

KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

DETAILED SURVEY REPORT

Name of Work : Conducting Detailed survey for Construction of 220KV DC line on DC towers from Existing 220kV Indi SS to Proposed 220/110/11kV Chadachan (Devaranimbaragi) substation for a distance of 29.628Kms in Indi Taluk Vijayapur District.

NIKETAN CONSULTANTS LLP

Address for Correspondence ; # 583, 3rd Cross, 10th Main

BSK Ist Stage, IIInd Block Bangalore - 560050

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**KARNATAKA POWER TRANSMISSION
CORPORATION LIMITED**

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GPS COORDINATES				
Sl. No.	AP No.	GPS COORDINATES (DATUM : WGS84)		
		UTM (Zone 43Q)		DD° MM' SS"
		Easting	Northing	
1	Indi S/S	598683	1898806	17° 10' 18.8"
2	AP-1	598689	1898757	17° 10' 17.2"
3	AP-2	598623	1898646	17° 10' 13.6"
4	AP-3	598386	1898514	17° 10' 9.3"
5	AP-4	598189	1898381	17° 10' 5"
6	AP-5	597965	1898298	17° 10' 2.4"
7	AP-6	595146	1898036	17° 9' 54.3"
8	AP-7	592955	1898215	17° 10' 0.4"
9	AP-8	592525	1898531	17° 10' 10.8"
10	AP-9	592340	1898530	17° 10' 10.8"
11	AP-10	591857	1898771	17° 10' 18.7"
12	AP-11	591289	1898770	17° 10' 18.7"
13	AP-12	590869	1899098	17° 10' 29.5"
14	AP-13	590297	1899407	17° 10' 39.6"
15	AP-14	589315	1899568	17° 10' 45"
16	AP-15	588539	1899966	17° 10' 58"
17	AP-16	588356	1900182	17° 11' 5.1"
18	AP-17	587913	1900378	17° 11' 11.5"
19	AP-18	587322	1900447	17° 11' 13.8"
20	AP-19	587023	1900611	17° 11' 19.2"
21	AP-20	584985	1901010	17° 11' 32.5"
22	AP-21	584829	1901100	17° 11' 35.4"
23	AP-22	583954	1901167	17° 11' 37.7"
24	AP-23	583473	1900927	17° 11' 30"
25	AP-24	582434	1900967	17° 11' 31.4"
26	AP-25	582171	1900878	17° 11' 28.6"
27	AP-26	581895	1900988	17° 11' 32.2"
28	AP-27	580413	1901688	17° 11' 55.1"
29	AP-28	580257	1901803	17° 11' 58.9"
30	AP-29	579219	1901775	17° 11' 58.1"
31	AP-30	578238	1902022	17° 12' 6.3"
32	AP-31	573988	1902846	17° 12' 33.6"
33	AP-32	573543	1902828	17° 12' 33.1"
34	AP-33	573155	1903007	17° 12' 38.9"
35	AP-34	571856	1903663	17° 13' 0.4"
36	AP-35	571603	1903692	17° 13' 1.4"
37	AP-36	570961	1904372	17° 13' 23.6"
38	Chadachana S/S	570960	1904444	17° 13' 26"
75° 40' 2.8"				

Name of Work: Conducting Detailed survey for Construction of 220KV DC line on DC towers from Existing 220KV Indi SS to Proposed 220/110/11KV Chadachan (Devaranimbargi) substation for a distance of 29.628kms in Indi Taluk Vijayapur District.

Client : Karnataka Power Transmission Corporation Limited.

Surveyors : M/s Niketan Consultants LLP, Bengaluru

Job No.:KA2974

TOWER SCHEDULE

Name of Work : Conducting Detailed survey for Construction of 220KV DC line on DC towers from Existing 220kv Indi SS to Proposed 220/110/11KV Chadachan (Devaranimbargi) substation for a distance of 29.628Kms in Indi Taluk Vijayapur District.
Client : Karnataka Power Transmission Corporation Limited.

Surveyors : M/s Niketan Consultants LLP, Bengaluru

Job No.: KA2974

Sl. No.	AP No.	Type of Towers	Angle of deviation	Span in mts	Cumulative chainage in Mts.	Weight span Hot Curve			Crossing Details/Remarks	Village limits
						L	R	T		
-		Bay	-		0	-	-	-	Survey Commenced from Existing 220/110KV S/S at Indi	Indi
				50					Compound Wall, 11KV Line	
1	AP-1	P3+3 220KV DC Monopole	45°45'43"R		50	-	68	68		"
				130					-	
2	AP-2	P3+3 220KV DC Monopole	33°18'36"R		180	62	79	141		"
				135					-	
3		P3+3 220KV DC Monopole	0°0'0"		315	56	72	128		"
				137					-	
4	AP-3	DD+0 220KV DC NBT	4°58'31"L		452	65	98	163		"
				237					11KV Line	
5	AP-4	DD+0 220KV DC NBT	13°35'44"R		689	139	116	255		"
				240					-	
6	AP-5	DC+3	15°0'5"R		929	124	76	200		"
				250					Canal, 11KV Line	
7		DA+6	-		1179	174	123	297		"
				245					-	

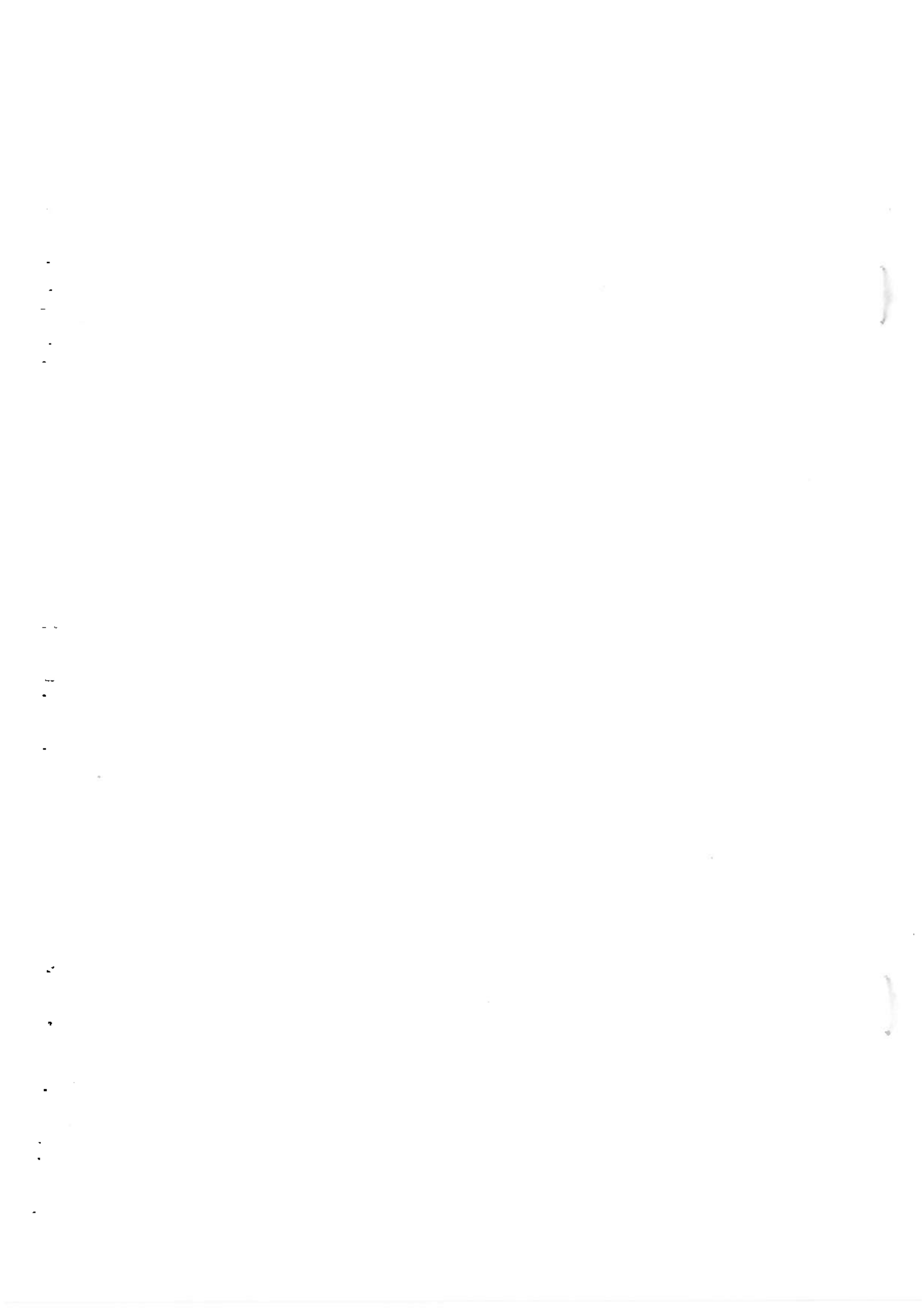
Sl. No.	AP No.	Type of Towers	Angle of deviation	Span in mts	Cumulative chainage in Mts.	Weight span Hot Curve			Crossing Details/Remarks	Village limits
						L	R	T		
8		DA+3	-	265	1424	122	136	258	Cart Track	Chikkabevanura
9		DA+3	-	255	1689	129	135	264	-	"
10		DB+3	0°0'0"	255	1944	120	121	241	-	"
11		DA+3	-	265	2199	134	107	241	11kV Line 2 No's, Cart Track, LT Line	"
12		DA+3	-	255	2464	158	119	277	11kV Line 2 No's, Tar Road, Foundation at 16M Left	"
13		DA+6	-	250	2719	136	177	313	-	"
14		DB+3	0°0'0"	265	2969	73	125	198	-	"
15		DA+3	-	265	3234	140	100	240	-	"
16		DA+3	-	261	3499	165	118	283	11kV Line	"
17	AP-6	DB+6	9°57'46"L	245	3760	143	177	320	-	"
18		DB+3	0°0'0"	245	4005	68	131	199	LT Line	Chavadihala
19		DA+3	-	245	4250	114	111	225	-	"
20		DA+3	-	245	4495	134	136	270	11kV Line	"
21		DA+3	-	245	4740	109	121	230	11kV Line, Cart Track, LT Line	"
22		DB+3	0°0'0"	250	4985	124	130	254	-	"
23		DA+3	-	5235	120	123	243		LT line, Nala	"

