

POWER GRID CORPORATION OF INDIA LIMITED
132 KV S/C (ON D/C TOWER) RILO - SAGALEE TRANSMISSION LINE
TOWER SCHEDULE

SL No.	Location No.	Type of Tower	Body extn.	Leg Extensions			Chimney Extensions			CPDC PU	Angle of Deviation	Span in (M)		Cumulative Length (M)	Reduced Level (m)	Wind Span (m)	Sum of Adjacent span	Weight Span Hot (m)			Weight Span Cold (m)			Co-ordinates		REMARKS
				A	B	C	D	A	B			C	D					HOR	VERT	Left	Right	Total	Left	Right	Total	
13	AP08	DD+	0	1.5	0	0	1.5	0	0	0	0	0.0	03°8'52" RT	252	1337.967	214.5	429	547	-62	485	814	-157	657	524465	3005818	VIII-Jawso
14	AP8A	DD+	0	1.5	0	0	1.5	0	0	0	0	0.0	38°32'00" RT	177	1352.617	289	578	239	284	523	334	337	671	524456	3005988	VIII-Jawso
15	AP8B	DC+	0	1.5	1.5	0	0	0	0	0	0	0.0	22°25'10" RT	401	1334.188	278.5	557	117	-46	71	64	-125	-61	524692	3006315	Vally, Cart Track, Nala
16	AP8C	DB+	0	0	1.5	1.5	0	0	0	0	0	0.0	02°35'5" RT	156	1344.849	197.5	395	202	278	480	281	378	659	524825	3006401	Valley
17	AP9	DD+	0	1.5	0	0	0	0	0	0	0	0.0	49°40'54" RT	239	1324.015	230.5	461	-39	26	-13	-139	-27	-166	525029	3006515	VIII-Jawso
18	AP9A	DB+	6	3	3	0	0	0	0	0	0	0.0	05°17'5" LT	222	1328.371	219.5	439	196	93	289	249	84	333	525239	3006437	VIII-Jawso
19	AP9B	DD+	6	1.5	3	0	0	0	0	0	0	0.0	32°34'9" LT	217	1330.191	299	598	124	61	185	133	-21	112	525449	3006386	2 Nos Nala
20	AP9C	DB+	0	0	0	0	0	0	0	0	0	0.0	05°52'5" LT	381	1363.484	373	746	320	258	578	402	306	708	525812	3006497	Valley
21	AP10	DB+	6	1.5	0	0	0	0	0	0	0	0.0	01°13'47" LT	365	1342.234	272.5	545	107	181	288	59	239	298	526143	3006642	VIII-Jawso
22	AP10A	DBN+	6	0	3	3	0	0	0	1.5	0	0.0	12°49'06" LT	180	1333.171	185	370	-1	373	372	-59	550	491	526307	3006714	VIII-Langpung
23	AP10B	DC+	6	0	1.5	1.5	0	0	0	0	0	1.0	15°42'50" LT	190	1305.006	287	574	-183	146	-37	-360	116	-244	526460	3006834	VIII-Langpung
24	AP10C	DC+	6	0	0	0	0	0	0	0	0	0.0	28°30'02" LT	384	1313.828	276	552	238	-135	103	268	-273	-5	526691	3007134	2 Nos Valley, Nala
25	AP11	DC+	3	0	0	0	0	0	0	0	0	0.0	26°44'46" RT	168	1337.096	192	384	303	29	332	441	-21	420	526721	3007311	VIII-Langpung
26	AP11A	DD+	6	3	3	0	0	0	0	0	0	1.5	56°30'5" RT	216	1345.031	295.5	591	187	105	292	237	53	290	526847	3007484	Nala
27	AP11B	DD+	6	0	0	0	3	3	0	0	0	0.5	30°48'04" LT	375	1361.123	312	624	270	286	556	322	388	710	527218	3007465	2 Nos Nala, Cart track

For KEC International Ltd.

TAPAS SARKAR
Senior Surveyor
KEC INTERNATIONAL LTD.

सुरज कुमार/ Suraj Kumar
अभिभव/Engineer
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Executive Engineer (E)
Executive Division No. II
Transmission of Power GOAP
Department of Power
Itanagar-791113

