

Summary -Annexure -A

Sr. No.	Name of circle	Name of line	Total Line length in kms
1	Palanpur	66kV Palanpur-Chandisar line	16.37
2	Palanpur	66kV Palanpur-Hebatpur line	8.865
3	Palanpur	66kV Palanpur-Malan line	10.03
4	Palanpur	66kV Palanpur-Vadgam line	13.449
5	Palanpur	66 kv Agthala-Katarava Line	7.78
6	Palanpur	66 kv Deesa-Kansari 2 Line	18.563
7	Palanpur	66 kv Deesa-Kant Line	9.30
8	Palanpur	66kV Tharad Dudhava	13.13
9	Palanpur	66kV Tharad Tadav	25.42
10	Palanpur	66KV Dudhava Didarda	11.73
11	Palanpur	66KV Didarada Piluda	10.67
12	Palanpur	66kV Kesargam Miyal	7.12
Total of Palanpur circle (A)			152.41

Tower Schedule of 66kV Palanpur-Chandisar line

Sr. No.	Location No.	Tower span (in meter)	Section Length (in meter)	Type of structure	Type of H Frame / Tower	Type of Conductor	Type of String/Hardw are(\$/S,D/\$,S /T,D/T)	SRI PER TOWER	Suspension SRI	Tension SRI	S.S. H\W	D.S. H\W	S.T. H\W	D.T. H\W	PA ROD	Vibratio n Damper	Midspan joints	Repair Sleeve	T connect or with pad	HTLS palm w/o hole	Remark
1	Gantry at 220KV Palanpur SS			Gantry			S/T	3	0	3	0	0	3	0	0	3	0	0	3	6	
		48																			
2	T001		48	D/C TOWER	DA	Dog	D/T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		101																			
3	DP02		101	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		57																			Sadarpur Village Road Crossing
4	DP03			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		143																			
5	DP04			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	3	0	0	
		166																			
6	DP05			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		136																			
7	DP06			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		124																			
8	DP07			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		174																			
9	DP08			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		161																			
10	DP09		961	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		133																			
11	DP010			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		102																			
12	DP011		235	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		171																			
13	DP012			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		219.00																			
14	DP013		390.00	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		180																			
15	T0014		180	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		142																			RLWY Crossing
16	T0015		142	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		110																			
17	DP016		110	H-Frame	H-Frame	Dog	S/T	3	0	3	0	0	3	0	0	3	0	0	3	6	UG Cable C-Type Location
		0																			
18	DP017		0	H-Frame	H-Frame	Dog	S/T	3	0	3	0	0	3	0	0	3	0	0	3	6	UG Cable C-Type Location
		108																			
19	DP018		108	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		154																			11KV
20	DP019			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		206																			Palanpur-Antrolli Road & 11KV
21	DP020			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		201																			
22	DP021			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		175																			11KV
23	DP022			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		217																			
24	DP023			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		188																			
25	DP024			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		128																			
26	DP025			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		176																			
27	DP026			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		134																			
28	DP027		1579	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		137																			
29	DP028			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		134																			
30	DP029			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		176																			
31	DP030			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		186																			
32	DP031			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		152																			Parpada Village Road & 11KV
33	DP032			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		162																			
34	DP033			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		138																			
35	DP034			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		170																			Cart Track
36	DP035			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		176																			
37	DP036			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		198																			LT Line
38	DP037		1629	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		202																			Cart Track & LT Crossing
39	DP038			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		189																			
40	DP039			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	

[illegible]

72	DP071			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		196																			
73	DP072			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		133																			Kushkal Road
74	DP073			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		198																			
75	DP074			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		129																			
76	DP075		1702	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		95																			11KV
77	DP076			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		168																			11KV
78	DP077			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		178																			
79	DP078			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		180																			
80	DP079			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		190																			
81	DP080			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		174																			
82	DP081			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		225																			
83	DP082			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		167																			
84	DP083			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		183																			11KV
85	DP084			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		168																			
86	DP085			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		175																			
87	DP086		1903	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		166																			Cart Track
88	DP087			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		150																			
89	DP088			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		221																			11KV
90	DP089		537	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		190																			11KV
91	DP090			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		180																			11KV
92	DP091			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		168																			Cart Track
93	DP092			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		154																			
94	DP093			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		138																			Dangiya Road
95	DP094			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		169																			
96	DP095			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		148																			
97	DP096		1147	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		167																			
98	DP097			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		146																			
99	DP098		313	H-Frame	H-Frame	Dog	D/T	12	0	12	0	0	0	6	0	6	0	0	0	0	
		99																			11KV
100	DP099		99	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		145																			
101	T0100		145	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	

		134																	NH Crossing
102	T0101		134	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0
		22																	
103	GANTRY at 66KC Chandisar SS		22	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0
104	Gantruy							3		3			3			3		3	6
		16365	16365					510	321	189	141	90	111	39	231	612	9	9	12
Additional Quantities								9	9	0	9	0	0	0	0	0	0	0	0
Final Quantities								519	330	189	150	90	111	39	231	612	9	9	12

Summary	
Line name	66kV Palanpur-Chandisar Line
Line length CKM	16.365
Conductor to be used CKM	49.340
Type Structure S/C/D/C /H-frame	S/C H frame+Tower
No of Single Suspension location	47
No of Double Suspension location	30
No of Single Tension location	13
No of Double Tension location	13
Hotline CKT kM	0.400
Coldline CKT kM	15.965

Tower Schedule of 66kV Palanpur-Hebatpur line

Sr. No.	Location No.	Tower span (in meter)	Section Length (in meter)	Type of structure	Type of H Frame / Tower	Type of Conductor	Type of String/Hardware(S/S,D/S,S/T,D/T)	SRI PER TOWER	Suspension SRI	Tension SRI	S.S. H\W	D.S. H\W	S.T. H\W	D.T. H\W	PA ROD	Vibration Damper	Midspan joints	Repair Sleeve	T connector with pad	HTLS palm w/o hole	Remark
1	Gantry at 220KV Palanpur SS			Gantry			S/T	3	0	3	0	0	3	0	0	3	0	0	3	6	
		51																			
2	T001		51	D/C TOWER	DA	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		93																			
3	DP02		93	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		56																			Sadarpur Village Road Crossing & 11KV
4	DP03		56	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		73																			
5	DP04		73	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		127																			
6	DP05		127	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		196																			
7	DP06		196	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		234																			
8	DP07			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	Cart Track
		188																			Cart Track
9	DP08			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	LT Line
		141																			
10	DP09		563	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		155																			Sadarpur Village Road Crossing & 11KV
11	DP010		155	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		162																			
12	DP011			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	11KV
		136																			
13	DP012		298	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		158.00																			
14	DP013			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		202																			Songadh Road
15	DP014			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		175																			
16	DP015			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		190																			
17	DP016			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		176																			
18	DP017			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		184																			11KV
19	DP018			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		165																			
20	DP019			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		174																			LT Line
21	DP020			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		182																			
22	DP021		1606	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		152																			Road Crossing & 11KV
23	DP022			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		207																			
24	DP023			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		143																			
25	DP024			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		186																			11KV
26	DP025			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		181																			
27	DP026		869	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		137																			Surajpura By Pass Road
28	DP027			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		188																			
29	DP028			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		167																			11KV
30	DP029			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		185																			11KV
31	DP030			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		110																			11KV
32	DP031			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		222																			11KV
33	DP032			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		185																			11KV & LT Line
34	DP033			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		153																			
35	DP034			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		197																			Karjoda Road
36	DP035		1544	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		224																			11KV
37	DP036			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		168																			Surajpura Primary School & 11KV
38	DP037			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		116																			
39	DP038			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		201																			
40	DP039			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		157																			
41	DP040			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	

		168																		11KV
42	DP041			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	Laxmanpura Road & 11KV
		180																		
43	DP042			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	
		161																		
44	DP043			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	
		191																		
45	DP044		1566	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	
		70																		
46	DP045		70	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	
		86																		
47	DP046		86	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	
		133																		
48	DP047		133	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	
		130																		
49	DP048			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	
		116																		
50	DP049			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	11KV
		150																		
51	DP050		396	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	
		104																		
52	T0051		104	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	
		152																		
53	T0052		152	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	RLWY Crossing
		164																		
54	DP053		164	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	
		148																		
55	DP054			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	
		131																		
56	DP055		279	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	
		83																		
57	DP056		83	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	NH Crossing
		131																		
58	DP057		131	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	
		70																		
59	Gantry at Hebtpr 55		70	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	
60	Gantry							3		3			3			3		3	3	
		8865	8865					339	147	192	57	45	108	42	102	354	9	9	6	9
				Additional Quantities				4	4	0	4	0	0	0	0	0	0	0	0	3
				Final Quantities				343	151	192	61	45	108	42	102	354	9	9	6	12

Tower Schedule of 66kV Palanpur-Malan line

Sr. No.	Location No.	Tower span (in meter)	Section Length (in meter)	Type of structure	Type of H Frame / Tower	Type of Conductor	Type of String/Hard ware(S/S,D/S,S/T,D/T)	SRI PER TOWER	Suspension SRI	Tension SRI	S.S. H\W	D.S. H\W	S.T. H\W	D.T. H\W	PA ROD	Vibrati on Damper	Midspa n joints	Repair Sleeve	T connect or with pad	HTLS palm w/o hole	Remark
1	Gantry at 220KV Palanpur SS			Gantry			S/T	3	0	3	0	0	3	0	0	3	0	0	3	6	
		50																			
2	T001		50	D/C TOWER	DA	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		90																			
3	DP02		90	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		97																			Sadarpur Village Road Crossing
4	DP03		97	H-Frame	H-Frame	Dog	D/T	12	0	12	0	0	0	6	0	6	0	0	0	0	
		186																			Krishna Vidhyalay
5	DP04		186	H-Frame	H-Frame	Dog	D/T	12	0	12	0	0	0	6	0	6	0	0	0	0	
		186																			11KV
6	DP05			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		181																			Cart Track
7	DP06		367	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		180																			Cart Track & LT Line
8	DP007			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		205																			Sadarpur Village Road Crossing & 11KV
9	DP008			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		225																			LT Line
10	DP09		610	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		135																			11KV
11	DP010		135	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		110																			Road Crossing
12	DP011			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		113																			
13	DP012			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		187																			11KV
14	DP013			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		164																			11KV
15	DP014		574	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		136																			
16	DP015			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		160																			
17	DP016			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		162																			LT Line
18	DP017			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		141																			
19	DP018			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		187																			
20	DP019			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		169																			
21	DP020			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		137																			
22	DP021			H-Frame	H-Frame	Dog	D/S	6	6	0		3	0	0	3	6	0	0	0	0	
		154																			Cart Track
23	DP022			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		195																			Cart Track
24	DP023		1441	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		132																			
25	DP024			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		180																			
26	DP025			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		175																			
27	DP026			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		155																			
28	DP027			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		131																			Road Crossing
29	DP028			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		147																			
30	DP029			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		170																			
31	DP030			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		168																			
32	DP031		1258	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		117																			LT Line
33	DP032			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		180																			
34	DP033			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		131																			
35	DP034			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		158																			
36	DP035			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	

		148																			Road Crossing
37	DP036			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		167																			Road Crossing
38	DP037			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		142																			
39	DP038			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		153																			
40	DP039		1196	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		147																			Road Crossing & 11KV
41	DP040			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		151																			
42	DP041			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		170																			Cart Track
43	DP042			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		88																			
44	DP043			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		205																			
45	DP044		761	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		140																			
46	DP045			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		170																			
47	DP046			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		180																			
48	DP047			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		126																			
49	DP048			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		160																			
50	DP049		776	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		200																			
51	DP050			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		186																			11KV
52	DP051			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		97																			Malan Road Crossing
53	DP052			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		163																			11KV
54	DP053			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		115																			
55	DP054			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		155																			
56	DP055			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		209																			11KV
57	DP056		1125	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		190																			
58	DP057			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		156																			Malan Road Crossing
59	DP058			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		184																			Village Road & 11KV
60	DP059			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		170																			Village Road & 11KV
61	DP060			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		122																			Road Crossing
62	DP061			H-Frame	H-Frame	Dog	S/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		165																			
63	DP062		987	H-Frame	H-Frame	Dog	D/T	12	0	12	0	0	0	6	0	6	0	0	0	0	
		149																			Village Road
64	DP063			H-Frame	H-Frame	Dog	S/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		148																			
65	DP064		297	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		50																			
66	DP065		50	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		28																			
67	GANTRY at 66KV Malan SS		28	H-Frame	H-Frame	Dog	D/T	6	0	6	0	0	6	0	0	3	0	0	0	0	
68	Gantry							3		3			3			3			3	6	

		10028	10028					369	216	153	72	72	75	39	144	399	9	9	6	12	
				Additional Quantities				5	5	0	5	0	0	0	0	0	0	0	0	0	
				Final Quantities				374	221	153	77	72	75	39	144	399	9	9	6	12	