Sl. No.	AP No.	Type of Towers	Angle of deviation	Span in mts	Cumulative chainage in Mts.	Weight span Hot Curve			Crossing Details/Remarks	Village limits
						L	R	T		
				245					Nala, 11kV Line, Cart Track	
24		DA+3	-		5480	122	112	234	LT Line	"
				250					LT Line	
25		DA+3	-		5730	138	117	255	LT Line	"
				228					LT Line	
26	AP-7	DD+0	31°38'11"R		5958	111	44	155	LT Line, 11kV Line, Cart Track	"
				265					LT Line, 11kV Line, Cart Track	
27		DB+6	0°0'0"		6223	221	111	332	LT Line	Choragi
				269					LT Line	
28	AP-8	DD+15	36°19'33"L		6492	158	133	291	Existing B.G Double Railway Track from Bijapur to Solapura in between KM Stone No. 232/900 & 233/000 A/C=90°	"
				185						
29	AP-9	DD+12	26°31'14"R		6677	52	176	228	LT Line, Bund	"
				270					LT Line, Bund	
30		DB+3	0°0'0"		6947	94	98	192	LT Line, Tar Road, 11kV Line	"
				270					LT Line, Tar Road, 11kV Line	
31	AP-10	DC+3	26°37'26"L		7217	172	71	243	LT Line	"
				190					LT Line	
32		DA+6			7407	119	88	207		
				175						
33		DA+3	-		7582	87	92	179	Cart Track	"
				203					Cart Track	
34	AP-11	DD+0	38°9'16"R		7785	111	87	198		"
				265						
35		DA+6	-		8050	178	151	329	11kV Line, Cart Track	"
				267					11kV Line, Cart Track	
36	AP-12	DB+3	9°37'11"L		8317	116	97	213	11kV Line 2 No's	"
				180					11kV Line 2 No's	
37		DA+0	-		8497	83	92	175		"
				230						
38		DA+6	-		8727	138	140	278		"

Sl. No.	AP No.	Type of Towers	Angle of deviation	Span in mts	Cumulative chainage in Mts.	Weight span Hot Curve			Crossing Details/Remarks	Village limits
						L	R	T		
				241					Cart Track, LT Line	
39	AP-13	DC+3	19°5'4"L		8968	101	142	243		"
				250					LT Line	
40		DA+0	-		9218	108	76	184		"
				250					LT Line	
41		DA+3	-		9468	174	115	289		Kudagi
				250					-	
42		DA+3	-		9718	135	146	281		
				245					-	
43	AP-14	DC+3	17°51'29"R		9963	99	122	221		"
				220					-	
44		DA+6			10183	98	109	207		
				220					LT Line	
45		DA+3	-		10403	111	137	248		"
				220					LT Line	
46		DA+3	-		10623	83	141	224		"
				213					11KV Line, Tar Road	
47	AP-15	DC+0	22°35'54"R		10836	72	156	228		"
				282					LT line 2Nos	
48	AP-16	DC+0	25°57'3"L		11118	126	133	259		"
				245					-	
49		DA+3	-		11363	112	142	254		"
				241					-	
50	AP-17	DC+3	17°10'43"L		11604	99	92	191		"
				200					Cart track	
51		DA+0	-		11804	108	125	233		"
				210					-	
52		DA+6	-		12014	85	152	237		"
				185					11KV line 2No's	
53	AP-18	DC+0	22°5'44"R		12199	33	82	115		"
				170					LT line	
54		DB+0	0°0'0"		12369	88	32	120		"

Sl. No.	AP No.	Type of Towers	Angle of deviation	Span in mts	Cumulative chainage in Mts.	Weight span Hot Curve			Crossing Details/Remarks	Village limits
						L	R	T		
				171					-	
55	AP-19	DC+3	17°38'38"L	245	12540	139	74	213	Canal, 11kV Line	"
56		DA+6	-	260	12785	171	122	293	Cart track	Gundhavana
57		DA+3	-	260	13045	138	143	281		Kapanimbaragi
58		DB+3	0°0'0"	260	13305	117	170	287	-	"
59		DA+3	-	265	13565	90	152	242	Cart track	"
60		DA+3	-	260	13830	113	149	262	-	"
61		DB+6	0°0'0"	265	14090	111	135	246	Cart track, LT Line	"
62		DA+3	-	262	14355	130	102	232	Nala	"
63	AP-20	DD+6	18°52'18"R	180	14617	160	59	219	11kV line	"
64	AP-21	DD+6	25°35'38"L	220	14797	121	89	210	11kV Line, NH-52 from Bijapur to Solapura A/C=78° in b/w Kms No. Horti-8Kms & Kms Zalki-8Kms, LT Line	"
65		DA+6		220	15017	131	83	214	LT Line	
66		DA+3	-	220	15237	137	90	227	Canal, 33kV Line	Nandaragi
67		DA+3	-	217	15457	130	132	262	-	
68	AP-22	DD+3	30°47'58"L	270	15674	85	108	193	LT Line	"
69		DA+3	-		15944	162	128	290	Tar Road, 11kV Line	"

Sl. No.	AP No.	Type of Towers	Angle of deviation	Span in mts	Cumulative chainage in Mts.	Weight span Hot Curve			Crossing Details/Remarks	Village limits
						L	R	T		
				268					-	
70	AP-23	DC+3	28°38'0"R		16212	140	151	291		"
				260					-	
71		DA+3	-		16472	109	103	212		"
				260					-	
72		DA+3	-		16732	157	131	288		"
				260					LT Line	
73		DA+6	-		16992	129	154	283		"
				260					11kV Line, Cart Track, Canal	
74	AP-24	DC+6	20°58'11"L		17252	106	143	249		"
				277					LT Line 2 No's, Nala	
75	AP-25	DD+6	40°28'33"R		17529	134	143	277		"
				150					-	
76		DB+0	0°0'0"		17679	7	77	84		
				147					-	
77	AP-26	DB+0	3°35'11"R		17826	70	80	150		"
				230					Nala, LT Line	
78		DA+3			18056	150	83	233		
				225					-	
79		DB+6	0°0'0"		18281	142	66	208		"
				235					Cart Track	
80		DA+3	-		18516	169	114	283		"
				245					11kV Line 2 No's, Cart Track	
81		DA+3	-		18761	131	95	226		"
				230					-	
82		DA+3	-		18991	135	85	220		"
				260					-	
83		DB+6	0°0'0"		19251	175	53	228		"
				215					-	
84	AP-27	DD+12	11°10'2"R		19466	162	123	285		"



