



**Karnataka Power Transmission Corporation Limited**

**DETAILED SURVEY REPORT FOR**

**Construction of Proposed 220kV DC LILO line  
on MC Towers from existing 220kV D/C  
Haveri-Guttur line to the proposed 220/110KV  
R/S at Byadgi, in Byadgi Taluk, Haveri District.**

**ROUTE LENGTH=0.752 KMS**

**SURVEY CONSULTANTS**

**KARNATAKA SURVEYORS**

**No.8/5, 1<sup>st</sup> Floor, T.Thimmaiah Road**

**Padmanabha Nagar**

**Bangalore-560070**

**Mob: 9845545992/7899258380**

**e-mail: karnatakasurveys@gmail.com**



## Survey Consultants:- Karnataka Surveyors, Bengaluru

## TOWER SCHEDULE

Route Length=0.752Kms

Loc No.	AP No.	Tower Type	Deviation Angle (DMS)	Span in(m)	Section Length in(m)	Cum. Chainage in(m)	Weight Span (Hot)			Major Crossings / Remarks (With in ROW)	UTM Coordinates (Zone - 43P)		Tower Survey Nos	Village Limits
							Left	Right	Total		Easting	Northing		
1 ✓	AP1	DD+3	45°00'00" RT	60.0 ✓		-	0.0	78.0	78.0	LIL of existing 220KV D/C Haveri -Guttur line, T.No. 147 DA+0 to be dismantled	552239	1618595	14	Lakamajikoppa
2 ✓	AP2	MD+0	27°33'36" RT		60.0	60	-16.0	0.0	-16.0	Common MC Tower	552289	1618651	14	Lakamajikoppa
3 ✓	AP1A	DD+3	45°00'00" LT		-	60	0.0	107.0	107.0	LIL of existing 220KV D/C Haveri -Guttur line, T.No. 147 DA+0 to be dismantled	552233	1618644	14	Lakamajikoppa
0	AP2	MD+0	46°43'00" LT	57.0 ✓	57.0	117	-50.0	43.0	-7.0	Common MC Tower	552289	1618651	14	Lakamajikoppa
4	AP3	MD+3	55°00'00" LT	170.0 ✓	170.0	287	127.0	113.0	240.0		552387	1618785	17	Lakamajikoppa
5	AP4	MD+0	45°39'36" RT	295.0 ✓	295.0	582	182.0	-120.0	62.0		552287	1619059	18	Lakamajikoppa
6	AP5	DD+3	18°25'12" LT	45.0 ✓	45.0	627	165.0	145.0	310.0		552305	1619097	18 & 19	Lakamajikoppa
0	Bay 1&2	Gantry 1&2		40.0 ✓	40.0	667	-105.0	0.0	-105.0	Bay at Proposed 220/110KV R/S at Byadgi.	552309	1619137	18 & 19	Lakamajikoppa
0	AP4	MD+0	6°00'00" RT	45.0 ✓		667	0.0	-152.0	-152.0		552287	1619059	18	Lakamajikoppa
7	AP5A	DD+3	16°56'24" RT	40 ✓	45.0	712	197.0	97.0	294.0		552277	1619099	18 & 19	Lakamajikoppa
0	Bay 3&4	Gantry 3 & 4			40	752	-57.00	0.00	-57.0	Bay at Proposed 220/110KV R/S at Byadgi.	552279	1619138	18 & 19	Lakamajikoppa

K. S. Sagar  
For Karnataka Surveyors

Assistant Engineer Ele,  
Major Works Sub-division  
KPTCL, Haveri

Assistant Executive Engineer Ele,  
Major Works Sub-division  
KPTCL, Haveri

Superintending Engineer Ele,  
Transmission (W&M) Circle,  
KPTCL, Hubballi





## ABSTRACT OF TOWERS

**Name of Project: Construction of Proposed 220kV DC LILO line on MC Towers from existing 220kV D/C Haveri-Guttur line to the proposed 220/110KV R/S at Byadgi, in Byadgi Taluk, Haveri District.**


**Client : Karnataka Power Transmission Corporation Limited**

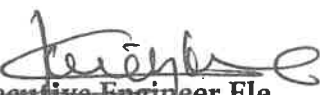
**Surver Consultants: Karnataka Surveyors, Bengaluru.**


Sl. No.	TYPE OF TOWERS	NORMAL	+3	+6	+9	TOTAL
<b>Proposed 220KV D/C Towers (Design Code: KPTCL-2D-GDG)</b>						
1	'DD'	4 ✓	4 ✓	-	-	4 ✓
Total						4 Nos.
<b>Proposed 220KV M/C Towers (Design code: KPTCL-2M-DGM)</b>						
2	'MD'	3 ✓	1 ✓	-	-	3 ✓
Total						3 Nos.
Grand total Total						7 Nos.
<b>Existing 220KV DC Towers to be Dismantled</b>						
1	'DA'	1 ✓	-	-	-	1 ✓
Total						1 Nos.

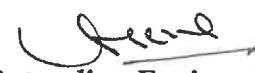
**Note :- 1) Minor deviation if any due to way leave problem that may arise during the execution of the work will be incorporated accordingly.**

  
For Karnataka Surveyors

  
Assistant Engineer Ele.,  
Major Works Sub-divison  
KPTCL., Haveri

  
Executive Engineer Ele.,  
Major Works Division  
KPTCL., Haveri

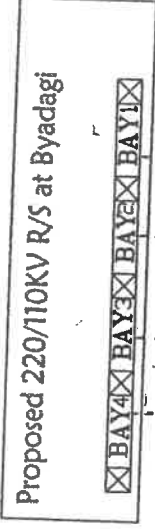
  
Assistant Executive Engineer Ele.,  
Major Works Sub-divison  
KPTCL., Haveri

  
Superintending Engineer Ele.,  
Transmission (W&M) Circle,  
KPTCL., Hubballi

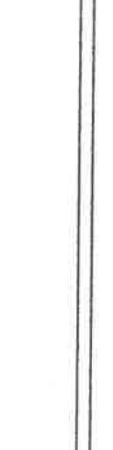
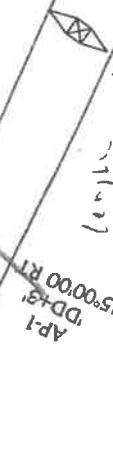
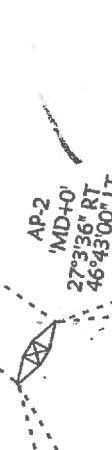
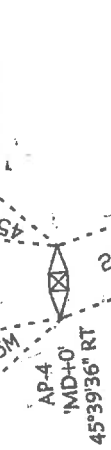
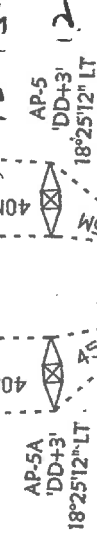


Name of Project: Construction of Proposed 220kV DC LILO line on MC Towers from existing 220kV D/C Haveri-Guttur line to the proposed 220/110KV R/S at Byadgi, in Byadgi Taluk, Haveri District.

Not To Scale



12 + Suspension



EXISTING 220KV HAVERI-GUTTUR DC LINE  
Towards Haveri

Towards Guttur

*[Signature]*  
ಸಹಾಯಕ ಅಭಿಯಂತರರು(ವಿ)  
ಬೃಹತ್ ಕಾಮಗಾರಿ ಉಪ-ವಿಭಾಗ  
ಕ.ವಿ.ಪ್ರ.ನಿ.ನಿ., ಹಾವೇರಿ.

*[Signature]*  
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು(ವಿ)  
ಬೃಹತ್ ಕಾಮಗಾರಿ ಉಪ-ವಿಭಾಗ  
ಕ.ವಿ.ಪ್ರ.ನಿ.ನಿ., ಹಾವೇರಿ.

*[Signature]*  
ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ವಿ)  
ಬೃಹತ್ ಕಾಮಗಾರಿ ವಿಭಾಗ (ಹಾವೇರಿ ಜಿಲ್ಲೆ)  
ಕ.ವಿ.ಪ್ರ.ನಿ.ನಿ. ಹುಬ್ಬಳ್ಳಿ-560024.

*[Signature]*  
S. S. R. V. (S. S. R. V.)  
Haveri



For Karnataka Surveyors



## SOIL RESISTIVITY REPORT

**Name of Project:** Construction of Proposed 220kV DC LILO line on MC Towers from existing 220kV D/C Haveri-Guttur line to the proposed 220/110KV R/S at Byadgi, in Byadgi Taluk, Haveri District.

**Client:** Karnataka Power Transmission Corporation Limited

**Survey Consultants:-** M/s Karnataka Surveyors, Bangaluru.

Sl No.	Cumulative Chainage in mts	Soil Encountered	Earth Resistance in ohms	Soil Resistivity in ohms-cms	Remarks
1	0	Red Soil	0.90	28260	Near LILOing of 1 Circuit in the existing 220KV D/C Haveri Guttur line
2	296	Red Soil	0.92	28888	Near AP3
3	752	Red Soil	0.89	27946	Near Proposed 220/110KV R/S at Byadgi.
Total				85094	

Average soil resistivity =  $\frac{85094}{3} = 28364.67$  Ohms -Cms

Formula used =  $2\pi rl$

Where 'l' spacing between electrodes = 5000cms

'r' is earth resistance in ohms.

$\pi = 3.14$

For Karnataka Surveyors

Assistant Engineer Ele.,  
Major Works Sub- Division  
KPTCL, Haveri

Executive Engineer Ele.,  
Major Works Sub- Division  
KPTCL, Haveri

Assistant Executive Engineer Ele.,  
Major Works Sub- Division  
KPTCL, Haveri

Superintending Engineer Ele.,  
Transmission (W&M) Circle  
KPTCL, Hubballi



## REVENUE SURVEY NUMBERS OF TRANSMISSION ROUTE ALIGNMENT

Construction of Proposed 220kV DC LILO line on MC Towers from existing 220kV D/C Haveri-Guttur line to the proposed 220/110KV R/S at Byadgi, in Byadgi Taluk, Haveri District.


Client : M/s KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

Surveyors : M/S KARNATAKA SURVEYORS, BANGALURU.


### REVENUE SURVEY NUMBERS

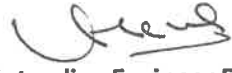
SI No.	Tower Nos.	Revenue Survey Number	Village Names	Hobli	Taluk	Dist
1	AP1/DD+03 TO AP2/MD+00	14	Lakamajikoppa	Byadagi	Byadagi	Haveri
2	AP1A/DD+03 TO AP2/MD+00	14				
3	AP2/MD+00 TO AP3/MD+03	14, 17				
4	AP3/MD+03 TO AP4/MD+00	17, 18				
5	AP4/MD+00 TO AP5/DD+03	18				
6	AP5/DD+03 TO BAY	18, 19				
7	AP4/MD+00 TO AP5A/DD+03	18				
8	AP5A/DD+03 TO BAY	18, 19				

  
For Karnataka Surveyors

  
Assistant Engineer Ele.,  
Major Works Sub- Division  
KPTCL, Haveri

  
Executive Engineer Ele.,  
Major Works Division  
KPTCL, Haveri

  
Assistant Executive Engineer Ele.,  
Major Works Sub- Division  
KPTCL, Haveri

  
Superintending Engineer Ele.,  
Transmission (W&M) Circle  
KPTCL, Hubballi





# Name of Client: KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

Name of Project: Construction of Proposed 220kV DC LILO line on MC Towers from existing 220kV D/C Haveri-Guttur-line to the proposed 220/110KV R/S at Byadgi, in Byadgi Taluk, Haveri District.

Survey Consultants:- M/s Karnataka Surveyors, Bengaluru.

## SOIL CLASSIFICATION REPORT

Sl. No	AP NOS	TYPE OF TOWER	Deviation Angle (DMS)	Span in(m)	Section Length in (m)	Cum. Chainage in (m)	Normal Soil	B.C. Soil	Grave/D FR	WBC SOIL	Soft Rock SFR	Hard Rock HR	P.S	F.S	Total Depth in Mtrs	Provisional Foundation
1	AP1	DD+3	45°00'00" RT	60	0	0	0.9		1.2		0.5	0.4			3	DFR
2	AP2	MD+0	27°3'36" RT		60	60	0.6		1.6		0.3	0.5			3	DFR
3	AP1A	DD+3	45°00'00" LT		0	60	0.8		1.7		0.3	0.2			3	DFR
0	AP2	MD+0	46°43'00" LT	57	57	117										
4	AP3	MD+3	55°00'00" LT	170.0	170.0	287.0	0.9		1.6		0.3	0.2			3	DFR
5	AP4	MD+0	45°39'36" RT	295	295	582	1		1.5		0.4	0.1			3	DFR
6	AP5	DD+3	18°25'12" LT	45.0	45.0	627.0	0.7		1.8		0.4	0.1			3	DFR
0	Bay 1&2	Gantry 1&2		40.0	40	667										
0	AP4	MD+0	6°00'00" RT		0	667										
7	AP5A	DD+3	16°56'24" RT	45	45	712	0.5		2		0.4	0.1			3	DFR
0	Bay 3&4	Gantry 3 & 4		40	40	752										
							5.40	0.00	11.40	0.00	2.60	1.60	0.00	0.00	21.00	

*K. Jagadeesh*  
For Karnataka Surveyors

*Byadgi*  
Assistant Engineer Ele.,  
Major Works Sub - Division  
KPTCL., Haveri

*Jagadeesh*  
Executive Engineer Ele.,  
Major Works Division  
KPTCL., Haveri

*Byadgi*  
Superintending Engineer El.,  
Transmission (W & M) Circle  
KPTCL., Hubballi



# Karnataka Power Transmission Corporation Limited

Survey Consultants: M/s Karnataka Surveyors, Bengaluru.

Name of Project: Construction of Proposed 220kV DC LILO line on MC Towers from existing 220kV D/C Haveri-Guttur line to the proposed 220/110KV R/S at Byadgi, in Byadgi Taluk, Haveri District.

Corporate Circular No.: KPTCL/SA8/B7/19105/15-16 Dated: 23.01.2019

Length of the Line: 0.752 Kms.

Corridor Area as per Guideline Cost

1 Lakamajikoppa Village Limits:

Length of the Line (in Km):	0.752 Kms.	Guidance Value (in Rs.):	270000.00 Per Acre (Approx.)
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Line Corridor Area

	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
	752	35	26320	6.50358	
Calculation	Area in Acres	Guidance value/Acre	% on Guidance value		
	6.50	270000.00	15		263395.11

Grand Total for Line Corridor Area  
Length of the Line [in Km.]  
Land Compensation for Corridor Area [in Rs.]

0.752  
263395.11



# Karnataka Power Transmission Corporation Limited

Survey Consultants: M/s Karnataka Surveyors, Bengaluru.

Name of Project: Construction of Proposed 220kV DC LILO line on MC Towers from existing 220kV D/C Haveri-Guttur line to the proposed 220/110KV R/S at Byadgi, in Byadgi Taluk, Haveri District.

Corporate Circular No.: KPTCL/SA8/B7/19105/15-16 Dated: 23.01.2019

Length of the Line: 0.752 Kms.

## Tower Foot Area as per Guideline Cost

A Lakamajikoppa Village Limits:

### Tower Footing Area

Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount
Proposed 220KV D/C Towers (Design Code: KPTCL-2D-GDG)							
1 DD+3	4	129.61	0.032	0.128	270000.00	229500	29400.04
Proposed 220KV M/C Towers (Design code: KPTCL-2M-DGM)							
2 MD+0	2	121.00	0.030	0.060	270000.00	229500	13723.50
3 MD+3	1	153.76	0.038	0.038	270000.00	229500	8719.53
	7		Total	0.226			51843.07

Total No. of towers in the Line [in No.]  
Compensation towards Tower Footing Area [in Rs.]

7  
51843.07



# KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

Name of Project: Construction of Proposed 220kV DC LILO line on MC Towers from existing 220kV D/C Haveri-Guttur line to the proposed 220/110KV R/S at Byadgi, in Byadgi Taluk, Haveri District.

