

TOWER SCHEDULE

DETAILED SURVEY

400KV D/C - LARA-RAIGARH(KOTRA PIS) TRANSMISSION LINE, SECTION (GANTRY TO AP21/0/MC-1)

S.No.	Loc. No.	Type of Tower		Angle of Deviation	Length in Mtrs.					Weight Span Hot			Weight Span Cold			Co-ordinates		REMARKS			
		Type	T/Ext		Span	Section	Cum	Sum-Adj.	Wind	Sec. Lgth	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	Easting		Northing	RL	
	Gantry																				
1	D/E	DD+	0	13° 50' 07"	120	120	515	257	120	120	515	257	120	120	515	257	120	202.5	2408491.1	202.5	3 MTR RC
2	1/0	DB+	6	12° 55' 19"	395	395	875	437	395	395	875	437	395	395	875	437	395	204	2408608	204	12 MRT RC
3	1A/0	DB+	6	06° 52' 50"	480	480	995	801	480	480	995	801	480	480	995	801	480	204	2408981	204	12 MTR RC
4	1B/0	DC+	0	20° 03' 29"	321	321	582	291	321	321	582	291	321	321	582	291	321	192.9	2409770	192.9	
5	AP-2/0	DB+	0	00° 54' 50"	261	261	676	338	261	261	676	338	261	261	676	338	261	195.69	2410029	195.69	VILL.CHHAPORA
6	AP-3/0	DD+	25	12 21' 53"	198	415	1,992	613	415	415	1,992	613	415	415	1,992	613	415	199.51	2410442	199.51	VILL.CHHAPORA
7	AP-4/0	DD+	25	20° 50' 5"	267	198	2,190	465	198	198	2,190	465	198	118	233	121	112	202.38	2410629	202.38	CP DOWN 0.8M VILL.CHHAPORA
8	AP-5/0	DD+	25	50' 18' 56"	267	267	445	222	267	267	445	222	149	85	234	155	83	201.41	2410836	201.41	3 M Raised Chimney
9	AP-6/0	DD+	25	41' 36' 28"	178	178	566	283	178	178	566	283	93	296	389	95	334	202.70	2411011	202.70	3 M Raised Chimney
10	AP-7/0	DD+	0	34' 26' 43"	388	388	786	393	388	388	786	393	92	162	254	54	148	203.73	2411346	203.73	VILL.NETNAGAR
11	Loc No-7/1	DA+	9		398	398	794	397	398	398	794	397	236	217	453	250	225	204.51	2411515	204.51	
12	AP-8/0	DC+	3	23' 17' 9"	400	794	796	398	794	794	796	398	179	216	395	171	221	205.40	2411682	205.40	VILL.KASAIPALI
13	Loc No-8/1	DA+	0		390	390	790	395	390	390	790	395	184	202	386	179	204	204.26	2411981	204.26	
14	Loc No-8/2	DA+	0		343	343	733	366	343	343	733	366	188	157	345	186	152	202.56	2412272	202.56	
15	AP-9/0	DB+	0	14' 49' 23"	292	1133	635	317	1133	1133	635	317	186	111	297	191	97	205.90	2412529	205.90	
16	Loc No-9/1	DA+	6		400	400	692	346	400	400	692	346	181	220	401	195	228	206.75	2412690	206.75	
17	Loc No-9/2	DA+	0		400	400	800	400	400	400	800	400	180	188	368	172	184	207.35	2412911	207.35	
18	Loc No-9/3	DA+	3		382	382	782	391	382	382	782	391	212	190	402	216	189	207.50	2413132	207.50	
19	Loc No-9/4	DA+	3		388	388	780	390	388	388	780	390	192	196	388	193	195	207.79	2413342	207.79	

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 प्रबोध कुमार स्वर्णकार
 बरिष्ठ अभियंता
 पावरग्रिड, रायगढ़

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 For PGCIL

Sukumar Sarker
 Dy. Manager (Survey)
 for Tata Project Ltd
 Lara Charnap/Raigarh T

Prabir Kumar Poriya
 Resident Const. Manager
 Tata Project Ltd.