POWER GRID CORPORATION OF INDIA LIMITED
132 KV S/C (ON D/C TOWER) RILO - SAGALEE TRANSMISSION LINE
TOWER SCHEDULE

SL. No.	Location No.	Type of Tower	Body extn.	Leg Extensions			Chimney Extensions			CPD/C PU	Angle of Deviation	Span in (M)		Cumulative Length (M)	Reduced Level (m)	Wind Span (m)	Sum of Adjacent span	Weight Span hot (m)			Weight Span Cold (m)			Co-ordinates		REMARKS
				A	B	C	D	A	B			C	D					HOR.	TH	Left	Right	Total	Left	Right	Total	
28	AP11C	DD+	0	1.5	1.5	0	0	0	0	0.5	30°55'36" RT	249	249	6615	1344.979	244.5	489	-37	30	-7	-139	-27	-166	527441	3007578	2 Nos Nala VIII-Langpung
29	AP12	DD+	0	1.5	0	0	0	0	0.0	35°42'03" LT	240	240	6855	1356.422	295	590	210	-176	34	267	-398	-131	527678	3007564	2 Nos Nala VIII-Langpung Nala	
30	AP13	DBN+	0	1.5	0	0	1.5	0	0.0	05°42'11" RT	360	350	7205	1424.187	243	486	528	243	748	-505	243	527975	3007749	Cross-arm Strengthening required		
31	AP14	DBN+	3	3	1.5	0	0	0	0.0	06°41'31" LT	136	136	7341	1447.519	245.5	491	419	-205	214	641	-448	193	528095	3007807	Cross arm strengthening not required/Approved VIII-Langpung	
32	AP15	DBN+	3	3	1.5	0	0	0	0.0	02°42'22" LT	355	355	7696	1522.474	297.5	595	560	184	744	803	225	1028	528399	3008004	Cross-arm Strengthening required VIII-Khodaso	
33	AP16	DBN+	0	0	0	0	0	0	0.0	02°37'45" LT	240	240	7936	1516.965	232	484	56	524	580	15	784	799	528594	3008136	Cross-arm Strengthening required Nala	
34	AP17	DC+	6	0	3	1.5	0	0	0	15°09'47" RT	272	224	8160	1460.115	248	496	-300	273	-27	-560	360	-200	528769	3008277	VIII-Khodaso Nala	
35	AP18	DC+	3	3	3	0	0	0	0.0	22°47'31" RT	272	272	8432	1442.507	288.5	517	-1	232	231	-88	301	213	529024	3008377	VIII-Khodaso Nala	
36	AP19	DC+	6	0	1.5	0	0	0	0.0	16°54'52" LT	245	245	8677	1424.729	317.5	635	13	137	150	-56	101	45	529266	3008377	VIII-Khodaso Nala	
37	AP20	DB+	6	3	0	0	0	0	0.0	07°07'27" LT	390	390	9067	1437.148	317	634	253	-205	48	289	-413	-124	529639	3008484	VIII-Khodaso Nala	
38	AP21	DC+	3	3	0	0	0	0	0.0	15°00'52" RT	244	244	9311	1484.191	255	510	449	-215	234	657	-436	221	529859	3008576	Cross arm strengthening not required/Approved	
39	AP22	DC+	9	0	0	0	0	0	0.0	25°44'47" LT	266	266	9577	1529.257	248	496	481	-287	194	702	-541	161	530120	3008636	Cross-arm Strengthening required VIII-Khodaso	
40	AP23	DBN+	6	1.5	1.5	0	0	0	0.0	12°32'25" LT	230	230	9807	1583.232	257.5	515	517	482	999	771	698	1469	530310	3008749	Cross-arm Strengthening required VIII-Raik	

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Sl. Location No.	Type of Tower	Body extn.	Leg Extensions				Chimney Extensions				CPD/C PU	Angle of Deviation	Span in (M)		SECTION LENGTH TH	Cumulative Length (M)	Reduced Level (m)	Wind Span (m)	Sum of Adjacent span	Weight Span Hot (m)			Weight Span Cold (m)			Co-ordinates		REMARKS	
			A	B	C	D	A	B	C	D			Left	Right						Total	Left	Right	Total	Easting	Northing				
41	DC+	6	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	10092	1529.801	234	488	-197	684	487	-413	1060	647	530507	3008960	Cross-arm Strengthening required
42	DBN+	6	1.5	3	0	0	0	0	0	0	0	0	0	0	0	10275	1489.988	164.5	329	-501	662	161	-877	1036	159	530666	3009063	Cross-arm Strengthening required	
43	DBN+	6	0	3	0	0	0	3	0	0	0	0	0	0	0	10421	1423.508	173.5	347	-516	522	6	-890	789	-101	530809	3009115	Cross-arm Strengthening required	
44	DC+	6	0	0	0	0	0	0	0	0	0	0	0	0	0	10622	1375.776	215.5	431	-321	404	83	-588	587	-1	530989	3009140	Cross arm strengthening not required/Approved	
45	DBN+	9	0	0	0	0	0	0	0	0	0	0	0	0	0	10852	1337.106	308	616	-174	411	237	-357	550	193	531177	3009274	VIII-Raik	
46	DBN+	9	0	0	0	0	0	0	0	0	0	0	0	0	0	11238	1290.110	344	688	-25	387	362	-164	537	373	531468	3009528	2 Nos Nala	
47	DB+	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	11540	1259.280	293	586	-85	295	210	-235	392	157	531646	3009776	VIII-Raik	
48	DD+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11824	1235.309	255	510	-11	-146	-157	-108	-309	-417	531807	3010011	Nala	
49	DD+	6	0	0	0	0	0	0	0	0	0	0	0	0	0	12050	1261.541	225	450	372	-318	54	535	-590	-55	531941	3010190	VIII-Raik	
50	DC+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12274	1320.657	211	422	542	172	714	814	218	1032	532110	3010343	Due To NH Crossing, 2 Nos NH-13,11KV line AP31/0 DD Type Tower Proposed	
51	DB+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12472	1312.88	179	358	26	-42	-16	-20	-119	-139	532289	3010419	Due To NH Crossing AP32/0 DD Type Tower Proposed	
52	DB+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12632	1323.442	198.5	397	202	10	212	279	-59	220	532410	3010506	Cross-arm Strengthening required	

