

THRISSIVAPERUR LINE STRENGTHENING PACKAGE PHASE 1 - CONSTRUCTION OF 220kV DOUBLE CIRCUIT DC FROM WADAKKANCHERY TO KUNNAMKULAM USING 220/110kV MCMV TOWER IN THRISSUR DISTRICT

SL NO	LOC. No.	TYPE OF TOWER	EXTENTIO N	ANGLE OF DEVIATION	SPAN IN ( M )	SEC. LENG.	CUMLTV. LENGTH	R.L	C.P.D.	LEVEL DIFF.	SUM OF ADJ. SPAN	WEIGHT SPAN 110KV						WEIGHT SPAN 220KV						TYPE OF SOIL	MAJOR CROSSING DETAIL	REMARKS	VILLAGE NAME	GPS CO-ORDINATE	
												HOT			COLD			HOT			COLD							WGS-84	
												LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL					EASTING	NORTHING
1	EXT.34	MLD+9	9		29	29	29	147.33	0	-3.83	29		256.99	256.99		373.49	373.49		217.17	217.17		290.93	290.93	DRY	Rubber Plantation		Karumathra	76°15'47.66"	10°39'14.17"
2	PROP. AP-1	KLD+0	0	03°38'45"LT				127	127		156	152.5	0	-9.05	156	-227.99	194.34	-33.65	-344.49	257.20	-87.29	-188.17	172.85	-15.32				-261.93	212.65
3	PROP. AP-2	KLC+0	0	17°07'37"RT	99	99	255	143.45	0	-0.72	226	-67.34	62.85	-4.48	-130.20	69.27	-60.93	-45.85	60.66	14.81	-85.65	64.72	-20.93	DRY	Fencing, 2 Nos 11KV		Karumathra	76°15'42.84"	10°39'16.17"
4	PROP. AP-3	KLD+9	9	52°57'43"RT				254	254	509	133.73	0	-20.94	353	36.15	278.37	314.51	29.73	351.09	380.83	38.34	253.51	291.85	34.28	299.56	333.83	DRY	2 Nos LT Line, 110KV, Un Metal Road, Boundary wall, Metal Road	
5	WAK-1	MLD+12	12	03°44'34"LT	77	77	586	109.79			0	-5.55	331	-24.37	170.84	146.47	-97.09	234.42	137.33	0.49	149.11	149.60	-45.56	189.37	143.81	DRY			Engakad
6	WAK-2	KLD+9	9	57°39'21"LT	224	224	810	107.24	0	-13.28	301	-93.84	220.85	127.01	-157.42	273.15	115.73	-72.11	202.98	130.87	-112.37	236.09	123.72	DRY	Metal Road, 2 Nos LT Line, Foot Path	Used KLB Tower Instead of KLA due to Wt. Span Limit Corossed.	Engakad	76°15'41.01"	10°39'29.17"
7	WAK-3	GLB+0	0	00°00'22"RT	206	206	1016	102.96	0	1.57	430	3.15	89.01	92.15	-49.15	82.28	33.13	21.02	91.30	112.33	-12.09	87.05	74.96	WET	11 KV, Metal Road, LT Line			Engakad	76°15'34.78"
8	WAK-4	GLA+3	3	00°04'20"LT	151	151	1167	101.53	0	-3.98	357	116.99	123.89	240.89	123.72	147.15	270.86	114.70	115.95	230.64	118.95	130.67	249.62	WET		Used KLB Tower Instead of KLA due to Wt. Span Limit Corossed.	Engakad	76°15'29.08"	10°39'36.53"
9	WAK-5	GLB+0	0	00°02'34"RT	266	266	1433	100.55	0	4.85	417	27.11	99.52	126.63	3.85	83.44	87.29	35.05	105.02	140.07	20.33	94.84	115.17	WET	LT Line			Engakad	76°15'24.89"
10	WAK-6	GLD+6	6	02°30'29"LT	228	228	1661	99.4	0	2.7	494	166.48	92.26	258.73	182.56	81.81	264.37	160.98	95.83	256.81	171.16	89.21	260.38	WET	Railway Line		Engakad	76°15'17.47"	10°39'43.78"
11	WAK-7	GLD+9	9	20°21'50"LT	240	240	1901	99.1	0	-7.99	468	135.74	181.13	316.87	146.19	210.49	356.68	132.17	171.09	303.26	138.79	189.68	328.47	WET	3 Nos LT Line, 2 Nos Metal Road		Engakad	76°15'11.64"	10°39'47.38"