ABSTRACT		
Sl. No.	Particulars	Compensation Amount [in Rs.]
1	Land Compensation for Corridor Area [in Rs.]	263395.11
2	Compensation towards Tower Footing Area [in Rs.]	51843.07
Total cost of Land Compensation		315238.18

  
For Karnataka Surveyors

  
Assistant Engineer Ele.,  
Major Works Sub - Division  
KPTCL, Haveri

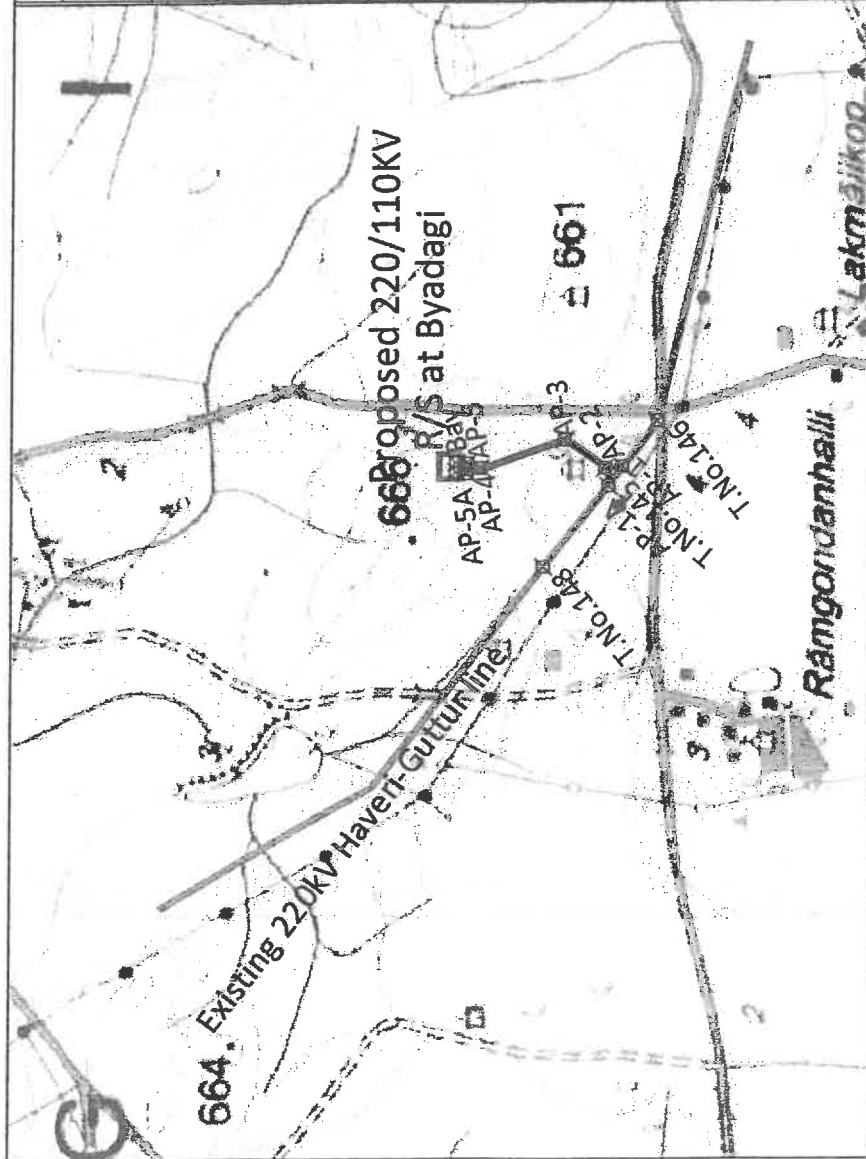
  
Assistant Executive Engineer Ele.,  
Major Works Sub - Division  
KPTCL, Haveri










  
Executive Engineer Ele.,  
Major Works Division  
KPTCL, Haveri

  
Superintending Engineer Ele.,  
Transmission (W&M) Circle  
KPTCL, Hubballi



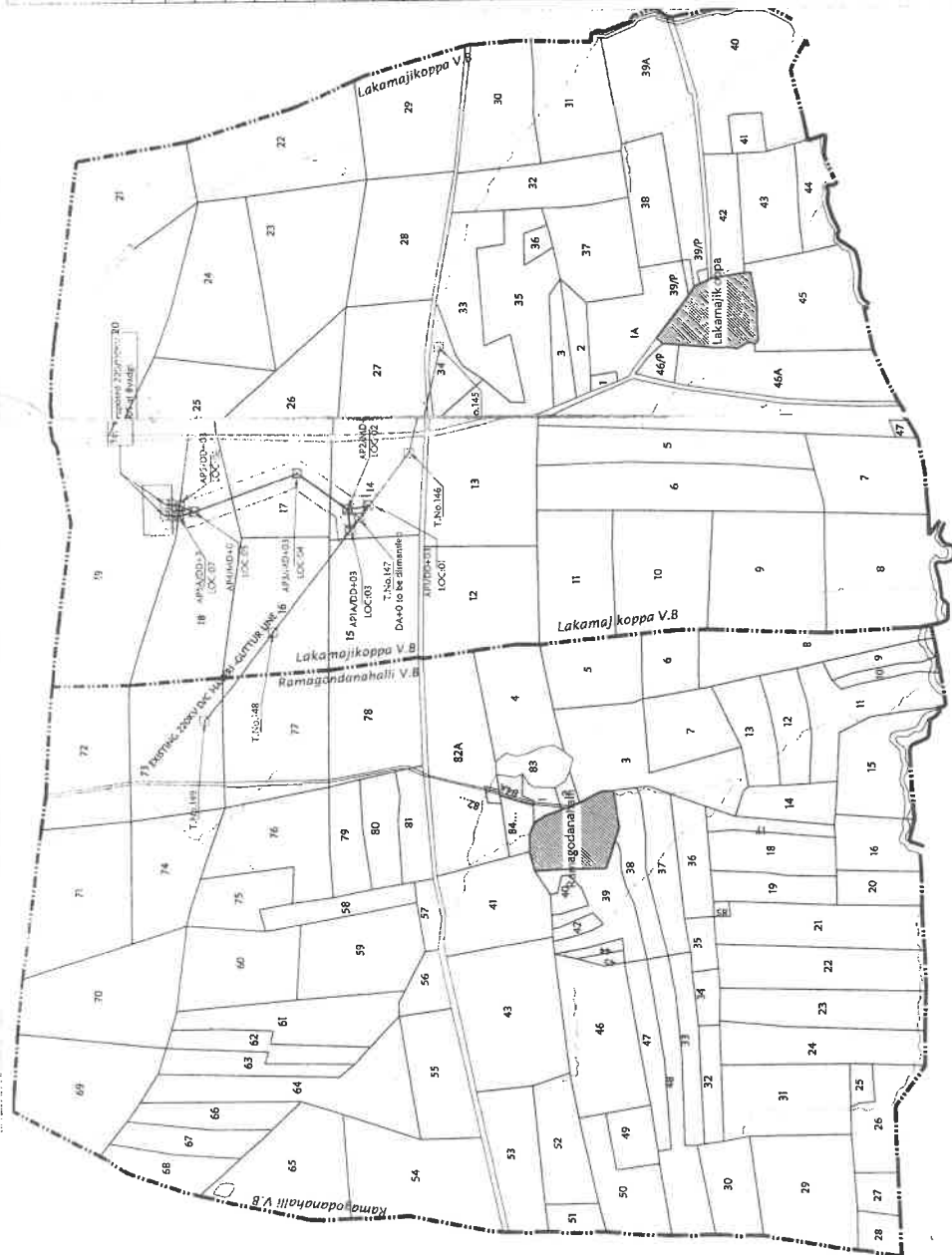




KARNATAKA POWER TRANSMISSION CORPORATION LIMITED	
NAME OF WORK :	Construction of Proposed 220KV DC LILO line on MC Towers from existing 220KV D/C Haveri-Guttur line to the proposed 220/110KV R/S at Byadagi, In Byadgi Taluk, Haveri District.
	SCALE : 1 : 25,000 Toposheet No's. : 48N6
SURVEY CONSULTANTS	 <b>M/S KARNATAKA SURVEYORS ENGINEERS AND CONTRACTORS</b> # 492, 1st Floor, 12th Cross, 15th Main Podmanabha Nagar, BANGALORE - 560 070 Mobile No. : 98455 45992, 78992 95380, Ph & Fax : 080-42002084 E mail : karnatakasurvey@gmail.com
	Proposed 220KV LILO line Route Length = 0.752 Kms
	Existing 220KV Haveri-Guttur DC line
	Proposed 220/110KV R/S at Byadagi
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p>Assistant Executive Engineer Ele., Major Works Sub-Division KPTCL., Haveri</p> </div> <div style="width: 45%;">  <p>Assistant Executive Engineer Ele., Major Works Sub-Division KPTCL., Haveri</p> </div> </div>	
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p>Executive Engineer Ele., Major Works Division KPTCL., Haveri</p> </div> <div style="width: 45%;">  <p>Superintending Engineer Ele., Transmission (W&amp;M) circle, KPTCL., Hubballi</p> </div> </div>	







# LEGEND

Survey No. Boundary	
Survey Nos.	130
Road	
Canal Track	
Footpath	
Tank	
Streams	
Nala	
Village Boundary	
Route Line	
Proposed Towers	
220KV line corridor = 35 Mts	

NOTE:-  
1) ALL DIMENSIONS AND LEVELS ARE IN METRES.

CLIENT	Karnataka Power Transmission Corporation Limited		
TITLE	Construction of Proposed 220KV DCLIO line on MC Tower from station 230KV/DC Hosur-Cuttur line to the proposed 220KV/DC at Boudgi in Boudgi Taluk, Hosur District.		
SURVEY CONSULTANTS	<p><b>KARNATAKA SURVEYORS</b> Sheet No. 01 ENGINEERS &amp; CONTRACTORS #1/3, 1st Floor, T. Narasimha Reddy, Hosur Hosur-571 302 Tel: 0822-2301111, 2301112, 2301113 Fax: 0822-2301114 Email: karnatasurveyors@gmail.com</p> <p><b>Surveyed by</b> [Signature] [Name] [Designation] [Firm Name]</p>		
REVISION	12/NOV/2021	ACTUAL SCALE 1:1000	REV
<p><b>Approved</b> [Signature] [Name] [Designation] [Firm Name]</p> <p><b>Approved</b> [Signature] [Name] [Designation] [Firm Name]</p>			





**Karnataka Power Transmission Corporation Limited**

## **DETAILED SURVEY REPORT FOR**

**Construction of Proposed 110KV DC line on MC Towers from proposed 220/110KV R/S at Byadagi to the Existing 110/11KV S/S at Byadagi, in Byadagi Taluk, Haveri District.**

**ROUTE LENGTH=7.984KMS**

### **SURVEY CONSULTANTS**

**KARNATAKA SURVEYORS  
No.492, 1<sup>st</sup> Floor, 12<sup>th</sup> Cross  
15<sup>th</sup> Main, Padmanabha Nagar  
Bangalore-560070**

**Tel: +91-80-42002084, Mob: 9845545992/7899258380  
e-mail: karnatakasurveys@gmail.com**



**KARNATAKA POWER TRANSMISSION CORPORATION LIMITED**

Name of Project: Construction of Proposed 110kV DC line on MC Towers from proposed 220/110KV R/S at Byadgi to the Existing 110/11KV S/S at Byadgi, in Byadgi Taluk, Haveri District.

**SURVEY CONSULTANTS: KARNATAKA SURVEYORS, BANGALORE**

**CONTENTS**

<b>SL No.</b>	<b>Description</b>	<b>Page No.</b>
1	Topo Map (Scale=1:50,000)	1
2	Tower Schedule and Abstract of Towers	2-4
3	Soil Resistivity Report	5
4	Line Schedule and Abstract of Lines	6-8
5	Tree Schedule and Abstract of Trees	9-11
6	Route Sketch	12
7	Soil Classification and Abstract of Foundation	13-16
8	Kaveri Online (as per guidelines)	17-19
9	Corridor Area As per Guideline Cost	20-21
10	Tower foot Area As per Guideline Cost	22-24
11	Detailed of Land Schedule along the Right of Way, Revenue Survey Numbers	25
12	Digitized Village Map, with Geo Referenced and Super Imposed on the Line Corridor	26
13	Route Profile	27







# KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

NAME OF WORK:

Construction of Proposed 110kV DC line on MC Towers from Proposed 220/110kV R/S at Byadagi to the Existing 110/11kV S/S at Byadagi, In Byadagi Taluk, Haveri District.

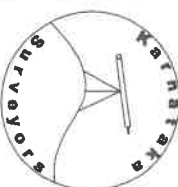
SCALE : 1 : 50,000

Toposheet No's. : 48N6/48N10 (First Edition 2010)



NORTH

SURVEY CONSULTANTS



**M/S KARNATAKA SURVEYORS ENGINEERS AND CONTRACTORS**  
# 492, 1st Floor, 12th Cross, 15th Main  
Padmanabha Nagar, BANGALORE - 560 075  
Mobile No. : 98455 45992, 78992 58360,  
E mail : karnatakasurvey@gmail.com



Proposed Route Length = 7.984 Kms

Proposed 220/110kV R/S at Byadagi

Existing 110/11kV S/S at Byadagi

Assistant Engineer Ele

Major Works Sub-Division

KPTCL, Haveri

Assistant Executive Engineer Ele

Major Works Sub-Division

KPTCL, Haveri

Executive Engineer Ele

Major Works Division

KPTCL, Haveri

Superintending Engineer Ele

Transmission (W&M) circle,

KPTCL, Hubballi



# KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

Name of Project: Construction of Proposed 110KV DC line on MC Towers from proposed 220/110KV R/S at Byadagi to the Existing 110/11KV S/S at Byadagi, in Byadagi Taluk, Haveri District.