Sl. No.	AP No.	Type of Towers	Angle of deviation	Span in mts	Cumulative chainage in Mts.	Weight span Hot Curve			Crossing Details/Remarks	Village limits
						L	R	T		
				193					Existing 110KV S/C line from Zalki to Chadachana in between T.No.27 'A' & T.No.28 'A' A/C=72°	
85	AP-28	DD+12	37°59'51"L		19659	70	195	265	-	Sheganapura
86		DB+3	0°0'0"	255	19914	60	140	200		
87		DA+3	-	260	20174	120	103	223	Nala, Grapes Garden	"
88		DA+3	-	264	20434	157	101	258	-	"
89	AP-29	DC+3	13°20'30"R	250	20698	163	94	257	Cart Track	
90		DA+6	-	260	20948	156	176	332	Cart Track, 11kV Line	Dhumakanala
91		DA+3	-	255	21208	84	139	223	-	"
92		DA+3	-	246	21463	116	106	222	11kV Line (Right side)	"
93	AP-30	DB+3	3°7'41"L	255	21709	140	98	238	LT Line	"
94		DA+3			21964	157	160	317	11kV Line 2 No's, Tar Road from Dhumakanal to Cart Track	
95		DA+3	-	255	22219	95	157	252	-	"
96		DA+3	-	255	22474	98	107	205	Tar Road, LT Line 2 No's	"
97		DB+3	0°0'0"	255	22729	148	98	246	11kV Line	"
98		DA+3	-	245	22984	157	126	283	-	"

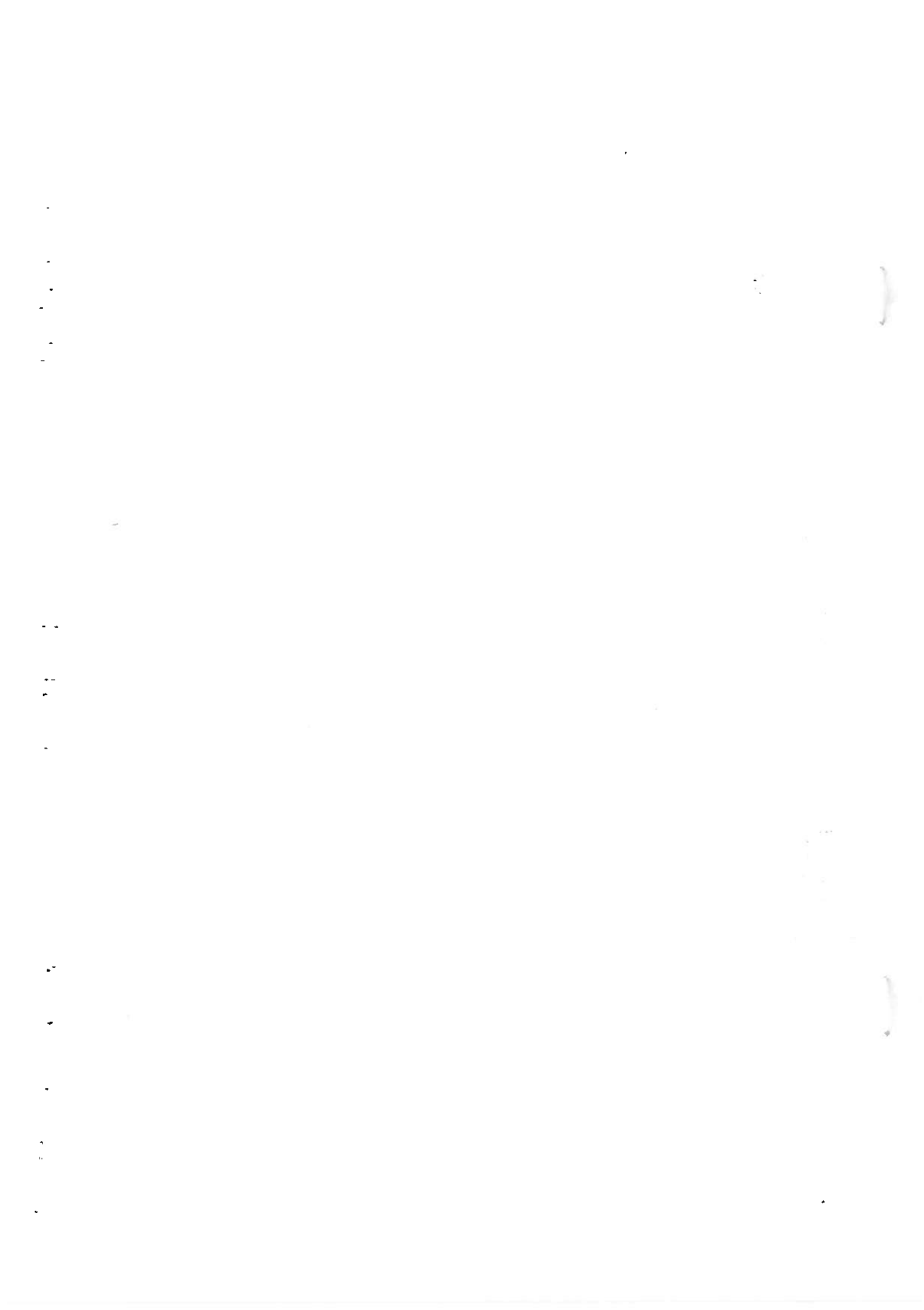
Sl. No.	AP No.	Type of Towers	Angle of deviation	Span in mts	Cumulative chainage in Mts.	Weight span Hot Curve			Crossing Details/Remarks	Village limits
						L	R	T		
99		DA+3	-		23229	119	142	261		Sathalgaon P.B
				245					Grapes Garden, LT Line	
100		DA+3	-		23474	103	159	262		"
				265					LT Line, 11kV Line 2No's, Nala, Halla	
101		DB+3	0°0'0"		23739	106	136	242		"
				260					Cart Track	
102		DA+3	-		23999	124	128	252		"
				260					LT Line 2No's, 11kV Line	
103		DA+3	-		24259	132	130	262		"
				255					LT Line	
104		DA+3	-		24514	125	98	223		"
				255						
105		DB+3	0°0'0"		24769	157	127	284		"
				255						
106		DA+3	-		25024	128	178	306		"
				255						
107		DA+3	-		25279	77	158	235		"
				255						
108		DA+3	-		25534	97	154	251		"
				255						
109		DA+3	-		25789	101	147	248		"
				250						
110	AP-31	DC+3	13°14'12"L		26039	103	120	223		"
				220						
111		DA+0	-		26259	100	89	189		"
				225						
112	AP-32	DC+3	27°3'46"R		26484	136	122	258		
				210					Cart Track	Jeegajeevanagi
113		DA+3	-		26694	88	136	224		"
				217						
114	AP-33	DB+3	1°58'7"R		26911	81	138	219		"
				230					11kV Line	

Sl. No.	AP No.	Type of Towers	Angle of deviation	Span in mts	Cumulative chainage in Mts.	Weight span Hot Curve			Crossing Details/Remarks	Village limits
						L	R	T		
115		DA+6		245	27141	92	149	241	Nala, LT Line	
116		DA+3	-	245	27386	96	116	212		"
117		DB+3	0°00"	245	27631	129	117	246		"
118		DA+3	-		27876	128	131	259		Devaranimbaragi
119		DA+3	-	245	28121	114	114	228	LT Line	"
120	AP-34	DC+3	20°33'37"L	255	28366	131	109	240	LT Line 2 No's, Tar Road, 11KV Line	"
121	AP-35	DD+3	39°54'34"R	220	28621	146	106	252	LT Line	"
122		DA+3	-	240	28841	114	121	235	Grapes Garden, LT Line	"
123		DA+3	-	245	29081	119	108	227	Grapes Garden, LT Line, 11KV Line	"
124		DA+3	-	230	29326	137	124	261	11KV Line 2 No's, Tar Road from Devarnimbaragi to Jigajeevani	"
125	AP-36	DD+3	42°14'50"R	72	29556	106	-	106		"
-		Bay	-		29628	-	-	-	Joining to Proposed 220/110 /11KV S/S at Chadachan (Devaranimbaragi)	"

Assistant Engineer (Ele)
Project Sub-Division-2 KPTCL,
Vijayapur

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ABSTRACT OF TOWERS									
Name of Work : Conducting Detailed survey for Construction of 220KV DC line on DC towers from Existing 220KV Indl SS to Proposed 220/110/11KV Chadachan (Devaranimbargi) substation for a distance of 29.628Kms in Indl Taluk Vijayapur District.									
Client : Karnataka Power Transmission Corporation Limited.									
Surveyors : M/s Niketan Consultants LLP, Bengaluru									
Job No.:KA2974									

Sl.No.	TYPE OF TOWERS	NORMAL	+3	+6	+9	+12	+15	+18	TOTAL
1	DA	71	55	12	-	-	-	-	71
2	DB	22	14	5	-	-	-	-	22
3	DC	15	11	1	-	-	-	-	15
4	DD	12	3	3	-	3	1	-	12
Proposed 220KV/DC Towers (KPTCL-2D-GDG)									Total = 120 No's.