12	WAK-8	KLD+3	3	50°05'10"RT	184	184	2085	97.11	0	16.47	424	58.87	-72.35	-13.47	29.51	-151.31	-121.81	68.91	-45.36	23.55	50.32	-95.35	-45.04	DRY	2 nos Boundary Wall, Drain, Metal Road, 11KV		Wadakanchery	76°15'03.13"	10°39'48.72"
13	WAK-9	MLD+9	18.51	39°20'01"LT	302	302	2387	98.07	0	-11.75	486	256.35	222.44	478.78	335.31	256.76	592.07	229.36	210.71	440.07	279.35	232.44	511.79	DRY	4 Nos LT Line, Foot Track, 2 Nos Metal Road, 11KV	Used KLB Tower Instead of KLA due to Wt. Span Limit Corossed.	Wadakanchery	76°15'00.13"	10°39'53.93"
14	WAK-10	KLB+9	9	00°01'04"LT	234			234	2621	95.83	0	-9.9	536	79.56	194.68	274.24	45.24	232.00	277.24	91.29	181.92	273.22	69.56	205.55	275.12		DRY		Wadakanchery
15	WAK-11	GLB+0	0	02°17'54"RT	221	221	2842	94.93	0	9.38	455	39.32	32.57	71.89	2.00	-4.87	-2.87	52.08	45.37	97.44	28.45	21.66	50.11	WET	4 Nos LT Line, 11KV, 2 Nos Vill Road, Boundary Wall		Kumaranellur	76°14'43.55"	10°39'59.93"
16	WAK-12	KLA+9	9	00°07'48"RT	291			291	3133	95.31	0	-3.55	512	188.43	167.90	356.33	225.87	178.66	404.53	175.63	164.22	339.85	199.34	171.03	370.37	DRY	Boundary Wall, 2 Nos Foot Track,11KV		Kumaranellur
17	WAK-13	KLA+6	6	00°00'57"RT	292	292	3425	94.76	0	2.33	583	123.10	131.35	254.45	112.34	124.31	236.65	126.78	133.75	260.53	119.97	129.30	249.26	WET	2 Nos LT Line, Metal Road		Kumaranellur	76°14'28.03"	10°40'06.46"
18	WAK-14	GLA+9	9	00°03'29"RT	313			313	3738	94.09	0	-6.63	605	160.65	195.39	356.04	167.69	214.08	381.77	158.25	189.01	347.25	162.70	200.84	363.54	WET	Metal Road, LT Line, 11KV		Kumaranellur
19	WAK-15	GLA+3	3	00°03'20"RT				93.46	0		653	117.61	169.14	286.74	98.92	168.72	267.64	123.99	169.28	293.27	112.16	169.02	281.18	WET			Kumaranellur	76°14'09.68"	10°40'14.04"

SL NO	LOC. No.	TYPE OF TOWER	EXTENTIO N	ANGLE OF DEVIATION	SPAN IN ( M )	SEC. LENG.	CUMLTV. LENGTH	R.L	C.P.D.	LEVEL DIFF.	SUM OF ADJ. SPAN	WEIGHT SPAN 110KV						WEIGHT SPAN 220KV						TYPE OF SOIL	MAJOR CROSSING DETAIL	REMARKS	VILLAGE NAME	GPS CO-ORDINATE		
												HOT			COLD			HOT			COLD							WGS-84		
												LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL					EASTING	NORTHING	
19	WAK-15	GLA+3	3	00°03'20"RT				93.46	0		653	117.61	169.14	286.74	98.92	168.72	267.64	123.99	169.28	293.27	112.16	169.02	281.18	WET			Kumaranellur	76°14'09.68"	10°40'14.04"	
20	WAK-16	GLA+3	3	00°08'19"RT	340	340	4078	93.62	0	0.16	653	170.86	151.57	322.44	171.28	149.21	320.48	170.72	152.38	323.10	170.98	150.88	321.87	WET			Kumaranellur	76°13'59.38"	10°40'18.37"	