Survey Consultants:- Karnataka Surveyors, Bangalore

## TOWER SCHEDULE

TOWER SCHEDULE																			ROUTE LENGTH=7.984KMS									
Sl. No	AP No.	Tower Type	Deviation Angle (DMS)	Span (m)	Section Length (m)	Cum. Chainage (m)	Wind Span (m)			Adjacent Span			Weight Span (Cold)			Weight Span (Hot)			Major Crossings / Remarks (With in ROW)	UTM Coordinates (Zone - 43Q)			Spherical Coordinates		Tower Survey Nos	Village Limits		
							Left	Right	Total	Left	Right	Total	Left	Right	Total	Left	Right	Total		Easting	Northing	Elevation	Longitude	Latitude				
0		Gantry	Bay				20.0	0.0	40.0	40.0	0.0	41.2	0.0	41.2	41.2	0.0	33.7	33.7	Bay at proposed 220/110KV R/S at Byadagi	5,52,388.790	16,19,181.518	633.419	75°29'11.42" E	14°38'44.06" N	19	Lakamajikoppa		
1				40.0		40.0																						
2	AP1	DD+00	26°44'30" RT		40.0	40.0	39.5	40.0	39.0	79.0	-1.2	41.2	6.3	33.5	39.9					5,52,428.787	16,19,181.035	633.119	75°29'12.76" E	14°38'44.04" N	19	Lakamajikoppa		
3				39.0		79.0																						
4	AP2	MD+00	00°55'44" RT		39.0	39.0	70.0	39.0	101.0	140.0	-2.2	81.8	79.6	5.5	70.7	76.2		MC Tower starts	5,52,463.765	16,19,162.877	632.819	75°29'13.93" E	14°38'43.45" N	19	Lakamajikoppa			
5				101.0														33KV Line (EC=5.0M), Tar Road from Lakmagikopp, 11KV Line(EC=6.6M)										
6	AP3	MC+00	10°13'59" LT		101.0	180.0	167.0	101.0	233.0	334.0	19.2	6.0	25.2	30.3	45.1	75.4			5,52,552.739	16,19,114.844	631.699	75°29'16.90" E	14°38'41.88" N	25	Lakamajikoppa			
7	3/1	MA+00		233.0		413.0	231.5	233.0	230.0	463.0	227.0	71.3	298.3	187.9	86.8	274.7			5,52,773.979	16,19,042.403	640.807	75°29'24.29" E	14°38'39.50" N	24	Lakamajikoppa			
8	3/2	MA+00		230.0		643.0	232.5	230.0	235.0	465.0	158.7	169.6	328.3	143.2	151.1	294.4		Cart Track	5,52,992.561	16,18,970.833	644.362	75°29'31.59" E	14°38'37.16" N	24	Lakamajikoppa			
9	3/3	MA+00		235.0		878.0	232.5	235.0	230.0	465.0	65.4	158.9	224.4	83.9	143.4	227.3			5,53,215.903	16,18,897.704	640.033	75°29'39.05" E	14°38'34.76" N	22	Lakamajikoppa			
10	AP4	MD+00	29°52'24" LT	230.0	928.0	1,108.0	236.5	230.0	243.0	473.0	71.1	126.4	197.5	86.6	124.7	211.3			5,53,434.483	16,18,826.135	636.457	75°29'46.36" E	14°38'32.42" N	326	Kadaramadalagi			
11	4/1	MA+03		243.0		1,351.0	249.0	243.0	255.0	498.0	116.6	178.8	295.4	118.3	160.7	279.0		LT Line(EC=9.0M), Cart Track, 11KV Line(EC=4.8M)	5,53,672.192	16,18,875.550	633.033	75°29'54.31" E	14°38'34.01" N	322, 326	Kadaramadalagi			
12	4/2	MA+00		250.0		1,606.0	252.5	255.0	250.0	505.0	76.2	111.5	187.7	94.3	116.3	210.6			5,53,921.855	16,18,927.450	631.401	75°30'02.66" E	14°38'35.68" N	322	Kadaramadalagi			
13	4/3	MA+00		265.0		1,856.0	257.5	250.0	265.0	515.0	138.5	83.4	221.9	133.7	100.8	234.5		LT Line (EC=4.9M)	5,54,166.622	16,18,978.333	632.595	75°30'10.84" E	14°38'37.32" N	320	Kadaramadalagi			
14	AP5	MD+06	53°36'02" LT	271.0	1,013.0	2,121.0	268.0	265.0	271.0	536.0	181.6	113.5	295.1	164.2	121.3	285.5			5,54,426.071	16,19,032.267	631.199	75°30'19.52" E	14°38'39.06" N	317	Kadaramadalagi			
15	5/1	MA+06		285.0		2,392.0	278.0	271.0	285.0	556.0	157.5	305.4	462.9	149.7	247.7	397.4		Nala	5,54,539.230	16,19,278.791	633.307	75°30'23.32" E	14°38'47.07" N	316	Kadaramadalagi			
16	AP6	MC+00	25°58'32" LT	285.0	556.0	2,677.0	285.0	285.0	285.0	570.0	-20.4	137.0	116.6	37.3	139.0	176.2		LT Line 2nos(EC=4.1, 4.1M)	5,54,658.122	16,19,537.805	622.884	75°30'27.31" E	14°38'55.49" N	314	Kadaramadalagi			
17	6/1	MA+03		285.0		2,962.0	287.5	285.0	290.0	575.0	148.0	168.8	316.8	146.0	160.4	306.4		LT Line 4nos(EC=6.8, 3.9, 5.9, 6.9 M)	5,54,651.552	16,19,823.032	620.435	75°30'27.12" E	14°39'04.78" N	338	Kadaramadalagi			
18	6/2	MA+03		290.0		3,252.0	290.0	290.0	290.0	580.0	121.2	109.5	230.6	129.6	122.0	251.6		LT Line(EC=8.3M), Cart Track, 11KV Line(EC=6.2M), Tar Road from Byadagi to Kadaramadalagi	5,54,644.874	16,20,112.945	617.991	75°30'26.91" E	14°39'14.21" N	339	Kadaramadalagi			
19	6/3	MA+03		275.0		3,542.0	282.5	290.0	275.0	565.0	180.5	139.2	319.7	168.0	138.6	306.5		11KV Line(EC=3.5M)	5,54,638.196	16,20,402.868	621.638	75°30'26.71" E	14°39'23.65" N	24	Kadaramadalagi			
20	6/4	MA+03		280.0		3,817.0	277.5	275.0	280.0	555.0	135.8	180.5	316.3	136.4	166.1	302.6			5,54,631.863	16,20,677.795	621.475	75°30'26.52" E	14°39'32.60" N	25	Kadaramadalagi			
21	6/5	MC+00	00°00'00"	280.0	280.0	4,097.0	280.0	280.0	280.0	560.0	99.5	141.5	241.1	113.9	141.0	254.8		Section Tower	5,54,625.415	16,20,957.731	620.467	75°30'26.33" E	14°39'41.71" N	28	Kadaramadalagi			
22	6/6	MA+00		285.0		4,377.0	282.5	280.0	285.0	565.0	138.5	83.7	222.2	139.0	104.5	243.5			5,54,618.967	16,21,237.647	620.317	75°30'26.13" E	14°39'50.82" N	29	Kadaramadalagi			
23	6/7	MA+03		280.0		4,662.0	282.5	285.0	280.0	565.0	201.3	158.2	359.5	180.5	151.8	332.3		Cart Track	5,54,612.404	16,21,522.581	623.245	75°30'25.93" E	14°40'00.10" N	36	Kadaramadalagi			
24	6/8	MA+00		260.0		4,942.0	270.0	280.0	260.0	540.0	121.8	191.7	313.4	128.2	169.8	298.1			5,54,605.956	16,21,802.497	624.439	75°30'25.74" E	14°40'09.21" N	123	Kadaramadalagi			
25	6/9	MA+00		280.0		5,202.0	270.0	260.0	280.0	540.0	68.3	126.7	195.0	90.2	131.4	221.6			5,54,599.969	16,22,062.428	618.767	75°30'25.56" E	14°40'17.67" N	122	Hyadagi			







**KARNATAKA POWER TRANSMISSION CORPORATION LIMITED**

**Name of Project: Construction of Proposed 110KV DC line on MC Towers from proposed 220/110KV R/S at Byadagi to the Existing 110/11KV S/S at Byadagi, in Byadagi Taluk, Haveri District.**

**Survey Consultants:- M/s. Karnataka Surveyors, Bengaluru.**

**ABSTRACT OF TOWERS**

**Proposed 110KV D/C Towers (M/s Kalpatharu Design adopted for AEQUS Project)**

SL. NO	Tower Type \ Extn	+0	+3	+6	+9	+12	Total
1 ✓	DD	2+1*	0	-	-	-	3 ✓
<b>Total</b>							<b>3 Nos</b>

**Proposed 110KV MC Tower M/s.CPRI Design**

1	MA	20 ✓	8 ✓	2 ✓	-	-	20 ✓
2	MC	4 ✓	-	1 ✓	-	-	4 ✓
3	MD	6 ✓	-	1 ✓	-	1 ✓	6 ✓
<b>Total</b>							<b>30 Nos ✓</b>

**Proposed 110KV NBT DC Tower M/s.KPTCL Design**

1	DD	3	1 ✓	-	-	1 ✓	3 ✓
2	DD with 3rd cross arm	1 ✓	-	-	-	1 ✓	1 ✓
<b>Total</b>							<b>4 Nos ✓</b>
<b>Grand Total</b>							<b>37 Nos ✓</b>

**Existing 110KV DC Tower to be dismantled**

1	DA	6	-	-	-	-	6
<b>Total</b>							<b>6 Nos</b>

**Note:- 1) Minor Deviation if any due to way leave Problem that may arise during the execution of the work may be incorporated accordingly.**

**\* Extra 1 number 'DD+0' type tower has been added in the abstract of towers for future use or if any modifications required at Proposed 220KV R/S end. Since the bay orientation as not been finalised yet.**



**For Karnataka Surveyors**

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Major Works Sub-Division  
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**Superintending Engineer Ele.,  
Transmission (W&M) Circle  
KPTCL, Hubballi**





## SOIL RESISTIVITY REPORT

**Name of Project:** Construction of Proposed 110KV DC line on MC Towers from proposed 220/110KV R/S at Byadagi to the Existing 110/11KV S/S at Byadagi, in Byadagi Taluk, Haveri District.

**Client-**Karnataka Power Transmission Corporation Limited

**Survey Consultants:-** M/s Karnataka Surveyors, Bangaluru.

SI No.	Cumulative Chainage in mts	Soil Encountered	Earth Resistance in ohms	Soil Resistivity in ohms-cms	Remarks
1	0	Red Soil	0.93	29202	Near proposed 220/110KV R/S at Byadagi
2	2661	Red Soil	0.90	28260	Near AP6
3	5322	Red Soil	0.85	26690	Near AP6/9
4	7984	Red Soil	0.88	27632	Near Existing 110/11KV S/S at Byadgi
Total				111784	

Average soil resistivity =  $\frac{111784}{4} = 27946$  Ohms -Cms

Formula used =  $2\pi rl$

Where 'l' spacing between electrodes = 5000cms

'r' is earth resistance in ohms.

$\pi = 3.14$



For Karnataka Surveyors

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## LINE SCHEDULE

**Name of Project: Construction of Proposed 110kV DC line on MC Towers from proposed 220/110KV R/S at Byadagi to the Existing 110/11KV S/S at Byadagi, in Byadagi Taluk, Haveri District.**

**Client : Karnataka Power Transmission Corporation Limited**

**Surveyors : Karnataka Surveyors,Bangalore.**

Sl No.	Chainage in mts	Name of the Power /Tele line	Voltage in class	Height of line in mts	Remarks
<b>BAY To AP-1</b>					
<b>NIL</b>					
<b>AP-1 To AP-2</b>					
<b>NIL</b>					
<b>AP-2 To AP-3</b>					
1	10	33KV Line	33KV	8.5	
2	58	11KV Line	11KV	7.5	
<b>AP-3 To AP-4</b>					
<b>NIL</b>					
<b>AP-4 To AP-5</b>					
1	262	LT Line	400V	6.5	
2	378	11KV Line	11KV	7.5	
3	822	LT Line	400V	6.5	
<b>AP-5 To AP-6</b>					
<b>NIL</b>					
<b>AP-6 To AP-7</b>					
1	105	LT Line	400V	6.5	
2	130	LT Line	400V	6.5	
3	330	LT Line	400V	6.5	
4	415	LT Line	400V	6.5	
5	518	LT Line	400V	6.5	
6	538	LT Line	400V	6.5	
7	618	LT Line	400V	6.5	
8	830	11KV Line	11KV	7.5	
9	1005	11KV Line	11KV	7.5	
10	3060	33KV Line	33KV	8.5	
<b>AP-7 To AP-8</b>					
<b>NIL</b>					
<b>AP-8 To AP-9</b>					
1	58	33KV Line	33KV	8.5	
<b>AP-9 To AP-10</b>					
1	342	11KV Line	11KV	7.5	
2	878	11KV Line	11KV	7.5	
3	1140	11KV Line	11KV	7.5	



Sl No.	Chainage in mts	Name of the Power /Tele line	Voltage in class	Height of line in mts	Remarks
4	1142	LT Line	400V	6.5	
5	1510	11KV Line	11KV	7.5	
<b>AP-10 To AP-11</b>					
<b>NIL</b>					
<b>AP-11 To AP-12</b>					
1	40	LT Line	400V	6.5	
<b>AP-12 To AP-13</b>					
1	38	110KV Line	110KV	21.6	Existing 110kV DC Line from Ranebennur-Byadgi Line (EC=3.1m) A/C=81°22'23", Eartwire height=21.6m
2	90	110KV Line	110KV	20.6	Proposed 110KV line from Byadagi to Proposed 110/25KV Railway Traction S/S at Devaragudda R/S (A/C=79°51'42") Earthwire to be diverted
<b>AP-13 To AP-14</b>					
<b>NIL</b>					
<b>AP-14 To BAY</b>					
<b>NIL</b>					



## ABSTRACT OF LINES

**Name of Project:** Construction of Proposed 110kV DC line on MC Towers from proposed 220/110KV R/S at Byadagi to the Existing 110/11KV S/S at Byadagi, in Byadagi Taluk, Haveri District.


**Client :** Karnataka Power Transmission Corporation Limited


**Surveyors :** M/s. Karnataka Surveyors, Bangalore.

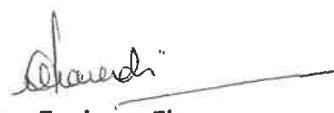
Sl.No.	Name of Power Line / Tele Line	Power Line	Tele Line	Total	Remarks
1	11KV LINE	8	-	8	
2	LT LINE	11	-	11	
3	33KV LINE	3	-	3	
4	110KV LINE	2	-	2	
			<b>Total=</b>	<b>24 Nos</b>	




For Karnataka Surveyors

  
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# KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

**Name of Project: Construction of Proposed 110kV DC line on MC Towers from proposed 220/110KV R/S at Byadagi to the Existing 110/11KV S/S at Byadagi, in Byadagi Taluk, Haveri District.**

**Survey Consultants: M/s Karnataka Surveyors, Bengaluru.**

## TREE SCHEDULE

TREE NO	NAME OF TREE	GIRTH SIZE IN MTRS	HEIGHT OF TREE IN MTS	CHINAGE IN MTRS	11M CORRIDOR FROM CENTRE LINE		REMARKS/ AREA IN M²/ Trees
					LEFT	RIGHT	
Bay To AP-1							
1	Jungle Tree	0.4	3	0-41	LEFT	RIGHT	10Nos
AP-1 To AP-2							
1	Jungle Tree	0.3	3	0-30		RIGHT	8Nos
AP-2 To AP-3							
1	Babul Tree	0.4	4	0-21	LEFT	RIGHT	6Nos
2	Neem Tree	0.5	5	40	LEFT	RIGHT	3Nos
3	Babul Tree	0.4	4	64	LEFT		
AP-3 To AP-4							
1	Babul Tree	0.4	4	13	LEFT		
2	Neem Tree	0.4	5	52	LEFT		
AP-4 To AP-5							
1	Neem Tree	0.3	3	9		RIGHT	
2	Neem Tree	0.4	4	119	LEFT		
3	Neem Tree	0.5	4	284	LEFT		2Nos
4	Neem Tree	0.45	3	358	LEFT		
5	Neem Tree	0.5	3	374	LEFT		
6	Neem Tree	0.4	4	409	LEFT	RIGHT	
7	Neem Tree	0.4	4	438	LEFT	RIGHT	
8	Neem Tree	0.5	5	620	LEFT	RIGHT	
AP-5 To AP-6							
NIL							
AP-6 To AP-7							
1	Neem Tree	0.3	4	24	LEFT	RIGHT	
2	Neem Tree	0.4	3	283		RIGHT	
3	Babul Tree	0.3	4	285	LEFT	RIGHT	
4	Jungle Tree	0.3	5	592	LEFT		2Nos
5	Jungle Tree	0.3	4	604	LEFT	RIGHT	2Nos
6	Jungle Tree	0.3	3	629	LEFT		3Nos
7	Babul Tree	0.4	4	676	LEFT		2Nos
8	Babul Tree	0.4	4	706	LEFT	RIGHT	
9	Jungle Tree	0.3	3	826	LEFT	RIGHT	2Nos
10	Jungle Tree	0.3	3	855	LEFT	RIGHT	2Nos
AP-7 To AP-8							
NIL							
AP-8 TO AP-9							
1	Neem Tree	0.8	5	33	LEFT		
2	Neem Tree	0.5	3	28		RIGHT	
3	Neem Tree	0.3	2	57		RIGHT	
4	Neem Tree	0.5	3	66	LEFT		
5	Neem Tree	0.5	3	86		RIGHT	
AP-9 TO AP-10							
1	Babul Tree	0.7	4	90	LEFT		



TREE NO	NAME OF TREE	GIRTH SIZE IN MTRS	HEIGHT OF TREE IN MTS	CHINAGE IN MTRS	11M CORRIDOR FROM CENTRE LINE		REMARKS/ AREA IN M²/ Trees
					LEFT	RIGHT	
2	Neem Tree	0.3	3	194	LEFT		
3	Babul Tree	0.5	3	244		RIGHT	
4	Babul Tree	0.7	4	314		RIGHT	
5	Neem Tree	0.3	2	371		RIGHT	
6	Neem Tree	0.3	2	432		RIGHT	
7	Babul Tree	0.8	5	502	LEFT		
8	Neem Tree	0.3	2	592		RIGHT	
9	Neem Tree	0.5	3	705	LEFT	RIGHT	
10	Neem Tree	0.7	4	803		RIGHT	
11	Neem Tree	0.5	3	905	LEFT		
12	Neem Tree	0.3	2	1025	LEFT		
13	Neem Tree	0.3	2	1141		RIGHT	
14	Neem Tree	0.5	3	1160		RIGHT	
15	Babul Tree	0.8	5	1300	LEFT		
16	Neem Tree	0.7	4	1565	LEFT		
17	Babul Tree	0.8	5	1578	LEFT	RIGHT	
18	Neem Tree	0.3	2	1606	LEFT	RIGHT	
AP-10 To AP-11							
NIL							
AP-11 To AP-12							
NIL							
AP-12 To AP-13							
1	Babul Tree	0.7	4	6		RIGHT	
2	Neem Tree	0.8	5	54		RIGHT	
3	Neem Tree	0.7	4	51		RIGHT	
4	Neem Tree	0.7	4	52	LEFT		
5	Neem Tree	0.3	2	77	LEFT		
6	Neem Tree	0.3	2	81		RIGHT	
AP-13 To AP-14							
1	Neem Tree	0.8	5	2	LEFT		
2	Neem Tree	0.5	3	9	LEFT		
AP-14 To Bay							
NIL							



**KARNATAKA POWER TRANSMISSION CORPORATION LIMITED**

**Name of Project: Construction of Proposed 110kV DC line on MC Towers from proposed 220/110KV R/S at Byadagi to the Existing 110/11KV S/S at Byadagi, in Byadagi Taluk, Haveri District.**


**Survey Consultants: M/s Karnataka Surveyors, Bengaluru.**


**Abstract of Trees**


SL.No	Name of Tree	Total number	Remarks
1	Babul Tree	19	
2	Jungle Tree	29	
3	Neem Tree	39	
	<b>TOTAL</b>	<b>87 No's</b>	

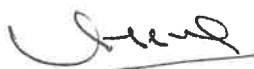


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# Name of Client: KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

Name of Project: Construction of Proposed 110kV D.C. line on MC Towers from proposed 220/110KV R/S at Byadagi to the Existing 110/11KV S/S at Byadagi, in Byadagi Taluk, Haveri District.