S.No.	Loc. No.	Type of Tower		Angle of Deviation	Length in Mtrs.						Weight Span Hot			Weight Span C.			Co-ordinates		REMARKS
		Type	T/Ext		Span	Section	Cum	Sum-Adj.	Wind	Sect. Lgth	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	Easting	Northing	
20	Loc No-9/5	DA+	3		398	6,822	796	398		202	203	405	203	205	408	751041	2413562	208.60	
21	Loc No-9/6	DA+	3		398	7,220	788	394		195	194	389	193	193	386	750709	2413782	207.54	
22	Loc No-9/7	DA+	3		390	7,610	768	384		196	198	394	197	202	399	750384	2413997	207.91	
23	AP-10/0	DB+	0	14' 26' 14" RT	378	7,988	733	366	3038	180	148	328	176	137	313	750069	2414206	208.60	
24	Loc No-10/1	DA+	6		355	8,343	725	363		207	205	412	218	213	431	749831	2414470	209.57	
25	Loc No-10/2	DA+	0		370	8,713	745	372		165	188	353	157	188	345	749583	2414745	210.64	
26	Loc No-10/3	DA+	0		375	9,088	731	365		187	164	351	187	158	345	749332	2415023	210.59	
27	Loc No-10/4	DA+	3		356	9,444	754	377		192	193	385	198	190	388	749093	2415287	211.01	
28	Loc No-10/5	DA+	3		398	9,842	794	397		205	198	403	208	198	406	748827	2415383	212.70	
29	Loc No-10/6	DA+	3		396	10,238	796	398		198	197	395	198	196	394	748561	2415867	212.67	
30	Loc No-10/7	DA+	3		400	10,638	800	400		203	216	419	204	221	425	748294	2416174	213.36	
31	Loc No-10/8	DA+	0		400	11,038	775	387		184	165	349	179	156	335	748026	2416471	212.22	
32	Loc No-10/9	DA+	3		375	11,413	756	378		210	201	411	219	204	423	747774	2416749	215.02	
33	AP-11/0	DC+	0	23' 8' 45" LT	381	11,794	771	385	3806	180	191	371	177	189	366	747519	2417032	215.58	
34	Loc No-11/1	DA+	0		390	12,184	778	389		199	191	390	201	189	390	747166	2417195	216.68	
35	AP-12/0	DC+	0	22' 16' 36" LT	388	12,572	756	378	778	197	177	374	199	174	373	746813	2417358	217.58	
36	Loc No-12/1	DA+	0		368	12,940	766	383		191	175	366	194	167	361	746445	2417374	219.33	
37	Loc No-12/2	DA+	3		398	13,338	796	398		223	200	423	231	201	432	746048	2417392	222.56	
38	Loc No-12/3	DA+	3		398	13,736	796	398		198	192	390	197	190	387	745650	2417410	222.26	
39	Loc No-12/4	DA+	3		398	14,134	796	398		206	172	378	208	162	370	745252	2417427	223.99	
40	Loc No-12/5	DA+	9		386	14,532	784	392		226	199	425	236	202	438	744855	2417445	225.17	
41	AP-13/0	DD+	6	17' 9' 34" RT	245	14,918	631	315	2346	187	110	297	184	106	290	744469	2417462	226.51	
42	AP-14/0	DD+	6	8' 57' 17" LT	226	15,163	471	235	245	135	18	153	139	-18	121	744238	2417544	228.58	

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 For PGCIL

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 नोद कुमार स्वर्णकार
 वरिष्ठ अभियंता
 पावरग्रिड, रायगढ़

Prabir Kumar Poriva
 Resident Const. Manager
 Tata Project Ltd.

Sukumar Sarkar
 Dy. Manager (Survey)
 Tata Project Ltd
 Lara Chamap/Raigarh T

S.No.	Loc. No.	Type of Tower		Angle of Deviation	Length in Mtrs.					Weight Span Hot		Weight Span Cold		CROSSINGS		Co-ordinates		REMARKS	
		Type	T/Ext		Span	Section	Cum	Sum. Adj.	Wind	Sect. Lgth	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	Easting		Northing
43	AP-15/0	DD+	18	LT	226	15,389	423	211	226	208	185	393	244	217	461	744016	2417586	230.88	
					197														
44	AP-16/0	DD+	6	RT	197	15,586	567	283	197	12	202	214	-20	209	189	743820	2417613	231.65	
45	AP-17/0	DD+	0	RT	370	15,956	715	357	370	168	165	333	161	161	322	743671	2417952	234.16	CP DOWN 0.8M
46	Loc No-17/1	DA+	6		345	16,301	630	315		180	163	343	184	171	355	743858	2418242	229.29	
47	AP-18/0	DD+	0	LT	285	16,586	577	288	630	122	128	250	114	121	235	744013	2418482	231.44	
48	AP-19/0	DD+	6	LT	292	16,878	652	326	292	164	187	351	171	190	361	743928	2418761	229.01	
49	19/1	DA+	0		360	17,238	560	280	360	173	150	323	170	168	338	743640	2418976	233.23	
50	AP 20/0	DD-	-4.50	LT	200	17,438	315	157	200	50	-366	-316	32	-523	-491	743480	2419096	231.12	
51	AP 24/0	OD+	25	LT	115	17,553	323	162				583	638	98	736	743146	2419092	233.94	kobra west MIC Tower

Tower Schedule Provided By KWPCL

S.No.	Loc. No.	Type of Tower	Span	Section	Cum	Sum. Adj.	Wind	Sect. Lgth	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	CROSSINGS	Co-ordinates	REMARKS
52	AP 24 (MC)	OD+	25	LT	17,553	323	162		246	94	340	360	88	448	DT/DT (Type Of Insulator) 33kv & 132kv Crossing		
53	AP 25(MC)	OD+	25	LT	17,761	302	151	208	112	-338	226	120	-502	382	DT/DT (Type Of Insulator)		
54	AP 26(MC)	OD+	6	LT	17,855	234	117	94	244	-140	104	410	-190	220	DT/DT (Type Of Insulator)		
55	Gantry				17,995			140							Raigarh (Kotra) Gantry		

for TATA Projects Limited

Check Survey & Detail Survey = 17-553 km
Stringing = 17-995 km

for POWER GRID CORPORATION OF INDIA LIMITED

(Handwritten Signature)

Sukumar Sarker
Dy. Manager (Survey)
Tata Project Ltd
Lara Chamap/Raigarh TL

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Prabir Kumar Poriya
Resident Const. Manager

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OP Sarker
-SE Powergrid

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शिव.अर.बाबरकर
मुख्य प्रबंधक
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