21	PROPOSED-17	KLA+3	3	00°04'24"RT	313	313	4391	94.46	0	0.84	596	161.43	156.10	317.53	163.79	163.11	326.91	160.62	153.70	314.32	162.12	158.14	320.26	DRY	2 Nos 11KV, Vill Road, Boundary Wall			Kanjirode	76°13'49.89"	10°40'22.02"
22	WAK-18	KLA+0	3	00°01'25"RT	283	283	4674	92.21	0	-2.25	438	126.90	100.84	227.74	119.89	112.05	231.94	129.30	97.00	226.30	124.86	104.10	228.96	WET	Boundary Wall, Pond			Kanjirode	76°13'41.16"	10°40'25.87"
23	WAK-19	KLB+0	0	10°59'21"LT	155	155	4829	93.24	0	-1.97	494	54.16	141.88	196.04	42.95	128.61	171.56	58.00	146.41	204.41	50.90	138.01	188.91	WET	Aloor River, LT Line, 11KV, Metal Road, Boundary Wall			Kanjirode	76°13'36.60"	10°40'27.75"
24	WAK-20	GLB+6	6	00°00'50"RT	339	339	5168	92.34	0	5.1	689	197.12	163.20	360.32	210.39	157.53	367.92	192.59	165.13	357.72	200.99	161.54	362.53	WET	Pond, Aloor River	Used KLB Tower Instead of KLA due to Sum of Adj. Span Limit Corossed.		Kanjirode	76°13'25.72"	10°40'30.01"
25	WAK-21	GLB+9	9	00°00'54"LT	350	350	5518	91.59	0	2.25	708	186.80	181.77	368.57	192.47	183.10	375.57	184.87	181.31	366.18	188.46	182.16	370.61	WET		Used KLB Tower Instead of KLA due to Sum of Adj. Span Limit Corossed.		Chittanda	76°13'14.41"	10°40'32.33"
26	WAK-22	GLC+9	9	28°50'04"LT	358	358	5876	91.05	0	-0.54	498	176.23	191.70	367.94	174.90	250.18	425.08	176.69	171.72	348.41	175.84	208.74	384.58	WET	2 Nos Foot Track, 2 Nos LT Line, Boundary Wall			Chittanda	76°13'02.81"	10°40'34.65"
27	WAK-23	GLB+0	0	00°02'24"RT	140	140	6016	90.77	0	-9.28	450	-51.70	137.41	85.70	-110.18	128.96	18.78	-31.72	140.30	108.58	-68.74	134.95	66.21	WET	11KV, LT Line, Metal Road	Used KLB Tower Instead of KLA due to Wt. Span Limit Corossed.		Chittanda	76°12'58.44"	10°40'33.39"
28	WAK-24	GLA+3	3	00°02'12"LT	310	310	6326	90.74	0	2.97	446	172.59	110.53	283.12	181.04	130.96	312.00	169.70	103.54	273.25	175.05	116.48	291.53	WET				Chittanda	76°12'48.69"	10°40'30.36"
29	WAK-25	GLC+0	0	24°24'05"RT	136	136	6462	90.59	0	-3.15	385	25.47	108.43	133.90	5.04	100.70	105.74	32.46	111.06	143.52	19.52	106.18	125.70	WET	2 Nos LT Line, Drain, 11KV			Chittanda	76°12'44.40"	10°40'29.08"
30	WAK-26	GLA+3	3	00°02'40"RT	249	249	6711	89.77	0	2.18	556	140.57	135.86	276.43	148.30	127.38	275.68	137.94	138.75	276.69	142.82	133.39	276.21	WET	Metal Road, LT Line			Chittanda	76°12'36.32"	10°40'30.13"
31	WAK-27	GLA+6	6	00°05'19"LT	307	307	7018	89.72	0	2.95	661	171.14	209.16	380.30	179.62	224.61	404.23	168.25	203.88	372.12	173.61	213.66	387.27	DRY	Aloor River, LT Line			Chittanda	76°12'36.32"	10°40'30.13"
32	WAK-28	KLA+0	0	00°02'30"RT	354	354	7372	89.52	0	-6.2	625	144.84	120.26	265.10	129.39	112.93	242.32	150.12	122.76	272.88	140.34	118.12	258.46	DRY	2 Nos LT Line, 2 Times Aloor River			Kottapuram	76°12'26.37"	10°40'31.40"