Survey Consultants:- M/s Karnataka Surveyors, Bengaluru.

## SOIL CLASSIFICATION REPORT

Sl. No	AP NOS	TYPE OF TOWER	Deviation Angle (DMS)	Span in(m)	Cum. Chainage in (m)	Normal Soil	B.C. Soil	Gravel/DFR	WBC SOIL	Soft Rock SFR	Hard Rock HR	P.S	F.S	Total Depth in Mtrs	Provisional Foundation
0	Gantry	Bay		-	-										
				40.0											
1	AP1	DD+00	26°44'30" RT		40.0	0.8		1.5		0.5	0.2			3	DFR
				39.0											
2	AP2	MD+00	00°55'44" RT		39.0	0.7		1.8		0.5				3	DFR
				101.0											
3	AP3	MC+00	10°13'59" LT		101.0	0.5		0.5	1.7	0.3				3	WBC
				233.0											
4	3/1	MA+00				0.9		1.3		0.3	0.5			3	DFR
				230.0											
5	3/2	MA+00				0.5		1.6		0.5	0.4			3	DFR
				235.0											
6	3/3	MA+00				0.40		1.8		0.5	0.3			3	DFR
				230.0											
7	AP4	MD+00	29°52'24" LT		928.0	0.8		1.6		0.5	0.1			3	DFR
				243.0											
8	4/1	MA+03				0.9		1.3		0.5	0.3			3	DFR
				255.0											
9	4/2	MA+00				0.5		0.8		1.6	0.1			3	SPR
				250.0											
10	4/3	MA+00				0.8		1.5		0.4	0.3			3	DFR
				265.0											
11	AP5	MD+06	53°36'02" LT		1,013.0	1		1.1		0.6	0.3			3	DFR





[illegible]



Sl. No	AP NOS	TYPE OF TOWER	Deviation Angle (DMS)	Span in (m)	Cum. Chainage in (m)	Normal Soil	B.C. Soil	Gravel/DFR	WBC SOIL	Soft Rock SFR	Hard Rock HR	P.S	F.S	Total Depth in Mtrs	Provisionat Foundation
28	9/2	MA+00				0.7		0.7		1.6				3	SFR
29	9/3	MA+03		275.0		0.9		0.6		1.3	0.2			3	SFR
30	9/4	MA+00		275.0		0.5		1.8		0.4	0.3			3	DFR
31	9/5	MA+06		275.0		0.8		1.9		0.2	0.1			3	DFR
32	AP10	MD+00	62°29'27" LT	277.0	1,657.0	0.5		0.6	1.2	0.4	0.3			3	WBC
33	AP11	DD+03 NBT	06°39'39" RT	24.0	24.0	0.7		0.3	1.5	0.5				3	WBC
34	AP12	DD+12 NBT	18°52'06" RT	86.0	86.0	0.8		0.3	1.2	0.5	0.2			3	WBC
35	AP13	DD+12 NBT with 3rd cross arm	86°42'25" LT	104.0	104.0	0.4		0.3	1.6	0.4	0.3			3	WBC
36	AP14	DD+00 NBT	02°18'03" RT	98.0	98.0	0.7		0.4	1.4	0.5				3	WBC
	BAY	Gantry		23.0											
*Extra 1 number 'DD+0' type tower has been added in the abstract of towers for future use or if any modifications required at Proposed 220KV R/S end. Since the bay orientation as not been finalised yet.															
37	*	DD+0				0.8		0.4	1.1	0.4	0.3			3	WBC
						25.30	0.00	39.70	14.20	22.30	7.30	0.00	0.00	111.00	



For Karnataka Surveyors

*[Signature]*

Assistant Engineer Ele.,  
Major Works Sub - Division  
(KPTCL., Haveri)

*[Signature]*

Assistant Executive Engineer Ele.,  
Major Works Sub - Division  
KPTCL., Haveri

*[Signature]*

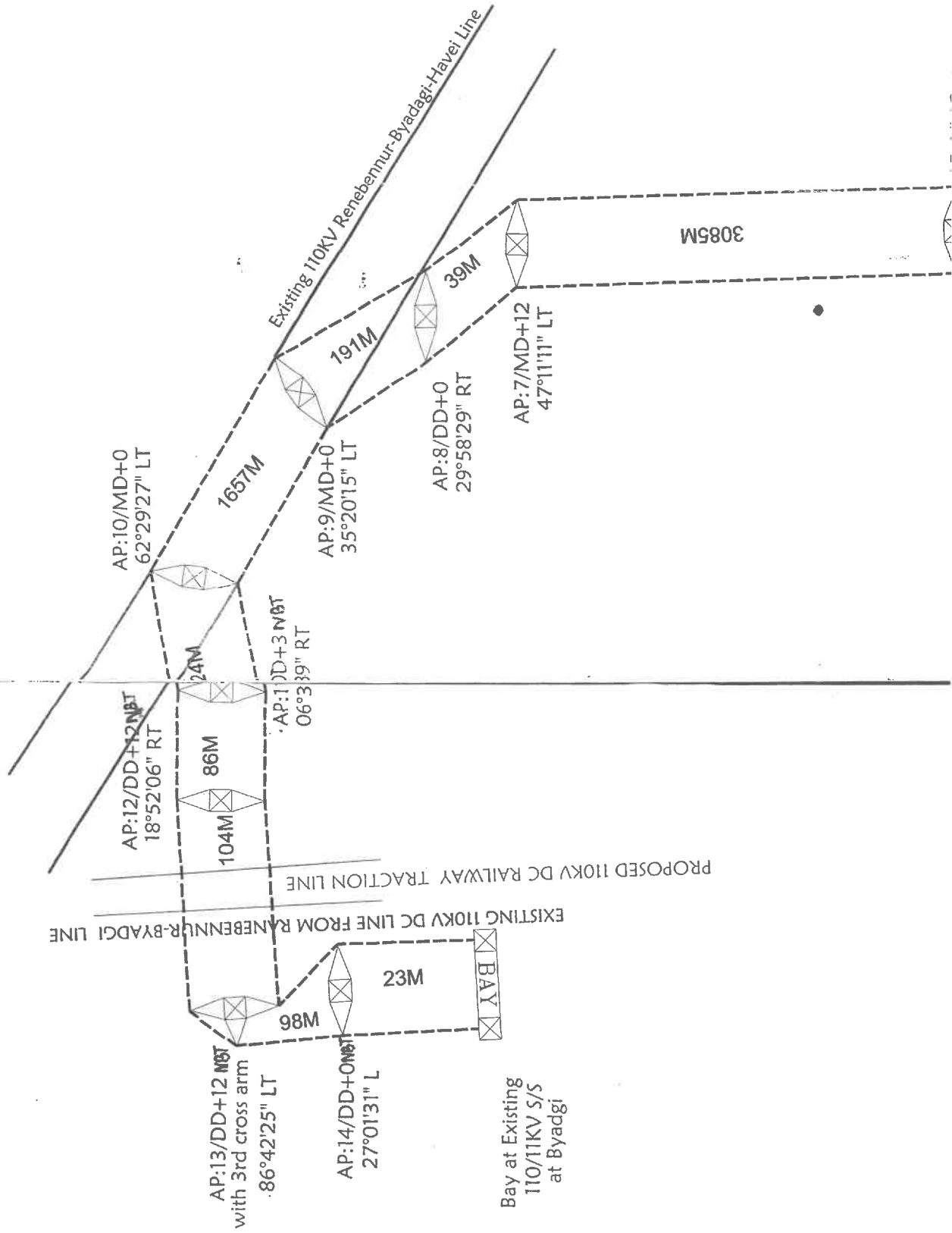
Executive Engineer Ele.,  
Major Works Division  
KPTCL., Haveri

*[Signature]*

Superintending Engineer Ele.,  
Transmission (W & M) Circle  
KPTCL., Hubballi



NAME OF PROJECT: CONSTRUCTION OF PROPOSED 110KV S/S AT BYADGI, IN BYADGI TALUK, HAVERI DISTRICT.





**Name of Client: KARNATAKA POWER TRANSMISSION CORPORATION LIMITED**

**Name of Project: Construction of Proposed 110kV DC line on MC Towers from proposed 220/110KV R/S at Byadagi to the Existing 110/11KV S/S at Byadagi, in Byadagi Taluk, Haveri District.**

**Survey Consultants:- M/s Karnataka Surveyors, Bengaluru.**

**ABSTRACT OF FOUNDATION**

SL NO	TYPE OF FOUNDATION	NOS
1	WET BLACK COTTON SOIL ( BC SOIL )	11
2	DRY FISSUED ROCK (DFR)	20
3	SOFT FISSUED ROCK (SFR)	6
	<b>TOTAL</b>	<b>37 Nos</b>

Note: The above report is provisional and is subject to variation depending upon the place of excavation.



For Karnataka Surveyors

*[Signature]*  
Assistant Engineer Ele.,  
Major Works Sub - Division  
KPTCL., Haveri

*[Signature]*  
Assistant Executive Engineer Ele.,  
Major Works Sub - Division  
KPTCL., Haveri

*[Signature]*  
Executive Engineer Ele.,  
Major Works Division  
KPTCL., Haveri

*[Signature]*  
Superintending Engineer El.,  
Transmission (W & M) Circle  
KPTCL., Hubballi





Valuation Details

☐ Basic Search ☒ Advance Search

Districts\*

Haveri

Registration District\*

Haveri

SRO Office\*

Byadagi

Area Name\*

Byadgi

Taluka :

Byadagi

Village Name \*

Byadagi Grama

Hobil \*

Byadagi Hobli

Please enter first 3 letters to populate area automatically.

Property Usage Type\*

Agriculture

Total Area\*

1

Measurement Unit\*

Acre

Display Valuation

Agriculture Rate Details			
	Property Type	Unit	Rate (₹)
1	<input type="radio"/> Dry, No Source of Irrigation, Black Soil	Acre	7,80,000.00
2	<input type="radio"/> Dry, No Source of Irrigation, Red Soil	Acre	7,00,000.00
3	<input type="radio"/> Dry, No Source of Irrigation, Other	Acre	0.00
4	<input type="radio"/> Bagayat, Dry	Acre	9,00,000.00
5	<input type="radio"/> Dry, No Source of Irrigation, Loamy Soil	Acre	0.00
6	<input type="radio"/> Wet (Assured Water Supply from Government Tanks/Canals), One Crop	Acre	8,10,000.00
7	<input type="radio"/> Dry Agriculture Land, Irrigated By Bore / Well / Pumpset, Other Soil	Acre	8,50,000.00
Valuation On Basic Rate			0
Page 1 of 1			7 record(s) found



Valuation Details

Basic Search Advance Search

Districts\*

Registration District\*

SRO Office\*

Area Name\*

Taluka :

Village Name \*

Hobli \*

Please enter first 3 letters to populate area automatically.

Property Usage Type\*

Total Area\*

Measurement Unit\*

Display Valuation

Agriculture Rate Details

	Property Type	Unit	Rate (₹)
1	<input type="radio"/> Dry, No Source of Irrigation, Black Soil	Acre	2,80,000.00
2	<input type="radio"/> Dry, No Source of Irrigation, Red Soil	Acre	2,30,000.00
3	<input type="radio"/> Dry, No Source of Irrigation, Other	Acre	0.00
4	<input type="radio"/> Bagayat, Dry	Acre	4,20,000.00
5	<input type="radio"/> Dry, No Source of Irrigation, Loamy Soil	Acre	0.00
6	<input type="radio"/> Wet (Assured Water Supply from Government Tanks/Canals), One Crop	Acre	3,10,000.00
7	<input type="radio"/> Dry Agriculture Land, Irrigated By Bore / Well / Pumpset, Other Soil	Acre	3,50,000.00
4			



Valuation Details

Basic Search Advance Search

Districts\* Haveri

Registration District\* Haveri

SRO Office\* Byadagi

Area Name\* Lakamajikoppa

Taluka : Byadagi

Village Name \* Lakmajikoppa

Hobli \* Byadagi Hobli

Please enter first 3 letters to populate area automatically.

Property Usage Type\* Agriculture

Total Area\* 1

Measurement Unit\* Acre

Display Valuation

Agriculture Rate Details

	Property Type	Unit	Rate (₹)
1	<input type="radio"/> Dry, No Source of Irrigation, Black Soil	Acre	1,90,000.00
2	<input type="radio"/> Dry, No Source of Irrigation, Red Soil	Acre	1,60,000.00
3	<input type="radio"/> Dry, No Source of Irrigation, Other	Acre	0.00
4	<input type="radio"/> Bagayat, Dry	Acre	2,70,000.00
5	<input type="radio"/> Dry, No Source of Irrigation, Loamy Soil	Acre	0.00
6	<input type="radio"/> Wet (Assured Water Supply from Government Tanks/Canals), One Crop	Acre	2,00,000.00
7	<input type="radio"/> Dry Agriculture Land, Irrigated By Bore / Well / Pumpset, Other Soil	Acre	2,30,000.00



**Karnataka Power Transmission Corporation Limited**

**Survey Consultants: M/s Karnataka Surveyors - Bengaluru.**

Name of Project: Construction of Proposed 110kV DC line on MC Towers from proposed 220/110kV R/S at Byadagi to the Existing 110/11KV S/S at Byadagi, in Byadagi Taluk, Haveri District.
Name of Project: Construction of Proposed 110kV DC line on MC Towers from proposed 220/110kV R/S at Byadagi to the Existing 110/11KV S/S at Byadagi, in Byadagi Taluk, Haveri District.

Corporate Circular No.: KPTCL/SA8/B7/19105/15-16 Dated: 23.01.2019

**Length of the Line: 7.984 Kms.**

## Corridor Area as per Guideline Cost

[illegible]





3	Byadagi Village Limits:								
	Length of the Line (in Km):		3.073	Kms.					
	Line Corridor Area								
		Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Guidance Value (in Rs.):		900000.00	Per Acre (App. ox.)
		3073	22	67606	16.70521				
	Calculation	Area in Acres	Guidance value/Acre	% on Guidance value					
		16.71	900000.00	15			2255203.85		

Grand Total for Line Corridor Area

Length of the Line [in Km.]

Land Compensation for Corridor Area [in Rs.]

7.984

3808307.64



# Karnataka Power Transmission Corporation Limited

Survey Consultants: M/s Karnataka Surveyors, Bengaluru.

Name of Project: Construction of Proposed 110kV DC line on MC Towers from proposed 220/110KV R/S to Byadagi to the Existing 110/11KV S/S at Byadagi, in Byadagi Taluk, Haveri District.

Corporate Circular No.: KPTCL/SA8/B7/19105/15-16 Dated: 23.01.2019

Length of the Line: 7.984 Kms.