Proposed 220KV DC Narrow Based Towers (KPTCL-2D-NB-NRS)									Total = 2 No's.
1	DD	2	-	-	-	-	-	-	2
Proposed 220KV DC Monopole (KPTCL-2MP-JGN)									Total = 3 No's.
1	P3	3	3	-	-	-	-	-	3
Total Proposed Towers =									125 No's.

NOTE : 1) Minor deviation if any due to way leave problem that may arise during the execution of the work will be incorporated accordingly.
2. The Monopoles shall be designed for an AAAC Moose conductor, with Drake conductor parameters considered for design calculations.



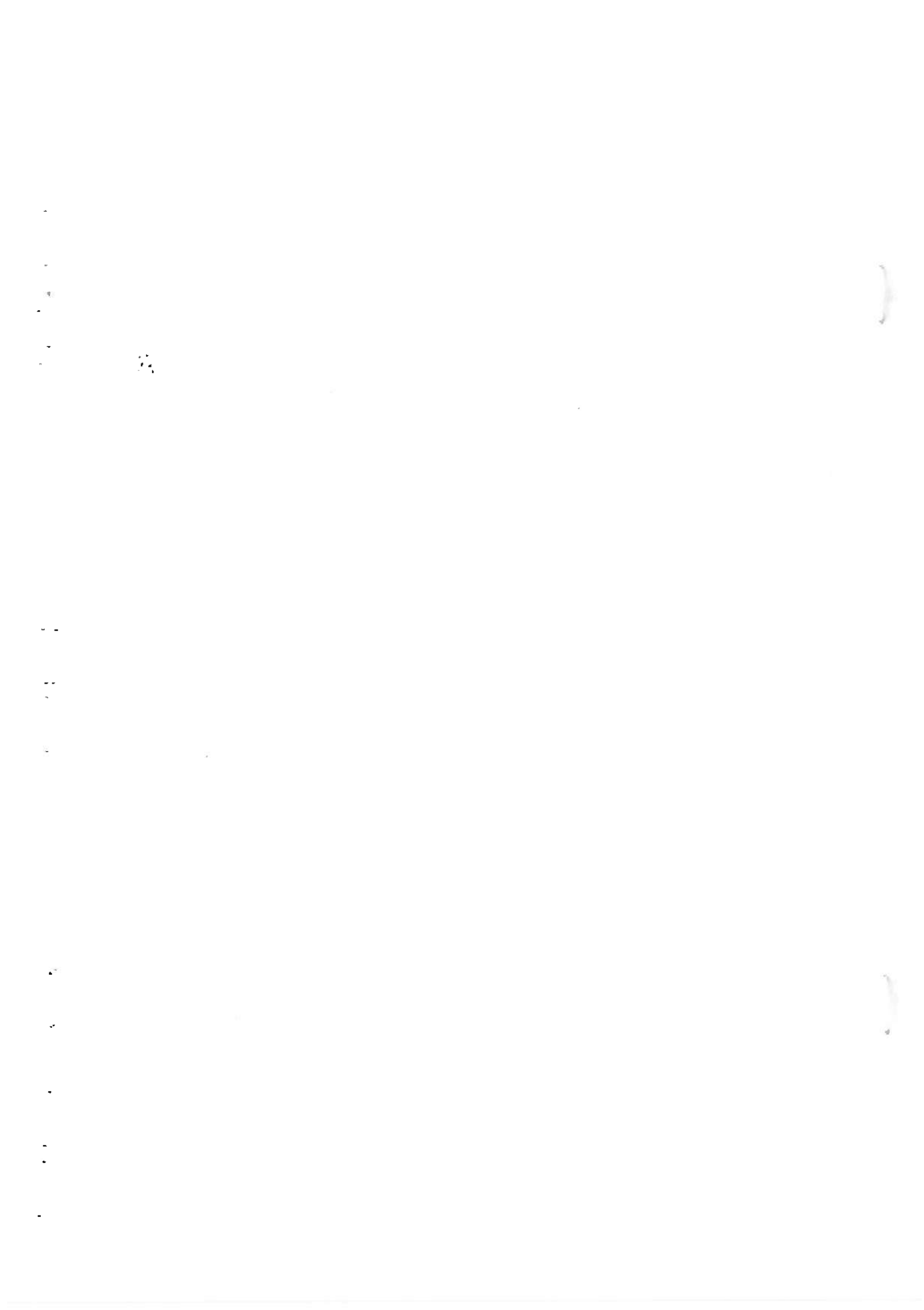
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Approved

Superintending Engineer Ele.,
Transmission (Projects) Circle,
KPTCL, Bagalkot.



LINE SCHEDULE					
Name of Work :Conducting Detailed survey for Construction of 220KV DC line on DC towers from Existing 220KV Indl SS to Proposed 220/110/11KV Chadachan (Devaranimbaragi) substation for a distance of 29.628Kms in Indl Taluk Vijayapur District.					
Client : Karnataka Power Transmission Corporation Limited.					
Surveyors :M/s Niketan Consultants LLP, Bengaluru					
Job No.:KA2974					
Sl. No.	Chainage in mts	Name of the Power /Tele line	Voltage in class	Height of line in mts	Remarks
1	44	11KV Line	11KV	7.5	-
2	592	11KV Line	11KV	7.5	-
3	1029	11KV Line	11KV	7.5	-
4	2020	11KV Line	11KV	7.5	-
5	2071	LT Line	440V	7.0	-
6	2120	11KV Line	11KV	7.5	-
7	2222	11KV Line	11KV	7.5	-
8	2360	11KV Line	11KV	7.5	-
9	3469	11KV Line	11KV	7.5	-
10	3909	LT Line	440V	7.0	-
11	4380	11KV Line	11KV	7.5	-
12	4576	11KV Line	11KV	7.5	-
13	4715	LT Line	440V	7.0	-
14	5162	LT Line	440V	7.0	-
15	5356	11KV Line	11KV	7.5	-
16	5718	LT Line	440V	7.0	-
17	5902	LT Line	440V	7.0	-
18	5977	LT Line	440V	7.0	-
19	6187	11KV Line	11KV	7.5	-
20	6362	LT Line	440V	7.0	-
21	6788	LT Line	440V	7.0	-
22	7114	LT Line	440V	7.0	-
23	7195	11KV Line	11KV	7.5	-
24	7370	LT Line	440V	7.0	-
25	8135	11KV Line	11KV	7.5	-
26	8326	11KV Line	11KV	7.5	-
27	8430	11KV Line	11KV	7.5	-
28	8810	LT Line	440V	7.0	-
29	9097	LT Line	440V	7.0	-
30	9366	LT Line	440V	7.0	-
31	10223	LT Line	440V	7.0	-
32	10501	LT Line	440V	7.0	-

Sl. No.	Chainage in mts	Name of the Power /Tele line	Voltage in class	Height of line in mts	Remarks
33	10647	11KV Line	11KV	7.5	-
34	10964	LT Line	440V	7.0	-
35	11062	LT Line	440V	7.0	-
36	12109	11KV Line	11KV	7.5	-
37	12158	11KV Line	11KV	7.5	-
38	12323	LT Line	440V	7.0	-
39	12657	11KV Line	11KV	7.5	-
40	14079	LT Line	440V	7.0	-
41	14449	11KV Line	11KV	7.5	-
42	14675	11KV Line	11KV	7.5	-
43	14790	LT Line	440V	7.0	-
44	14862	LT Line	440V	7.0	-
45	15073	33KV line	33KV	9.0	-
46	15621	LT Line	440V	7.0	-
47	15881	11KV Line	11KV	7.5	-
48	16880	LT Line	440V	7.0	-
49	17118	11KV Line	11KV	7.5	-
50	17316	LT Line	440V	7.0	-
51	17369	LT Line	440V	7.0	-
52	17979	LT Line	440V	7.0	-
53	18537	11KV Line	11KV	7.5	-
54	18587	11KV Line	11KV	7.5	-
55	19545	110KV line	110KV	18.483	Existing 110KV Zalagi- Chadachana SC line
56	20911	11KV Line	11KV	7.5	-
57	21539	LT Line	440V	7.0	-
58	21810	11KV Line	11KV	7.5	-
59	21845	11KV Line	11KV	7.5	-
60	22282	LT Line	440V	7.0	-
61	22399	LT Line	440V	7.0	-
62	22581	11KV Line	11KV	7.5	-
63	23361	LT Line	440V	7.0	-
64	23503	11KV Line	11KV	7.5	-
65	23527	11KV Line	11KV	7.5	-
66	23596	LT Line	440V	7.0	-
67	24025	LT Line	440V	7.0	-
68	24095	11KV Line	11KV	7.5	-
69	24251	LT Line	440V	7.0	-

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ABSTRACT OF LINES				
Sl.No.	Name of Power Line / Tele Line	Power Line	Tele Line	Total
1	LT Line	42	-	42
2	11KV Line	38	-	38
3	33KV line	1	-	1
4	110KV line	1	-	1
Total=		82 Nos.		