33	WAK-29	GLA+3	3	00°48'16"RT	271	271	7643	88.77	0	2.25	649	150.74	176.86	327.60	158.07	171.02	329.09	148.24	178.85	327.09	152.88	175.16	328.03	DRY	2 Nos LT Line, Aloor River			Kottapuram	76°12'14.67"	10°40'32.93"
34	WAK-30	GLB+6	6	00°01'38"LT	378	378	8021	88.27	0	2.5	735	201.14	179.58	380.72	206.98	180.10	387.08	199.15	179.40	378.55	202.84	179.73	382.57	WET	2 Nos LT Line, Metal Road, 11KV, Boundary Wall	Used KLB Tower Instead of KLA due to Sum of Adj. Span Limit Corossed.		Kottapuram	76°12'05.80"	10°40'33.93"
35	WAK-31	GLB+6	6	01°52'47"LT	357	357	8378	88.06	0	-0.21	697	177.42	187.28	364.70	176.90	195.58	372.48	177.60	184.44	362.04	177.27	189.70	366.97	WET	2 Nos Boundary Wall	Used KLB Tower Instead of KLA due to Sum of Adj. Span Limit Corossed.		Kottapuram	76°11'53.51"	10°40'35.61"
36	WAK-32	GLB+3	3	00°14'34"LT	340	340	8718	87.86	0	-3.2	691	152.72	179.32	332.04	144.42	181.15	325.57	155.56	178.69	334.25	150.30	179.85	330.15	DRY	Aloor River, Boundary Wall	Used KLB Tower Instead of KLA due to Sum of Adj. Span Limit Corossed.		Kottapuram	76°11'41.81"	10°40'36.98"
37	WAK-33	GLA+3	3	00°02'45"RT	351	351	9069	87.13	0	-0.73	631	171.68	141.97	313.65	169.85	142.91	312.76	172.31	141.64	313.95	171.15	142.24	313.39	WET	Drain	Used KLB Tower Instead of KLA due to Sum of Adj. Span Limit Corossed.		Kundannur	76°11'30.70"	10°40'38.12"
					280					-0.3														WET	LT Line, 11KV, Metal Road,			Kundannur	76°11'19.20"	10°40'39.20"

38	WAK-34	KLA+3	3	00°02'32"LT	280	9349	86.83	0	624	138.03	174.24	312.27	137.09	175.32	312.41	138.36	173.87	312.23	137.76	174.56	312.31	DRY	Boundary Wall	Kundannur	76°11'09.96"	10°40'40.05"
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												HOT			COLD			HOT			COLD							EASTING	NORTHING
												LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL						
38	WAK-34	KLA+3	3	00°02'32"LT	344	344	9693	86.83	0	-0.42	624	138.03	174.24	312.27	137.09	175.32	312.41	138.36	173.87	312.23	137.76	174.56	312.31	DRY			Kundannur	76°11'09.96"	10°40'40.05"
39	WAK-35	GLB+3	3	03°57'04"RT	295	295	9988	86.41	0	2.77	639	169.76	130.26	300.02	168.68	121.98	290.66	170.13	133.09	303.22	169.44	127.85	297.29	WET	LT Line, Foot Path		Nelluvaya	76°10'58.83"	10°40'41.18"
40	WAK-36	GLA+6	6	00°02'33"RT	300	300	10288	86.18	0	-3.37	595	164.74	170.63	335.37	173.02	180.53	353.56	161.91	167.24	329.15	167.15	173.51	340.67	WET	11KV		Nelluvaya	76°10'49.21"	10°40'42.71"
41	WAK-37	GLA+3	3	00°03'38"LT	280	280	10568	85.81	0	-3.19	580	129.37	160.92	290.29	119.47	170.97	290.43	132.76	157.48	290.24	126.49	163.85	290.33	WET	Foot Track, LT Line		Nelluvaya	76°10'39.46"	10°40'44.32"