Summary	
Line name	66kV Palanpur-Malan Line
Line length CKM	10.028
Conductor to be used CKM	30.234
Type Structure S/C/D/C/H-frame	S/C H frame+Tower
No of Single Suspension location	26
No of Double Suspension location	22
No of Single Tension location	8
No of Double Tension location	11
Hotline CKT kM	0.050
Coldline CKT kM	9.978

Tower Schedule of 66kV Palanpur-Vadgam line

Sr. No.	Location No.	Tower span (in meter)	Section Length (in meter)	Type of structure	Type of H Frame / Tower	Type of Conductor	Type of String/Hardware(S/S, D/S,S/T,D/T)	SRI PER TOWER	Suspension SRI	Tension SRI	S.S. H\W	D.S. H\W	S.T. H\W	D.T. H\W	PA ROD	Vibration Damper	Midspan joints	Repair Sleeve	T connect or with pad	HTLS palm w/o hole	Remark
1	Gantry at 220KV Palanpur			Gantry			S/T	3	0	3	0	0	3	0	0	3	0	0	3	6	
		45																			
2	T001		45	D/C TOWER	DA	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	3	6	
		50																			
3	DP02		50	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		50																			Village Road Crossing
4	DP03		50	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		123																			66KV SS Road
5	DP04		123	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		154																			
6	DP05		154	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		121																			
7	DP06			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		121																			Sadarpur Road
8	DP07			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		90																			
9	DP08		332	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		102																			Road Crossing
10	DP09		102	H-Frame	H-Frame	Dog	D/T	12	0	12	0	0	0	6	0	6	0	0	0	0	
		156																			
11	DP010		156	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		82																			
12	DP011			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		185																			
13	DP012			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		153																			
14	DP013			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		184																			
15	DP014			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		164																			Malan Road
16	DP015			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		152																			Cart Track
17	DP016		920	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		154																			
18	DP017			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		204																			
19	DP018			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		154																			
20	DP019		512	H-Frame	H-Frame	Dog	D/T	12	0	12	0	0	0	6	0	6	0	0	0	0	
		200																			
21	DP020			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		120																			Vasan Road
22	DP021		320	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		105																			
23	DP022			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		121																			
24	DP023			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		116																			
25	DP024			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		117																			Cart Track & 11kKV
26	DP025			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		126																			11KV
27	DP026			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		175																			LT Line
28	DP027			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		205																			
29	DP028		965	H-Frame	H-Frame	Dog	D/T	12	0	12	0	0	0	6	0	6	0	0	0	0	
		158																			
30	DP029			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		150																			
31	DP030			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		189																			11KV
32	DP031			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		140																			SH Crossing & 11KV
33	DP032		637	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		121																			
34	DP033			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		175																			
35	DP034			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		115																			
36	DP035		411	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		174																			
37	DP036		174	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		184																			Cart Track
38	DP037			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0	

		152																		
39	DP038			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0
		215																		
40	DP039			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0
		185																		Ganeshpura Road
41	DP040			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0
		175																		
42	DP041			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0
		198																		
43	DP042			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0
		207																		
44	DP043		1316	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0
		195																		Lalawada Road
45	DP044			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0
		139																		
46	DP045			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0
		118																		
47	DP046		452	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0
		258																		
48	DP047		258	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0
		184																		
49	DP048			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0
		184																		
50	DP049			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0
		167																		
51	DP050		535	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0
		200																		
52	DP051			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0
		144																		
53	DP052			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0
		128																		Village Road
54	DP053			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0
		132																		
55	DP054			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0
		155																		
56	DP055			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0
		164																		Village Road
57	DP056		923	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0
		125																		
58	DP057			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0
		177																		
59	DP058			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0
		190																		
60	DP059			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0
		185																		
61	DP060			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0
		200																		
62	DP061			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0
		181																		
63	DP062		1058	H-Frame	H-Frame	Dog	S/T	6	0	6	0	0	6	0	0	6	0	0	0	0
		186																		
64	DP063			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0
		188																		Temple Campus
65	DP064			H-Frame	H-Frame	Dog	D/S	6	6	0	0	3	0	0	3	6	0	0	0	0
		170																		
66	DP065			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0
		200																		
67	DP066			H-Frame	H-Frame	Dog	S/S	3	3	0	3	0	0	0	3	6	0	0	0	0
		187																		
68	DP067		931	H-Frame	H-Frame	Dog	D/T	9	0	9	0	0	3	3	0	6	0	0	0	0

[illegible]

66KV (220kV)Agthala Katarva Line

Tower Schedule																	Material Required For HTLS Conductor Stringing										T	HTLS	Remarks
SR No	Location No	H-Frame / Tower	Type of Tower / H-Frame	Ten / Ten / Susp / Double Ten / Double Susp	Line Configuration S/C / D/C	Span (Mtr)	Conductor	66KV Susp. SRI	66KV Tension SRI	Single Tension HW	Single Suspensi on HW	Double Tension HW	Double Suspensi on HW	PA Rod	Vibration Damper	Mid Span Jointstr	Repair Sleeve	connecto r with pad No	HTLS palm w/o hole										
1	220KV Agthala SS Gentry	Gentry	A	SS - Single Suspension	S/C		Mtr	No	No	Set	Set	Set	Set	Set	No	No	No	No	No										
2	1	Tower	B	ST - Single Tension	D/C	70.4	212.11		3	3					3			3	6										
3	2	Tower	B	ST - Single Tension	D/C	104.0	313.41		6	6					6			6	6										
4	3	H-Frame	B	ST - Single Tension	S/C	134.4	405.22		6	6					6														
5	4	H-Frame	A	SS - Single Suspension	S/C	90.3	272.25	3			3				3														
6	5	H-Frame	B	ST - Single Tension	S/C	118.7	357.73		6	6					6													11kV Kartik JGV feeder	
7	6	H-Frame	A	SS - Single Suspension	S/C	63.0	189.95	3			3				3	6													
8	7	H-Frame	A	SS - Single Suspension	S/C	232.1	699.63	3			3				3	6													
9	8	H-Frame	A	SS - Single Suspension	S/C	153.3	462.20	3			3				3	6													
10	9	H-Frame	B	ST - Single Tension	S/C	147.0	443.21		6	6					6														
11	10	H-Frame	B	ST - Single Tension	S/C	136.5	411.55		6	6					6														
12	11	H-Frame	A	SS - Single Suspension	S/C	220.5	664.81	3			3				3	6													
13	12	H-Frame	A	SS - Single Suspension	S/C	178.5	538.18	3			3				3	6													
14	13	H-Frame	A	SS - Single Suspension	S/C	178.5	538.18	3			3				3	6													
15	14	H-Frame	A	SS - Single Suspension	S/C	115.5	348.23	3			3				3	6												11kV Chitroda AG feeder	
16	15	H-Frame	A	SS - Single Suspension	S/C	168.0	506.52	3			3				3	6													
17	16	H-Frame	A	SS - Single Suspension	S/C	220.5	664.81	3			3				3	6													
18	17	H-Frame	B	ST - Single Tension	S/C	126.5	411.55		6	6					6														
19	18	H-Frame	A	SS - Single Suspension	S/C	189.0	569.84	3			3				3	6													
20	19	H-Frame	A	SS - Single Suspension	S/C	178.5	538.18	3			3				3	6													
21	20	H-Frame	A	SS - Single Suspension	S/C	199.5	601.49	3			3				3	6													
22	21	H-Frame	B	ST - Single Tension	S/C	189.0	569.84		6	6					6														
23	22	H-Frame	A	SS - Single Suspension	S/C	147.0	443.21	3			3				3	6													
24	23	H-Frame	A	SS - Single Suspension	S/C	252.0	759.78	3			3				3	6												Chitroda Govt. nursery crossing	
25	24	H-Frame	A	SS - Single Suspension	S/C	168.0	506.52	3			3				3	6													
26	25	H-Frame	A	SS - Single Suspension	S/C	210.0	633.15	6			0			3	3	6												Chitroda village road cross	
27	26	H-Frame	A	SS - Single Suspension	S/C	157.5	474.86	6			0			3	3	6													
28	27	H-Frame	A	SS - Single Suspension	S/C	168.0	506.52	3			3				3	6													
29	28	H-Frame	A	SS - Single Suspension	S/C	210.0	633.15	3			3				3	6													
30	29	H-Frame	A	SS - Single Suspension	S/C	136.5	411.55	3			3				3	6													
31	30	H-Frame	A	SS - Single Suspension	S/C	189.0	569.84	3			3				3	6													
32	31	H-Frame	A	SS - Single Suspension	S/C	189.0	569.84	3			3				3	6													
33	32	H-Frame	B	ST - Single Tension	S/C	168.0	506.52		6	6					6												11kV Aksh AG feeder		
34	33	H-Frame	A	SS - Single Suspension	S/C	147.0	443.21	3			3				3	6													
35	34	H-Frame	A	SS - Single Suspension	S/C	157.5	474.86	3			3				3	6													
36	35	H-Frame	A	SS - Single Suspension	S/C	210.0	633.15	3			3				3	6													
37	36	H-Frame	A	SS - Single Suspension	S/C	178.5	538.18	3			3				3	6													
38	37	H-Frame	A	SS - Single Suspension	S/C	210.0	633.15	3			3				3	6												11kV Manek AG feeder	
39	38	H-Frame	B	ST - Single Tension	S/C	189.0	569.84		6	6					6														
40	39	H-Frame	A	SS - Single Suspension	S/C	105.0	316.58	3			3				3	6											11kV feeder		
41	40	H-Frame	A	SS - Single Suspension	S/C	273.0	823.10	3			3				3	6													
42	41	H-Frame	B	ST - Single Tension	S/C	168.0	506.52		6	6					6														
43	42	Tower	B	ST - Single Tension	D/C	178.5	538.18		6	6					6												11kV feeder		
44	43	Tower	B	ST - Single Tension	D/C	136.5	411.55		6	6					6														
45	44	Tower	B	DT - Double Tension	D/C	220.5	664.81		9	3		3			6														
46	45	Tower	B	DT - Double Tension		136.5	411.55		9	3		3			6													Deesa-Tharad Highway road cross & 11kV feeder crossing	
47	46	H-Frame	B	ST - Single Tension	S/C	31.5	94.97		6	6					6														
48	47	H-Frame	B	ST - Single Tension	S/C	94.5	284.92		6	6					6														
49	48	Tower	B	ST - Single Tension	D/C	42.0	126.63		6	6					6														
50	49	Tower	B	ST - Single Tension	D/C	63.0	189.95		6	6					6														
104	Katarva SS Gentry	Gentry	A	SS - Single Suspension	S/C	21.0	63.32		3	3					3											3	6	11kV feeder	
Total =						7780.5	23458.2	96	126	114	84	6	6	90	294	9	9	6	12										
Span (Mtr)						Conductor	66KV Susp. SRI	66KV Tension SRI	Single Tension HW	Single Suspensi on HW	Double Tension HW	Double Suspensi on HW	PA Rod	Vibration Damper	Mid Span Jointstr	Repair Sleeve													
Additional Quantities							4	0	0	4	0	0	0	0	0	0	0	0	0										
Final Quantities							100	126	114	88	6	6	90	294	9	9	6	12											