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SL. No.	Location No.	Type of Tower	Body exth.	Leg Extensions			Chimney Extensions			CPD/C PU	Angle of Deviation	Span in (M)	SECTION LENGTH TH	Cumulative ve Length (M)	Reduced Level (m)	Wind Span (m)	Sum of Adjacent span	Weight Span Hot (m)			Weight Span Cold (m)			Co-ordinates			REMARKS	
				A	B	C	D	A	B									C	D	Left	Right	Total	Left	Right	Total	Easting		Northing
53	AP35	DC+	0	0	0	0	0	0	0	0.0	15°28'10"LT	237	12869	1337.684	254	508	227	138	365	227	138	365	296	139	435	532624	3010638	VIII-Raik
54	AP36	DD+	9	0	0	0	0	0	0.0	36°12'38"RT	271	13140	1337.361	237	474	133	418	551	132	619	751	532812	3010818	Nala				
55	AP37	DD+	6	0	0	0	0	0	0.0	05°57'21"LT	203	13343	1301.888	200	400	215	58	-157	-416	32	-384	533019	3010850	NH-13				
56	AP38	DB+	0	0	0	0	0	0	0.0	05°51'16"RT	197	13540	1306.306	228.5	457	139	344	483	165	480	645	533209	3010900	Due To NH Crossing AP37/0 DD Type Tower Proposed				
57	AP38	DB+	0	0	0	0	1.5	0	0.0	00°17'58"LT	260	13800	1275.568	242.5	485	-84	393	309	-220	570	350	533463	3010845	VIII-Leporian				
58	AP40	DD+	6	0	1.5	1.5	0	0	0.0	36°49'1"LT	225	14025	1234.796	217.5	435	-168	503	335	-345	756	411	533685	3010882	Due to Uplift Tower DB Type Tower				
59	AP40A	DBN+	0	0	0	0	0	0	0.0	06°20'53"LT	210	14235	1194.663	290	580	-293	472	179	-546	654	108	533829	3011133	Cross arm strengthening not required/Approved				
60	AP41	DBN+	9	0	0	0	0	0	0.0	08°41'04"RT	370	14605	1127.091	339.5	679	-102	346	244	-284	467	183	534044	3011431	VIII-Leporian Valley				
61	AP42	DC+	0	0	0	0	0	0	0.0	25°04'11"RT	309	14914	1103.476	232.5	465	-37	46	9	-158	25	-133	534256	3011653	VIII-Leporian Valley				
62	AP42A	DD+	0	0	0	0	0	0	0.0	31°57'52"RT	156	15070	1106.270	247.5	495	110	338	448	131	444	575	534403	3011712	VIII-Leporian				
63	AP43	DBN+	0	1.5	1.5	0	0	0	0.5	04°20'21"LT	339	15409	1075.335	389	778	1	254	255	-105	275	170	534730	3011646	Pare River				
64	AP43A	DD+	9	0	0	0	0	0	1.5	28°01'03"RT	439	15848	1058.567	287	574	185	-507	-322	164	-871	-707	535169	3011592	Cross arm strengthening not required/Approved				
											135																Due to NH Crossing AP43A/0 DD Type Tower Proposed, 33 kv, 11kv, NH-13	

For KEC International Ltd.
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TOWER SCHEDULE