Sl. No.	Chainage in mts	Name of the Power /Tele line	Voltage in class	Height of line in mts	Remarks
70	24435	LT Line	440V	7.0	-
71	26970	11KV Line	11KV	7.5	-
72	27281	LT Line	440V	7.0	-
73	28313	LT Line	440V	7.0	-
74	28375	LT Line	440V	7.0	-
75	28517	LT Line	440V	7.0	-
76	28611	11KV Line	11KV	7.5	-
77	28781	LT Line	440V	7.0	-
78	28865	LT Line	440V	7.0	-
79	29153	LT Line	440V	7.0	-
80	29196	11KV Line	11KV	7.5	-
81	29455	11KV Line	11KV	7.5	-
82	29518	11KV Line	11KV	7.5	-

TREE SCHEDULE

Name of Work : Conducting Detailed survey for Construction of 220KV DC line on DC towers from Existing 220KV Indl SS to Proposed 220/110/11KV Chadachan (Devaranimbaragi) substation for a distance of 29.628Kms in Indl Taluk Vijayapur District.

Client : Karnataka Power Transmission Corporation Limited.

Surveyors : M/s Niketan Consultants LLP, Bengaluru

Job No.:KA2974

Sl. No.	Chainage in mts	Name of the Tree	Grith size in mts	Height of Trees in Mts	Distance from center line in mts	Remarks (No. of Trees)
---------	--------------------	---------------------	-------------------------	---------------------------	--	---------------------------

AP-1 to AP-2						
NIII						
1	5	Neem Tree	0.9	12	L & R	3
2	209	Neem Tree	0.6	11	R	2

AP-2 to AP-3						
NIII						
AP-3 to AP-4						

1	24	Neem Tree	0.6	8	L	1
AP-4 to AP-5						

1	124	Neem Tree	0.9	13	6L	1
AP-5 to AP-6						

NIII						
AP-5 to AP-6						
NIII						
AP-6 to AP-7						

1	1402	Neem Tree	0.4	12	5L	1
2	1870	Neem Tree	0.4	13	7L	1
AP-7 to AP-8						

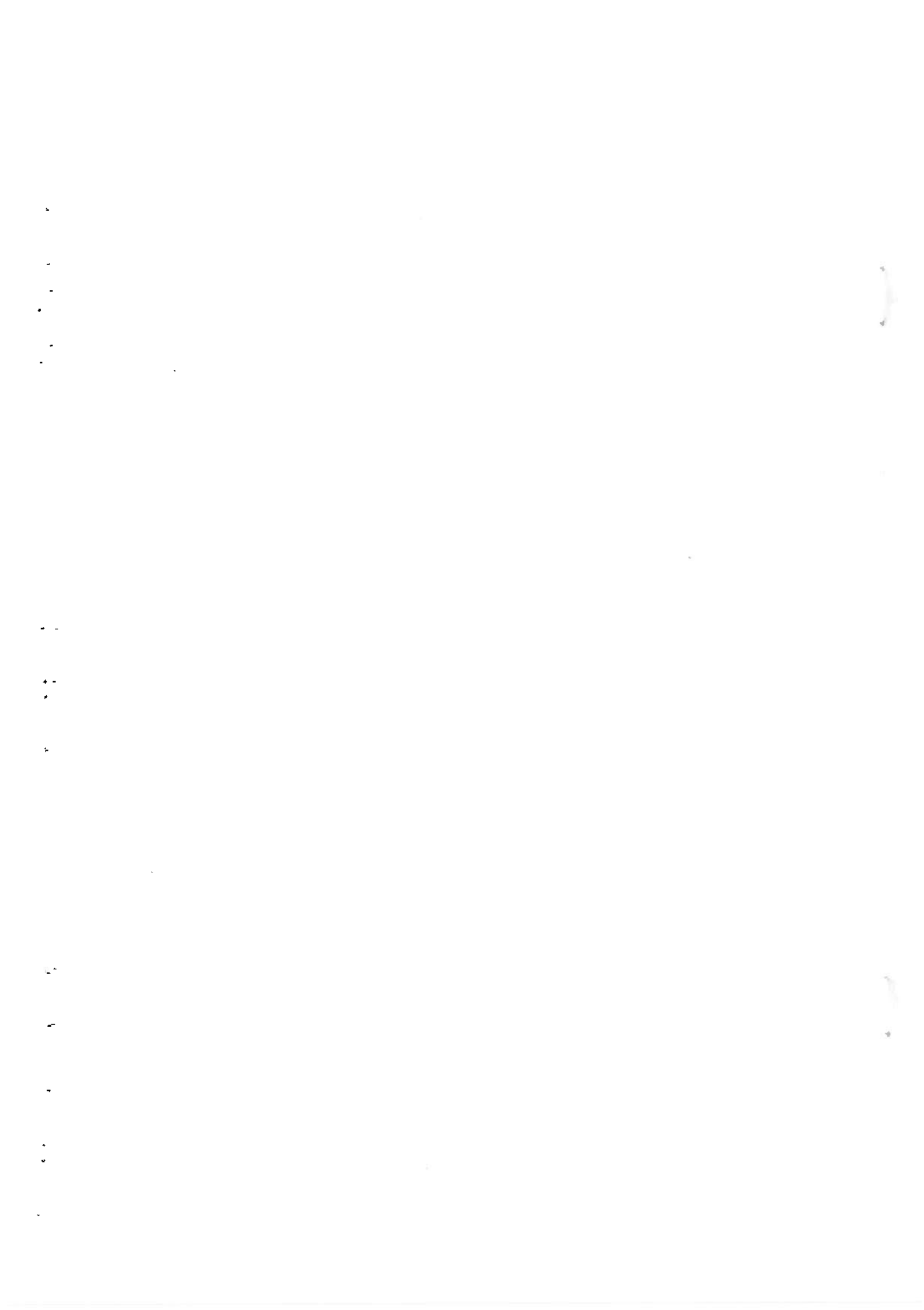
NIII						
AP-8 to AP-9						
NIII						
AP-9 to AP-10						

