.00	30000.00	0	1	600000.00	0.00	
					<b>S</b>		<b>1</b>	<b>1</b>	<b>75000.00</b>	<b>75000.00</b>	<b>10% OF</b>
					<b>E</b>		<b>1</b>	<b>1</b>	<b>27000.00</b>	<b>27000.00</b>	<b>90% OF</b>
NS.13	Supply erection, testing and commissioning of 25KV current transformer 200/100/5A	1	1	nos	67500.00	5000.00	0	1	54000.00	0.00	
					<b>S</b>		<b>1</b>	<b>1</b>	<b>6750.00</b>	<b>6750.00</b>	<b>10% OF</b>
					<b>E</b>		<b>1</b>	<b>1</b>	<b>4500.00</b>	<b>4500.00</b>	<b>90% OF</b>
NS.14	Supply erection, testing and commissioning of 25KV Neutral Current transformer 1/1A	1	1	nos	67500.00	5000.00	<b>NOT OPERATED</b>				
NS.15	Erection of PTFE type short neutral section	6	6	Each	0.00	2860.00					
NS.16	Supply erection testing & commissioning of RTU at RNKA TSS along with all accessories	1	1	nos	288750.00	0.00					
NS.8	Supply erection testing & commissioning of RTU in new SP along with all accessories	1	1	nos	248222.00	0.00					
NS.17	Loding, transportation Unlodng & stacking of 12.5 MVA transformer with its accessories from BHA TSS to RNKA TSS by using all tools and tackles road crane & trailor etc	2	2	Job	0.00	103125.00	<b>NOT OPERATED</b>				
NS. 18	Supply & fixing of following safety items in sub stn.										
(a)	Fire sxtinguisher dry chemical power type 10kg cap (ISI marked) suitable for electric fire to be provided on the wall with suitable fixing accessories	4	4	nos	677.00	0.00					
(b)	GI fire buckets, (6nos) 24 gauge fitted on steel stand as per drawing approved by Railway each 10ltr capacity filled with clean dry ordinary sand	2	2	Set	677.00	0.00					
(c)	First Aid box complete with medicines of approved make.	4	4	nos	169.00	0.00					
(d)	Electric shock treatment chart in Hindi (large size) with Aluminium frame and glass on front or laminated as approved be Railway	2	2	nos	169.00	0.00					
(e)	Schematic dia gram of HT/LT installation on white hylum sheet with aluminium frame of size 1200x600 approximate as approved by Railways	4	4	Job	169.00	0.00					
NS.19	Supply and erection of steel tubular pole 9.5 M long (410 SP-34) single arm type conforming to IS:2713 Pt-II latest with 5mm thick base plate including foundation, muffing and painting complete.	10	10	Each	12831.00	0.00					
NS.20	Supply and fixing of GI pipe class 'B' as per IS:1239 Pt 1 latest of size 38mm dia with all fixing accessories on steel tubular poles upto junction box for incoming & out going cable. The bottom portion of the Gipipe to be grouted with C.C. muffing	100	100	mtr	98.00	0.00					
NS.21	Supply & erection of MS junction box of size 250x200x175mm whether proof with locking arrangement duly painted aonsisting of 1x16A porcelain cut out , 4way porcelain connector. The MS junction box to be provided on the pole / recessed in cement concrete at suitable height	10	10	Each	530.00	0.00					

NS.22	Supply erection testing & commissioning of street type metal halide luminaires 250W/230v having single piece cast alu housing, stove enamel grey painting, step POT optics reflector, toughened heat resistance glass cover, control gear compartment with copper bound ballast, capacitor, electronic ignitor and mains connector, 250 W metal halide lamp. The luminaires shall be similar to CROMPTON GREAVES makes reference MHSG 1525IH/G or equivalent.	12	12	Each	7699.00	0.00	
NS.23	Excavation and back filling of cable trench in all type of soil for laying LT cable. This shall include supply and placing of bricks in cross position in cable trench, after embedding the cable in the sand layer in trench	440	440	mtr	0.00	49.00	
NS.24	Laying of XLPE /PVC insulated , LT under ground , Al conductor armoured/ unarmoured cables 1.1 KV Gr of size 4 core 16sqmm including connecting ,testing and energising	530	530	mtr	0.00	16.00	