## Tower Foot Area as per Guideline Cost

A Lakamajikoppa limits

### Tower Footing Area

SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount
Proposed 110KV D/C Towers (M/s Kalpatharu Design adopted for AEQUS Project)								
1	DD+0	1	30.25	0.007	0.007	270000	229500	1715.44
110KV MC Tower M/s.CPRI Design								
2	MA+0	3	36.00	0.009	0.027	270000	229500	6124.54
3	MC+0	1	46.24	0.011	0.011	270000	229500	2622.21
4	MD+0	1	60.84	0.015	0.015	270000	229500	3450.16
		6		Total	0.061			13912.34

B Kadaramandalagi Village Limits:

### Tower Footing Area

	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount
	110KV MC Tower M/s.CPRI Design							
1	MA+0	4	36.00	0.009	0.036	420000	357000	12702.74
2	MA+3	6	46.24	0.011	0.069	420000	357000	24473.95
3	MA+6	1	57.76	0.014	0.014	420000	357000	5095.21
4	MC+0	2	46.24	0.011	0.023	420000	357000	8157.98
5	MD+0	1	60.84	0.015	0.015	420000	357000	5366.91
6	MD+6	1	84.64	0.021	0.021	420000	357000	7466.39
		15		Total	0.177			63263.19



C	Byadagi Village Limits:								
Tower Footing Area									
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount	
Proposed 110KV D/C Towers (M/s Kalpatharu Design adopted for AEQUS Project)									
1	*DD+0	2	30.25	0.007	0.015	900000	765000	11436.25	
Proposed 110KV NBT DC Tower M/s.KPTCL Design									
1	DD+0	1	64.00	0.016	0.016	900000	765000	12097.85	
2	DD+3	1	64.00	0.016	0.016	900000	765000	12097.85	
3	DD+12	1	64.00	0.016	0.016	900000	765000	12097.85	
4	DD+12 with 3rd cross arm	1	64.00	0.016	0.016	900000	765000	12097.85	
110KV MC Tower M/s.CPRI Design									
1	MA+0	3	36.00	0.009	0.027	900000	765000	20415.12	
2	MA+3	2	46.24	0.011	0.023	900000	765000	17481.39	
3	MA+6	1	57.76	0.014	0.014	900000	765000	10918.31	
4	MC+6	1	77.44	0.019	0.019	900000	765000	14638.40	
5	MD+0	2	60.84	0.015	0.030	900000	765000	23001.04	
6	MD+12	1	112.36	0.028	0.028	900000	765000	21239.29	
		16		Total	0.219			167521.20	

Total No. of towers in the Line [in No.]

Compensation towards Tower Footing Area [in Rs.]



## KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

Name of Project: Construction of Proposed 110KV DC line on MC Towers from proposed 220/110KV R/S at Byadagi to the Existing 110/11KV S/S at Byadagi, in Byadagi Taluk, Haveri District.

ABSTRACT		
Sl. No.	Particulars	Compensation Amount [in Rs.]
1	Line Corridor Area	3808307.64
2	Tower Footing Area	244696.73
Total cost of Land Compensation		4053004.36



For Karnataka Surveyors

*[Signature]*

Assistant Engineer Ele.,  
Major Works Sub - Division  
KPTCL, Haveri

*[Signature]*

Assistant Executive Engineer Ele.,  
Major Works Sub - Division  
KPTCL, Haveri

*[Signature]*

Executive Engineer Ele.,  
Major Works Division  
KPTCL, Haveri

*[Signature]*

Superintending Engineer Ele.,  
Transmission (W&M) Circle  
KPTCL, Hubballi





# REVENUE SURVEY NUMBERS OF TRANSMISSION ROUTE ALIGNMENT

Name of Project: Construction of Proposed 110kV DC line on MC Towers from proposed 220/110KV R/S at Byadagi to the Existing 110/11KV S/S at Byadagi, in Byadagi Taluk, Haveri District.

Client : M/s KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

Surveyors : M/S KARNATAKA SURVEYORS, BANGALURU.

## REVENUE SURVEY NUMBERS

SI No.	Tower Nos.	Revenue Survey Number	Village Names	Hobli	Taluk	Dist
1	BAY TO AP1/DD+00	19				
2	AP1/DD+00 TO AP2/MD+00	19	Lakamajikoppa	Byadagi	Byadagi	Haveri
3	AP2/MD+00 TO AP3/MB+00	19, 25				
4	AP3/MB+00 TO AP4/MC+00	25, 24, 23, 22				
5	AP4/MC+00 TO AP5/MD+06	327, 326, 322, 320, 317	Kadaramadalagi			
6	AP5/MD+06 TO AP6/MC+00	317, 316, 315, 314				
7	AP6/MC+00 TO AP7/MD+12	314, 338, 339, 340, 25, 26, 28, 29, 35, 36, 37				
8	AP6/MC+00 TO AP7/MD+12	123, 122, 115, 117, 116, 118	Byadagi			
9	AP7/MD+12 TO AP8/DD+00	118				
10	AP8/DD+00 TO AP9/MD+00	118, 100				
11	AP9/MD+00 TO AP10/MD+00	100, 99, 98, 34, 35, 90, 89, 88, 39, 40, 41, 44, 53, 56, 52				
12	AP10/MD+00 TO AP11/DD+06	52				
13	AP11/DD+06 TO AP12/DC+12	52, 47				
14	AP12/DC+12 TO AP13/DD+12	47, 48, 49				
15	AP13/DD+12 TO AP14/DD+00	48, 49				
16	AP14/DD+00 TO BAY	48, 301				



For Karnataka Surveyors

Assistant Engineer Ele.,  
Major Works Sub-Division  
KPTCL, Haveri

Executive Engineer Ele.,  
Major Works Division  
KPTCL, Haveri

Assistant Executive Engineer Ele.,  
Major Works Sub-Division  
KPTCL, Haveri

Superintending Engineer Ele.,  
Transmission (W&M) Circle  
KPTCL, Hubballi





**Karnataka Power Transmission Corporation Limited**

**DETAILED SURVEY REPORT FOR**

**Construction of 110KV D/C line on DC/MC  
Towers from proposed 220/110KV R/S at  
Byadgi to the Existing 110/11KV S/S at  
Tiluvalli, in Byadgi Taluk, Haveri District.**

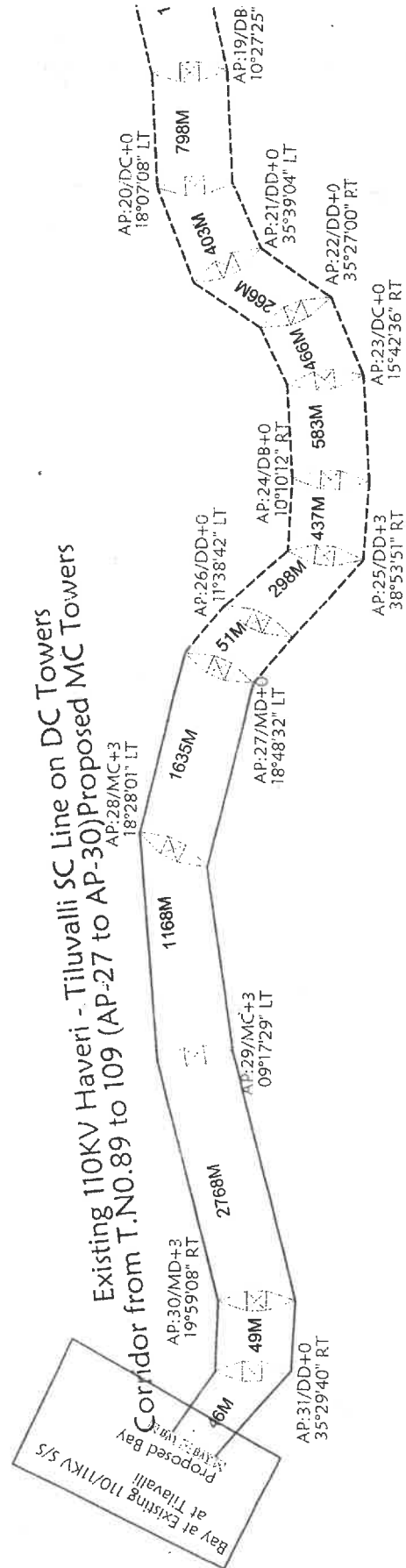
**ROUTE LENGTH=26.867KMS**

**SURVEY CONSULTANTS**

**KARNATAKA SURVEYORS**  
**No.8/5, 1<sup>st</sup> Floor, T.Thimmaiah Road**  
**Padmanabha Nagar**  
**Bangalore-560070**  
**Mob: 9845545992/7899258380**  
**e-mail: karnatakasurveys@gmail.com**

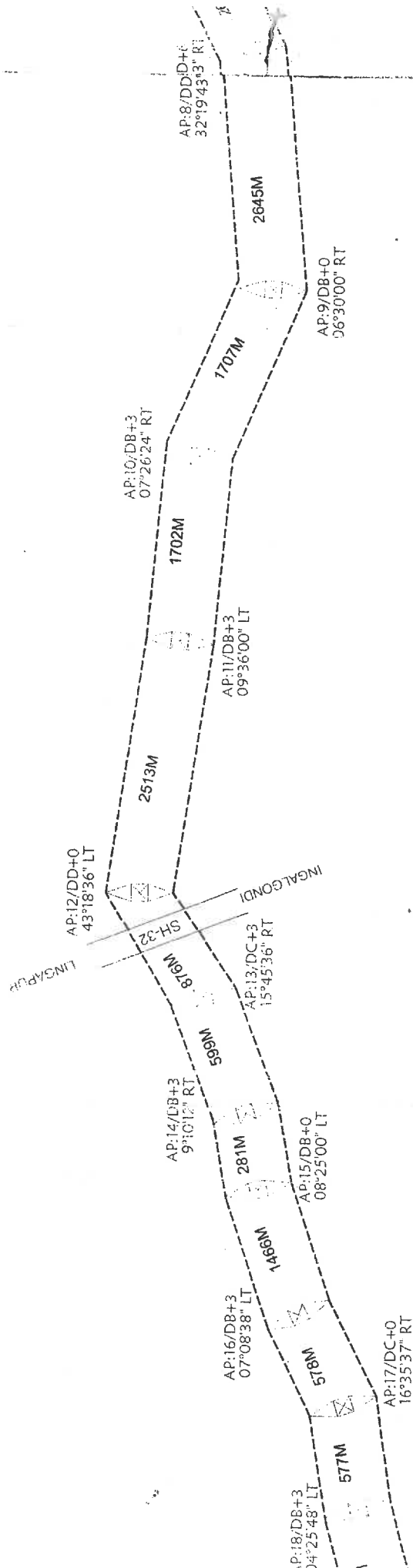


# NAME OF PROJECT: CONSTRUCTION (BYADGI TO THE EXISTING 110/11KV S/S





# PROPOSED 110KV DC LINE ON DC/MC TOWERS FROM PROPOSED AT TILUVALLI, IN BYADGI TALUK, HAVERI DISTRICT.







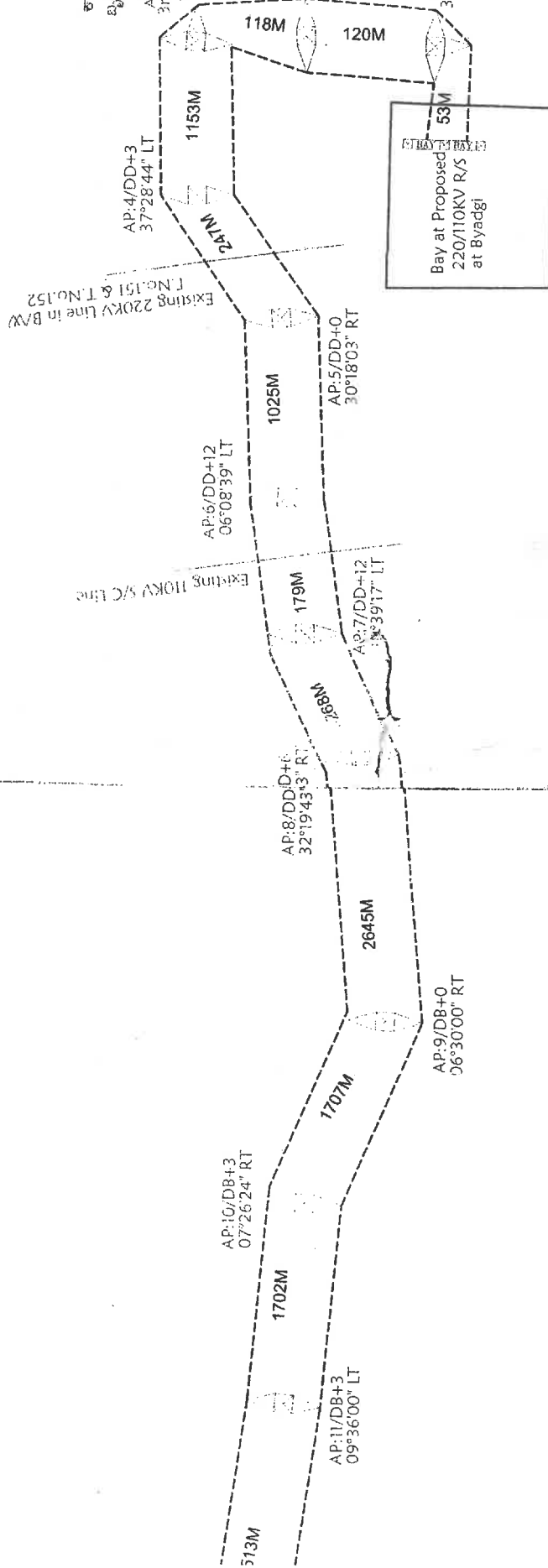
# 100% MC TOWERS FROM PROPOSED 220/110KV R/S AT HAGERI DISTRICT.

Good

ಇದರಲ್ಲಿ ಅಭಿಮತವಿರುವುದು  
ಬೃಹತ್ ಕಾರ್ಯಾಗಾರಿ ಉಪ-ವಿಭಾಗ  
ಶ.ವಿ.ಪ್ರ.ನಿ.ನಿ. ಹಾವೇರಿ.

Existing 220KV line in B/W  
T.No.151 & T.No.152

ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ವಿ)  
ಬೃಹತ್ ಕಾರ್ಯಾಗಾರಿ ವಿಭಾಗ (ಹಾವೇರಿ ಜಿಲ್ಲೆ)  
ಶ.ವಿ.ಪ್ರ.ನಿ.ನಿ. ಹಾವೇರಿ-580024.  
AP:3/DD+3 with 3rd cross arm  
93°39'59" LT



ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ವಿ)  
ಬೃಹತ್ ಕಾರ್ಯಾಗಾರಿ ವಿಭಾಗ (ಹಾವೇರಿ ಜಿಲ್ಲೆ)  
ಶ.ವಿ.ಪ್ರ.ನಿ.ನಿ. ಹಾವೇರಿ-580024.  
AP:3/DD+3 with 3rd cross arm  
93°39'59" LT

Good  
SEE Tr.(L&R)  
Hunt

NOT TO SCALE



K. S. S. S.

For Karnataka Surveyors



Name of Client: M/s KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

**Name of Project:** Construction of Proposed 110kV DC line on DC/MC Towers from proposed 220/110KV R/S at Byadgi to the Existing 110/11KV S/S at Tiluvalli, in Byadgi Taluk, Haveri District.