1	109	Neem Tree	0.4	12	2R	1
2	341	Neem Tree	0.4	11	4L	1
AP-10 to AP-11						

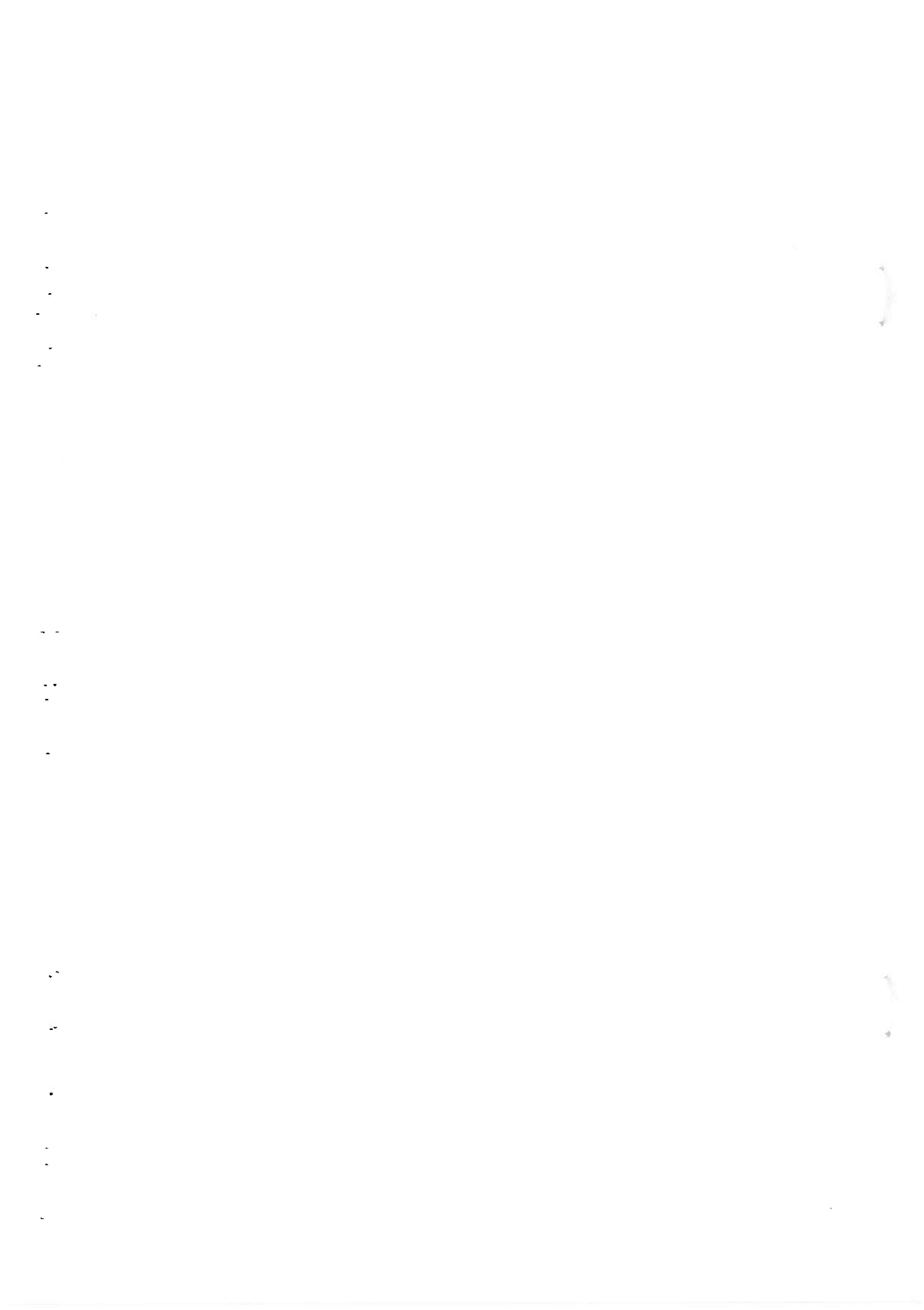
NIII						
AP-11 to AP-12						
NIII						
AP-12 to AP-13						

1	22	Neem Tree	0.8	13	3R	1
2	462	Neem Tree	0.6-0.8	12 - 14	2R	3
3	462	Neem Tree	0.6-0.8	12 - 14	1L	3
4	562	Neem Tree	0.5	13	1R	1
AP-13 to AP-14						

1	113	Neem Tree	0.6	12	3R	1
2	149	Neem Tree	0.7	13	2L-1R	3
3	187	Neem Tree	0.8	14	1R	2



Sl. No.	Chainage in mts	Name of the Tree	Girth size in mts	Height of Trees in Mts	Distance from center line in mts	Remarks (No. of Trees)
4	247	Neem Tree	0.6	15	2L-1R	3
5	552	Neem Tree	0.7	10	1R	1
AP-14 to AP-15						
Nil						
AP-15 to AP-16						
1	175	Neem Tree	0.3	10	1L-1R	3
AP-16 to AP-17						
1	267	Neem Tree	0.4	11	2R	1
2	295	Neem Tree	0.4	12	3L	3
3	347	Neem Tree	0.5	11	1L	1
AP-17 to AP-18						
1	60-173	Neem Tree	0.3	11	1L	1
2	259	Neem Tree	0.5	13	2R	3
3	320	Neem Tree	0.8	12	1L	4
4	512	Neem Tree	0.7	15	3R	2
5	562	Neem Tree	0.6	14	1L	3
AP-18 to AP-19						
1	83	Neem Tree	0.8	14	1R-1L	3
2	167	Neem Tree	0.5	10	2L-1R	4
3	291	Neem Tree	0.7	13	1L-1R	3
AP-19 to AP-20						
1	103	Neem Tree	0.8	14	1R-1L	2
AP-20 to AP-21						
1	20	Neem Tree	0.8	10	1R-1L	3
2	102	Neem Tree	0.7	13	2L-1R	4
3	211	Neem Tree	0.6	12	1L-1R	2
4	287	Neem Tree	0.9	14	1R-1L	3
5	580	Neem Tree	0.8	12	2L-1R	4
6	746	Neem Tree	0.7	14	1L-1R	5
7	972	Neem Tree	0.6	15	1R-1L	2
8	1136	Neem Tree	0.9	10	2L-1R	4
9	1282	Neem Tree	0.8	13	1L-1R	3
10	1614	Neem Tree	0.7	12	1R-1L	5
11	1696	Neem Tree	0.6	14	2L-1R	5
12	1771	Neem Tree	0.9	12	1L-1R	3
13	1978	Neem Tree	0.8	14	1L-1R	4
AP-21 to AP-22						
1	163	Neem Tree	0.4	13	3L	1
2	207	Neem Tree	0.6	13	4L	1
AP-22 to AP-23						
1	71	Neem Tree	0.3	14	2L-1R	1
2	130	Neem Tree	0.4	11	3L	2
3	264	Neem Tree	0.5	13	1L-1R	2
4	295	Neem Tree	0.5	12	1L-1R	2



Sl. No.	Chainage in mts	Name of the Tree	Girth size in mts	Height of Trees in Mts	Distance from center line in mts	Remarks (No. of Trees)
AP-23 to AP-24						
Nil						
AP-24 to AP-25						
Nil						
AP-25 to AP-26						
Nil						
AP-26 to AP-27						
Nil						
AP-27 to AP-28						
Nil						
AP-28 to AP-29						
1	562	Neem Tree	0.6	11	3L	1
AP-29 to AP-30						
1	262	Neem Tree	0.6	11	3L	1
2	349	Neem Tree	0.9	17	6L	1
3	685	Neem Tree	0.7	14	2L	1
4	837	Neem Tree	0.7	13	3R	1
AP-30 to AP-31						
Nil						
AP-31 to AP-32						
Nil						
AP-32 to AP-33						
Nil						
AP-33 to AP-34						
1	241	Neem Tree	0.8-0.9	10 - 11	5L	2
2	241	Neem Tree	0.8-0.9	10 - 11	5R	2
3	643	Banni Tree	0.2	16	3L	1
4	683	Banni Tree	1.3	18	3R	1
5	756	Neem Tree	0.9	13	1R	1
6	1020	Neem Tree	0.8	13	2R	1
7	1240	Neem Tree	0.8	14	2R	1
8	1240	Neem Tree	0.9	15	3L	1
9	1820	Neem Tree	0.9	16	4R	1
AP-34 to AP-35						
1	210	Neem Tree	0.8	16	3L	1
AP-35 to AP-36						
1	88	Neem Tree	0.9	14	2R	1
2	182	Neem Tree	0.8	14	3L	1
AP-36 to Chadachana S/S						
Nil						

ABSTRACT OF TREE SCHEDULE

Name of Work: Conducting Detailed survey for Construction of 220KV DC line on DC towers from Existing 220KV Indi SS to Proposed 220/110/11KV Chadachan (Devaranimbargi) substation for a distance of 29.628Kms in Indi Taluk Vijayapur District.

Client : Karnataka Power Transmission Corporation Limited.

Surveyors: M/s Niketan Consultants LLP, Bengaluru

Job No.:KA2974

SL. No	Name of Tree	Total	Rate	Amount
1	Banni Tree	2	8,000.00	16,000.00
2	Neem Tree	135	12,000.00	16,20,000.00
Total=		137 No's.		16,36,000.00

Note: "The calculations provided above are approximate and indicative. The actual compensation for trees will be determined by the relevant authorities during project implementation, taking into account factors such as location and tree valuation



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SOIL RESISTIVITY REPORT

Name of Work : Conducting Detailed survey for Construction of 220KV DC line on DC towers from Existing 220KV Indl SS to Proposed 220/110/11KV Chadachan

(Devaramimbaragi) substation for a distance of 29.628Kms in Indi Taluk Vijayapur District.

Client : Karnataka Power Transmission Corporation Limited.