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			A	B	C	D	A	B			C	D					HOR.	VERT.	Left	Right	Total	Left	Right	Total	
78	AP57	DD+	0	1.5	1.5	0	0	0	0	0.0	33°19'09"RT	381	19430	1161.174	268	536	289	549	838	351	847	1198	538317	3010754	Valley
79	AP58	DBN+	9	0	0	0	0	1.5	3	0	0	155	19585	1111.906	278.5	557	-394	412	18	-692	545	-147	538470	3010741	Nala
80	AP59	DC+	9	0	0	0	0	0	1.5	0	0	402	19987	1065.182	316	632	-10	227	217	-143	297	154	538870	3010685	Cross-arm Strengthening required 2 Nos Nala
81	AP60	DC+	6	1.5	1.5	1.5	0	0	0	0.0	22°58'05"RT	230	20217	1054.020	217	434	3	-192	-189	-67	-378	-445	539086	3010755	Nala
82	AP60A	DBN+	9	0	0	0	0	3	1.5	0	0	204	20421	1084.068	276	552	396	-158	238	582	-368	214	539290	3010730	Nala
83	AP61	DBN+	0	1.5	1.5	0	0	1.5	0	0.0	05°53'34"RT	348	20769	1156.742	252.5	505	506	50	556	716	31	747	539624	3010635	Cross-arm Strengthening required
84	AP62	DD+	0	1.5	0	0	1.5	3	0	-1.5	33°41'34"LT	157	20926	1157.737	180.5	361	107	54	161	126	24	150	539767	3010577	Valley
85	AP63	DD+	0	1.5	0	1.5	1.5	0	0	3	0.0	204	21130	1164.604	277.5	555	150	403	553	180	547	727	539871	3010618	Valley, Nala
86	AP64	DC+	0	1.5	1.5	0	0	0	0	0.0	15°15'33"RT	351	21481	1120.543	252	504	-52	430	378	-196	654	458	540109	3010841	Cross-arm Strengthening required 2 Nos Nala
87	AP64A	DD+	6	3	3	0	0	3	3	0.0	30°52'21"LT	153	21634	1079.189	191.5	383	-277	300	23	-501	417	-84	540197	3011058	Valley, Nala
88	AP65	DD+	3	3	3	0	0	1.5	1.5	0.0	32°45'17"RT	230	21864	1064.239	164.5	329	-70	68	-2	-187	79	-108	540234	3011287	Nala
89	AP66	DD+	3	1.5	1.5	0	0	0	0	0.0	40°48'43"RT	99	21963	1063.256	198.5	397	31	80	111	20	37	57	540289	3011357	Nala
90	AP67	DD+	0	1.5	1.5	0	0	1.5	1.5	0.0	31°57'00"RT	298	22261	1077.533	268.5	539	218	159	377	261	183	444	540585	3011403	Nala
91	AP68	DC+	3	3	3	0	0	1.5	0	0.0	26°31'33"LT	241	22502	1069.455	283	566	82	128	210	58	106	164	540812	3011313	Nala

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			A	B	C	D	A	B			C	D					Left	Right	Total	Left	Right	Total	Existing	Northing	
92	AP69	DD+	0	1.5	1.5	1.5	0	0	0	0.0	46°28'25"LT	325	22827	1078.648	231	462	197	311	508	219	464	683	541134	3011337	Valley
93	AP70	DD+	0	1.5	1.5	0	0	0	0	0.0	01°48'31"LT	137	22964	1060.359	197.5	395	-174	565	411	-327	874	547	541224	3011446	Due to NH Crossing AP70/0 DD Type Tower Proposed
94	AP71	DD+	25	0	0	0	0	3	3	0.0	04°09'04"LT	258	23222	970.429	232.5	465	-327	348	21	-616	503	-113	541378	3011647	NH-13, 33kv, 11kv line
95	AP72	DB+	0	0	0	0	0	0	0	0.0	13°17'19"RT	207	23429	967.538	215.5	431	-141	256	115	-296	347	51	541492	3011813	Due to NH Crossing AP71/0 DD Type Tower Proposed
96	AP73	DD+	0	0	0	0	0	0	0	0.0	18°41'28"RT	224	23653	949.794	347	694	-32	-72	-104	-123	-266	-389	541649	3011976	Valley
97	AP74	DD+	0	1.5	1.5	0	0	1.5	0	1.0	23°50'49"LT	470	24123	1030.378	333.5	667	542	-97	445	736	-221	515	542073	3012180	NH-13, Pare River, 11kv line
98	AP75	DBN+	3	3	3	0	0	1.5	0	1.5	08°45'02"LT	197	24320	1049.118	258	516	294	46	340	418	-25	393	542198	3012326	Due to NH Crossing AP73/0 DD Type Tower Proposed
99	AP76	DD+	0	1.5	1.5	0	0	3	3	0.0	34°19'50"RT	319	24639	1070.501	211	422	273	235	508	344	351	695	542373	3012637	Valley
100	AP76A	DBN+	0	1.5	1.5	0	0	1.5	0	0.0	02°58'16"RT	103	24742	1060.077	216.5	433	-132	195	63	-248	215	-33	542463	3012637	Valley
101	AP77	DD+	0	1.5	1.5	0	0	3	0	-1.0	42°34'23"RT	330	25072	1053.528	230	460	135	145	280	115	196	311	542768	3012758	Valley
102	AP78	DC+	3	3	3	0	0	1.5	1.5	1.5	18°12'27"LT	130	25202	1047.280	235.5	471	-15	226	211	-66	260	194	542947	3012672	Valley
103	AP79	DBN+	6	1.5	1.5	0	0	0	0	0.5	06°34'53"LT	341	25543	1032.930	237	474	115	338	453	81	510	591	543205	3012715	Valley


एस सुरेश कुमार/S. Suresh Kumar
 मुख्य प्रबंधक (व्यापक क्षेत्र)
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 अरुणाचल प्रदेश/Arunachal Pradesh


सुरज कुमार/Suraj Kumar
 अभियंता/Engineer
 व्यापक योजना/Comp. Scheme
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For KEC International Ltd.

N.A. KHAN
 Sr. Project Manager (C)


TAPAS SARKAR
 Senior Surveyor
 INTERNATIONAL LTD.