## TOWER SCHEDULE

**ROUTE LENGTH=26.867 KMS**

Sl. No	Twr No.	Tower Type	Deviation Angle (DMS)	Span in(m)	Section Length in(m)	Cum. Chaining in(m)	Wind Span in(m)	Adjacent Span			Weight Span (Hot)			Major Crossings / Remarks (With in ROW)	UTM Coordinates (Zone - 43P)			Spherical Coordinates		Tower Survey Nos	Village Limits	
								Left	Right	Total	Left	Right	Total		Easting	Northing	Elevation	Longitude	Latitude			
10	Bay'	Gantry		53.0			26.5	0.0	53.0	53.0	0.0	129.9	129.9	Bay at Proposed 220/110KV R/S at Byadgi	5,52,388.110	16,19,210.928	642.000	75°29'11.40" E	14°38'45.02" N	19	LakanaJikkoppa	
11	AP1	DD+00 with 3rd cross arm	81°05'10" LT		53.0		86.5	53.0	120.0	173.0	-76.9	151.3	74.4		5,52,441.146	16,19,211.950	639.000	75°29'13.18" E	14°38'45.05" N	19	LakanaJikkoppa	
12	AP2	DB+00	00°41'56" LT	120.0																		LakanaJikkoppa
13	AP3	DD+03 with 3rd cross arm	93°39'58" LT		118.0			120.0	118.0	238.0	-31.3	74.5	43.2		5,52,457.439	16,19,330.753	633.000	75°29'13.73" E	14°38'48.91" N	19	LakanaJikkoppa	
14	3/1	DB+00		100.0											5,52,472.091	16,19,448.207	629.000	75°29'14.23" E	14°38'52.73" N	16	Agasanahalli	
15	3/2	DA+05		280.0											5,52,372.276	16,19,454.214	633.143	75°29'10.89" E		16	Agasanahalli	
16	3/3	DA+03		280.0		671.0	280.0	280.0	280.0	560.0	199.9	103.6	303.5		5,52,092.782	16,19,471.036	636.322	75°29'01.55" E	14°38'53.50" N	17	Agasanahalli	
17	3/4	DB+00		210.0											5,51,813.288	16,19,487.858	644.902	75°28'52.21" E	14°38'54.07" N	18	Agasanahalli	
18	AP4	DD+03	37°28'44" LT	283.0		1,161.0	246.5	210.0	283.0	493.0	-60.3	180.3	120.0	11KV Line 2nos(EC=6M, 5.1M), Tar Road from Byadgi to Ramgondanahalli	5,51,603.667	16,19,500.474	628.891	75°28'45.20" E	14°38'54.49" N	18	Agasanahalli	
19	4/1	Dwarf Tower		105.0		1,549.0	80.0	105.0	55.0	160.0	135.7	-90.7	45.0		5,51,321.243	16,19,517.472	619.874	75°28'35.76" E	14°38'55.07" N	47	Agasanahalli	
20	4/2	Dwarf Tower		55.0										Existing 220kV Guttur-Haveri D/C Line in b/w T.No.151 'AP & 152 'DA' (EC=3.7m), A/C=86°18'56", Bottom Conductor ht=12.7M, Existing T.No.151 'DC+0' to be dismantled & replaced by DC+6rd to 110KV & 220KV Clearance above 4.58mts	5,51,234.234	16,19,458.707	627.656	75°28'32.85" E	14°38'53.16" N	71	Ramgondanahalli	
21	AP5	DD+00	30°18'03" RT	87.0		1,604.0	71.0	55.0	87.0	142.0	145.7	-103.0	42.7		5,51,188.656	16,19,427.923	631.215	75°28'31.32" E	14°38'52.16" N	71	Ramgondanahalli	
22	5/1	DA+03		245.0		1,691.0	166.0	87.0	245.0	332.0	190.0	124.6	314.6		5,51,116.802	16,19,379.394	638.194	75°28'28.91" E	14°38'50.59" N	71	Ramgondanahalli	
23	5/2	DA+03		260.0		1,936.0	252.5	245.0	260.0	505.0	120.4	107.5	227.9		5,50,872.319	16,19,363.439	634.908	75°28'20.74" E	14°38'50.08" N	70	Ramgondanahalli	
24	5/3	DA+03		255.0		2,196.0	257.5	260.0	255.0	515.0	152.5	108.8	261.3	Cart Track 2nos, 11KV Line(EC=5.6M), LT Line 2nos(EC=3.8 & 5M)	5,50,612.870	16,19,346.508	638.112	75°28'12.07" E	14°38'49.55" N	69	Ramgondanahalli	
25	AP6	DD+12	06°08'39" LT	179.0		2,451.0	260.0	255.0	265.0	520.0	146.2	114.9	261.1		5,50,358.412	16,19,329.903	640.717	75°28'03.56" E	14°38'49.03" N	31	Shivajinagara	
26															5,50,093.912	16,19,312.642	634.264	75°27'54.71" E	14°38'48.48" N	30	Shivajinagara	



Sl. No	Twr No.	Tower Type	Deviation Angle (DMS)	Span in (m)	Section Length in (m)	Cum. Chainage in (m)	Wind Span in (m)	Adjacent Span			Weight Span (Hot)			Major Crossings / Remarks (With in ROW)	UTM Coordinates (Zone - 43P)			Spherical Coordinates		Tower Survey No.	Village Limits
								Left	Right	Total	Left	Right	Total		Easting	Northing	Elevation	Longitude	Latitude		
18	A07	DO+12	18°39'17" LT		170.0	2,895.0	223.5	179.0	268.0	447.0	40.4	187.2	227.7		5,49,917.306	16,19,281.890	629.452	75°27'48.81" E	14°38'43.35" N	38	Shivajinagara
19	A08	DO+06	32°19'13" RT	268.0			264.0	268.0	260.0	528.0	80.8	165.9	246.6	Cart Track, Nala, LT Line(EC=12.9M)	5,49,682.196	16,19,154.063	627.637	75°27'40.94" E	14°38'43.35" N	40	Shivajinagara
20	B/1	DA+03		260.0		3,423.0	260.0	260.0	260.0	520.0	94.1	146.7	240.8	LT Line 2nos(EC=8.7M, 7.4M), 11KV Line(EC=5.8M)	5,49,422.765	16,19,171.277	625.529	75°27'32.27" E	14°38'43.93" N	41	Shivajinagara
21	B/2	DA+03		260.0		3,683.0	262.5	260.0	265.0	525.0	113.3	154.3	267.6	11KV Line(EC=4.6M)	5,49,163.335	16,19,108.491	623.149	75°27'23.60" E	14°38'44.50" N	63	Shidhenuru
22	B/3	DA+03		265.0		3,948.0	265.0	265.0	265.0	530.0	110.7	165.8	276.5	Tar Road from Byadgi to Hosla Sidenur, 11KV Line 2nos(EC=4.4M, 4.7M), Cart track	5,48,898.917	16,19,206.035	619.986	75°27'14.76" E	14°38'45.09" N	66	Shidhenuru
23	B/4	DA+03		265.0		4,213.0	265.0	265.0	265.0	530.0	99.2	135.6	234.8	Well	5,48,634.498	16,19,223.580	615.159	75°27'05.92" E	14°38'45.68" N	64	Shidhenuru
24	B/5	DB+03	00°00'00" RT	285.0		4,478.0	275.0	265.0	285.0	550.0	129.4	182.7	312.1	LT Line 2nos (EC=5.9M, 6.2M)	5,48,370.079	16,19,241.125	614.715	75°26'57.08" E	14°38'46.27" N	29	Shidhenuru
25	B/6	DA+00		285.0		4,763.0	285.0	285.0	285.0	570.0	102.3	143.3	245.6	Tar Road Hire Nandhalli to Hosadidenur, 11KV Line(EC=6.8M)	5,48,085.705	16,19,259.994	611.443	75°26'47.57" E	14°38'46.90" N	35	Shidhenuru
26	B/7	DA+03		280.0		5,048.0	282.5	285.0	280.0	565.0	141.7	136.7	278.4	LT Line 2nos(EC=4.7m, 3.8m)	5,47,801.330	16,19,278.863	608.313	75°26'38.07" E	14°38'47.53" N	26	Shidhenuru
27	B/8	DA+03		240.0		5,328.0	260.0	280.0	240.0	520.0	143.3	118.4	261.7	33KV Line(ec=5.4M)	5,47,521.944	16,19,297.401	608.816	75°26'28.73" E	14°38'48.16" N	24	Shidhenuru
28	B/9	DA+03		240.0		5,568.0	240.0	240.0	240.0	480.0	121.6	136.3	258.0	Cart Track	5,47,282.471	16,19,313.290	609.028	75°26'20.73" E	14°38'48.69" N	23	Shidhenuru
29	A09	DB+00	06°30'0" RT	280.0	2,645.0	5,808.0	260.0	240.0	280.0	520.0	103.7	111.0	214.7	11KV Line (EC=4.2M) Nala	5,47,042.993	16,19,329.180	609.880	75°26'12.69"E	14°38'49.21"N	154	Masanagi
30	9/1	DA+03		280.0		6,088.0	280.0	280.0	280.0	560.0	169.0	124.8	293.8	Cart Track 2nos, LT Line(EC=7.8 M)	5,46,768.000	16,19,380.000	611.327	75°26'53.53"E	14°38'50.89"N	153	Masanagi
31	9/2	DA+03		285.0		6,368.0	282.5	280.0	285.0	565.0	155.2	141.0	296.2	LT Line(EC=4.7M), 11KV Line 2nos(EC=3.8M, 4.3M), Cart Track	5,46,492.000	16,19,429.000	613.657	75°25'54.31"E	14°38'52.50"N	122	Keravadi
32	9/3	DA+03		285.0		6,653.0	285.0	285.0	285.0	570.0	144.0	173.4	317.4	LT Line 2nos(EC=6.8M,9.0M)	5,46,211.000	16,19,479.000	613.889	75°25'44.92"E	14°38'54.15"N	121	Keravadi
33	9/4	DA+03		290.0		6,938.0	287.5	285.0	290.0	575.0	111.6	139.3	250.8	Nala, LT Line(EC=4.5M), Cart Track	5,45,930.000	16,19,531.000	609.064	75°25'35.52"E	14°38'55.86"N	110	Keravadi
34	9/5	DA+03		287.0		7,228.0	288.5	290.0	287.0	577.0	150.7	111.2	262.0	Nala	5,45,643.000	16,19,583.000	609.976	75°25'25.93"E	14°38'57.57"N	95 & 96	Keravadi
35	AP10	DB+03	07°26'24" RT	300.0	1,707.0	7,515.0	293.5	287.0	300.0	587.0	175.8	119.8	295.6	Nala, 11KV Line(EC=3.4M)	5,45,362.000	16,19,632.000	615.045	75°25'16.54"E	14°38'59.18"N	69	Keravadi
36	10/1	DA+00		280.0		7,815.0	290.0	300.0	280.0	580.0	180.2	93.5	273.7	Cart Track	5,45,075.000	16,19,724.000	622.999	75°25'6.95"E	14°39'2.19"N	55	Keravadi
37	10/2	DA+03		275.0		8,095.0	277.5	280.0	275.0	555.0	186.5	166.6	353.1	LT Line(EC=5.6M), Cart Track	5,44,808.000	16,19,810.000	627.125	75°24'58.03"E	14°39'5.01"N	53	Keravadi



Sl. No	Twr No.	Tower Type	Deviation Angle (DMS)	Section Span in (m)	Cum. Chainage in (m)	Wind Span in (m)	Adjacent Span			Weight Span (Hot)			Major Crossings / Remarks (With in ROW)	UTM Coordinates (Zone - 43P)			Spherical Coordinates		Tower Survey No.	Village Limits
							Left	Right	Total	Left	Right	Total		Easting	Northing	Elevation	Longitude	Latitude		
26	10/3	DA+00		275.0	8,370.0	275.0	275.0	275.0	550.0	208.4	159.2	267.5		5,44,545.000	16,19,894.000	625.741	75°24'49.24"E	14°39'27.76"N	28	Tipalapura
27	10/4	DA+00		275.0	8,645.0	275.0	275.0	275.0	550.0	115.8	119.5	235.3		5,44,284.000	16,19,978.000	622.479	75°24'40.52"E	14°39'10.51"N	27	Tipalapura
28	10/5	DA+03		275.0	8,920.0	286.0	275.0	297.0	572.0	155.5	165.9	321.5		5,44,022.000	16,20,061.000	622.197	75°24'31.77"E	14°39'13.22"N	32	Tipalapura
29	AP11	DB+03	09°36'00" LT	297.0	9,217.0	288.5	297.0	280.0	577.0	131.1	180.5	311.5	Tar Road fro Keruvadi to Tipalapur, LT Line(EC=5.9M)	5,43,738.160	16,20,148.400	619.362	75°24'22.28"E	14°39'16.07"N	34	Tipalapura
30	11/1	DA+00		280.0	9,497.0	280.0	280.0	280.0	560.0	99.5	162.4	261.9	Pond, Cart Track 2nos	5,43,461.000	16,20,191.000	616.156	75°24'13.02"E	14°39'17.49"N	37	Tipalapura
31	11/2	DA+00		280.0	9,777.0	280.0	280.0	280.0	560.0	117.6	155.2	272.8	11KV Line(EC=3.3M)	5,43,184.000	16,20,231.000	612.718	75°24'3.76"E	14°39'18.80"N	38	Tipalapura
32	11/3	DA+00		275.0	10,057.0	277.5	280.0	275.0	555.0	124.8	136.1	260.9	LT Line(EC=3.4M)	5,42,905.000	16,20,271.000	610.386	75°23'54.44"E	14°39'20.12"N	81	Chinnikatti
33	11/4	DB+00	00°00'00"	280.0	10,332.0	277.5	275.0	280.0	555.0	138.9	142.5	281.4	Section Tower LT Line(EC=3.6M)	5,42,632.000	16,20,310.000	610.601	75°23'45.31"E	14°39'21.41"N	77&78	Chinnikatti
34	11/5	DA+00		275.0	10,612.0	277.5	280.0	275.0	555.0	137.5	133.3	270.8		5,42,355.000	16,20,350.000	610.218	75°23'36.06"E	14°39'22.73"N	73	Chinnikatti
35	11/6	DA+00		275.0	10,887.0	275.0	275.0	275.0	550.0	141.7	134.9	276.6		5,42,082.000	16,20,388.000	610.851	75°23'26.93"E	14°39'23.98"N	68	Chinnikatti
36	11/7	DA+00		275.0	11,162.0	275.0	275.0	275.0	550.0	140.1	100.8	240.9	LT Line(EC=5.6M), Nala	5,41,809.000	16,20,429.000	611.237	75°23'17.81"E	14°39'25.33"N	37	Nagalapura
37	11/8	DA+03		293.0	11,437.0	284.0	275.0	293.0	568.0	174.2	160.6	334.8	LT Line(EC=7.3M), 11KV Line(EC=3.1M), Cart Track	5,41,537.000	16,20,467.000	613.763	75°23'08.71"E	14°39'26.58"N	58	Nagalapura
38	AP12	DD+00	43°18'36" LT	290.0	11,730.0	291.5	293.0	290.0	583.0	132.4	71.6	204.0		5,41,246.000	16,20,508.000	614.498	75°22'58.99"E	14°39'27.93"N	47	Nagalapura
39	12/1	DA+06		295.0	12,020.0	292.5	290.0	295.0	585.0	218.4	95.3	313.7	Cart Track, Pond	5,41,005.000	16,20,342.000	620.151	75°22'50.92"E	14°39'22.54"N	8A & 7P	Nellikoppa
40	12/2	DB+06		291.0	12,315.0	293.0	295.0	291.0	586.0	199.7	187.8	387.5	LT Line 2nos(EC=6.7M, 5.2M)	5,40,761.000	16,20,171.000	628.577	75°22'42.75"E	14°39'16.96"N	81 & 8N	Nellikoppa
41	AP13	DC+03	15°45'36" RT	300.0	12,606.0	295.5	291.0	300.0	591.0	103.2	197.1	300.3	State Highway-62 from Ingalegondi to Lingapur(EC=10.9M), A/C=67°54'19" ,Tar Road from Chinnikatte to Nellikop, 11KV Line 2nos(EC=4.9M, 3.5M)	5,40,520.000	16,20,001.000	624.837	75°22'34.69"E	14°39'11.47"N	10	Nellikoppa
42	13/1	DA+00		299.0	12,906.0	299.5	300.0	299.0	599.0	102.9	159.8	262.7		5,40,234.890	16,19,901.990	620.099	75°22'25.15"E	14°39'08.26"N	10	Nellikoppa
43	AP14	DB+03	09°10'12" RT	281.0	13,205.0	290.0	299.0	281.0	580.0	139.2	180.7	319.9	Cart Track, 11KV Line(EC=3.7M), LT Line(EC=8.7M)	5,39,952.090	16,19,805.050	615.410	75°22'15.69"E	14°39'05.12"N	14A	Nellikoppa
44	AP15	DB+00	08°25'00" LT	290.0	13,486.0	285.5	281.0	290.0	571.0	100.3	131.8	232.0		5,39,669.060	16,19,752.907	612.221	75°22'06.23" E	14°39'03.44" N	44	Nellikoppa
45	15/1	DA+06			13,776.0	290.0	290.0	290.0	580.0	158.2	194.9	353.2	Nala, Cart Track	5,39,394.553	16,19,659.393	608.324	75°21'57.04" E	14°39'00.41" N	43	Kummura