42	WAK-38	GLA+0	0	00°00'03"RT	311	311	10879	85.62	0	3.27	591	119.08	136.19	255.28	109.03	126.92	235.95	122.52	139.36	261.88	116.15	133.49	249.65	WET	Foot Track		Nelluvaya	76°10'30.34"	10°40'45.73"
43	WAK-39	KLD+3	3	57°24'31"LT	342	342	11221	85.89	0	3.07	653	174.81	154.52	329.32	184.08	146.60	330.68	171.64	157.22	328.86	177.51	152.21	329.72	DRY	Aloor River, 2 Nos LT Line		Nelluvaya	76°10'20.26"	10°40'47.49"
44	WAK-40	KLA+6	6	00°03'48"RT	284	284	11505	85.96	0	-4.1	626	187.48	168.51	355.99	195.40	181.24	376.64	184.78	164.15	348.93	189.79	172.22	362.01	DRY	2 Nos Metal Road, 2 Nos LT Line		Kariyannur	76°10'12.74"	10°40'39.20"
45	WAK-41	GLA+3	3	00°02'29"LT	227	227	11732	84.86	0	-3.04	511	115.49	138.09	253.58	102.76	149.90	252.66	119.85	134.05	253.90	111.78	141.53	253.31	WET			Kariyannur	76°10'06.47"	10°40'32.30"
46	WAK -42	GLD+0	0	49°25'56"RT	270	270	12002	84.82	0	0.08	497	88.91	134.46	223.37	77.10	134.19	211.29	92.95	134.55	227.49	85.47	134.38	219.85	WET			Kariyannur	76°10'01.42"	10°40'26.79"
47	WAK-43	KLA+0	0	00°01'46"LT	306	306	12308	84.9	0	-0.3	576	135.54	154.80	290.34	135.81	155.66	291.47	135.45	154.50	289.96	135.62	155.05	290.67	DRY	Aloor River, LT Line, Metal Road		Kariyannur	76°09'52.57"	10°40'27.09"
48	WAK-44	KLC+0	0	28°56'33"LT	322	322	12630	84.6	0	2.75	606	151.20	145.32	296.52	150.34	137.79	288.12	151.50	147.89	299.39	150.95	143.12	294.07	DRY	LT Line, Aloor River, 11KV		Kariyannur	76°09'42.53"	10°40'27.31"
49	WAK-45	GLA+3	3	00°03'19"LT	292	292	12922	84.35	0	0.67	614	176.68	141.79	318.47	184.21	139.76	323.98	174.11	142.48	316.58	178.88	141.20	320.07	DRY	LT Line,		Kariyannur	76°09'33.06"	10°40'22.57"
50	WAK-46	GLB+3	3	02°56'53"RT	249	249	13171	85.02	0	1.81	541	150.21	111.15	261.37	152.24	104.74	256.98	149.52	113.34	262.87	150.80	109.29	260.09	DRY	2 Nos Metal Road, 3 Nos Boundary Wall, 2 Nos LT Line		Kariyannur	76°09'24.49"	10°40'18.18"
51	WAK-47	GLB+0	0	10°29'05"LT	309	309	13480	89.83	0	-0.18	558	137.85	155.57	293.42	144.26	156.08	300.34	135.66	155.39	291.05	139.71	155.72	295.43	DRY	Metal Road		Kariyannur	76°09'17.05"	10°40'14.79"
52	WAK-48	GLA+6	6	00°11'23"LT	319	319	13799	83.65	0	-6.98	628	153.43	199.67	353.11	152.92	218.98	371.89	153.61	193.08	346.68	153.28	205.30	358.58	DRY	Metal Road, 2 Nos LT Line, Nala		Kariyannur	76°09'08.75"	10°40'08.97"
53	WAK-49	GLA+0	0	00°03'06"RT	271	271	14070	82.67	0	2.75	590	119.33	116.87	236.19	100.02	107.92	207.94	125.92	119.93	245.85	113.70	114.26	227.96	WET	Vill Road		Kariyannur	76°09'00.13"	10°40'03.18"
54	WAK-50	GLA+3	3	00°01'33"RT	296	296	14366	82.42	0	5.45	567	154.13	114.19	268.33	163.08	97.95	261.03	151.07	119.75	270.82	156.74	109.46	266.20	WET	Nala		Kariyannur	76°08'52.80"	10°39'58.15"