Executive Engineer (E) II
 Division No. II
 Transmission of Power GoP
 Department of Power
 Itanagar-791113

POWER GRID CORPORATION OF INDIA LIMITED
132 KV S/C (ON D/C TOWER) RIL0 - SAGALEE TRANSMISSION LINE
TOWER SCHEDULE

SL. No.	Location	Type of Tower	Body extn.	Leg Extensions			Chimney Extensions			CPD/C PU	Angle of Deviation	Span in (M)	SECTION LENGTH TH	Cumulative Length (M)	Reduced Level (m)	Wind Span (m)	Sum of Adjacent span	Weight Span Hot (m)			Weight Span Cold (m)			Co-ordinates		REMARKS
				A	B	C	D	A	B									C	D	Left	Right	Total	Left	Right	Total	
104	AP80	DB+	0	1.5	1.5	0	0	0	0	0	0	0	133	25676	1018.493	211.5	423	-205	263	58	-377	338	-39	543356	3012730	VIII-Upergal Valley
105	AP81	DD+	0	1.5	1.5	0	0	1.5	1.5	0	0	290	25966	1000.639	247	494	27	-392	-365	-48	-704	-752	543666	3012702	VIII-Lowergal Nala, 2 Nos Cart track	
106	AP82	DBN+	0	0	0	0	0	0	0	0	204	26170	1055.166	151	302	587	-212	375	894	-377	517	543801	3012575	Cross-arm Strengthening required		
107	AP82A	DC+	0	1.5	1.5	0	0	1.5	1.5	0	0	98	26268	1069.258	190.5	381	310	421	731	475	598	1073	543888	3012531	Cross arm strengthening not required/Approved	
108	AP84	DD+	3	1.5	1.5	3	3	0	0	0	283	26551	1022.587	281	562	-138	-229	-367	-315	-462	-777	544169	3012485	VIII-Lowergal Valley		
109	AP85	DC+	0	1.5	1.5	0	0	0	0	0	279	26830	1082.296	210	420	508	63	571	741	59	800	544412	3012617	Cross arm strengthening not required/Approved		
110	AP86	DC+	6	3	3	0	0	1.5	0	0	141	26971	1076.860	134	268	78	115	193	82	147	229	544556	3012619	VIII-Lowergal Nala		
111	AP87	DBN+	6	1.5	1.5	3	1.5	0	0	0	127	27098	1073.272	96	192	12	497	509	-20	781	771	544674	3012659	Cross-arm Strengthening required		
112	AP89	DBN+	6	1.5	1.5	3	0	0	0	0	65	27163	1056.614	215	430	-432	395	-37	-726	530	-196	544739	3012662	VIII-Lowergal Valley		
113	AP90	DD+	0	1.5	1.5	1.5	1.5	0	0	1.5	365	27528	1019.805	343.5	687	-30	61	31*	-165	-3	-168	545085	3012774	VIII-Lowergal Road, Nala		
114	AP92	DD+	0	1.5	1.5	0	0	0	0	0	322	27850	1037.616	209	418	261	342	603	325	528	853	545355	3012594	VIII-Lowergal		
115	AP93	DC+	0	1.5	1.5	0	0	0	0	0	96	27946	1022.065	125.5	251	-248	79	-167	-432	79	-353	545456	3012591	VIII-Khamlee		
116	AP94	DC+	6	3	3	0	0	0	0	0	155	28101	1015.972	215	430	76	-145	-69	76	-323	-247	545597	3012541	VIII-Khamlee Nala		
117	AP95	DC+	0	0	0	0	0	0	0	0	275	28376	1064.766	189.5	379	420	560	980	598	861	1479	545866	3012545	VIII-Khamlee		

For KEC International Ltd.

TAPAS SARKAR
Senior Surveyor

KEC INTERNATIONAL LTD.

N.A. KHAN
Sr. Project Manager (C)

सुरज कुमार/Suraj Kumar
अभियंता/Engineer

व्यापक योजना/Comp. Scheme
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एस सुरेश कुमार/S. Suresh Kumar
मुख्य प्रबंधक (व्यापक योजना)
Chief Manager (Comp. Scheme)

अरुणाचल प्रदेश/Arunachal Pradesh

Executive Engineer (E) II
Transmission Division No. II
Department of Power GoAP
Itanagar-791113