Summary

Line name 66KV (220kV)Agthala Katarva Line

Line length RKM 7.781

Type Structure S/C/D/C /H-frame S/C & D/C

Type Structure S/C/D/C /H-frame Tower & H Frame

No of Single Suspension location 30

No of Double Suspension location 0

No of Single Tension location 17

No of Double Tension location 2

Hotline CKT km 0.777

Coldline CKT km 7.004

Total required conductor in km 23.458

777.00

66KV (132kV) Deesa - Kansari II Line

Tower Schedule							Material Required For HTLS Conductor Stringing														T	HTLS	Remarks
SR No	Location No	H-Frame / Tower	Type of Tower / H-Frame	Ten / Ten / Susp / Double Ten / Double Susp	Line Configuration S/C / D/C	Span (Mtr)	Conductor	66KV Susp. SRI	66KV Tension SRI	Single Tension H/W	Single Suspension H/W	Double Tension H/W	Double Suspension H/W	PA Rod	Vibration Damper	Mid Span Joints	Repair Sleeve	connector with pad	HTLS palm w/o hole				
							Mtr	No	No	Set	Set	Set	Set	Set	No	No	No	No	No				
1	132kV Deesa SS Gentry	Gantry	B - Low angle Tension	ST - Single Tension					3	3					3			3	6				
2	1	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	40.5	122.02		6	6					6								
3	2	H-FRAME	A-suspension	SS - Single Suspension	S/C	105.4	317.89	3			3				3	6			11kV Crossing				
4	3	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	114.0	343.57		6	6					6				11kV Crossing				
5	4	H-FRAME	B - Low angle Tension	DT - Double Tension	S/C	121.4	366.05		9	3			3			6			11kV Crossing				
6	5	H-FRAME	A-suspension	DS - Double Suspension	S/C	161.9	488.07	6					3		3	6			11kV Crossing				
7	6	H-FRAME	A-suspension	SS - Single Suspension	S/C	143.8	433.48	3				3			3	6							
8	7	H-FRAME	A-suspension	SS - Single Suspension	S/C	198.1	597.24	3				3			3	6							
9	8	H-FRAME	A-suspension	SS - Single Suspension	S/C	190.6	574.76	3				3			3	6			11kV Crossing				
10	9	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	191.7	577.98		6	6						6							
11	10	H-FRAME	A-suspension	SS - Single Suspension	S/C	223.7	674.30	3				3			3	6			11kV Crossing				
12	11	H-FRAME	A-suspension	SS - Single Suspension	S/C	181.1	545.87	3				3			3	6							
13	12	H-FRAME	A-suspension	SS - Single Suspension	S/C	191.7	577.98	3				3			3	6							
14	13	H-FRAME	A-suspension	SS - Single Suspension	S/C	202.4	610.09	3				3			3	6							
15	14	H-FRAME	A-suspension	DS - Double Suspension	S/C	159.8	481.65	6					3		3	6							
16	15	H-FRAME	B - Low angle Tension	DT - Double Tension	S/C	223.7	674.30		9	3			3			6			11kV Crossing				
17	16	H-FRAME	A-suspension	SS - Single Suspension	S/C	202.4	610.09	3				3			3	6			11kV Crossing				
18	17	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	138.5	417.43		6	6						6							
19	18	H-FRAME	A-suspension	SS - Single Suspension	S/C	159.8	481.65	3				3			3	6			11kV Crossing				
20	19	H-FRAME	A-suspension	SS - Single Suspension	S/C	181.1	545.87	3				3			3	6			11kV Crossing				
21	20	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	213.0	642.20		6	6						6			11kV Crossing				
22	21	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	85.2	256.88	3	6	6	3				3	6			11kV Crossing				
23	22	TOWER	A-suspension	DS - Double Suspension	D/C	74.6	224.77	6						3	3	6			River Crossing & 11kV Crossing				
24	23	TOWER	A-suspension	DS - Double Suspension	D/C	489.9	1477.05	6						3	3	6							
25	24	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	117.2	353.21	3	6	6	3				3	6							
26	25	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	127.8	385.32		6	6						6							
27	26	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	287.6	866.96		6	6						6			11kV Crossing				
28	27	H-FRAME	A-suspension	SS - Single Suspension	S/C	202.4	610.09	3				3			3	6			11kV Crossing				
29	28	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	181.1	545.87		6	6						6							
30	29	H-FRAME	A-suspension	SS - Single Suspension	S/C	223.7	674.30	3				3			3	6							
31	30	H-FRAME	A-suspension	SS - Single Suspension	S/C	191.7	577.98	3				3			3	6			11kV Crossing				
32	31	H-FRAME	A-suspension	SS - Single Suspension	S/C	117.2	353.21	3				3			3	6			11kV Crossing				
33	32	H-FRAME	A-suspension	SS - Single Suspension	S/C	181.1	545.87	3				3			3	6							
34	33	H-FRAME	A-suspension	SS - Single Suspension	S/C	181.1	545.87	3				3			3	6			11kV Crossing				
35	34	H-FRAME	A-suspension	SS - Single Suspension	S/C	202.4	610.09	3				3			3	6							
36	35	H-FRAME	A-suspension	SS - Single Suspension	S/C	181.1	545.87	3				3			3	6							
37	36	H-FRAME	A-suspension	SS - Single Suspension	S/C	170.4	513.76	3				3			3	6			11kV Crossing				
38	37	H-FRAME	A-suspension	SS - Single Suspension	S/C	149.1	449.54	3				3			3	6							
39	38	H-FRAME	A-suspension	SS - Single Suspension	S/C	202.4	610.09	3				3			3	6							
40	39	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	181.1	545.87		6	6						6							
41	40	H-FRAME	A-suspension	SS - Single Suspension	S/C	170.4	513.76	3				3			3	6							
42	41	H-FRAME	A-suspension	SS - Single Suspension	S/C	191.7	577.98	3				3			3	6							
43	42	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	181.1	545.87		6	6						6							
44	43	H-FRAME	A-suspension	SS - Single Suspension	S/C	191.7	577.98	3				3			3	6							
45	44	H-FRAME	A-suspension	SS - Single Suspension	S/C	191.7	577.98	3				3			3	6							
46	45	H-FRAME	A-suspension	DS - Double Suspension	S/C	202.4	610.09	6						3	3	6							
47	46	H-FRAME	A-suspension	DS - Double Suspension	S/C	138.5	417.43	6						3	3	6			NH Crossing & 11kV Crossing				
48	47	H-FRAME	A-suspension	SS - Single Suspension	S/C	149.1	449.54	3				3			3	6			11kV Crossing				
49	48	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	170.4	513.76		6	6						6							
50	49	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	213.0	642.20		6	6						6							
51	50	H-FRAME	A-suspension	SS - Single Suspension	S/C	191.7	577.98	3				3			3	6			11kV Crossing				
52	51	H-FRAME	A-suspension	SS - Single Suspension	S/C	159.8	481.65	3				3			3	6			11kV Crossing				
53	52	H-FRAME	A-suspension	SS - Single Suspension	S/C	181.1	545.87	3				3			3	6			11kV Crossing				
54	53	H-FRAME	A-suspension	SS - Single Suspension	S/C	191.7	577.98	3				3			3	6							
55	54	H-FRAME	A-suspension	SS - Single Suspension	S/C	202.4	610.09	3				3			3	6			11kV Crossing				
56	55	H-FRAME	A-suspension	SS - Single Suspension	S/C	191.7	577.98	3				3			3	6							
57	56	H-FRAME	A-suspension	SS - Single Suspension	S/C	191.7	577.98	3				3			3	6			11kV Crossing				
58	57	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	202.4	610.09		6	6						6							
59	58	H-FRAME	A-suspension	SS - Single Suspension	S/C	213.0	642.20	3				3			3	6			11kV Crossing				
60	59	H-FRAME	A-suspension	SS - Single Suspension	S/C	181.1	545.87	3				3			3	6							
61	60	H-FRAME	A-suspension	SS - Single Suspension	S/C	202.4	610.09	3				3			3	6							
62	61	H-FRAME	A-suspension	SS - Single Suspension	S/C	191.7	577.98	3				3			3	6							
63	62	H-FRAME	A-suspension	SS - Single Suspension	S/C	213.0	642.20	3				3			3	6			11kV Crossing				
64	63	H-FRAME	A-suspension	SS - Single Suspension	S/C	191.7	577.98	3				3			3	6			11kV Crossing				
65	64	H-FRAME	A-suspension	SS - Single Suspension	S/C	170.4	513.76	3				3			3	6			11kV Crossing				
66	65	H-FRAME	A-suspension	SS - Single Suspension	S/C	202.4	610.09	3				3			3	6			11kV Crossing				
67	66	H-FRAME	A-suspension	SS - Single Suspension	S/C	181.1	545.87	3				3			3	6			11kV Crossing				
68	67	TOWER	B - Low angle Tension	DT - Double Tension	S/C	191.7	577.98		9	3			3			6							
69	68	TOWER	B - Low angle Tension	DT - Double Tension	S/C	181.1	545.87		9	3			3			6			SH Crossing				
70	69	H-FRAME	A-suspension	SS - Single Suspension	S/C	202.4	610.09	3				3			3	6			11kV Crossing				
71	70	H-FRAME	A-suspension	SS - Single Suspension	S/C	202.4	610.09	3				3			3	6			11kV Crossing				
72	71	TOWER	B - Low angle Tension	ST - Single Tension	S/C	213.0	642.20		6	6						6			11kV Crossing				
73	72	H-FRAME	A-suspension	SS - Single Suspension	S/C	181.1	545.87	3				3			3	6							
74	73	H-FRAME	A-suspension	SS - Single Suspension	S/C	213.0	642.20	3				3			3	6							
75	74	H-FRAME	A-suspension	SS - Single Suspension	S/C	181.1	545.87	3				3			3	6			11kV Crossing				
76	75	H-FR																					

104	Kansari SS Gentry	Gentry	B - Low angle Tension	ST - Single Tension	S/C	42.6	128.44		3	3					3			3	6	
					Total =	18563	#####	246	195	153	210	21	18	228	618	9	9	6	12	0
						Span (Mtr)	Conduc tor	66KV Susp. SRI	66KV Tension SRI	Single Tension H/W	Single Suspension H/W	Double Tension H/W	Double Suspension H/W	PA Rod	Vibrat ion Damp er	Mid Span Jointsr	Repair Sleeve			
					Additional Quantities			10	0	0	10	0	0	0	0	0	0	0	0	0
					Final Quantities			256	195	153	220	21	18	228	618	9	9	6	12	

Summery	
Line name	66KV (132kV) Deesa - Kansari II Line
Line length RKM	18.563
Type Structure S/C/D/C	S/C & D/C
Type Structure S/C/D/C	Tower & H Frame
No of Single Suspension	74
No of Double Suspension	2
No of Single Tension locs	25
No of Double Tension locs	3
Hotline CKT km	0.777
Coldline CKT km	17.786
tal Required conductor in l	55.967
	River crossing-0.4899