Sl. No	Twr No.	Tower Type	Deviation Angle (DMS)	Span in(m)	Section Length in(m)	Cum. Chainage in(m)	Wind Span in(m)	Adjacent Span		Weight Span (Hot)		Major Crossings / Remarks (With in ROW)	UTM Coordinates (Zone - 43P)			Spherical Coordinates		Tower Survey Note	Village Limits		
								Right	Total	Left	Right		Total	Easting	Northing	Elevation	Longitude			Latitude	
50	15/2	DA+03		290.0		14,066.0	287.5	290.0	285.0	575.0	95.1	165.8	260.8		5,39,120.044	16,19,565.878	603.394	75°21'47.86" E	14°38'58" N	54	Kummura
51	15/3	DA+03		285.0		14,351.0	292.5	285.0	300.0	585.0	119.2	153.4	272.6	Cart Track from Kummur to Muttur, LT Line(EC=4.6M), Nala, Cart Track							
52	15/4	DA+03		300.0		14,651.0	300.5	300.0	301.0	601.0	146.6	155.3	302.0	LT Line 2nos(EC=8.9M, 4.5M), Pond, 11kV Line(EC=7.3M)	5,38,850.268	16,19,473.976	599.764	75°21'38.84" E	14°38'54.40" N	55	Kummura
53	AP16	DB+03	07°08'38" LT		1,466.0	14,952.0	298.0	301.0	295.0	596.0	145.7	145.1	290.7		5,38,566.294	16,19,377.237	599.210	75°21'29.34" E	14°38'51.77" N	73	Kummura
54	16/1	DA+06		295.0		15,247.0	289.0	295.0	283.0	578.0	149.9	159.7	309.6	11kV Line 2nos (EC=5.6, 8.9M), Nala	5,38,281.115	16,19,280.087	598.411	75°21'19.80" E	14°38'48.12" N	71	Kummura
55	AP17	DC+00	16°35'37" RT		578.0	15,530.0	275.0	289.0	295.0	583.0	149.9	159.7	309.6	LT Line (EC=5.1M), Cart Track, Pond	5,38,015.873	16,19,150.973	595.802	75°21'10.92" E	14°38'43.93" N	40	Badamali
56	17/1	DA+03		267.0		15,797.0	288.5	267.0	310.0	577.0	196.8	144.8	341.6	11kV Line(EC=6.0M)	5,37,761.351	16,19,027.077	598.989	75°21'02.41" E	14°38'39.91" N	53	Badamali
57	AP18	DB+03	04°25'48" LT		577.0	16,107.0	292.5	310.0	275.0	585.0	165.2	138.9	304.1	Cart Track, Pond, Tar Road from Badamalli Tanda to Dasanakop, LT Line 2nos(EC=3.4M, 3.2M)	5,37,497.913	16,18,983.642	605.247	75°20'53.60" E	14°38'38.51" N	548.53	Badamali
58	18/1	DA+03		275.0		16,382.0	277.5	275.0	280.0	555.0	136.1	160.1	296.2	LT Line 2nos(EC=4.2, 5.5M)	5,37,192.088	16,18,933.219	606.979	75°20'43.37" E	14°38'36.89" N	104 & 106	Badamali
59	18/2	DA+03		280.0		16,662.0	287.5	280.0	295.0	575.0	119.9	191.0	311.0	11kV Line(EC=4.9M), Cart track from Badamalli Tanda to Dasanakop	5,36,925.021	16,18,867.659	606.773	75°20'34.44" E	14°38'34.76" N	106	Badamali
60	18/3	DA+03		295.0		16,957.0	295.0	295.0	295.0	590.0	104.0	194.7	298.6	11kV Line (EC=7.7M), Pond	5,36,653.095	16,18,800.905	603.696	75°20'25.35" E	14°38'32.60" N	115	Badamali
61	18/4	DA+00		295.0		17,252.0	294.5	295.0	294.0	589.0	100.3	159.3	259.7		5,36,366.601	16,18,730.576	596.662	75°20'15.77" E	14°38'30.33" N	114 & 118	Badamali
62	AP19	DB+00	10°27'25" RT		1,435.0	17,546.0	284.5	294.0	275.0	569.0	134.7	111.6	246.3	Nala	5,36,080.107	16,18,660.246	592.039	75°20'06.19" E	14°38'28.05" N	49	Badamali
63	19/1	DA+00		275.0		17,821.0	260.0	275.0	245.0	520.0	163.4	96.8	260.2	Canal 2nos, LT Line(EC=5.0M)	5,35,794.209	16,18,590.063	590.051	75°19'56.62" E	14°38'25.78" N	53	Hirehalli
64	19/2	DA+03		245.0		18,066.0	261.5	245.0	278.0	523.0	148.2	194.4	342.7	Cart Track 2nos, LT Line(EC=4.4M), Pond, Tar Road from Brankop to Hire halla	5,35,519.671	16,18,574.063	593.948	75°19'47.45" E	14°38'25.28" N	55	Hirehalli
71	AP20	DC+00	18°07'08" LT		798.0	18,344.0	244.0	278.0	210.0	488.0	83.6	108.7	192.3	LT Line 2nos(EC=7.7M, 5.6M), 11kV Line(EC=5.4M)	5,35,275.086	16,18,559.808	594.399	75°19'39.27" E	14°38'24.82" N	66	Hirehalli
72	20/1	DA+03		210.0		18,554.0	201.5	210.0	193.0	403.0	101.3	144.1	245.4	Canal, Cart Track, Nala	5,34,997.115	16,18,543.608	588.959	75°19'29.98" E	14°38'24.31" N	70	Hirehalli
73	AP21	DD+00	35°39'04" LT		193.0	18,747.0	229.5	193.0	266.0	459.0	48.9	134.9	183.8		5,34,801.669	16,18,466.799	585.533	75°19'23.44" E	14°38'21.82" N	37	Chikkalli
74	AP22	DD+00	35°27'00" RT		266.0	19,013.0	253.0	266.0	240.0	506.0	131.1	115.5	246.6	LT Line(EC=3.5M)	5,34,622.239	16,18,396.285	583.505	75°19'17.44" E	14°38'19.53" N	338.37	Chikkalli
				240.0										Cart Track	5,34,477.550	16,18,172.578	583.234	75°19'12.57" E	14°38'12.24" N	32	Chikkalli



Sl. No	Twr No.	Tower Type	Deviation Angle (DMS)	Span in (m)	Section Length in (m)	Cum. Chainage in (m)	Wind Span in (m)	Adjacent Span		Weight Span (Hot)		Major Crossings / Remarks (With in ROW)	UTM Coordinates (Zone - 43P)			Spherical Coordinates		Inver Survey Note	Village Limits
								Right	Total	Left	Right		Total	Easting	Northing	Elevation	Longitude		
75	22/1	DA+00				19,253.0	233.0	240.0	226.0	124.5	99.3	223.9	5,34,254.000	16,18,086.000	583.829	75°19'51.11"E	14°38'9.45"N	28	Chikkalli
76	AP23	DC+00	15°42'36" RT	226.0	466.0	19,479.0	258.0	226.0	290.0	126.7	85.9	212.6							
77	23/1	DA+09				19,769.0	291.5	290.0	293.0	204.1	231.3	435.3	5,34,045.000	16,18,001.000	585.520	75°18'58.13"E	14°38'6.78"N	1	Chikkalli
78	AP24	DB+00	10°10'12" RT	293.0	583.0	20,062.0	256.5	293.0	220.0	61.7	129.2	190.9	5,33,759.940	16,17,971.060	585.898	75°18'48.59"E	14°38'5.73"N	163, 162.6	Chikkalli
79	24/1	DA+00		220.0		20,282.0	218.5	220.0	217.0	437.0	90.8	82.1	5,33,653.000	16,17,952.244	578.983	75°18'31.63"E	14°38'05.14"N	119	Chikkalli
80	AP25	DD+03	38°53'51" RT	217.0	437.0	20,499.0	257.5	217.0	298.0	515.0	134.9	191.7							
81	AP26	DD+00	11°38'42" LT	298.0	298.0	20,797.0	174.5	298.0	51.0	349.0	106.3	54.4	5,33,036.400	16,17,967.279	579.118	75°18'24.40"E	14°38'05.64"N	123	Chikkabasura
82	(AP27) TNO.89	MD+00	18°48'32" LT (EX 45°05'00" RT)	51.0		20,848.0	125.0	51.0	199.0	250.0	-3.4	94.6							
83	TNO.90	MA+03		268.0		21,047.0	233.5	199.0	268.0	467.0	101.0	134.0	5,32,579.910	16,18,239.398	571.490	75°18'09.15"E	14°38'14.52"N	132& 131	Chikkabasura
84	TNO.91	MA+03		242.0		21,315.0	255.0	268.0	242.0	510.0	134.0	145.0	5,32,317.957	16,18,297.088	571.465	75°18'00.40"E	14°38'16.41"N	133	Chikkabasura
85	TNO.92	MA+00		298.0		21,557.0	270.0	242.0	298.0	540.0	97.0	155.9							
86	TNO.93	MA+03		327.0		21,855.0	312.5	298.0	327.0	625.0	142.1	178.3	5,31,790.467	16,18,413.257	567.202	75°17'42.77"E	14°38'20.21"N	163& 164	Chikkabasura
87	TNO.94	MA+03		301.0		22,182.0	314.0	327.0	301.0	628.0	148.7	154.2	5,31,471.120	16,18,483.587	564.555	75°17'32.10"E	14°38'22.51"N	160	Chikkabasura
88	(AP28) TNO.95	MC+03	18°28'01" LT	1,635.0	1,635.0	22,483.0	302.0	301.0	303.0	604.0	146.8	108.0	5,31,177.454	16,18,546.261	563.942	75°17'22.28"E	14°38'24.63"N	160	Chikkabasura
89	TNO.96	MA+06		303.0		22,786.0	295.0	303.0	287.0	590.0	195.0	201.0	5,30,876.084	16,18,516.336	568.537	75°17'12.21"E	14°38'23.60"N	63	Chalapuji
90	TNO.97	MA+00		287.0		23,073.0	296.5	287.0	306.0	593.0	86.0	139.0	5,30,591.138	16,18,486.151	565.116	75°17'02.68"E	14°38'22.63"N	64	Chalapuji
91	TNO.98	MA+03		306.0		23,379.0	289.0	306.0	272.0	578.0	167.0	102.0	5,30,287.129	16,18,453.946	564.511	75°16'52.52"E	14°38'23.60"N	114	Chalapuji
92	TNO.99	MC+03	00°00'00"	272.0	1,168.0	23,651.0	301.0	272.0	330.0	602.0	170.0	183.0	5,30,016.443	16,18,425.272	566.903	75°16'43.47"E	14°38'20.67"N	110	Chalapuji



Sl. No	Twr No.	Tower Type	Deviation Angle (DMS)	Span in (m)	Section Length in (m)	Cum. Chainage in (m)	Wind Span in (m)	Adjacent Span		Weight Span (Hot)		Major Crossings / Remarks (With in ROW)		UTM Coordinates (Zone - 43P)		Spherical Coordinates		Tower Survey No.	Village Limits
								Left	Right	Total	Left	Right	Total	Easting	Northing	Longitude	Latitude		
92	TNO.100	MA+03				23,981.0	328.5	330.0	327.0	657.0	147.0	154.2	311.2	5,29,688.429	16,18,390.525	75°16'32.50" E	14°38'18.45" N	134	Chalappuji
				327.0															
94	TNO.101	MA+06				24,308.0	324.5	327.0	322.0	649.0	162.8	201.0	363.8	5,29,363.328	16,18,356.086	75°16'21.63" E	14°38'18.45" N	137	Chalappuji
				322.0															
95	TNO.102	MA+03				24,630.0	318.0	322.0	314.0	636.0	121.0	154.0	275.0	5,29,043.487	16,18,322.204	75°16'10.93" E	14°38'17.36" N	150	Chalappuji
				314.0															
96	TNO.103	MA+06				24,944.0	310.5	314.0	307.0	621.0	160.0	170.0	330.0	5,28,730.737	16,18,289.074	75°16'00.48" E	14°38'16.29" N	165	Chalappuji
				307.0															
97	(AP29) TNO.104	MC+03	09°17'29" LT		1,600.0	25,251.0	315.0	307.0	323.0	630.0	137.0	169.0	306.0	5,28,425.120	16,18,256.699	75°15'50.26" E	14°38'15.25" N	169	Chalappuji
				323.0															
98	TNO.105	MA+00				25,574.0	303.0	323.0	283.0	606.0	154.0	150.0	304.0	5,28,113.217	16,18,171.148	75°15'39.83" E	14°38'12.48" N	172A	Chalappuji
				283.0															
99	TNO.106	MA+03				25,857.0	301.5	283.0	320.0	603.0	133.0	160.0	293.0	5,27,840.336	16,18,096.301	75°15'30.70" E	14°38'10.05" N	176	Chalappuji
				320.0															
100	TNO.107	MA+06				26,177.0	319.0	320.0	318.0	638.0	160.0	172.0	332.0	5,27,531.801	16,18,011.674	75°15'20.39" E	14°38'07.31" N	177	Chalappuji
				318.0															
101	TNO.108	MA+00				26,495.0	297.5	318.0	277.0	595.0	146.0	145.0	291.0	5,27,225.591	16,17,927.685	75°15'10.15" E	14°38'04.58" N	217	Tilavalli
				277.0															
102	(AP30) TNO.109	MD+03	19°59'08" RT		1,521.0	26,772.0	163.0	277.0	49.0	326.0	132.0	126.0	258.0	5,26,958.039	16,17,854.299	75°15'01.20" E	14°38'02.20" N	213	Tilavalli
				49.0															
103	(AP31) TNO.110	DD+00	35°29'40" RT		49.0	26,821.0	47.5	49.0	46.0	95.0	-49.0	23.0	-26.0	5,26,909.531	16,17,858.242	75°14'59.58" E	14°38'02.33" N	214	Tilavalli
				46.0															
0	Bay2	Gantry			46.0	26,867.0	23.0	46.0	0.0	46.0	23.0	0.0	23.0	5,26,874.161	16,17,888.070	75°14'58.40" E	14°38'03.31" N	214	Tilavalli

For Karnataka Surveyors

Assistant Engineer Ele.,  
Major works Sub - Division  
KPTCL, Haveri

Assistant Executive Engineer Ele.,  
Major works Sub - Division  
KPTCL, Haveri

Executive Engineer Ele.,  
Major works Division  
KPTCL, Haveri

Superintending Engineer Ele.,  
Transmission (W & M) Circle  
KPTCL, Hubballi



# KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

**Name of Project: Construction of Proposed 110kV DC line on DC/MC Towers from proposed 220/110KV R/S at Byadgi to the Existing 110/11KV S/S at Tiluvalli, in Byadgi Taluk, Haveri District.**

**Survey Consultants:- M/s. Karnataka Surveyors, Bengaluru.**

## Abstract of Towers

### Proposed 110KV D/C Towers (Design code: KPTCL-1D-AQUS)

SL. NO	Tower Type \ Extn	+0	+3	+6	+9	+12	Total
1	DA	48 ✓	28 ✓	4 ✓	1 ✓		48 ✓
2	DB	15 ✓	6 ✓	1 ✓	-		15 ✓
3	DC	4 ✓	1 ✓		-		4 ✓
4	DD	11+*1	2 ✓	1 ✓	-	2 ✓	12 ✓
5	DD with 3rd cross arm	2 ✓	1 ✓	-	-		2 ✓
6	Dwarf Tower	2	-	-	-	-	2 ✓
<b>Total</b>							<b>83 Nos ✓</b>

### Proposed 110KV M/C Towers (Design code: KPTCL-1M-CPRI)

Sl. NO	Tower Type \ Extn	+0	+3	+6	+9	+12	Total
1	MA	16 -	8 ✓	4 ✓	-	-	16 ✓
2	MC	④3	④3 ✓	-	-	-	④3 ✓
3	MD	①2	-1 ✓	-	-	-	①2 ✓
<b>Total</b>							<b>21 Nos ✓</b>

### Proposed 220KV D/C Towers (Design code: KPTCL-2D-GDG)

1	DC	1	-	1	-	-	1 ✓
<b>Total</b>							<b>1 Nos ✓</b>
<b>Grand Total</b>							<b>105 Nos ✓</b>

### Existing 110KV DC Towers to be Retained (KPTCL-1D-OLDKLP)

1	DD	1	-	-	-	-	1
<b>Total</b>							<b>1 Nos ✓</b>

### Existing 110KV DC Tower to be dismantled (KPTCL-1D-OLDKLP)

1	DA	16	5 ✓	1 ✓	-	-	16 ✓
2	DB	2	1 ✓		-		2 ✓
3	DC	2 ✓	1 ✓	-	-	-	② ✓
4	DD				-		① ✓
<b>Total</b>							<b>21 Nos ✓</b>

**Note;- 1) Minor Deviation if any due to way leave Problem that may arise during the execution of the work may be incorporated accordingly.**

**2) \*Extra 1 number 'DD+0' type tower has been added in the abstract of towers for future use or if any modifications required at Proposed 220KV R/S end. Since the bay orientation as not been finalised yet.**

**3)\*\* Existing 220KV Guttur-Haveri D/C Line in b/w T.No.151 'AP & 152 'DA, Existing T.No.151 'DC+0' to be dismantled & replaced by DC+6, this tower included in the abstract of towers.**



**For Karnataka Surveyors**

**Assistant Engineer Ele.,  
Major Works Sub-Division  
KPTCL, Haveri**

**Executive Engineer Ele.,  
Major Works Division  
KPTCL, Haveri**



**Assistant Executive Engineer Ele.,  
Major Works Sub-Division  
KPTCL, Haveri**

**Superintending Engineer Ele.,  
Transmission (W&M) Circle  
KPTCL, Hubballi**





<b>Name of Client: KARNATAKA POWER TRANSMISSION CORPORATION LIMITED</b>
<b>Name of Project: Construction of Proposed 110kV DC line on DC/MC Towers from proposed 220/110KV R/S at Byadgi to the Existing 110/11KV S/S at Tiluvalli, in Byadgi Taluk, Haveri District</b>

**Name of Project:** Construction of Proposed 110kV DC line on DC/MC Towers from proposed 220/110KV R/S at Byadgi to the Existing 110/11KV S/S at Tiluvalli, in Byadgi Taluk, Haveri District.