POWER GRID CORPORATION OF INDIA LIMITED
132 KV S/C (ON D/C TOWER) RILO - SAGALEE TRANSMISSION LINE
TOWER SCHEDULE

Sl. No.	Location No.	Type of Tower	Body extn.	Leg Extensions			Chimney Extensions			GPD/C PU	Angle of Deviation	Span in (M)		Cumulative Length (M)	Reduced Level (m)	Wind Span (m)	Sum of Adjacent span	Weight Span Hot (m)			Weight Span Cold (m)			Co-ordinates		REMARKS
				A	B	C	D	A	B			C	D					Left	Right	Total	Left	Right	Total	Easting	Northing	
118	AP95A	DC+	6	1.5	3	3	0	0	3	0	0.0	24°41'39"RT	200	28480	1029.649	152	304	-456	316	-140	-777	453	-324	545973	3012583	Vill-Khamlee
119	AP96	DC+	6	3	3	0	0	1.5	1.5	0	0.0	17°49'31"LT	167	28680	1005.814	183.5	367	-116	-210	-326	-253	-396	-649	546167	3012592	Vill-Khamlee
120	AP96A	DB+	0	1.5	1.5	0	0	0	0	0	0.0	09°24'32"LT	167	28847	1038.866	189	378	377	188	565	563	240	803	546323	3012646	Vill-Khamlee Valley
121	AP97	DB+	3	1.5	1.5	0	0	0	0	0	0.0	12°40'13"LT	211	29058	1026.316	227	454	23	264	287	-29	354	325	546511	3012744	Vill-Khamlee Valley
122	AP98	DBN+	9	0	0	0	0	0	3	3	0.0	12°56'18"RT	243	29301	1001.214	218.5	437	-21	351	330	-111	512	401	546885	3012898	Vill-Khamlee
123	AP99	DD+	0	1.5	1.5	0	0	0	3	3	0.0	32°16'26"RT	194	29495	983.007	188.5	377	-157	98	-59	-318	102	-216	546852	3012982	Nals, Valley Vill-Khamlee
124	AP100	DBN+	3	1.5	1.5	0	0	0	0	0	0.0	04°38'12"RT	183	29678	979.356	198	396	85	-9	76	81	-82	-1	547037	3012970	Vill-Khamlee
125	AP101	DD+	9	0	0	0	0	0	1.5	0	0.0	57°46'44"LT	213	29891	992.920	266.5	537	222	286	508	295	364	659	547244	3012935	Vill-Khamlee
126	AP102	DB+	3	3	3	0	0	0	0	0	0.0	10°42'38"RT	324	30215	970.780	312.5	625	38	271	309	-40	348	308	547461	3013178	Vill-Khamlee
127	AP103	DD+	6	3	3	0	0	0	3	1.5	0.0	36°29'25"RT	301	30516	947.700	256.5	517	30	309	339	-47	436	389	547698	3013363	Vill-Khamlee
128	AP104	DD+	6	3	3	0	0	0	1.5	0	0.0	45°21'39"LT	216	30732	923.801	193.5	387	-93	-81	-174	-220	-186	-406	547913	3013367	Vill-Khamlee Valley
129	AP104A	DD+	0	1.5	1.5	0	0	0	1.5	0	0.0	32°13'05"RT	171	30903	945.480	159	318	252	301	553	357	446	803	548030	3013492	2 Nos Valley Vill-Khamlee
130	AP105	DD+	6	0	3	1.5	0	0	3	0	0.0	45°12'51"RT	147	31050	921.000	236.5	473	-154	493	339	-299	701	402	548173	3013526	NH-13, Pare River, 33kv line, 11kv line Vill-Khamlee
131	AP106	DD+	6	0	0	0	0	0	0	0	0.0	18°40'00"LT	326	31376	861.740	228	456	-167	-455	-622	-375	-784	-1159	548451	3013365	Due to NH Crossing AP106/0 DD Type Tower Proposed Vill-Khamlee

(Signature)
Executive Engineer (E) II
Transmission Division No. II
Department of Power GoAP
Itanagar-791113

(Signature)
एस सुरेश कुमार/S. Suresh Kumar
मुख्य प्रबंधक (व्यापक योजना)
Chief Manager (Comp. Scheme)
पारबिस, सामाजी/POWERGRID, Sagalee
अरुणाचल प्रदेश/Arunachal Pradesh

(Signature)
सुरज कुमार/Suraj Kumar
अभियंता/Engineer
व्यापक योजना/Comp. Scheme
पारबिस, सामाजी/POWERGRID, Sagalee
अरुणाचल प्रदेश/Arunachal Pradesh

FOR KEC International Ltd.
(Signature)
N.A. KHAN
Sr. Project Manager (C)

(Signature)
TAPAS SARKAR
Senior Surveyor
KEC INTERNATIONAL LTD.