777.45 0.4899

66KV (132kv) Deesa - Kant Line																					
Tower Schedule							Material Required For HTLS Conductor Stringing														
SR No	Location No	H-Frame / Tower	Type of Tower / H-Frame	Ten / Ten / Susp / Double Ten / Double Susp	Line Configuration S/C / D/C	Span (Mtr)	Conductor	66KV Susp. SRI	66KV Tension SRI	Single Tension HW	Single Suspension HW	Double Tension HW	Double Suspension HW	PA Rod	Vibration Damper	Mid Span Joins r	Repair Sleeve	T connector with pad	HTLS palm w/o hole	Remarks	
	132kv Deesa SS Gentry						Mtr	No	No	Set	Set	Set	Set	Set	No	No	No	No	No		
1		Gantry	B - Low angle Tension	ST - Single Tension	S/C				3	3					3			3	6		
2	1	MONOPOLE	B - Low angle Tension	ST - Single Tension	S/C	18.0	54.33	3	6	6	3				6						
3	2	MONOPOLE	B - Low angle Tension	ST - Single Tension	S/C	45.6	137.42		6	6					6						
4	3	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	35.0	105.46		6	6					6						
5	4	H-FRAME	B - Low angle Tension	DT - Double Tension	S/C	96.5	290.83		9	3		3			6						
6	5	H-FRAME	A-suspension	DS - Double Suspension	S/C	119.8	361.14	6					3	3							City Road Crossing
7	6	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	135.7	409.08		6	6					6						11Kv Crossing
8	7	H-FRAME	A-suspension	SS - Single Suspension	S/C	190.8	575.26	3			3			3							11Kv Crossing
9	8	H-FRAME	A-suspension	SS - Single Suspension	S/C	192.9	581.65	3			3			3							
10	9	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	100.7	303.61		6	6					6						11Kv Crossing
11	10	H-FRAME	A-suspension	DS - Double Suspension	S/C	93.3	281.24	6					3	3							
12	11	H-FRAME	A-suspension	DS - Double Suspension	S/C	95.4	287.63	6					3	3							City Road Crossing
13	12	H-FRAME	A-suspension	SS - Single Suspension	S/C	95.4	287.63	3			3			3							
14	13	H-FRAME	A-suspension	SS - Single Suspension	S/C	95.4	287.63	3			3			3							
15	14	H-FRAME	A-suspension	SS - Single Suspension	S/C	95.4	287.63	3			3			3							
16	15	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	159.0	479.39		6	6					6						
17	16	H-FRAME	A-suspension	SS - Single Suspension	S/C	148.4	447.43	3			3			3							
18	17	H-FRAME	A-suspension	SS - Single Suspension	S/C	190.8	575.26	3			3			3							
19	18	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	190.8	575.26		6	6					6						
20	19	TOWER	Cable termination tower	ST - Single Tension	S/C	137.8	415.47		6	6					6			3	6		NH Crossing (UG Cable) & 11kv crossing
21	20	TOWER	Cable termination tower	ST - Single Tension	630sqmm (3+1) UG	0.0	0.00		6	6					6						
22	21	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	169.6	511.34		6	6					6			3	6		
23	22	H-FRAME	A-suspension	SS - Single Suspension	S/C	148.4	447.43	3			3			3							11Kv Crossing
24	23	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	127.2	383.51		6	6					6						
25	24	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	190.8	575.26		6	6					6						11Kv Crossing
26	25	H-FRAME	A-suspension	SS - Single Suspension	S/C	190.8	575.26	3			3			3							
27	26	H-FRAME	A-suspension	SS - Single Suspension	S/C	190.8	575.26	3			3			3							
28	27	H-FRAME	A-suspension	SS - Single Suspension	S/C	180.2	543.30	3			3			3							
29	28	H-FRAME	A-suspension	SS - Single Suspension	S/C	190.8	575.26	3			3			3							11Kv Crossing
30	29	H-FRAME	A-suspension	SS - Single Suspension	S/C	201.4	607.22	3			3			3							11Kv Crossing
31	30	H-FRAME	A-suspension	SS - Single Suspension	S/C	159.0	479.39	3			3			3							11Kv Crossing
32	31	H-FRAME	A-suspension	SS - Single Suspension	S/C	201.4	607.22	3			3			3							
33	32	H-FRAME	A-suspension	SS - Single Suspension	S/C	169.6	511.34	3			3			3							
34	33	H-FRAME	A-suspension	SS - Single Suspension	S/C	180.2	543.30	3			3			3							11Kv Crossing
35	34	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	190.8	575.26		6	6					6						11Kv Crossing
36	35	H-FRAME	A-suspension	SS - Single Suspension	S/C	190.8	575.26	3			3			3							
37	36	H-FRAME	A-suspension	SS - Single Suspension	S/C	201.4	607.22	3			3			3							11Kv Crossing
38	37	H-FRAME	A-suspension	SS - Single Suspension	S/C	201.4	607.22	3			3			3							11Kv Crossing
39	38	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	201.4	607.22		6	6					6						11Kv Crossing
40	39	H-FRAME	A-suspension	SS - Single Suspension	S/C	190.8	575.26	3			3			3							11Kv Crossing
41	40	H-FRAME	A-suspension	DS - Double Suspension	S/C	190.8	575.26	6					3	3							
42	41	H-FRAME	A-suspension	DS - Double Suspension	S/C	190.8	575.26	6					3	3							SH Crossing
43	42	H-FRAME	A-suspension	SS - Single Suspension	S/C	201.4	607.22	3			3			3							11Kv Crossing
44	43	H-FRAME	A-suspension	SS - Single Suspension	S/C	190.8	575.26	3			3			3							400Kv Line Crossing
45	44	H-FRAME	A-suspension	SS - Single Suspension	S/C	201.4	607.22	3			3			3							
46	45	H-FRAME	A-suspension	SS - Single Suspension	S/C	169.6	511.34	3			3			3							11Kv Crossing
47	46	H-FRAME	A-suspension	SS - Single Suspension	S/C	190.8	575.26	3			3			3							
48	47	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	190.8	575.26		6	6					6						11Kv Crossing
49	48	TOWER	B - Low angle Tension	ST - Single Tension	D/C	106.0	319.59		6	6					6						11Kv Crossing
50	49	TOWER	B - Low angle Tension	ST - Single Tension	D/C	180.2	543.30		6	6					6						11Kv Crossing
51	50	TOWER	A-suspension	SS - Single Suspension	D/C	148.4	447.43	3			3			3							
52	51	TOWER	B - Low angle Tension	DT - Double Tension	D/C	233.2	703.10		9	3		3			6						11Kv Crossing
53	52	TOWER	B - Low angle Tension	DT - Double Tension	D/C	212.0	639.18		9	3		3			6						
54	53	TOWER	A-suspension	DS - Double Suspension	D/C	222.6	671.14	6					3	3							
55	54	TOWER	B - Low angle Tension	DT - Double Tension	D/C	148.4	447.43		9	3		3			6						SH Crossing
56	55	TOWER	A-suspension	SS - Single Suspension	D/C	233.2	703.10	3			3			3							
57	56	TOWER	B - Low angle Tension	ST - Single Tension	D/C	201.4	607.22		6	6					6						

58	57	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	106.0	319.59		6	6				6				400Kv soja - kansari Line Crossing	
59	58	H-FRAME	B - Low angle Tension	ST - Single Tension	S/C	74.2	223.71		6	6				6					
60	59	TOWER	B - Low angle Tension	ST - Single Tension	D/C	137.8	415.47		6	6				6					
61	66kv KANT SS Gentry	Gentry	B - Low angle Tension	ST - Single Tension	S/C	53.0	159.80		3	3				3		3	6		
					Total =	9296.2	#####	123	168	144	87	12	18	102	156	9	9	12	24
						Span (Mtr)	Conduct or	66KV Susp. SRI	66KV Tension SRI	Single Tension H/W	Single Suspen sion H/W	Doubl e Tensi on H/W	Doubl e Suspen sion H/W	PA Rod	Vibrat ion Damp er	Mid Span Joints r	Repa ir Sleev e		
						Additional Quantities		4	0	0	4	0	0	0	0	0	0	0	
						Final Quantities		127	168	144	91	12	18	102	156	9	9	12	24

Summary		
Line name	66KV (132kV) Deesa - Kant Line	
Line length RKM	9.2962	0.165 km Existing cable (3+1) 630sqmm
Type Structure	S/C/D/C /H-	S/C & D/C
Type Structure	S/C/D/C /H-	Tower & H Frame
No of Single Suspension lo	33	
No of Double Suspension l	0	Existing cable (3+1) 630sqmm
No of Single Tension locati	24	
No of Double Tension loca	4	
Hotline CKT km	1.8762	
Coldline CKT km	7.4200	
total required conductor in kr	28.028	

66kV Tharad- Dudhwa Line

							Material Required For HTLS Conductor Stringing												T connec tor with pad	HTLS palm w/o hole	Remarks
SR No	Location No	H-Frame / Tower	Type of Tower / H- Frame	Ten / Susp / Double Ten /	Line Config uration S/C / D/C	Span (Mtr)	Conductor	66KV Susp. SRI	66KV Tensio n SRI	Single Tension H/W	Single Suspension H/W	Double Tensio n H/W	Doubl e Suspe nasion H/W	PA Rod	Vibrat ion Damp er	Mid Span Jointsr	Repair Sleeve				
							Mtr	No	No	Set	Set	Set	Set	Set	No	No	No	No	No		
1	220kv Tharad SS Gentry	Gantry		S/T				0	3	3					3			3	6		
1	1	H-Frame	B	D/T	S/C	60	180.9	0	12	0	0	6	0	0	6						
2	2	H-Frame	B	D/T	S/C	129.14	389.3571	0	9	3	0	3	0	0	6						
3	3	H-Frame	A	S/S	S/C	161.66	487.4049	3	0	0	3	0	0	3	6					3-4 LT line cross	
4	4	H-Frame	A	S/S	S/C	181.8	548.127	3	0	0	3	0	0	3	6					4-5 11kv line cross	
5	5	H-Frame	B	S/T	S/C	125.1	377.1765	3	0	0	3	0	0	3	6					5-6 11kv Line crossing	
6	6	H-Frame	B	S/T	S/C	44.07	132.87105	3	0	0	3	0	0	3	6						
7	7	H-Frame	A	S/S	S/C	102.5	309.0375	3	0	0	3	0	0	3	6						
8	8	H-Frame	B	S/T	S/C	174.67	526.63005	0	6	6	0	0	0	0	6						
9	9	H-Frame	A	D/S	S/C	192.9	581.5935	6	0	0	0	0	3	3	6					9-10 Mitha Road Cross	
10	10	H-Frame	B	D/T	S/C	187.71	565.94565	0	9	3	0	3	0	0	6						
11	11	H-Frame	B	S/T	S/C	117.4	353.961	0	3	3	0	0	0	0	6						
12	12	H-Frame	A	D/S	S/C	164.6	496.269	6	0	0	0	0	3	3	6					12-13 Deesa highway road Cross	
13	13	H-Frame	A	D/S	S/C	118.6	357.579	6	0	0	0	0	3	3	6					13-14 near by house construction	
14	14	H-Frame	A	S/S	S/C	167.2	504.108	3	0	0	3	0	0	3	6					15-16 Malupur Road cross	
15	15	H-Frame	A	D/S	S/C	175.8	530.037	6	0	0	0	0	3	3	6						
16	16	H-Frame	A	D/S	S/C	165.9	500.1885	6	0	0	0	0	3	3	6						
17	17	H-Frame	A	S/S	S/C	162.3	489.3345	3	0	0	3	0	0	3	6						
18	18	H-Frame	B	S/T	S/C	172.22	519.2433	0	6	6	0	0	0	0	6						
19	19	Tower(UG cable)	B	D/T	S/C	0	0	0	9	3	0	3	0	0	3			3	6	25-26 Bharatmala road cross	
20	25	Tower(UG cable)	B	D/T	S/C	208.08	627.3612	0	9	3	0	3	0	0	3			3	6		
21	26	H-Frame	B	D/T	S/C	181.92	548.4888	0	9	3	0	3	0	0	6					26-27 11kv line cross	
22	27	H-Frame	A	S/S	S/C	176.31	531.57465	3	0	0	3	0	0	3	6						
23	28	H-Frame	A	S/S	S/C	132.45	399.33675	3	0	0	3	0	0	3	6						
24	29	H-Frame	A	S/S	S/C	180.78	545.0517	3	0	0	3	0	0	3	6						
25	30	H-Frame	B	S/T	S/C	116.83	352.24245	0	6	6	0	0	0	0	6					30-31 11kv linr cross	
26	31	H-Frame	B	S/T	S/C	196.02	591.0003	0	6	6	0	0	0	0	6						
27	32	H-Frame	B	S/T	S/C	231.39	697.64085	0	6	6	0	0	0	0	6					32-33 11kv line cross	
28	33	H-Frame	B	S/T	S/C	163.64	493.3746	0	6	6	0	0	0	0	6						
29	34	H-Frame	A	S/S	S/C	179.84	542.2176	3	0	0	3	0	0	3	6						
30	35	H-Frame	B	S/T	S/C	173.4	522.801	0	6	6	0	0	0	0	6					35-36 11kv line cross	
31	36	H-Frame	B	S/T	S/C	138.79	418.45185	0	6	6	0	0	0	0	6						
32	37	H-Frame	A	S/S	S/C	126.4	381.096	3	0	0	3	0	0	3	6						
33	38	H-Frame	B	D/T	S/C	136.2	410.643	0	9	3	0	3	0	0	6					38-39 vidhya sankul road cross	
34	39	Tower(UG cable)	B	D/T	S/C	0	0	0	6	0	0	3	0	0	3			3	6	39-40 bharatmala road cross	
35	41	Tower(UG cable)	B	D/T	S/C	161.7	487.5255	0	6	0	0	3	0	0	3			3	6		
36	42	H-Frame	B	D/T	S/C	162.2	489.033	0	9	3	0	3	0	0	6						
37	43	H-Frame	A	S/S	S/C	190.23	573.54345	3	0	0	3	0	0	3	6						
38	44	H-Frame	A	S/S	S/C	148.7	448.3305	3	0	0	3	0	0	3	6						
39	45	H-Frame	A	S/S	S/C	143.3	432.0495	3	0	0	3	0	0	3	6						
40	46	H-Frame	A	S/S	S/C	180.3	543.6045	3	0	0	3	0	0	3	6						
41	47	H-Frame	B	S/T	S/C	156.4	471.546	0	6	6	0	0	0	0	6					47-48 11kv Line cross	
42	48	H-Frame	A	S/S	S/C	182.5	550.2375	3	0	0	3	0	0	3	6					48-49 Kachu naliyu near school	
43	49	H-Frame	A	S/S	S/C	150.7	454.3605	3	0	0	3	0	0	3	6						
44	50	H-Frame	A	S/S	S/C	130.4	393.156	3	0	0	3	0	0	3	6						
45	51	H-Frame	A	S/S	S/C	150.7	454.3605	3	0	0	3	0	0	3	6					51-52 11kv Line cross	
46	52	H-Frame	A	S/S	S/C	171.8	517.977	3	0	0	3	0	0	3	6						
47	53	H-Frame	A	S/S	S/C	179.9	542.3985	3	0	0	3	0	0	3	6						
48	54	H-Frame	A	S/S	S/C	206.5	622.5975	3	0	0	3	0	0	3	6					54-55 Kachu naliyu	
49	55	H-Frame	A	S/S	S/C	188.1	567.1215	3	0	0	3	0	0	3	6						
50	56	H-Frame	B	S/T	S/C	166.5	501.9975	0	6	6	0	0	0	0	6					56-57 11kv Line cross	
51	57	H-Frame	A	S/S	S/C	159.8	481.797	3	0	0	3	0	0	3	6						
52	58	H-Frame	A	S/S	S/C	162.3	489.3345	3	0	0	3	0	0	3	6						
53	59	H-Frame	A	S/S	S/C	157.1	473.6565	3	0	0	3	0	0	3	6						
54	60	H-Frame	A	S/S	S/C	212.1	639.4815	3	0	0	3	0	0	3	6						
55	61	H-Frame	A	D/S	S/C	185.7	559.8855	6	0	0	0	0	3	3	6					61-62 Jandi Road cross 11kv Line cross	
56	62	H-Frame	A	D/S	S/C	228.4	688.626	6	0	0	0	0	3	3	6						
57	63	H-Frame	A	S/S	S/C	137.1	413.3565	3	0	0	3	0	0	3	6						
58	64	H-Frame	B	S/T	S/C	156.9	473.0535	0	6	6	0	0	0	0	6						
59	65	H-Frame	B	S/T	S/C	160.6	484.209	0	6	6	0	0	0	0	6						
60	66	H-Frame	B	S/T	S/C	206.5	622.5975	0	6	6	0	0	0	0	6						
61	67	H-Frame	B	S/T	S/C	254.2	766.413	0	6	6	0	0	0	0	6						
62	68	H-Frame	A	S/S	S/C	198.1	549.452735	3	0	0	3	0	0	3	6						
63	69	H-Frame	A	S/S	S/C	209.2	542.419002	3	0	0	3	0	0	3	6					69-70 11kv Line cross	
64	70	H-Frame	A	S/S	S/C	175.8	613.925811	3	0	0	3	0	0	3	6					70-71 11kv Line cross	
65	71	H-Frame	A	S/S	S/C	147.5	563.044355	3	0	0	3	0	0	3	6						
66	72	H-Frame	A	S/S	S/C	188.4	563.042446	3	0	0	3	0	0	3	6					72-73 LT line cross	