55	WAK-51	GLA+9	9	00°01'33"LT	313	313	14679	81.87	0	-5.6	609	181.81	189.35	371.16	198.05	205.13	403.18	176.25	183.96	360.21	186.54	193.95	380.49	DRY	3 Nos LT Line, Aloor River, Nala		Kariyannur	76°08'44.74"	10°39'52.69"
56	WAK-52	KLC+3	3	19°19'54"RT	106	106	14785	82.27	0	2.69	419	123.65	6.41	130.06	107.87	-15.98	91.89	129.04	14.06	143.10	119.05	-0.12	118.93	DRY			Kariyannur	76°08'36.28"	10°39'46.76"
57	WAK-53	KLA+6	6	00°07'23"RT				81.96	0		288	99.59	148.91	248.50	121.98	176.73	298.71	91.94	139.40	231.34	106.12	157.01	263.13	DRY			Kariyannur	76°08'32.91"	10°39'45.85"

SL NO	LOC. No.	TYPE OF TOWER	EXTENTIO N	ANGLE OF DEVIATION	SPAN IN ( M )	SEC. LENG.	CUMLTV. LENGTH	R.L	C.P.D.	LEVEL DIFF.	SUM OF ADJ. SPAN	WEIGHT SPAN 110KV						WEIGHT SPAN 220KV						TYPE OF SOIL	MAJOR CROSSING DETAIL	REMARKS	VILLAGE NAME	GPS CO-ORDINATE	
												HOT			COLD			HOT			COLD							EASTING	NORTHING
												LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL						
57	WAK-53	KLA+6	6	00°07'23"RT				81.96	0		288	99.59	148.91	248.50	121.98	176.73	298.71	91.94	139.40	231.34	106.12	157.01	263.13	DRY	11KV, Metal Road, LT Line, <b>Aloor River</b> Canal, Foot Path, LT Line,Vill Road	Used KLB Tower Instead of KLA due to Wt. Span Limit Corossed.	Kariyannur	76°08'32.91"	10°39'45.85"
58	WAK-54	KLB+0	0	00°09'41"LT	182	182	14967	82.22	0	-5.74	333	33.09	35.98	69.08	5.27	16.99	22.27	42.60	42.47	85.07	24.99	30.45	55.44	DRY			Kariyannur	76°08'27.21"	10°39'44.37"
59	WAK-55	KLA+3	3	00°04'28"RT	151	151	15118	82.47	0	3.25	441	115.02	153.55	268.57	134.01	157.65	291.66	108.53	152.14	260.67	120.55	154.74	275.29	DRY			Kariyannur	76°08'22.32"	10°39'43.01"
60	WAK-56	GLC+3	3	22°52'49"LT	290	290	15408	81.12	0	-1.35	652	136.45	184.85	321.31	132.35	186.71	319.05	137.86	184.22	322.08	135.26	185.39	320.65	DRY					Vellattanjur
61	WAK-57	GLB+3	3	00°00'07"LT	362	362	15770	80.36	0	-0.76	702	177.15	170.59	347.74	175.29	170.88	346.17	177.78	170.50	348.27	176.61	170.68	347.28	DRY	Vill Road, LT Line	Used KLB Tower Instead of KLA due to Wt. Sum of Adj. Span Limit	Vellattanjur	76°08'03.75"	10°39'33.27"
62	WAK-58	GLB+3	3	00°09'26"LT	340	340	16110	80.25	0	-0.11	688	169.41	173.84	343.25	169.12	173.77	342.89	169.50	173.87	343.37	169.32	173.82	343.14	WET			Foot Path	Used KLB Tower Instead of KLA due to Wt. Sum of Adj. Span Limit	Vellattanjur
63	WAK-59	GLB+3	3	00°06'14"LT	348	348	16458	80.28	0	0.03	706	174.16	181.87	356.03	174.23	183.25	357.49	174.13	181.40	355.53	174.18	182.27	356.45	WET		Used KLB Tower Instead of KLA due to Wt. Sum of Adj. Span Limit			Vellattanjur