NS.25	Supply of materials & making wiring of various points such as FT fitting/ceiling fans /ordinary light point /exhaust fan etc with 2.5sqmm (FRLS) PVC insulated multi stranded copper conductor cable single core conforming to IS :694 (latest version) in recessed steel / PVC conduit pipe heavy duty , with bakelite batten holder /angular holder / ceiling rose, 5A flush type switch, white phenolic laminated sheet cover on front of recessed MS box of suitable size with brass screws,cup washers etc complete earth continuity wire	35	35	Point	463.00	0.00	NOT OPERATED
NS. 26	Supply of materials & making wiring wiring point of 5 pin 5A plug socket with wiring by 2.5sqmm PVC insulated multi stranded copper conductor cable (FRLS) single core conforming to IS:694 (latest version) in recessed steel/ PVC conduit pipe heavy duty with 5 A flush type switch, white phenolic laminated sheet cover on front of recessed MS box of suitable size with brass screws,cup washers etc complete including earth continuity wire.	8	8	Point	759.00	0.00	
NS.27	Supply of materials & making wiring point of 6pin combined power point 5A/15A with wiring by 4 sqmm PVC insulated multistranded copper conductor cable (FRLS) single core conforming to IS:694 (latest version) in recessed steel /PVC conduit pipe heavy duty with 15 A flush type switch, white phenolic laminated sheet cover on front of recessed MS box of suitable size with brass screws cup washers etc complete including earth continuity wire	10	10	Point	759.00	0.00	
NS.28	Supply, and fixing of bulk head light fitting industrial type , Die cast alu alloy body in stove enamel finish, heat resistance glass cover through gasket, electronic galvanised MS wire guard, prewired with VPIC ballast 9/10CFL lamp with all accessories, suitable to work on 230V AC,similar to CGL make ref ICBH10 or equivalent	4	4	nos	709.00	0.00	

NS.29	Supply erection testing and commissioning of Exhaust fan 380mm sweep 1400RPM, four blade suitable to work on 230V AC supply including earthing. The Exhaust fan to be fixed ion the wall of Battary room with MS reg bolt, nut washer etc.	3	3	nos	3262.00	0.00	NOT OPERATED				
NS.30	Supply of following way, prewired, factory fabricated powder coated, Sub distribution board on surface/ recess, double metel door, complete with tinned copper bus bar, neutral/ earh link, din channel, terminal block for termination of conductor of minimum 6sqmm , detachable gland plate, interconnections , blanking plate for blank MCB suitable for incorporting MCB,RCCB,MCCB including interconnection in DBs with copper conductor , testing commissioning and earthing but excluding MCCB & MCBs										
a	4 way SP & N , DBs	3	3	nos	956.00	0.00					
NS.31	Supply of MCB/MCB Isoator single pole/Double pole /Tripple pole /four pole of follwing rating in MDB/SDB specified above complete with connection testing and commissioning										
a	5A to 32A rating MCB single pole 240V 10KA conforming , to IS 8828 (latest version)	12	12	nos	146.00	0.00					
b	MCB lsplator double pole 25 A , 240V , conforming, to IS 13947 Pt-3 (latest version)	3	3	nos	329.00	0.00	NOT OPERATED				
NS.32	Supply of 2*10sqmm PVC insulated copper cable single core 1100 v grade as per IS :694(latest) for sub mains with steel conduit pipe heavy suty inrecessed/surface of th wall with earth continuity PVC copper wire including , erection testing and commissioning.	15	15	mtr	154.00	0.00					
NS.33	Supply erection testing and commissioning of T5 lamp fitting CRCA MS housing , 4' long 1x28w single tube with T5 lamp and electronic ballast	14	14	nos	809.00	0.00					
NS.34	Installation/ connection with PVC insulated flexible copper cable alongwith testing and commissioning of Rly's supply ceiling fan including earthing (Ceilning fan will be supplied by the Railway in designated stores & transportation to be done by the contracrator at his own cost)	3	3	nos	0.00	38.00					