Surveyors : M/s Niketan Consultants LLP, Bengaluru

Job No.:KA2974

Sl. No.	Cumulative chainage in mts	Soil encountered	Earth resistance in ohms	Soil resistivity in ohms-cms	Remarks
1	0	BC Soil	0.62	19468	Near Existing 220KV S/S at Indl
2	1010	BC Soil	0.63	19782	Near 11KV Line
3	2030	BC Soil	0.65	20410	Near 11KV Line
4	3060	BC Soil	0.60	18840	Near Pro.T.No.13
5	4050	BC Soil	0.64	20096	Near 11KV line
6	5100	BC Soil	0.62	19468	Near LT line
7	6010	BC Soil	0.63	19782	Near LT line
8	7060	BC Soil	0.62	19468	Near Railway track
9	8188	Red Soil	0.70	21980	Near Pro.T.No.32
10	9077	Red Soil	0.74	23236	Near Open well
11	10066	Red Soil	0.73	22922	Near AP-14
12	11247	Red Soil	0.75	23550	Near LT line
13	12010	Red Soil	0.72	22608	Near Cart track
14	13010	Red Soil	0.75	23550	Near Canal
15	14104	Red Soil	0.74	23236	Near Pro.T.No.59
16	15020	BC Soil	0.63	19782	Near LT line
17	16050	BC Soil	0.65	20410	Near 11KV line
18	17030	BC Soil	0.60	18840	Near Open well
19	18010	BC Soil	0.64	20096	Near Grapes Garden
20	19141	BC Soil	0.63	19782	Near Cart track
21	20010	BC Soil	0.65	20410	Near Nala
22	21040	BC Soil	0.64	20096	Near LT line
23	22036	BC Soil	0.63	19782	Near 11KV line
24	23020	BC Soil	0.64	20096	Near Pro.T.No.97
25	24013	BC Soil	0.65	20410	Near 11KV line
26	25020	BC Soil	0.60	18840	Near Pro.T.No.95

Sl. No.	Cumulative chainage in mts	Soil encountered	Earth resistance in ohms	Soil resistivity in ohms-cms	Remarks
27	26040	BC Soil	0.64	20096	Near Pro.T.No.99
28	27010	BC Soil	0.62	19468	Near Cart track
29	28030	BC Soil	0.63	19782	Near Pro.T.No.106
30	29058	DFR Soil	0.76	23864	Near LT line
31	29628	DFR Soil	0.78	24492	Near Proposed 220/110/11KV S/S at Chadachan (Devaranimbargi)
Total =				644642	

Average Soil Resistivity = $\frac{644642}{31} = 20794.9$ ohm-cms.

Formula used = $2\pi rl$

Where 'l' spacing between electrodes = 5000cms
'r' is earth resistance in ohms.
 $\square = 3.14$



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Transmission (Projects) Circle,
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Executive Engineer Ele.,
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SOIL CLASSIFICATION STATEMENT

Name of Work : Conducting Detailed survey for Construction of 220KV DC line on DC towers from Existing 220KV Indi SS to Proposed 220/110/11KV Chadachan (Devaranimbaragi) substation for a distance of 29.628Kms in Indi Taluk Vijayapur District.
Client : Karnataka Power Transmission Corporation Limited.

Surveyors : M/s Niketan Consultants LLP, Bengaluru

Job No.: KA2974

Loc. No.	AP Nos	Location Details	Angle of deviation	Cum. Chainage in mts	NDS/Dr y BC	Wet Black Cotton Soil	Partially merged Sub	Fully merged Sub	Hard rock	SFR Soil	WFR Soil	DFR Soil	Provisional Type of Foundation	Remarks
1	AP-1	P3+3 220KV DC Monopole	45°45'43"R	50	0.50	2.50	-	-	-	-	-	-	WBC	-
2	AP-2	P3+3 220KV DC Monopole	33°18'36"R	180	0.60	2.40	-	-	-	-	-	-	WBC	-
3		P3+3 220KV DC Monopole	0°0'0"	315	0.50	2.50	-	-	-	-	-	-	WBC	-
4	AP-3	DD+0 220KV DC NBT	4°58'31"L	452	0.25	-	-	-	-	-	-	2.75	DFR	-
5	AP-4	DD+0 220KV DC NBT	13°35'44"R	689	0.35	-	-	-	-	2.65	-	-	SFR	-
6	AP-5	DC+3	15°0'5"R	929	0.25	-	-	-	-	2.75	-	-	SFR	-
7		DA+6	-	1179	0.35	-	-	-	-	-	-	2.65	DFR	-
8		DA+3	-	1424	0.35	-	-	-	-	2.65	-	-	SFR	-
9		DA+3	-	1689	0.80	-	-	-	-	2.20	-	-	SFR	-
10		DB+3	0°0'0"	1944	0.35	-	-	-	-	2.65	-	-	SFR	-
11		DA+3	-	2199	0.35	-	-	-	-	2.65	-	-	SFR	-
12		DA+3	-	2464	0.45	-	-	-	-	2.55	-	-	SFR	-
13		DA+6	-	2719	0.55	-	-	-	-	-	-	2.45	DFR	-
14		DB+3	0°0'0"	2969	0.50	-	-	-	-	-	-	2.50	DFR	-
15		DA+3	-	3234	0.65	-	-	-	-	-	2.35	-	WFR	-
16		DA+3	-	3499	0.75	-	-	-	-	-	2.25	-	WFR	-
17	AP-6	DB+6	9°57'46"L	3760	0.45	-	-	-	-	2.55	-	-	SFR	-

Loc. No.	AP Nos	Location Details	Angle of deviation	Cum. Chainage in mts	NDS/Dr y BC	Wet Black Cotton Soil	Partially Sub merged	Fully Sub merged	Hard rock	SFR Soil	WFR Soil	DFR Soil	Provisional Type of Foundation	Remarks
18		DB+3	0°0'0"	4005	0.55	-	-	-	-	-	-	2.45	DFR	-
19		DA+3	-	4250	0.50	-	-	-	-	-	-	2.50	DFR	-
20		DA+3	-	4495	0.65	-	-	-	-	2.35	-	-	SFR	-
21		DA+3	-	4740	0.75	-	-	-	-	-	-	-	DFR	-
22		DB+3	0°0'0"	4985	0.65	-	-	-	-	2.35	-	2.25	SFR	-
23		DA+3	-	5235	0.25	-	-	-	-	-	-	-	WFR	-
24		DA+3	-	5480	0.35	-	-	-	-	-	2.75	-	WFR	-
25		DA+3	-	5730	0.25	-	-	-	-	2.75	2.65	-	WFR	-
26	AP-7	DD+0	31°38'11"R	5958	0.65	-	-	-	-	2.75	-	-	SFR	-
27		DB+6	0°0'0"	6223	0.25	-	-	-	-	2.35	-	-	SFR	-
28	AP-8	DD+15	36°19'33"L	6492	0.25	2.75	-	-	-	-	-	2.75	DFR	-
29	AP-9	DD+12	26°31'14"R	6677	0.35	2.65	-	-	-	-	-	-	WBC	-
30		DB+3	0°0'0"	6947	0.35	-	-	-	-	-	-	-	WBC	-
31	AP-10	DC+3	26°37'26"L	7217	0.65	-	-	-	-	2.35	-	2.65	DFR	-
32		DA+6	-	7407	0.70	-	-	-	-	2.30	-	-	SFR	-
33		DA+3	-	7582	0.25	-	-	-	-	2.75	-	-	SFR	-
34	AP-11	DD+0	38°9'16"R	7785	0.35	-	-	-	-	-	-	-	SFR	-
35		DA+6	-	8050	0.35	-	-	-	-	-	-	2.65	DFR	-
36	AP-12	DB+3	9°37'11"L	8317	0.65	-	-	-	-	2.65	-	-	SFR	-
37		DA+0	-	8497	0.70	-	-	-	-	2.35	-	-	SFR	-
38		DA+6	-	8727	0.70	-	-	-	-	-	-	2.30	DFR	-
39	AP-13	DC+3	19°5'4"L	8968	0.25	-	-	-	-	2.75	2.30	-	WFR	-
40		DA+0	-	9218	0.35	-	-	-	-	-	-	-	SFR	-
41		DA+3	-	9468	0.25	-	-	-	-	2.75	-	2.65	DFR	-
42		DA+3	-	9718	0.35	-	-	-	-	2.65	-	-	SFR	-
43	AP-14	DC+3	17°51'29"R	9963	0.35	-	-	-	-	-	-	-	SFR	-
44		DA+6	-	10183	0.65	-	-	-	-	2.35	-	2.65	DFR	-
45		DA+3	-	10403	0.70	-	-	-	-	-	-	-	SFR	-
46		DA+3	-	10623	0.70	-	-	-	-	-	2.30	2.30	DFR	-
47	AP-15	DC+0	22°35'54"R	10836	0.65	-	-	-	-	-	-	-	WFR	-
48	AP-16	DC+0	25°57'3"L	11118	0.70	-	-	-	-	-	-	2.35	DFR	-
49		DA+3	-	11363	0.70	-	-	-	-	-	2.30	2.30	DFR	-
50	AP-17	DC+3	17°10'43"L	11604	0.25	-	-	-	-	-	2.30	2.75	WFR	-