64	WAK-60	GLB+3	3	00°00'26"LT	358	358	16816	79.72	0	-0.56	701	176.13	159.46	335.58	174.75	153.67	328.42	176.60	161.43	338.03	175.73	157.77	333.50	WET		Used KLB Tower Instead of KLA due to Wt. Sum of Adj. Span Limit	Vellattanjur	76°07'36.78"	10°39'12.16"
65	WAK-61	GLB+6	6	00°00'50"RT	343	343	17159	78.97	0	2.25	717	183.54	202.42	385.96	189.33	209.82	399.15	181.57	199.88	381.45	185.23	204.57	389.80	WET	Nala, Drain	Used KLB Tower Instead of KLA due to Wt. Sum of Adj. Span Limit	Vellattanjur	76°07'27.90"	10°39'05.23"
66	WAK-62	GLB+3	3	00°00'38"RT	374	374	17533	78.83	0	-3.14	674	171.58	169.95	341.54	164.18	179.54	343.72	174.12	166.68	340.79	169.43	172.74	342.17	WET		Vill Road	Used KLB Tower Instead of KLA due to Wt. Sum of Adj. Span Limit	Vellattanjur	76°07'18.23"
67	WAK-63	GLA+0	0	00°02'12"RT	300	300	17833	78.57	0	-3.26	614	130.05	108.42	238.47	120.46	99.01	219.47	133.32	111.64	244.96	127.26	105.68	232.93	WET				Vellattanjur	76°07'10.53"
68	WAK-64	GLA+0	3	00°02'28"RT	256	256	18089	78.3	0	2.73	515	147.58	151.97	299.55	156.99	162.77	319.76	144.36	148.28	292.65	150.32	155.12	305.44	WET	Metal Road, 11KV		Vellattanjur	76°07'03.88"	10°38'46.52"
69	WAK-65	GLA+0	0	00°00'13"LT	259	259	18348	78.13	0	-3.17	559	107.03	152.14	259.17	96.23	153.17	249.40	110.72	151.79	262.51	103.88	152.44	256.32	WET				Panjal	76°06'57.19"
70	WAK-66	GLA+6	0	00°01'12"RT	300	300	18648	77.78	0	-0.35	640	147.86	138.62	286.48	146.83	123.55	270.38	148.21	143.78	291.99	147.56	134.23	281.79	WET			Panjal	76°06'49.48"	10°38'35.23"
71	WAK-67	GLB+6	6	00°23'15"LT	340	340	18988	77.59	0	5.81	680	201.38	170.38	371.75	216.45	170.56	387.01	196.22	170.32	366.54	205.77	170.43	376.20	WET	Nala	Used KLB Tower Instead of KLA due to Wt. Sum of Adj. Span Limit	Panjal	76°06'40.73"	10°38'28.38"
72	WAK-68	GLB+6	6	00°04'15"LT	340	340	19328	77.52	0	-0.07	686	169.62	189.98	359.60	169.44	198.14	367.58	169.68	187.19	356.88	169.57	192.36	361.93	WET	Nala	Used KLB Tower Instead of KLA due to Wt. Sum of Adj. Span Limit	Panjal	76°06'31.91"	10°38'21.54"
73	WAK-69	GLB+3	3	00°01'26"RT	346	346	19674	77.32	0	-3.2	675	156.02	166.34	322.36	147.86	167.23	315.09	158.81	166.04	324.85	153.64	166.60	320.24	WET	LT Line	Used KLB Tower Instead of KLA due to Wt. Sum of Adj. Span Limit	Panjal	76°06'22.91"	10°38'14.67"
74	WAK-70	GLB+3	3	00°01'19"RT	329	329	20003	76.99	0	-0.33	679	162.66	177.83	340.49	161.77	179.19	340.97	162.96	177.37	340.33	162.40	178.23	340.63	WET	Drain	Used KLB Tower Instead of KLA due to Wt. Sum of Adj. Span Limit	Panjal	76°06'14.44"	10°38'08.01"
75	WAK-71	GLB+3	3	00°00'04"LT	350	350	20353	76.45	0	-0.54	350	172.17	151.89	324.06	170.81	144.87	315.67	172.63	154.29	326.92	171.77	149.84	321.61	WET		Used KLB Tower Instead of KLA due to Wt. Sum of Adj. Span Limit	Panjal	76°06'05.36"	10°38'00.99"