67	73	H-Frame	A	S/S	S/C	135.9	543.500419	3	0	0	3	0	0	3	6					
68	74	H-Frame	B	S/T	S/C	217.8	525.625669	0	6	6	0	0	0	0	6					74-75 11kv Line cross
69	75	H-Frame	A	D/S	S/C	147.5	538.946747	6	0	0	0	0	3	3	6					75-76 Kachu naliyu
70	76	H-Frame	A	D/S	S/C	212.9	588.904766	6	0	0	0	0	3	3	6					
71	77	H-Frame	A	S/S	S/C	151.1	537.407704	3	0	0	3	0	0	3	6					77-78 11kv line cross
72	78	H-Frame	A	S/S	S/C	160.3	561.434107	3	0	0	3	0	0	3	6					78-79 Mehul farm road cross
73	79	H-Frame	A	S/S	S/C	214.3	511.913274	3	0	0	3	0	0	3	6					
74	80	H-Frame	A	S/S	S/C	213.7	591.7495	3	0	0	3	0	0	3	6					
75	81	H-Frame	A	S/S	S/C	195.1	516.458221	3	0	0	3	0	0	3	6					
76	82	H-Frame	B	S/T	S/C	158.7	548.053262	0	6	6	0	0	0	0	6					
77	83	H-Frame	A	D/S	S/C	187.4	501.479417	6	0	0	0	0	3	3	6					83-84 Kumbhara road cross
78	84	H-Frame	B	D/T	S/C	207.5	556.716741	0	9	3	0	3	0	0	6					
79	85	H-Frame	A	S/S	S/C	205	520.142834	3	0	0	3	0	0	3	6					
80	86	H-Frame	B	S/T	S/C	77.5	487.849688	0	6	6	0	0	0	0	6					
81	87	H-Frame	B	S/T	S/C	36.7	498.024987	0	6	6	0	0	0	0	6					
82	88	H-Frame	B	S/T	S/C	28.02	456.606491	0	6	0	0	3	0	0	6					
102	Dudhwa SS Gantry	Gantry		S/T		22	181.638657	0	3	3	0	0	0	0	3			3	6	
Total =						13126.67	40551.6306	183	219	141	123	39	30	153	486	9	9	18	36	
							Span (Mtr)	Conductor	66KV Susp. SRI	66KV Tension SRI	Single Tension H/W	Single Suspension H/W	Double Tension H/W	Double Suspension H/W	PA Rod r	Vibration Damper	Mid Span Jointsr	Repair Sleeve	T connector with pad	HTLS palm w/o hole
Additional Quantities						7	0	0	7	0	0	0	0	0	0	0	0	0	0	0
Final Quantities						190	219	141	130	39	30	153	486	9	9	18	36			

Summary	
Line name	66kV Tharad-Dudhava line
Line length CKM	13.127
Conductor to be used	39.577
Type Structure	S/C H frame+Tower
No of Single	39
No of Double	10
No of Single Tension	24
No of Double Tension	11
Hotline CKT kM	0.000
Coldline CKT kM	13.127

66KV Tharad-Tadav Line																				
Material Required For HTLS Conductor Stringing																				
SR No	Loca tion No	H- Frame / Tower	Type of Towe r / H- Fram e	Ten / Ten / Susp / Double Ten / Double Susp	Line Config uration S/C / D/C	Span (Mtr)	Conductor	66KV Susp. SRI	66KV Tension SRI	Single Tension H/W	Single Suspension H/W	Double Tension H/W	Double Suspension H/W	PA Rod	Vibration Damper	Mid Span Joint	Repair Sleeve	T connec tor with pad	HTLS palm w/o hole	Remarks
1	ST000	Gantry		cabl		0	Mtr	No	No	Set	Set	Set	Set		No	No	No	No		
1	T001	TOWER	B	S/T	S/C	50.532672	151.598016	0	3	3	0	0	0	0	3			3	6	
3	T002	H-Frame	B	D/T	S/C	157.112248	471.336744	0	12	0	0	6	0	0	6					3-4 Shiv Shakti Society road cross
4	T003	H-Frame	B	D/T	S/C	85.369706	256.109118	0	12	0	0	6	0	0	6					4-5 LT crossing
5	T004	H-Frame	B	S/T	S/C	110.099937	330.299811	0	6	6	0	0	0	0	6					5-6 LT crossing
6	T005	H-Frame	B	D/T	S/C	77.012275	231.036825	0	12	0	0	6	0	0	6					6-7 Tharad wav road cross, 11kV Crossing
7	T006	H-Frame	B	D/T	S/C	139.666105	418.998315	0	12	0	0	6	0	0	6					
8	T007	H-Frame	A	S/S	S/C	171.754662	515.263986	3	0	0	3	0	0	3	6					
8	T008	H-Frame	A	S/S	S/C	167.212415	501.637245	3	0	0	3	0	0	3	6					9-10 11kV Crossing
10	T009	H-Frame	A	S/S	S/C	121.130938	363.392814	3	0	0	3	0	0	3	6					10-11 LT crossing
11	T010	H-Frame	A	S/S	S/C	161.736637	485.209911	3	0	0	3	0	0	3	6					11-12 LT crossing
12	T011	H-Frame	B	S/T	S/C	195.611865	586.835595	0	6	6	0	0	0	0	6					12-13 11kV Crossing
13	T012	H-Frame	B	S/T	S/C	171.240534	513.721602	0	6	6	0	0	0	0	6					
14	T013	TOWER	B	D/T	S/C	216.494183	649.482549	0	12	0	0	6	0	0	6					14-15 Main canal cross
15	T014	TOWER	B	D/T	S/C	140.326037	420.978111	0	12	0	0	6	0	0	6					15-16 11kV Crossing
16	T015	H-Frame	B	S/T	S/C	151.772073	455.316219	0	9	3	0	3	0	0	6					
17	T016	H-Frame	B	S/T	S/C	179.168242	537.504726	0	6	6	0	0	0	0	6					
18	T017	H-Frame	B	S/T	S/C	153.859948	461.579844	0	6	6	0	0	0	0	6					
19	T018	H-Frame	B	S/T	S/C	172.461085	517.383255	0	6	6	0	0	0	0	6					
20	T019	H-Frame	A	S/S	S/C	153.916977	461.750931	3	0	0	3	0	0	3	6					
21	T020	H-Frame	A	S/S	S/C	165.561437	496.684311	3	0	0	3	0	0	3	6					21-22 11kV Crossing
22	T021	H-Frame	A	S/S	S/C	144.319216	432.957648	3	0	0	3	0	0	3	6					22-23 11kV Crossing
23	T022	H-Frame	B	S/T	S/C	137.07947	411.23841	0	6	6	0	0	0	0	6					
24	T023	H-Frame	A	S/S	S/C	152.245869	456.737607	3	0	0	3	0	0	3	6					24-25 66kV Tharad Mahajanpura line crossing
25	T024	H-Frame	A	S/S	S/C	153.637416	460.912248	3	0	0	3	0	0	3	6					
26	T025	H-Frame	A	S/S	S/C	147.179778	441.539334	3	0	0	3	0	0	3	6					
27	T026	H-Frame	A	S/S	S/C	142.366764	427.100292	3	0	0	3	0	0	3	6					
28	T027	H-Frame	A	S/S	S/C	163.473588	490.420764	3	0	0	3	0	0	3	6					
29	T028	H-Frame	A	S/S	S/C	135.585679	406.757037	3	0	0	3	0	0	3	6					
30	T029	H-Frame	A	S/S	S/C	147.364073	442.092219	3	0	0	3	0	0	3	6					
31	T030	H-Frame	A	S/S	S/C	175.146837	525.440511	3	0	0	3	0	0	3	6					
32	T031	H-Frame	A	S/S	S/C	143.634857	430.904571	3	0	0	3	0	0	3	6					
33	T032	H-Frame	B	S/T	S/C	121.262439	363.787317	0	6	6	0	0	0	0	6					
34	T033	H-Frame	A	S/S	S/C	234.526656	703.579968	3	0	0	3	0	0	3	6					
35	T034	H-Frame	A	S/S	S/C	155.921546	467.764638	3	0	0	3	0	0	3	6					
36	T035	H-Frame	A	S/S	S/C	215.804264	647.412792	3	0	0	3	0	0	3	6					
37	T036	H-Frame	A	S/S	S/C	181.068513	543.205539	3	0	0	3	0	0	3	6					37-38 11kV Cross
38	T037	H-Frame	A	S/S	S/C	169.551938	508.655814	3	0	0	3	0	0	3	6					
39	T038	H-Frame	A	S/S	S/C	183.336103	550.008309	3	0	0	3	0	0	3	6					
40	T039	H-Frame	B	S/T	S/C	107.217013	321.651039	0	6	6	0	0	0	0	6					40-41 LT cross
41	T040	H-Frame	A	S/S	S/C	171.290392	513.871176	3	0	0	3	0	0	3	6					41-42 11kV & LT cross
42	T041	H-Frame	A	S/S	S/C	212.162987	636.488961	3	0	0	3	0	0	3	6					
43	T042	H-Frame	A	D/S	S/C	73.555411	220.666233	6	0	0	0	0	3	3	6					43-44 11kV & LT cross
44	T043	H-Frame	A	D/S	S/C	352.030189	1056.090567	6	0	0	0	0	3	3	6					
45	T044	H-Frame	A	S/S	S/C	183.570734	550.712202	3	0	0	3	0	0	3	6					
46	T045	H-Frame	A	S/S	S/C	179.208907	537.626721	3	0	0	3	0	0	3	6					46-47 11kV & LT cross
47	T046	H-Frame	A	S/S	S/C	172.269997	516.809991	3	0	0	3	0	0	3	6					47-48 11kV cross
48	T047	H-Frame	A	S/S	S/C	197.864821	593.594463	3	0	0	3	0	0	3	6					48-49 11kV cross
49	T048	H-Frame	A	S/S	S/C	180.918317	542.754951	3	0	0	3	0	0	3	6					
50	T049	H-Frame	B	S/T	S/C	204.510319	613.530957	0	6	6	0	0	0	0	6					
51	T050	H-Frame	A	S/S	S/C	163.99926	491.99778	3	0	0	3	0	0	3	6					
52	T051	H-Frame	A	S/S	S/C	203.972114	611.916342	3	0	0	3	0	0	3	6					52-53 11kV cross
53	T052	H-Frame	A	S/S	S/C	191.326472	573.979416	3	0	0	3	0	0	3	6					
54	T053	H-Frame	A	S/S	S/C	175.604282	526.812846	3	0	0	3	0	0	3	6					
55	T054	H-Frame	A	D/S	S/C	188.692341	566.077023	6	0	0	0	0	3	3	6					55-56 11kV cross
56	T055	H-Frame	A	D/S	S/C	160.287247	480.861741	6	0	0	0	0	3	3	6					
57	T056	H-Frame	A	S/S	S/C	178.802088	536.406264	3	0	0	3	0	0	3	6					57-58 11kV cross
58	T057	H-Frame	A	S/S	S/C	188.10977	564.32931	3	0	0	3	0	0	3	6					
59	T058	H-Frame	A	S/S	S/C	162.761622	488.284866	3	0	0	3	0	0	3	6					
60	T059	H-Frame	B	S/T	S/C	159.972953	479.918859	0	6	6	0	0	0	0	6					
61	T060	H-Frame	A	S/S	S/C	161.008121	483.024363	3	0	0	3	0	0	3	6					
62	T061	H-Frame	A	S/S	S/C	175.699748	527.099244	3	0	0	3	0	0	3	6					62-63 11kV cross
63	T062	H-Frame	A	S/S	S/C	149.299755	447.899265	3	0	0	3	0	0	3	6					
64	T063	H-Frame	A	S/S	S/C	175.713626	527.140878	3	0	0	3	0	0	3	6					
65	T064	H-Frame	A	S/S	S/C	229.877872	689.633616	3	0	0	3	0	0	3	6					
66	T065	H-Frame	A	S/S	D/C	229.877872	689.633616	3	0	0	3	0	0	3	6					
6	T066	H-Frame	A	S/S	S/C	180.295568	540.886704	3	0	0	3	0	0	3	6					
7	T067	H-Frame	A	S/S	S/C	189.618402	568.855206	3	0	0	3	0	0	3	6					
8	T068	H-Frame	A	S/S	S/C	175.7101	527.1303	3	0	0										