POWER GRID CORPORATION OF INDIA LIMITED
132 KV S/C (ON D/C TOWER) RILO - SAGALEE TRANSMISSION LINE
TOWER SCHEDULE

SL. Location No.	Type of Tower	Body extn.	Leg Extensions			Chimney Extensions			CP/DIC PU	Angle of Deviation	Span in (M)		Cumulative Length (M)	Reduced Level (m)	Wind Span (m)	Sum of Adjacent span	Weight Span Hot (m)			Weight Span Cold (m)			Co-ordinates		REMARKS	
			A	B	C	D	A	B			C	D					Left	Right	Total	Left	Right	Total	Easting	Northing		
132	AP107	DBN+	6	0	1.5	1.5	3	0	0	0	0	130	31506	899.000	164.5	329	585	-396	189	914	-710	204	548576	3013334	Cross-arm Strengthening required Vill-Sagalee	
133	AP108	DC+	0	1.5	0	0	1.5	0	0	0	199	31705	959.370	182.5	365	595	-426	169	909	-749	150	548767	3013297	Cross-arm Strengthening required Vill-Sagalee		
134	AP109	DBN+	0	0	1.5	1.5	0	0	1.5	3	166	31871	1006.000	150	300	592	-285	307	915	-508	407	548932	3013319	Cross-arm Strengthening required Vill-Sagalee		
135	AP110	DBN+	0	0	1.5	1.5	0	0	0	0	134	32005	1032.020	112	224	419	-460	-41	642	-780	-138	549068	3013303	Cross-arm Strengthening required Vill-Sagalee		
136	AP112	DC+	0	0	1.5	1.5	0	0	0	0	90	32095	1057.090	109.5	219	550	-49	501	870	-121	749	549152	3013277	Cross-arm Strengthening required Nala		
137	AP113	DC+	0	0	1.5	1.5	1.5	3	1.5	1.5	129	32224	1065.160	151	302	178	444	622	250	670	920	549280	3013282	Cross arm strengthening not required/Approved Valley		
138	AP114	DD+	6	3	3	3	0	0	1.5	0	173	32397	1025.080	291.5	583	-271	792	521	-497	-1163	666	549441	3013359	Cross-arm Strengthening required Vill-Sagalee		
139	AP115	DBN+	0	0	1.5	1.5	0	0	1.5	0	410	32807	898.473	351.5	703	-382	527	145	-753	768	15	549580	3013735	Cross-arm Strengthening required Vill-Sagalee		
140	AP116	DD+	0	0	0	0	0	0	0	0	293	33100	836.987	179	358	-234	44	-190	-475	51	-424	549742	3014000	Cross-arm Strengthening required Vill-Sagalee		
Gantry (Sagalee)		DD+									65	33165	837.580									549774	3014040			
											Total Length															
											33.165		KM													

TAPAS BARKAR
Senior Surveyor
KEC INTERNATIONAL LTD.

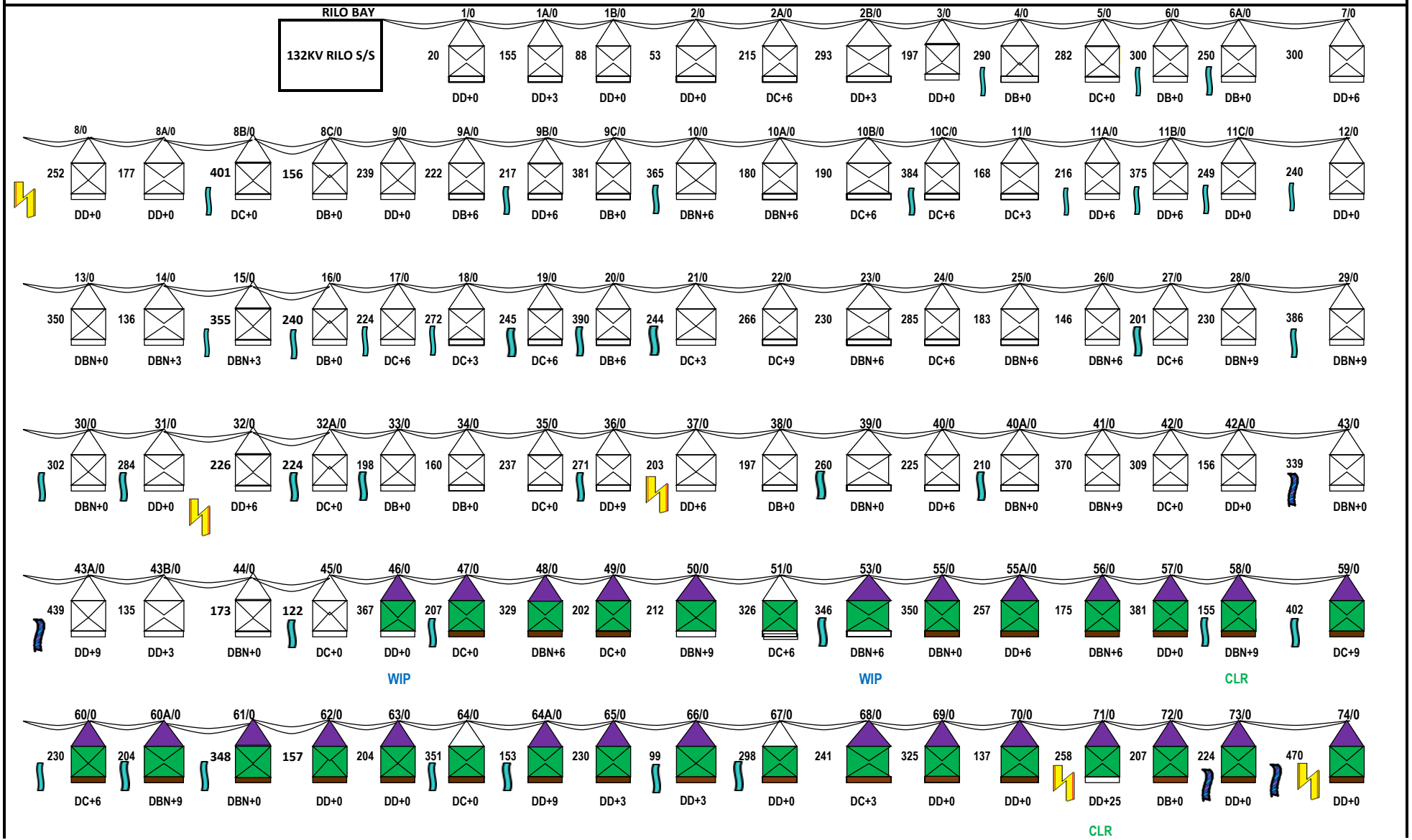
Suraj Kumar/Suraj Kumar
अभियंता/Engineer
व्यापक योजना/Comp. Scheme
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अरुणाचल प्रदेश/Arunachal Pradesh