to Wt. Sum of Adj. Span Limit																									Panjal		76°06'05.36"	10°38'00.98"	
SL NO	LOC. No.	TYPE OF TOWER	EXTENTIO N	ANGLE OF DEVIATION	SPAN IN ( M )	SEC. LENG.	CUMLTV. LENGTH	R.L	C.P.D.	LEVEL DIFF.	SUM OF ADJ. SPAN	WEIGHT SPAN 110KV						WEIGHT SPAN 220KV						TYPE OF SOIL	MAJOR CROSSING DETAIL	REMARKS	VILLAGE NAME	GPS CO-ORDINATE	
												HOT			COLD			HOT			COLD							WGS-84	
												LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL					EASTING	NORTHING
75	WAK-71	GLB+3	3	00°00'04"LT				76.45	0		683	172.17	151.89	324.06	170.81	144.87	315.67	172.63	154.29	326.92	171.77	149.84	321.61	WET	11KV	Used KLB Tower Instead of KLA due to Wt. Sum of Adj. Span Limit	Panjal	76°06'05.36"	10°38'00.98"
76	WAK-72	GLA+6	6	00°03'38"RT	333	333	20686	76.1	0	2.65	634	181.11	150.62	331.73	188.13	150.68	338.81	178.71	150.60	329.31	183.16	150.64	333.80	WET					
77	WAK-73	GLD+6	6	56°10'39"RT	301	301	20987	76.08	0	-0.02	571	150.38	152.07	302.45	150.32	160.27	310.59	150.40	149.27	299.66	150.36	154.46	304.82	WET	Canal, Metal Road		Panjal	76°05'48.99"	10°37'48.24"
78	WAK-74	KLB+3	3	00°05'27"LT	270	270	21257	76.57	0	-2.51	548	117.93	111.79	229.72	109.73	98.72	208.45	120.73	116.26	236.99	115.54	107.98	223.52	WET	Metal Road, LT Line		Kunnamkulam	76°05'40.56"	10°37'50.92"
79	MC	KLB+6	6	01°10'39"LT	278	278	21535	77.69	0	4.12	610	166.21	112.19	278.40	179.28	86.34	265.62	161.74	121.03	282.77	170.02	104.66	274.68	DRY	LT Line		Kunnamkulam	76°05'31.96"	10°37'53.75"
80	MDKM-111	KLD+9	9	33°26'14"RT	332	332	21867	84.42	0	9.73	523	219.81	182.30	402.11	245.66	224.01	469.68	210.97	168.05	379.03	227.34	194.46	421.80	DRY	3 Nos LT Line, Foot Path, Metal Road, Boundary Wall		Kunnamkulam	76°05'21.40"	10°37'56.71"
81	ATKM-69	KLC+0	0	19°38'54"LT	191	191	22058	84.39	0	-9.03	523	219.81	182.30	402.11	245.66	224.01	469.68	210.97	168.05	379.03	227.34	194.46	421.80	DRY	11 KV, 2 Nos Metal Road, LT Line, 2 nos Boundary Wall		Kunnamkulam	76°05'17.62"	10°38'01.64"
82	ATKM-70	KLD+0	0	56°42'21"LT	163	163	22221	99.26	0	14.87	354	8.70	-86.00	-77.30	-33.01	-166.48	-199.49	22.95	-58.50	-35.55	-3.46	-109.45	-112.90	DRY	2 Nos LT Line, Foot Path		Kunnamkulam	76°05'17.62"	10°38'01.64"
83	MDKM-113	KLD+0	0	55°13'04"LT	49	49	22270	99.95	0	0.69	212	249.00	-1.35	247.64	329.48	-13.78	315.70	221.50	2.89	224.39	272.45	-4.97	267.47	DRY	S/S Boundary		Kunnamkulam	76°05'12.70"	10°38'04.23"
84	Gantry	Gantry	0		15	15	22285	99.09	0	-0.86	64	50.35	112.77	163.12	62.78	163.35	226.12	46.11	95.48	141.59	53.97	127.50	181.48	DRY			S/S Land	76°05'11.31"	10°38'03.63"
											15	-97.77		-97.77	-148.35		-148.35	-80.48		-80.48	-112.50		-112.50				S/S	76°05'11.44"	10°38'03.02"