21	T081	H-Frane	A	S/S	S/C	177.7937	533.3811	3	0	0	3	0	0	3	6						
22	T082	H-Frane	A	S/S	S/C	174.53743	523.61229	3	0	0	3	0	0	0	3	6					
23	T083	H-Frane	A	S/S	S/C	203.869323	611.607969	3	0	0	3	0	0	3	6					84-85 11kV cross	
24	T084	H-Frane	A	S/S	S/C	172.432186	517.296558	3	0	0	3	0	0	0	3	6					
25	T085	H-Frane	A	S/S	S/C	179.316539	537.949617	3	0	0	3	0	0	0	3	6					
26	T086	H-Frane	B	D/T	S/C	177.932567	533.797701	0	9	3	0	3	0	0	6					87B-88B Dhima SS LILO	
27	T087	H-Frane	B	D/T	S/C	175.190945	525.572835	0	9	3	0	3	0	0	6						
28	T088	H-Frane	A	D/S	S/C	251.684038	755.052114	6	0	0	0	0	0	3	3	6					
29	T089	H-Frane	A	S/S	S/C	106.099702	318.299106	3	0	0	3	0	0	0	3	6					
30	T090	H-Frane	B	D/T	S/C	173.199358	519.598074	0	9	3	0	3	0	0	6					91-92 Dhima Sapreda road cross	
31	T091	H-Frane	A	D/S	S/C	113.989488	341.968464	6	0	0	0	0	0	3	3	6					
32	T092	H-Frane	A	D/S	S/C	142.895304	428.685912	6	0	0	0	0	0	3	3	6					
33	T093	H-Frane	A	S/S	S/C	180.192248	540.576744	3	0	0	3	0	0	0	3	6					
34	T094	H-Frane	A	S/S	S/C	144.018804	432.056412	3	0	0	3	0	0	0	3	6					
35	T095	H-Frane	A	S/S	S/C	166.320552	498.961656	3	0	0	3	0	0	0	3	6					
36	T096	H-Frane	A	S/S	S/C	183.202449	549.607347	3	0	0	3	0	0	0	3	6					
37	T097	H-Frane	A	S/S	S/C	151.524765	454.574295	3	0	0	3	0	0	0	3	6					
38	T098	H-Frane	A	S/S	S/C	132.187917	396.563751	3	0	0	3	0	0	0	3	6					
39	T099	H-Frane	A	S/S	S/C	49.449323	148.347969	3	0	0	3	0	0	0	3	6					
40	T100	H-Frane	A	S/S	S/C	196.348364	589.045092	3	0	0	3	0	0	0	3	6					
41	T101	H-Frane	A	S/S	S/C	163.187118	489.561354	3	0	0	3	0	0	0	3	6					
42	T102	H-Frane	B	S/T	S/C	153.80383	461.41149	0	6	6	0	0	0	0	6					102-103 11kV cross	
43	T103	H-Frane	A	S/S	S/C	201.488444	604.465332	3	0	0	3	0	0	0	3	6					
44	T104	H-Frane	A	S/S	S/C	164.503003	493.509009	3	0	0	3	0	0	0	3	6					
45	T105	H-Frane	A	S/S	S/C	177.743123	533.229369	3	0	0	3	0	0	0	3	6					
46	T106	H-Frane	A	S/S	S/C	175.289958	525.869874	3	0	0	3	0	0	0	3	6					106-107 11kV cross
47	T107	H-Frane	A	S/S	S/C	181.827247	545.481741	3	0	0	3	0	0	0	3	6					
48	T108	H-Frane	A	S/S	S/C	172.383741	517.151223	3	0	0	3	0	0	0	3	6					
49	T109	H-Frane	A	S/S	S/C	200.644045	601.932135	3	0	0	3	0	0	0	3	6					
50	T110	H-Frane	A	S/S	S/C	182.913759	548.741277	3	0	0	3	0	0	0	3	6					
51	T111	H-Frane	A	S/S	S/C	191.437664	574.312992	3	0	0	3	0	0	0	3	6					111-112 11kV cross
52	T112	H-Frane	B	S/T	S/C	195.968347	587.905041	0	6	6	0	0	0	0	6						
53	T113	H-Frane	A	S/S	S/C	196.623667	589.871001	3	0	0	3	0	0	0	3	6					
54	T114	H-Frane	A	S/S	S/C	182.176903	546.530709	3	0	0	3	0	0	0	3	6					114-115 11kV cross
55	T115	H-Frane	A	D/S	S/C	149.242647	447.727941	6	0	0	0	0	0	3	3	6					115-116 Sapreda road cross
56	T116	H-Frane	A	D/S	S/C	193.924315	581.772945	6	0	0	0	0	0	3	3	6					
57	T117	H-Frane	A	S/S	S/C	174.205532	522.616596	3	0	0	3	0	0	0	3	6					
58	T118	H-Frane	A	S/S	S/C	164.695656	494.086968	3	0	0	3	0	0	0	3	6					
59	T119	H-Frane	A	S/S	S/C	171.675906	515.027718	3	0	0	3	0	0	0	3	6					119-120 LT cross
60	T120	H-Frane	A	S/S	S/C	165.407679	496.223037	3	0	0	3	0	0	0	3	6					
61	T121	H-Frane	A	S/S	S/C	182.172682	546.518046	3	0	0	3	0	0	0	3	6					
62	T122	H-Frane	B	S/T	S/C	140.60904	421.82712	0	6	6	0	0	0	0	6						
63	T123	H-Frane	A	S/S	S/C	164.289722	492.869166	3	0	0	3	0	0	0	3	6					
64	T124	H-Frane	A	S/S	S/C	111.691545	335.074635	3	0	0	3	0	0	0	3	6					
65	T125	H-Frane	A	S/S	S/C	188.534358	565.603074	3	0	0	3	0	0	0	3	6					
66	T126	H-Frane	A	S/S	D/C	141.127528	423.382584	3	0	0	3	0	0	0	3	6					
67	T127	H-Frane	A	S/S	S/C	133.059414		3	0	0	3	0	0	0	3	6					
15	T128	H-Frane	A	S/S	S/C	181.183994	543.551982	3	0	0	3	0	0	0	3	6					128-129 11kV cross
16	T129	H-Frane	A	S/S	S/C	198.22547	594.67641	3	0	0	3	0	0	0	3	6					
17	T130	H-Frane	A	S/S	S/C	123.352958	370.058874	3	0	0	3	0	0	0	3	6					
18	T131	H-Frane	B	S/T	S/C	145.446414	436.339242	0	6	6	0	0	0	0	6						
19	T132	H-Frane	A	S/S	S/C	159.769534	479.308602	3	0	0	3	0	0	0	3	6					
20	T133	H-Frane	A	S/S	S/C	140.572759	421.718277	3	0	0	3	0	0	0	3	6					
21	T134	H-Frane	A	S/S	S/C	184.374901	553.124703	3	0	0	3	0	0	0	3	6					
22	T135	H-Frane	A	S/S	S/C	160.553732	481.661196	3	0	0	3	0	0	0	3	6					135-136 11kV cross
23	T136	H-Frane	A	S/S	S/C	198.940902	596.822706	3	0	0	3	0	0	0	3	6					
24	T137	H-Frane		D/S	S/C	178.254938	534.764814	6	0	0	0	0	0	3	3	6					137-138 Tadav Sapreda road cross, 11kV, LT cross
25	T138	H-Frane	A	D/S	S/C	184.347186	553.041558	6	0	0	0	0	0	3	3	6					
26	T139	H-Frane	A	S/S	S/C	175.782325	527.346975	3	0	0	3	0	0	0	3	6					139-140 LT cross
27	T140	H-Frane	A	S/S	S/C	145.366666	436.099998	3	0	0	0	3	0	0	0	3	6				
28	T141	H-Frane	B	S/T	S/C	121.83611	365.50833	0	6	6	0	0	0	0	0	6					
29	T142	H-Frane	A	S/S	S/C	175.466328	526.398984	3	0	0	3	0	0	0	0	3	6				
30	T143	H-Frane	A	S/S	S/C	193.323271	579.969813	3	0	0	3	0	0	0	0	3	6				
31	T144	H-Frane	A	S/S	S/C	167.869177	503.607531	3	0	0	3	0	0	0	0	3	6				
32	T145	H-Frane	A	S/S	S/C	169.709394	509.128182	3	0	0	3	0	0	0	0	3	6				145-146 11kV cross
33	T146	H-Frane	A	S/S	S/C	160.584197	481.752591	3	0	0	3	0	0	0	0	3	6				
34	T147	H-Frane	A	S/S	S/C	99.670621	299.011863	3	0	0	3	0	0	0	0	3	6				
35	T148	H-Frane	A	S/S	S/C	225.595448	676.786344	3	0	0	3	0	0	0	0	3	6				
36	T149	H-Frane	B	S/T	S/C	145.898923	437.696769	0	6	6	0	0	0	0	0	6					
37	T150	H-Frane		D/S	S/C	147.162813	441.488439	6	0	0	0	0	0	3	3	6					150-151 Tadav Chothanesda cross, 11kV Cross
38	T151	H-Frane	A	D/S	S/C	93.734593	281.203779	6	0	0	0	0	0	3	3	6					
39	T152	H-Frane	B	S/T	S/C	179.65753	538.97259	0	6	6	0	0	0	0	0	6					
40	T153	H-Frane	B	S/T	S/C	24.392589	73.177767	0	6	6	0	0	0	0	0	6					
41	ST154 (Gantr y)	H-Frane	B	S/T	S/C	20	60	0	3	3	0	0	0	0	0	6			3	6	
Total =						25418.22903	75855.50885	402	249	147	318	51	42	360	921	9	9	9	18		
Span (Mtr)						Conductor	66kV Susp. SRI	66kV Tension SRI	Single Tension H/W	Single Suspension H/W	Double Tension H/W	Double Suspension H/W f	PA Rod r	Vibration Damper	Mid Span Joins r	Repair Sleeve	connec tor with pad	HTLS palm w/o hole			

Summary	
Line name	66kV Tharad- Tadav line
Line length CKM	25.418
Conductor to be	76.636
Type Structure	S/C H frame+Tower
No of Single	106
No of Double	14
No of Single	24
No of Double	10
Hotline CKT km	0.000
Coldline CKT km	25.418