NS.35	Supply of XLPE/PVC insulated, LT under ground , AI conductor, armoured cable 1.1 KV Gr, of size 4core 16sqmm, including conncting testing and energising	500	500	mtr	68.00	14.00					
	<b>Total of NS itmes</b>								<b>9165712.20</b>	<b>847300.20</b>	
	<b>Add 12.30% as per LOA</b>								<b>1127382.601</b>	<b>104217.92</b>	
	<b>Total B</b>								<b>10293094.80</b>	<b>951518.12</b>	
1	Design & drawing including verification of checl survey.	0.5	14	km	0	13108.00	14	14	<b>91756.00</b>	<b>91756.00</b>	<b>50% OF</b>
2(a)	Erection of foundation						NOT OPERATED				
v)	Partially submerged for B type tower	27	27	CUM	0	8770.00					
2(b)	Extra for supply & erection of reinforcement.	1.2	2.75	Tonne	0	52564.00					
2(c )	Supply & erection of brick mansonary revitment.	10	15	CUM	0	2741.00					
5	Design , fabrication, supply & erection of B type towers										
a	Supper Structure	7.98	7.98	Tonne	90507.00	4435.00	NOT OPERATED				
b	Stubs (set).	0.52	0.52	Tonne	90507.00	4435.00					
8(a)(i)	Supply & erection of single earth electrode.	6	9	each	4205.00	715.00	0	6	20184.00	0.00	
(ii)	Extra for additional earth electrode.	6	9	each	2628.00	655.00	0	6	12614.40	0.00	
9(a)	Supply & erection of number plate	2	2	each	175.00	60.00					



(b)	Supply & erection of danger plate.	10	10	set	307.00	60.00	NOT OPERATED				
( c )	Supply & erection of phase plate.	30	30	set	263.00	107.00					
(d)	Supply & erection of circuit plate.	2	2	set	350.00	71.00					
10(a)	Supply & erection of anti climbing device for.										
iii)	B' type tower	2	2	set	5256.00	596.00					
11	Supply & erection of a bird guard	36	70	each	797.00	33.00	NOT OPERATED				
12(a)	Supply & erection of a 9-unit single suspension string	30	58	each	4826.00	1251.00					
12(b)	Supply & erection of a 9-unit double suspension string.	4	10	each	9831.00	2324.00					
13(a)	Supply & erection of a 10-unit single tension string	26	92	each	5958.00	1430.00					
13(b)	Supply & erection of a 10-unit duplicate tension string	12	12	each	12155.00	2681.00					
14(a)	PANTHER ASCR conductor for Transmission line.	20	36	km	139723.00	6951.00					
14(b)	Supply & erection of "PANTHER" conductor accessories for transmission line.	20	36	km	3972.00	79.00					
15(a)	Supply & erection of ground wire	0.5	0.65	km	35918.00	4171.00					
15(b)	Supply & erection of ground wire accessories.	0.5	0.65	km	10513.00	655.00					
16	Supply & erection of 132kv support insulator for jumper connection at gantry.	4	7	each	17874.00	2979.00					
17	Extra under shut down						NOT OPERATED				
11	Erection pf a bird guard	36	68	each	0.00	33.00					
12 (a)	Erection of a 9-unit single suspension string.	30	58	each	0.00	1251.00					
12 (b)	Erection of a 9-unit double suspension string	4	10	each	0.00	2324.00					
13 (a)	Erection of a 10-unit single tension string	22	50	each	0.00	1430.00					
13 (b)	Erection of a 10-unit duplicate tension string	12	12	each	0.00	2631.00					
14 (a)	Erection of single " PANTHER ACSR conductor for transmission line	18	32	km	0.00	6951.00					
14 (b)	Erection of " PANTHER" conductor accessories for transmission line	18	32	km	0.00	79.00					
	Total of SOR Items								2876945.81	91756.00	
	Less : As per LOA	11.25 %							323656.40	10322.55	
									2553289.41	81433.45	
	<b>Add As per LOA</b>	<b>9.60 %</b>							245115.78	7817.61	
	<b>Total C</b>								2798405.19	89251.06	
							<b>TOTAL A+B+C</b>		31330066.81	2455320.91	
	Dedution on amount of Rs.	2455321					<b>Say</b>		31330066.00	2455321.00	
	2% I/T	49106					<b>Less : Already Paid</b>		28874745.00		
	6%ST	147319							2455321.00	2455321.00	
	Bill copy	50					<b>Deduction</b>	<b>(-)</b>		196475.00	
	Total deduction	196475					<b>Net payable</b>			2258846.00	
	<b>FULL REQUIRED SECURITY OF RS. 2303743.00 DEDUCTED FROM 1ST TO 5TH BILLS INCLUDING DRC AMOUNT</b>										

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