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Chief Manager (Comp. Scheme)
पावरग्रिड, सागली/POWERGRID, Sagalee
अरुणाचल प्रदेश/Arunachal Pradesh

Executive Engineer (E)
Transmission Division No. 11
Department of Power GoAP
Itanagar-791113

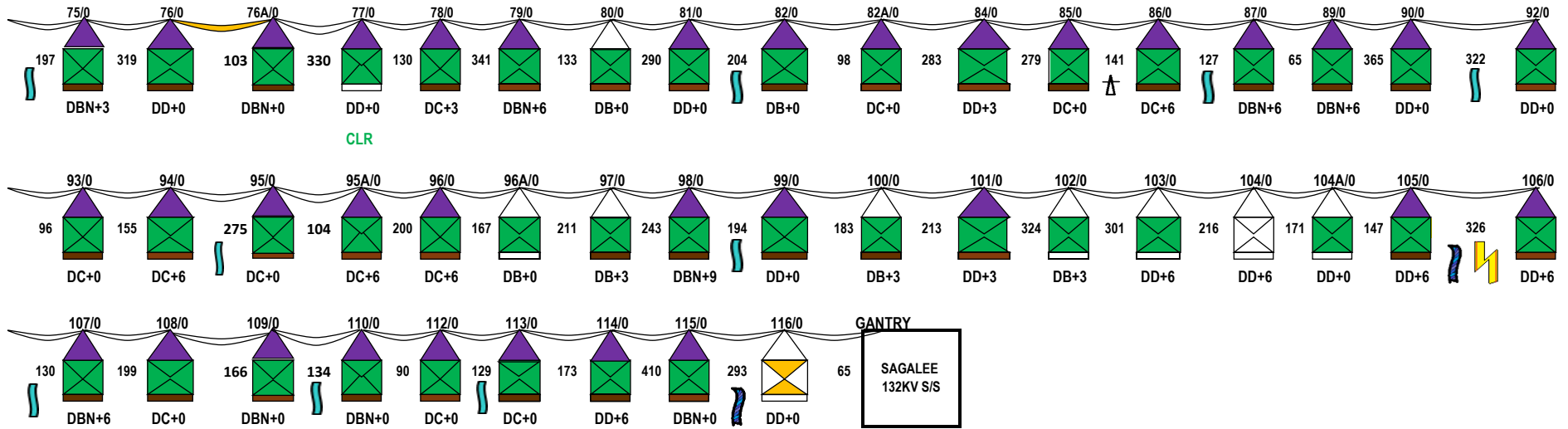
VISUAL CHART

Name of Line : 132KV S/C ON D/C TOWER RILO-SAGALEE T/L
 Powergrid Corporation of India Limited
 LOA No.: CC-CS/165-NER/TWT-3525/3/G1/NOA-II/7313

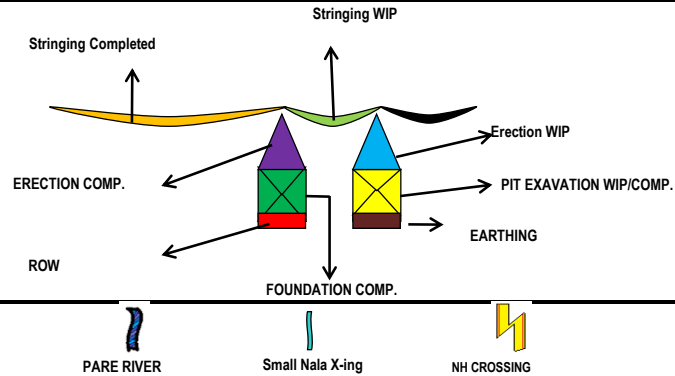


VISUAL CHART

Name of Line : 132KV S/C ON D/C TOWER RILO-SAGALEE T/L
 Powergrid Corporation of India Limited
 LOA No.: CC-CS/165-NER/TWT-3525/3/G1/NOA-II/7313



LEGEND



S NO.	ACTIVITY	UNIT	TOTAL LOCATION APPROVED	COMPLETED	BALANCE	WIP	EXTN							
							TOWER TYPE	0	3	6	9	18	25	
1	Foundation	Tower	Nos.	140	71	69	6	DB	13	3	2	0	0	0
								DBN	12	3	12	7	0	0
2	Earthing	PIPE	Nos.	140	0	77	0	DC	16	5	13	2	0	0
								CP						
3	Erection	Tower	Nos.	140	61	79	0	DD	28	7	13	3	0	1
								TOTAL	140					
4	Stringing (Final Sag)	Km.	33.165	0.103	33.062	0								