66KV Dudhava Didarada line tower schedule																				
Material Required For HTLS Conductor Stringing																				
SR No	Location No	H-Frame / Tower	Type of Tower / H- Frame	Ten / Ten / Susp / Double Ten / Double Susp	Line Configurat ion S/C / D/C	Span (Mtr)	Conductor	66KV Susp. SRI	66KV Tension SRI	Single Tension H/W	Single Suspensi on H/W	Double Tension H/W	Double Suspensi on H/W	PA Rod	Vibration Damper	Mid Span Joists	Repair Sleeve	T connector with pad	HTLS palm w/o hole	Remark(crossin g)
		66KV DUDHVA SS	Gantry	B	S/T		Mtr	No	No	Set	Set	Set	Set	Set	No	No	No	No	No	
1								0	3	3	0	0	0	0	3			3	6	1-2 11kv Line cross
2	T001	H-Frane	A	S/S	S/C	40.879879	122.636637	3	0	0	3	0	0	3	6					
3	T002	H-Frane	B	S/T	S/C	70.334138	211.002594	0	6	6	0	0	0	0	6					
4	T003	H-Frane	B	S/T	S/C	182.682845	548.048535	0	6	6	0	0	0	0	6					
5	T004	H-Frane	B	S/T	S/C	159.077985	477.233955	0	6	6	0	0	0	0	6					
6	T005	H-Frane	A	S/S	S/C	174.593743	523.781229	3	0	0	3	0	0	3	6					
7	T006	H-Frane	A	S/S	S/C	176.89203	530.67609	3	0	0	3	0	0	3	6					
8	T007	H-Frane	A	D/S	S/C	172.91612	518.74836	6	0	0	0	0	3	3	6					7-8 river bridge
9	T008	H-Frane	A	D/S	S/C	160.032197	480.096591	6	0	0	0	0	3	3	6					
10	T009	H-Frane	A	S/S	S/C	202.051801	606.155403	3	0	0	3	0	0	3	6					
11	T010	H-Frane	A	S/S	S/C	206.377279	619.131837	3	0	0	3	0	0	3	6					10-11 kachu naliyu
12	T011	H-Frane	A	S/S	S/C	176.760312	530.280936	3	0	0	3	0	0	3	6					
13	T012	H-Frane	A	S/S	S/C	239.576499	718.729497	3	0	0	3	0	0	3	6					
14	T013	H-Frane	B	S/T	S/C	143.371989	430.115967	0	6	6	0	0	0	0	6					
15	T014	H-Frane	A	S/S	S/C	181.756651	545.269953	3	0	0	3	0	0	3	6					
16	T015	H-Frane	A	S/S	S/C	223.938029	671.814087	3	0	0	3	0	0	3	6					15-16 Kachu Naliyu
17	T016	H-Frane	A	S/S	S/C	201.393605	604.180815	3	0	0	3	0	0	3	6					
18	T017	H-Frane	A	S/S	S/C	235.967225	707.901675	3	0	0	3	0	0	3	6					17-18 Solar line cross
19	T018	H-Frane	A	S/S	S/C	196.378441	589.135323	3	0	0	3	0	0	3	6					
20	T019	H-Frane	A	S/S	S/C	132.060712	396.182136	3	0	0	3	0	0	3	6					
21	T020	H-Frane	B	S/T	S/C	370.535035	1111.605105	0	6	6	0	0	0	0	6					
22	T021	H-Frane	A	S/S	S/C	181.707969	545.123907	3	0	0	3	0	0	3	6					
23	T022	H-Frane	A	S/S	S/C	180.447346	541.342038	3	0	0	3	0	0	3	6					
24	T023	H-Frane	A	S/S	S/C	158.008987	474.026961	3	0	0	3	0	0	3	6					
25	T024	H-Frane	B	D/T	S/C	175.302417	525.907251	0	12	0	0	0	6	0	6					
26	T025	H-Frane	B	S/T	S/C	89.238852	267.710556	0	6	6	0	0	0	0	6					
27	T026	H-Frane	B	S/T	S/C	46.526427	139.579281	0	6	6	0	0	0	0	6					
28	T027	H-Frane	A	S/S	S/C	147.07336	441.22008	3	0	0	3	0	0	3	6					
29	T028	H-Frane	A	S/S	S/C	151.968122	455.904366	3	0	0	3	0	0	3	6					
30	T029	H-Frane	B	S/T	S/C	155.707634	467.122902	0	6	6	0	0	0	0	6					
31	T030	H-Frane	A	S/S	S/C	159.900847	479.702541	3	0	0	3	0	0	3	6					30-31 Tharad Piluda line cross
32	T031	H-Frane	A	S/S	S/C	167.397182	502.191546	3	0	0	3	0	0	3	6					
33	T032	H-Frane	B	S/T	S/C	168.616222	505.848666	0	6	6	0	0	0	0	6					
34	T033	H-Frane	A	S/S	S/C	159.635108	478.905324	3	0	0	3	0	0	3	6					
35	T034	H-Frane	A	S/S	S/C	39.097746	117.293238	3	0	0	3	0	0	3	6					
36	T035	H-Frane	A	S/S	S/C	284.470829	853.412487	3	0	0	3	0	0	3	6					
37	T036	H-Frane	A	S/S	S/C	139.354737	418.064211	3	0	0	3	0	0	3	6					
38	T037	H-Frane	A	S/S	S/C	171.448766	514.346298	3	0	0	3	0	0	3	6					
39	T038	H-Frane	B	S/T	S/C	142.988594	428.965782	0	6	6	0	0	0	0	6					38-39 11kv Line cross
40	T039	H-Frane	A	S/S	S/C	132.863846	398.591538	3	0	0	3	0	0	3	6					
41	T040	H-Frane	A	S/S	S/C	183.030125	549.090375	3	0	0	3	0	0	3	6					
42	T041	H-Frane	A	S/S	S/C	144.7052	434.1156	3	0	0	3	0	0	3	6					
43	T042	H-Frane	A	S/S	S/C	156.345659	469.036977	3	0	0	3	0	0	3	6					
44	T043	H-Frane	A	S/S	S/C	113.470562	340.411686	3	0	0	3	0	0	3	6					
45	T044	H-Frane	A	S/S	S/C	148.488166	445.464498	3	0	0	3	0	0	3	6					44-45 Kachu Naliyu
46	T045	H-Frane	B	S/T	S/C	145.923989	437.771967	0	6	6	0	0	0	0	6					
47	T046	H-Frane	A	S/S	S/C	98.191536	294.574608	3	0	0	3	0	0	3	6					
48	T047	H-Frane	A	S/S	S/C	182.026485	546.079455	3	0	0	3	0	0	3	6					
49	T048	H-Frane	B	S/T	S/C	136.55571	409.66713	0	6	6	0	0	0	0	6					
50	T049	H-Frane	A	S/S	S/C	141.096866	423.290598	3	0	0	3	0	0	3	6					
51	T050	H-Frane	A	S/S	S/C	205.004419	615.013257	3	0	0	3	0	0	3	6					
52	T051	H-Frane	A	S/S	S/C	154.103872	462.311616	3	0	0	3	0	0	3	6					51-52 11kv Line cross
53	T052	H-Frane	A	S/S	S/C	161.213232	483.639696	3	0	0	3	0	0	3	6					
54	T053	H-Frane	A	S/S	S/C	290.791833	872.375499	3	0	0	3	0	0	3	6					53-54 RCC road cross
55	T054	H-Frane	A	S/S	S/C	31.193658	93.580974	3	0	0	3	0	0	3	6					
56	T055	H-Frane	A	S/S	S/C	129.890681	389.672043	3	0	0	3	0	0	3	6					
57	T056	H-Frane	A	S/S	S/C	159.558274	478.674822	3	0	0	3	0	0	3	6					56-57 LT line cross
58	T057	H-Frane	A	S/S	S/C	180.999422	542.998266	3	0	0	3	0	0	3	6					
59	T058	H-Frane	B	S/T	S/C	172.139897	516.419691	0	6	6	0	0	0	0	6					
60	T059	H-Frane	A	S/S	S/C	143.642904	430.928712	3	0	0	3	0	0	3	6					59-60 11kv Line cross
61	T060	H-Frane	A	S/S	S/C	138.025528	414.076584	3	0	0	3	0	0	3	6					
62	T061	H-Frane	B	S/T	S/C	164.378953	493.138659	0	6	6	0	0	0	0	6					
63	T062	H-Frane	A	S/S	S/C	207.189663	621.568989	3	0	0	3	0	0	3	6					
64	T063	H-Frane	A	S/S	S/C	120.649008	361.947024	3	0	0	3	0	0	3	6					
65	T064	H-Frane	A	S/S	S/C	139.999466	419.998398	3	0	0	3	0	0	3	6					64-65 11kv Line cross
66	T065	H-Frane	A	S/S	S/C	176.139353	528.418059	3	0	0	3	0	0	3	6					65-66 Didarada Lodhinar Road cross
67	T066	H-Frane	A	S/S	S/C	155.97244	467.91732	3	0	0	3	0	0	3	6					
68	T067	H-Frane	B	D/T	S/C	139.320116	417.960348	0	12	0	0	6		0	6					67-68 Didarada village road cross
69	T068	H-Frane	B	D/T	S/C	148.610093	445.830279	0	12	0	0	6		0	6					
70	T069	H-Frane	A	S/S	S/C	167.364545	502.093635	3	0	0	3	0	0	3	6					
71	T070	H-Frane	B	S/T	S/C	161.476426	484.429278	0	6	6	0	0								

Summary	
Line name	66KV Dudhava Didarada line
Line length CKM	11.728
Conductor to be used	35.360
Type Structure S/C/D/C	S/C H frame
No of Single Suspension	52
No of Double Suspension	2
No of Single Tension	17
No of Double Tension	5
Hotline CKT kM	0.000
Coldline CKT kM	11.728