Loc. No.	AP Nos	Location Details	Angle of deviation	Cum. Chainage in mts	NDS/Dr y BC	Wet Black Cotton Soil	Partially Sub merged	Fully Sub merged	Hard rock	SFR Soil	WFR Soil	DFR Soil	Provisional Type of Foundation	Remarks
51		DA+0	-	11804	0.35	-	-	-	-	-	-	2.65	DFR	-
52		DA+6	-	12014	0.75	-	-	-	-	2.25	-	-	SFR	-
53	AP-18	DC+0	22°5'44"R	12199	0.45	-	-	-	-	-	-	2.55	DFR	-
54		DB+0	0°0'0"	12369	0.55	-	-	-	-	-	-	2.45	DFR	-
55	AP-19	DC+3	17°38'38"L	12540	0.50	-	-	-	-	-	-	2.50	DFR	-
56		DA+6	-	12785	0.65	-	-	-	-	2.35	-	-	SFR	-
57		DA+3	-	13045	0.75	-	-	-	-	2.25	-	-	SFR	-
58		DB+3	0°0'0"	13305	0.65	2.35	-	-	-	-	-	-	WBC	-
59		DA+3	-	13565	0.80	-	-	-	-	-	-	2.20	DFR	-
60		DA+3	-	13830	0.35	-	-	-	-	-	-	2.65	DFR	-
61		DB+6	0°0'0"	14090	0.35	-	-	-	-	-	2.65	-	WFR	-
62		DA+3	-	14355	0.45	-	-	-	-	-	2.55	-	WFR	-
63	AP-20	DD+6	18°52'18"R	14617	0.55	-	-	-	-	-	2.45	-	WFR	-
64	AP-21	DD+6	25°35'38"L	14797	0.50	2.50	-	-	-	-	-	-	WBC	-
65		DA+6	-	15017	0.65	-	-	-	-	-	-	2.35	DFR	-
66		DA+3	-	15237	0.75	2.25	-	-	-	-	-	-	WBC	-
67		DA+3	-	15457	0.45	2.55	-	-	-	-	-	-	WBC	-
68	AP-22	DD+3	30°47'58"L	15674	0.55	2.45	-	-	-	-	-	-	WBC	-
69		DA+3	-	15944	0.50	-	-	-	-	-	-	2.50	DFR	-
70	AP-23	DC+3	28°38'0"R	16212	0.65	-	-	-	-	-	-	2.35	DFR	-
71		DA+3	-	16472	0.75	2.25	-	-	-	-	-	-	WBC	-
72		DA+3	-	16732	0.65	2.35	-	-	-	-	-	-	WBC	-
73		DA+6	-	16992	0.25	2.75	-	-	-	-	-	-	WBC	-
74	AP-24	DC+6	20°58'11"L	17252	0.35	-	-	-	-	-	-	2.65	DFR	-
75	AP-25	DD+6	40°28'33"R	17529	0.25	2.75	-	-	-	-	-	-	WBC	-
76		DB+0	0°0'0"	17679	0.65	-	-	-	-	-	2.35	-	WFR	-
77	AP-26	DB+0	3°35'1"R	17826	0.25	2.75	-	-	-	-	-	-	WBC	-
78		DA+3	-	18056	0.45	2.55	-	-	-	-	-	-	WBC	-
79		DB+6	0°0'0"	18281	0.55	-	-	-	-	2.45	-	-	SFR	-
80		DA+3	-	18516	0.50	2.50	-	-	-	-	-	-	WBC	-
81		DA+3	-	18761	0.65	-	-	-	-	-	-	2.35	DFR	-
82		DA+3	-	18991	0.75	-	-	-	-	-	-	2.25	DFR	-
83		DB+6	0°0'0"	19251	0.65	2.35	-	-	-	-	-	-	WBC	-

Loc. No.	AP Nos	Location Details	Angle of deviation	Cum. Chainage in mts	NDS/Dr y Bc	Wet Black Cotton Soil	Partially Sub merged	Fully Sub merged	Hard rock	SFR Soil	WFR Soil	DFR Soil	Provisional Type of Foundation	Remarks
84	AP-27	DD+12	11°10'2"R	19466	0.80	-	-	-	-	2.20	-	-	SFR	-
85	AP-28	DD+12	37°59'51"L	19659	0.35	-	-	-	-	2.65	-	-	SFR	-
86		DB+3	0°0'0"	19914	0.35	2.65	-	-	-	-	-	-	WBC	-
87		DA+3	-	20174	0.70	-	-	-	-	-	-	-	WBC	-
88		DA+3	-	20434	0.65	-	-	-	-	-	-	2.30	DFR	-
89	AP-29	DC+3	13°20'30"R	20698	0.70	-	-	-	-	-	-	2.35	DFR	-
90		DA+6	-	20948	0.70	2.30	-	-	-	-	-	2.30	DFR	-
91		DA+3	-	21208	0.25	2.75	-	-	-	-	-	-	WBC	-
92		DA+3	-	21463	0.35	2.65	-	-	-	-	-	-	WBC	-
93	AP-30	DB+3	3°7'41"L	21709	0.25	2.75	-	-	-	-	-	-	WBC	-
94		DA+3	-	21964	0.70	2.30	-	-	-	-	-	-	WBC	-
95		DA+3	-	22219	0.65	-	-	-	-	-	-	-	WBC	-
96		DA+3	-	22474	0.70	-	-	-	-	-	-	2.35	DFR	-
97		DB+3	0°0'0"	22729	0.70	2.30	-	-	-	-	-	2.30	DFR	-
98		DA+3	-	22984	0.70	2.30	-	-	-	-	-	-	WBC	-
99		DA+3	-	23229	0.65	2.35	-	-	-	-	-	-	WBC	-
100		DA+3	-	23474	0.35	-	-	-	-	-	-	-	WBC	-
101		DB+3	0°0'0"	23739	0.70	2.30	-	-	-	-	-	2.65	DFR	-
102		DA+3	-	23999	0.65	-	-	-	-	-	-	-	WBC	-
103		DA+3	-	24259	0.70	2.30	-	-	-	-	-	2.35	DFR	-
104		DA+3	-	24514	0.70	2.30	-	-	-	-	-	-	WBC	-
105		DB+3	0°0'0"	24769	0.70	2.30	-	-	-	-	-	-	WBC	-
106		DA+3	-	25024	0.65	2.35	-	-	-	-	-	-	WBC	-
107		DA+3	-	25279	0.80	-	-	-	-	-	-	-	WBC	-
108		DA+3	-	25534	0.35	2.65	-	-	-	-	-	2.20	DFR	-
109		DA+3	-	25789	0.25	-	-	-	-	-	-	-	WBC	-
110	AP-31	DC+3	13°14'12"L	26039	0.65	2.35	-	-	-	-	-	2.75	DFR	-
111		DA+0	-	26259	0.50	2.50	-	-	-	-	-	-	WBC	-
112	AP-32	DC+3	27°3'46"R	26484	0.60	-	-	-	-	-	-	2.40	DFR	-
113		DA+3	-	26694	0.80	2.20	-	-	-	-	-	-	WBC	-
114	AP-33	DB+3	1°58'7"R	26911	0.35	2.65	-	-	-	-	-	-	WBC	-
115		DA+6	-	27141	0.25	-	-	-	-	-	-	2.75	DFR	-
116		DA+3	-	27386	0.65	-	-	-	-	-	-	2.35	DFR	-

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117		DB+3	0°0'0"	27631	0.50	2.50	-	-	-	-	-	-	WBC	-
118		DA+3	-	27876	0.60	2.40	-	-	-	-	-	-	WBC	-
119		DA+3	-	28121	0.40	2.60	-	-	-	-	-	-	WBC	-
120	AP-34	DC+3	20°3'37"L	28366	0.60	-	-	-	-	-	-	-	WBC	-
121	AP-35	DD+3	39°54'34"R	28621	0.80	2.20	-	-	-	-	-	2.40	DFR	-
122		DA+3	-	28841	0.20	2.80	-	-	-	-	-	-	WBC	-
123		DA+3	-	29081	0.30	2.70	-	-	-	-	-	-	WBC	-
124		DA+3	-	29326	0.40	-	-	-	-	-	-	2.60	DFR	-
125	AP-36	DD+3	42°14'50"R	29556	0.60	2.40	-	-	-	-	-	-	WBC	-



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