66KV Didarad-Piluda Line																				
SR No	Location No	H-Frame / Tower	Type of Tower / H-Frame	Ten / Ten / Susp / Double Ten / Double	Line Configuration S/C / D/C	Span (Mtr)	Material Required For HTLS Conductor Stringing													
							Conductor	66KV Susp. SRI	66KV Tension SRI	Single Tension H/W	Single Suspension H/W	Double Tension H/W	Double Suspension H/W	PA Rod	Vibration Damper	Mid Span Joints	Repair Sleeve	T connect or with pad	HTLS palm w/o hole	Remarks
							Mtr	No	No	Set	Set	Set	Set	Set	No	No	No	No	No	
1	66KV DIDARDA SS	Gantry	B	S/T				0	3	3	0	0	0	0	3			3	6	
1	T001	H-Frame	A	D/S	S/C	10.100863	30.302589	6	0	0	0	0	3	3	6					
2	T002	H-Frame	B	D/T	S/C	36.196312	108.588936	0	9	3	0	3	0	0	6					2-3 Bhordu Didarda road cross
3	T003	H-Frame	B	D/T	S/C	91.53678	274.61034	0	9	3	0	3	0	0	6					
4	T004	H-Frame	A	S/S	S/C	148.377953	445.133859	3	0	0	3	0	0	3	6					4-6 11kv Line cross
5	T005	H-Frame	B	S/T	S/C	129.244297	387.732891	0	6	6	0	0	0	0	6					
6	T006	H-Frame	A	D/S	S/C	149.73792	449.21376	6	0	0	0	0	3	3	6					
7	T007	H-Frame	A	D/S	S/C	35.526078	106.578234	6	0	0	0	0	3	3	6					7-8 Raod cross
8	T008	H-Frame	A	D/S	S/C	286.551297	859.653891	6	0	0	0	0	3	3	6					
8	T008	H-Frame	A	D/S	S/C	286.551297	859.653891	6	0	0	0	0	3	3	6					
10	T010	H-Frame	A	S/S	S/C	174.50839	523.52517	3	0	0	3	0	0	3	6					
11	T011	H-Frame	B	S/T	S/C	150.829762	452.489286	0	6	6	0	0	0	0	6					
12	T012	H-Frame	A	S/S	S/C	157.288394	471.865182	3	0	0	3	0	0	3	6					
13	T013	H-Frame	B	S/T	S/C	274.041979	822.125937	0	6	6	0	0	0	0	6					
14	T014	H-Frame	A	S/S	S/C	128.732674	386.198022	3	0	0	3	0	0	3	6					
15	T015	H-Frame	A	S/S	S/C	98.139974	294.419922	3	0	0	3	0	0	3	6					
16	T016	H-Frame	A	S/S	S/C	118.95999	356.87997	3	0	0	3	0	0	3	6					
17	T017	H-Frame	B	S/T	S/C	177.722163	533.166489	0	6	6	0	0	0	0	6					
18	T018	H-Frame	A	S/S	S/C	217.107077	651.321231	3	0	0	3	0	0	3	6					
19	T019	H-Frame	A	S/S	S/C	160.226694	480.680082	3	0	0	3	0	0	3	6					
20	T020	H-Frame	A	S/S	S/C	57.606461	172.819383	3	0	0	3	0	0	3	6					
21	T021	H-Frame	A	S/S	S/C	57.606461	172.819383	3	0	0	3	0	0	3	6					
22	T022	H-Frame	A	S/S	S/C	86.210175	258.630525	3	0	0	3	0	0	3	6					
23	T023	H-Frame	A	S/S	S/C	332.763058	998.289174	3	0	0	3	0	0	3	6					
24	T024	H-Frame	B	D/T	S/C	62.51466	187.54398	0	9	3	0	3	0	0	6					24-25 Lodhanor road cross
25	T025	H-Frame	A	D/S	S/C	211.500867	634.502601	6	0	0	0	0	3	3	6					
26	T026	H-Frame	A	S/S	S/C	158.434831	475.304493	3	0	0	3	0	0	3	6					
27	T027	H-Frame	A	S/S	S/C	169.831209	509.493627	3	0	0	3	0	0	3	6					
28	T028	H-Frame	A	S/S	S/C	125.202283	375.608849	3	0	0	3	0	0	3	6					
29	T029	H-Frame	A	S/S	S/C	143.283717	429.851151	3	0	0	3	0	0	3	6					
30	T030	H-Frame	B	S/T	S/C	192.578133	577.734399	0	6	6	0	0	0	0	6					
31	T031	H-Frame	A	S/S	S/C	249.202925	747.608775	3	0	0	3	0	0	3	6					31-32 Kachu naliyu
32	T032	H-Frame	A	S/S	S/C	85.996483	257.989449	3	0	0	3	0	0	3	6					
33	T033	H-Frame	A	S/S	S/C	119.36776	358.10328	3	0	0	3	0	0	3	6					33-34 11kv Line cross
34	T034	H-Frame	A	S/S	S/C	121.496646	364.489938	3	0	0	3	0	0	3	6					
35	T035	H-Frame	A	S/S	S/C	142.250829	426.752487	3	0	0	3	0	0	3	6					
36	T036	H-Frame	A	S/S	S/C	195.750119	587.250357	3	0	0	3	0	0	3	6					35-36 Kachu Naliyu
37	T037	H-Frame	A	S/S	S/C	145.210104	435.630312	3	0	0	3	0	0	3	6					
38	T038	H-Frame	A	S/S	S/C	167.068939	501.206817	3	0	0	3	0	0	3	6					38-39 11kv Line cross
39	T039	H-Frame	B	S/T	S/C	184.678983	554.036949	0	6	6	0	0	0	0	6					
40	T040	H-Frame	A	S/S	S/C	173.226199	519.678597	3	0	0	3	0	0	3	6					40-41 11kv Line cross
41	T041	H-Frame	A	S/S	S/C	167.684491	503.053473	3	0	0	3	0	0	3	6					
42	T042	H-Frame	A	S/S	S/C	149.849846	449.549538	3	0	0	3	0	0	3	6					41-42 11kv Line cross
43	T043	H-Frame	B	S/T	S/C	183.325825	549.977475	0	6	6	0	0	0	0	6					
44	T044	H-Frame	A	S/S	S/C	152.037125	456.111375	3	0	0	3	0	0	3	6					
45	T045	H-Frame	A	S/S	S/C	151.274185	453.822555	3	0	0	3	0	0	3	6					44-45 66kv Tharad Piluda line cross
46	T046	H-Frame	A	S/S	S/C	165.954364	497.863092	3	0	0	3	0	0	3	6					
47	T047	H-Frame	B	S/T	S/C	140.953195	422.859585	0	6	6	0	0	0	0	6					
48	T048	H-Frame	A	S/S	S/C	143.631867	430.895601	3	0	0	3	0	0	3	6					
49	T049	H-Frame	A	S/S	S/C	133.676798	401.030394	3	0	0	3	0	0	3	6					49-50 LT line cross
50	T050	H-Frame	B	S/T	S/C	106.760743	320.282229	0	6	6	0	0	0	0	6					
51	T051	H-Frame	B	D/T	S/C	62.688754	188.066262	0	9	3	0	3	0	0	6					51-52 Road cross
52	T052	H-Frame	A	D/S	S/C	183.888615	551.665845	6	0	0	0	0	3	3	6					
53	T053	H-Frame	A	S/S	S/C	238.920468	716.761404	3	0	0	3	0	0	3	6					53-54 Solar line cross
54	T054	H-Frame	A	S/S	S/C	180.000374	540.001122	3	0	0	3	0	0	3	6					
55	T055	H-Frame	A	S/S	S/C	247.043667	741.131001	3	0	0	3	0	0	3	6					
56	T056	H-Frame	B	S/T	S/C	234.788589	704.365767	0	6	6	0	0	0	0	6					55-56 11kv Line cross
57	T057	H-Frame	A	S/S	S/C	251.026005	753.078015	3	0	0	3	0	0	3	6					
58	T058	H-Frame	A	S/S	S/C	231.911881	695.735643	3	0	0	3	0	0	3	6					
59	T059	H-Frame	A	S/S	S/C	268.853789	806.561367	3	0	0	3	0	0	3	6					
60	T060	H-Frame	A	S/S	S/C	238.800133	716.400399	3	0	0	3	0	0	3	6					60-61 Kachu naliyu
61	T061	H-Frame	B	S/T	S/C	249.195159	747.585477	0	6	6	0	0	0	0	6					
62	T062	H-Frame	A	S/S	S/C	307.688535	923.065605	3	0	0	3	0	0	3	6					61-62 11kv Line cross
63	T063	H-Frame	A	S/S	S/C	184.792868	554.378604	6	0	0	0	0	3	3	6					62-63 Kachu Naliyu
64	T064	H-Frame	B	D/T	S/C	217.281938	651.845814	0	9	3	0	3	0	0	6					63-64 Dantiya Piluda road cross
65	T065	H-Frame	B	S/T	S/C	50.864049	152.592147	0	6	6	0	0	0	0	6					
66	T066	TOWER	B	S/T	D/C	16.896303	50.688909	0	6	6	0	0	0	0	6					64-65 Solar line cross
	66KV PILUDA	Gantry	B	S/T				0	3	3	0	0	0	0	3			3	6	
Total =						10672.95	32018.85091	168	129	99	120	15	24	144	402	9	9	6	12	
Span (Mtr)								66KV Susp. SRI	66KV Tension SRI	Single Tension H/W	Single Suspension H/W	Double Tension H/W	Double Suspension H/W f	PA Rod r	Vibration Damper	Mid Span Joints	Repair Sleeve			
Additional Quantities								5	0	0	5	0	0	0	0	0	0	0	0	
Final Quantities								173	129	99	125	15	24	144	402	9	9	6	12	

Summary	
Line name	66kv Didarada Piluda
Line length CKM	10.673
Conductor to be used	32.179
Type Structure S/C/D/C	S/C H frame
No of Single Suspension	41
No of Double	7
No of Single Tension	15
No of Double Tension	5
Hotline CKT kM	0.000
Coldline CKT kM	10.673

66KV Kesargam-Miyal Line																				
Material Required For HTLS Conductor Stringing																				
SR No	Location No	H-Frame / Tower	Type of Tower / H-Frame	Ten / Ten / Susp / Double Ten / Double Susp	Line Configuration S/C / D/C	Span (Mtr)	Conductor	66KV Susp. SRI	66KV Tension SRI	Single Tension HW	Single Suspension on HW	Double Tension HW	Double Suspension on HW	PA Rod	Vibration Damper	Mid Span Jointstr	Repair Sleeve	T connector with pad	HTLS palm w/o hole	Remarks
		Gantry					Mtr	No	No	Set	Set	Set	Set	Set	No	No	No	No	No	
1	66KV Kesargam SS	Gantry	B	S/T				0	6	6	0	0	0	0	3			3	6	
1	T001	H-Frane	A	D/S	S/C	10.100863	33	3	0	0	3	0	0	3	6			0	0	
2	T002	H-Frane	B	D/T	S/C	31	46	0	12	0	0	6	0	0	6					2-3 Keshargam Road cross
3	T003	H-Frane	B	D/T	S/C	91.53678	140	0	12	0	0	6	0	0	6					
4	T004	H-Frane	A	S/S	S/C	148.377953	159	3	0	0	3	0	0	3	6					
5	T005	H-Frane	A	S/S	S/C	129.244297	134	3	0	0	3	0	0	3	6					
6	T006	H-Frane	B	S/T	S/C	149.73792	159	0	6	6	0	0	0	0	6					6-7 LT line cross
7	T007	H-Frane	A	S/S	S/C	35.526078	146	3	0	0	3	0	0	3	6					
8	T008	H-Frane	A	S/S	S/C	286.551297	77	3	0	0	3	0	0	3	6					
8	T008	H-Frane	A	S/S	S/C	286.551297	82	3	0	0	3	0	0	3	6					
10	T010	H-Frane	A	S/S	S/C	174.50839	168	3	0	0	3	0	0	3	6					
11	T011	H-Frane	A	S/S	S/C	150.829762	144	3	0	0	3	0	0	3	6					
12	T012	H-Frane	A	S/S	S/C	157.288394	146	3	0	0	3	0	0	3	6					
13	T013	H-Frane	B	S/T	S/C	274.041979	61	0	6	6	0	0	0	0	6					
14	T014	H-Frane	B	S/T	S/C	128.732674	126	0	6	6	0	0	0	0	6					
15	T015	H-Frane	A	S/S	S/C	98.139974	171	3	0	0	3	0	0	3	6					
16	T016	H-Frane	B	S/T	S/C	118.95999	152	0	6	6	0	0	0	0	6					16-17 Kachu naliyu
17	T017	H-Frane	A	S/S	S/C	177.722163	160	3	0	0	3	0	0	3	6					
18	T018	H-Frane	A	S/S	S/C	217.107077	146	3	0	0	3	0	0	3	6					
19	T019	H-Frane	A	S/S	S/C	160.226694	196	6	0	0	0	0	3	3	6					19-20 Dipda Jadra road cross
20	T020	H-Frane	B	D/T	S/C	57.606461	169	0	12	0	0	6	0	0	6					
21	T021	H-Frane	A	D/S	S/C	57.606461	180	6	0	0	0	0	3	3	6					20-21 Mesara Road cross
22	T022	H-Frane	A	S/S	S/C	86.210175	120	3	0	0	3	0	0	3	6					
23	T023	H-Frane	A	S/S	S/C	332.763058	170	3	0	0	3	0	0	3	6					
24	T024	H-Frane	B	S/T	S/C	62.51466	140	0	6	6	0	0	0	0	6					
25	T025	H-Frane	A	S/S	S/C	211.500867	170	3	0	0	3	0	0	3	6					
26	T026	H-Frane	A	S/S	S/C	158.434831	140	3	0	0	3	0	0	3	6					
27	T027	H-Frane	A	S/S	S/C	169.831209	150	3	0	0	3	0	0	3	6					
28	T028	H-Frane	A	S/S	S/C	125.202283	140	3	0	0	3	0	0	3	6					
29	T029	H-Frane	B	S/T	S/C	143.283717	160	0	6	6	0	0	0	0	6					29-30 Kachu naliyu
30	T030	H-Frane	A	S/S	S/C	192.578133	172	3	0	0	3	0	0	3	6					
31	T031	H-Frane	A	S/S	S/C	249.202925	158	3	0	0	3	0	0	3	6					
32	T032	H-Frane	A	S/S	S/C	85.996483	120	3	0	0	3	0	0	3	6					
33	T033	H-Frane	A	S/S	S/C	119.36776	140	3	0	0	3	0	0	3	6					
34	T034	H-Frane	B	S/T	S/C	121.496646	160	0	6	6	0	0	0	0	6					
35	T035	H-Frane	A	S/S	S/C	142.250829	130	3	0	0	3	0	0	3	6					
36	T036	H-Frane	A	S/S	S/C	195.750119	150	3	0	0	3	0	0	3	6					
37	T037	H-Frane	B	S/T	S/C	145.210104	140	0	6	6	0	0	0	0	6					
38	T038	H-Frane	A	S/S	S/C	167.068939	150	3	0	0	3	0	0	3	6					
39	T039	H-Frane	B	S/T	S/C	184.678983	80	0	6	6	0	0	0	0	6					
40	T040	H-Frane	B	S/T	S/C	173.226199	230	0	6	6	0	0	0	0	6					
41	T041	H-Frane	B	S/T	S/C	167.684491	130	0	6	6	0	0	0	0	6					
42	T042	H-Frane	B	D/T	S/C	149.849846	90	0	9	3	0	3	0	0	6					42-43 Tharad Sanchor Road cross
43	T043	H-Frane	B	D/T	S/C	183.325825	110	0	9	3	0	3	0	0	6					
44	T044	H-Frane	B	S/T	S/C	152.037125	150	0	6	6	0	0	0	0	6					44-45 11kv Line cross
45	T045	H-Frane	B	S/T	S/C	151.274185	100	0	6	6	0	0	0	0	6					
46	T046	H-Frane	B	S/T	S/C	165.954364	110	0	6	6	0	0	0	0	6					
47	66KV Miyal	Gantry	B	S/T	S/C	140.953195	50	0	6	6	0	0	0	0	6					
							3	0	3	3	0	0	0	0	3			3	6	
						Total =	7119.043455	6358	87	156	108	75	24	6	81	291	6	6	6	12
						Span (Mtr)	Conductor	66KV Susp. SRI	66KV Tension SRI	Single Tension HW	Single Suspension on HW	Double Tension HW	Double Suspension on HW	PA Rod r	Vibration Damper	Mid Span Jointstr	Repair Sleeve	T connector with pad	HTLS palm w/o hole	
						Additional Quantities		4	0	0	4	0	0	0	0	0	0	0	0	
						Final Quantities		91	156	108	79	24	6	81	291	6	6	6	12	

Total line length in km 7.119
total required conductor in km 21.464

Summary	
Line name	66kv Keargam Miyal line
Line length CKM	7.119
Conductor to be used	21.464
Type Structure S/C/D/C	S/C H frame
No of Single Suspension	25
No of Double	2
No of Single Tension	16
No of Double Tension	5
Hotline CKT kM	0.000
Coldline CKT kM	7.119