**Survey Consultants:- M/s Karnataka Surveyors, Bengaluru.**

## SOIL CLASSIFICATION REPORT

SOIL CLASSIFICATION REPORT																
Sl. No	AP NOS	TYPE OF TOWER	Deviation Angle (DMS)	Span in(m)	Section Length in (m)	Cum. Chainage in (m)	Normal Soil	B.C. Soil	Gravel/DFR	WBC SOIL	Soft Rock SFR	Hard Rock HR	P.S	F.S	Total Depth in Mtrs.	Provisional Foundation
0	Bay1	Gantry		-	-	-	-	-	-	-	-	-	-	-	-	-
1	AP1	DD+00 with 3rd cross arm	81°05'10" LT	53	53	53	0.8		1.5		0.4	0.3			3	DFR
2	AP2	DB+00	00°41'56" LT	120	120	173	0.5		1.6		0.5	0.4			3	DFR
3	AP3	DD+03 with 3rd cross arm	93°39'58" LT	118	118	291	0.5		1.8		0.5	0.2			3	DFR
4	3/1	DB+00		100		391	0.8			1.7	0.3	0.2			3	WBC
5	3/2	DA+06		280		671	0.8		1.5		0.4	0.3			3	DFR
6	3/3	DA+03		210		951	0.9		1.3		0.6	0.2			3	DFR
7	3/4	DB+00		283		1161	0.9		0.3		1.7	0.1			3	SFR
8	AP4	DD+03	37°28'44" LT	105	1153	1444	0.8		0.5		1.5	0.2			3	SFR
9	4/1	Dwarf Tower		55		1549	0.9		1.8		0.3				3	DFR
10	4/2	Dwarf Tower		87		1604	0.8		2		0.2				3	DFR
11	AP5	DD+00	30°18'03" RT	245	247	1691	0.9		1.6		0.3	0.2			3	DFR
12	5/1	DA+03		260		1936	0.9		1.3		0.6	0.2			3	DFR
13	5/2	DA+03		255		2196	0.6		1.8		0.4	0.2			3	DFR



Sl. No	AP NOS	TYPE OF TOWER	Deviation Angle (DMS)	Span (m)	Section Length in (m)	Cum. Chainage in (m)	Normal Soil	B.C. Soil	Gravel/DFR	WBC SOIL	Soft Rock SFR	Hard Rock HR	P.S	F.S	Total Depth in Mtrs	Provisional Foundation
14	5/3	DA+03		265		2451	0.7		2.1		0.2				3	DFR
15	AP6	DD+12	06°08'39" LT		1025	2716	0.8		1.4		0.4	0.4			3	DFR
16	AP7	DD+12	18°39'17" LT		179	2895	0.8		0.3		1.7	0.2			3	SFR
17	AP8	DD+06	32°19'43" RT	268		3163	0.8		2		0.2	-			3	DFR
18	8/1	DA+03		260		3423	0.7		1.8		0.5				3	DFR
19	8/2	DA+03		260		3683	0.9		0.4	1.2	0.3	0.2			3	WBC
20	8/3	DA+03		265		3948	0.5		2		0.5				3	DFR
21	8/4	DA+03		265		4213	0.8		1.7		0.5				3	DFR
22	8/5	DB+03	00°00'00" RT	285		4478	1		0.4	1.2	0.3	0.1			3	WBC
23	8/6	DA+00		285		4763	0.5		1.8		0.5	0.2			3	DFR
24	8/7	DA+03		280		5048	0.8		0.5	1.3	0.3	0.1			3	WBC
25	8/8	DA+03		240		5328	0.6		0.5	1.4	0.3	0.2			3	WBC
26	8/9	DA+03		240		5568	0.8		1.7		0.5				3	DFR
27	AP9	DB+00	06°30'0" RT	280	2645	5808	0.9		0.4	1.2	0.3	0.2			3	WBC
28	9/1	DA+03		280		6088	0.8			1.7	0.3	0.2			3	WBC
29	9/2	DA+03		285		6368	0.5		1.9		0.4	0.2			3	DFR
30	9/3	DA+03		285		6653	0.6		0.4		1.8	0.2			3	SFR
31	9/4	DA+03		285		6938	0.6		1.7		0.4	0.3			3	DFR



[illegible]



L'Kummiura Village Limits								
Tower Footing Area								
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount
Proposed 110KV D/C Towers (M/s Kalpatharu Design adopted for AEQUS Project)								
1	DA+3	3	15.60	0.004	0.012	390000	331500	3833.51
2	DA+6	1	19.44	0.005	0.005	390000	331500	1592.38
3	DB+3	1	26.21	0.006	0.006	390000	331500	2146.93
		5		Total	0.023			7572.81
M Badamalli Village Limits								
Tower Footing Area								
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount
Proposed 110KV D/C Towers (M/s Kalpatharu Design adopted for AEQUS Project)								
1	DA+0	1	12.25	0.003	0.003	270000	229500	694.68
2	DA+3	4	15.60	0.004	0.015	270000	229500	3538.62
3	DA+6	1	19.44	0.005	0.005	270000	229500	1102.42
4	DB+3	1	26.21	0.006	0.006	270000	229500	1486.33
5	DC+0	1	25.00	0.006	0.006	270000	229500	1417.72
		8		Total	0.036			8239.77
N Hirehalli Village Limits								
Tower Footing Area								
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount
Proposed 110KV D/C Towers (M/s Kalpatharu Design adopted for AEQUS Project)								
1	DA+0	1	12.25	0.003	0.003	330000	280500	849.05
2	DA+3	1	15.60	0.004	0.004	330000	280500	1081.25
3	DB+0	1	20.25	0.005	0.005	330000	280500	1403.54
4	DC+0	1	25.00	0.006	0.006	330000	280500	1732.77
		4		Total	0.018			5066.60





Sl. No	AP NOS	TYPE OF TOWER	Deviation Angle (DMS)	Span in(m)	Section Length in (m)	Cum. Chainage in (m)	Normal Soil	B.C. Soil	Gravel/DFR	WBC SOIL	Soft Rock SFR	Hard Rock HR	P.S	F.S	Total Depth in Mtrs	Provisional Foundation
49	12/1	DA+06				12020	0.5		2		0.5				3	DFR
50	12/2	DB+06		295		12315	0.9			1.6	0.3	0.2			3	WBC
51	AP13	DC+03	15°45'36" RT	291	876	12606	0.6		1.9		0.5				3	DFR
52	13/1	DA+00		300		12906	0.5		1.8		0.5	0.2			3	DFR
53	AP14	DB+03	09°10'12" RT	299	599	13205	0.7		1.8		0.5				3	DFR
54	AP15	DB+00	08°25'00" LT	281	281	13486	0.8			1.7	0.3	0.2			3	WBC
55	15/1	DA+06		290		13776	0.7			2	0.2	0.1			3	WBC
56	15/2	DA+03		285		14066	0.6			1.9	0.3	0.2			3	WBC
57	15/3	DA+03		300		14351	0.5		0.5	1.5	0.5				3	WBC
58	15/4	DA+03		301		14651	0.9		0.4	1.3	0.3	0.1			3	WBC
59	AP16	DB+03	07°08'38" LT	1466	1466	14952	0.5		0.5	1.7	0.2	0.1			3	WBC
60	16/1	DA+06		295		15247	0.7		0.6	1.4	0.2	0.1			3	WBC
61	AP17	DC+00	16°35'37" RT	283	578	15530	0.8			1.9	0.2	0.1			3	WBC
62	17/1	DA+03		267		15797	0.5				0.7	0.1	1.7		3	PS
63	AP18	DB+03	04°25'48" LT	310	577	16107	0.7		1.8		0.3	0.2			3	DFR
64	18/1	DA+03		275		16382	0.7		1.9		0.4				3	DFR
65	18/2	DA+03		280		16662	0.5		0.5	1.7	0.2	0.1			3	WBC
66	18/3	DA+03		295		16957	0.6		1.9		0.5				3	DFR




Sl. No	'AP NOS	Type of Tower	Deviation Angle (DMS)	Span (m)	Section Length in (m)	Cum. Chaining in (m)	Normal Soil	B.C. Soil	Gravel/DFR	WBC SOIL	Soft Rock SFR	Hard Rock HR	P.S.	F'S	Total Depth in Mtrs	Provisional Foundation
67	18/4	DA+00		295		17252	0.7		1.9		0.3	0.1			3	DFR
68	AP19	DB+00	10°27'25" RT	294	1439	17546	0.7		1.8		0.5				3	DFR
69	19/1	DA+00		275		17821	0.7				0.7	0.2	1.4		3	PS
70	19/2	DA+03		245		18066	0.5		2		0.5				3	DFR
71	AP20	DC+00	18°07'08" LT	278	798	18344	0.5		2		0.5				3	DFR
72	20/1	DA+03		210		18554	0.9		0.4	1.2	0.3	0.2			3	WBC
73	AP21	DD+00	35°39'04" LT	193	403	18747	0.8		0.5	1.3	0.4				3	WBC
74	AP22	DD+00	35°27'00" RT	266	266	19013	0.7		1.8		0.5				3	DFR
75	22/1	DA+00		240		19253	0.5				0.7	0.2	1.6		3	PS
76	AP23	DC+00	15°42'36" RT	226	466	19479	0.5		1.8		0.5	0.2			3	DFR
77	23/1	DA+09		290		19769	0.8			1.7	0.3	0.2			3	WBC
78	AP24	DB+00	10°10'12" RT	293	583	20062	0.8		1.5		0.4	0.3			3	DFR
79	24/1	DA+00		220		20282	0.9		0.4	1.2	0.3	0.2			3	WBC
80	AP25	DD+03	38°53'51" RT	217	437	20499	1		0.4	1.2	0.3	0.1			3	WBC
81	AP26	DD+00	11°38'42" LT	298	298	20797	0.9		0.4	1.2	0.3	0.2			3	WBC
				51												
82	(AP27)TNO89	MD+00	18°48'32" LT (EX- 45°05'00" RT)	199	51	20848	1		1.3		0.4	0.3			3	DFR





Sl. No	AP NOS	TYPE OF TOWER	Deviation Angle (DMS)	Span (m)	Section Length in (m)	Cum. Chainage in (m)	Normal Soil	B.C. Soil	Gravel/DFR	WBC SOIL	Soft Rock SFR	Hard Rock HR	P.S.	F.S	Total Depth in Mtrs	Provisional Foundation
83	TNO90	MA+03				21047	0.9		1.2		0.5	0.4			3	DFR
84	TNO91	MA+03		268		21315	0.8		1.5		0.4	0.3			3	DFR
85	TNO92	MA+00		242		21557	0.6			1.9	0.3	0.2			3	WBC
86	TNO93	MA+03		298		21855	0.9		0.4	1.2	0.3	0.2			3	WBC
87	TNO94	MA+03		327		22182	1		0.3	1.2	0.3	0.2			3	WBC
88	(AP28)TNO95	MC+03	18°28'01" LT	301	1635	22483	0.9		0.4	1.2	0.3	0.2			3	WBC
89	TNO96	MA+06		303		22786	1		1.3		0.4	0.3			3	WBC
90	TNO97	MA+00		287		23073	0.7		1.6		0.4	0.3			3	DFR
91	TNO98	MA+03		306		23379	0.8		1.5		0.4	0.3			3	DFR
92	TNO99	MC+03	00°00'00"	272	1168	23651	0.8		0.5	1.4	0.3				3	WBC
93	TNO100	MA+03		330		23981	0.5		0.5	1.5	0.3	0.2			3	WBC
94	TNO101	MA+06		327		24308	0.8		1.5		0.4	0.3			3	DFR
95	TNO102	MA+03		322		24630	0.7		1.4		0.4	0.5			3	DFR
96	TNO103	MA+06		314		24944	0.5		0.5	1.5	0.3	0.2			3	WBC
97	(AP29) TNO104	MC+03	09°17'29" LT	307	1600	25251	0.8		0.5	1.3	0.3	0.1			3	WBC
98	TNO105	MA+00		323		25574	0.8		1.4		0.5	0.3			3	DFR





Sl. No	AP NOS	TYPE OF TOWER	Deviation Angle (DMS)	Span (m)	Section Length in (m)	Cum. Chainage in (m)	Normal Soil	B.C. Soil	Gravel/DFR	WBC SOIL	Soft Rock SFR	Hard Rock HR	P.S	F.S	Total Depth in Mtrs	Provisional Foundation
99	TNO106	MA+03		283		25857	0.8		0.5	1.2	0.3	0.2			3	WBC
100	TNO107	MA+06		320		26177	0.5		1.6		0.5	0.4			3	DFR
101	TNO108	MA+00		318		26495	0.8		1.3		0.5	0.4			3	DFR
102	(AP30) TNO109	MD+03	19°59'08" RT	277	1521	26772	1		1.1		0.5	0.4			3	DFR
103	(AP31) TNO110	DD+00	35°29'40" RT	49	49	26821	0.9		0.4	1.3	0.3	0.1			3	WBC
0	Bay2	Gantry		46	46	26867										
2)*Extra 1 number 'DD+0' type tower has been added in the abstract of towers for future use or if any modifications required at Proposed 220KV R/S end. Since the bay orientation as not been finalised yet.																
104	*	DD+0					0.5		1.8		0.5	0.2			3	DFR
3)** Existing 220KV Guttur-Haveri D/C Line in b/w T.No.151 'AP & 152 'DA, Existing T.No.151 'DC+0' to dismantled & replaced by DC+6, this tower included in the abstract of towers.																
105		DC+6 220KV					0.80		1.50		0.40	0.30			3.00	WBC
					TOTAL		75.90	0.00	108.80	53.70	49.00	16.30	7.80	0.00	312.00	

  
 For Karnataka Surveyors

  
 Assistant Engineer Ele.,  
 Major Works Sub Division  
 KPTCL, Haveri

  
 Assistant Executive Engineer Ele.,  
 Major Works Sub Division  
 KPTCL, Haveri

  
 Executive Engineer Ele.,  
 Major Works Division  
 KPTCL, Haveri

  
 Superintending Engineer Ele.,  
 Transmission (W & M) Circle  
 KPTCL, Hubballi





**Name of Client: KARNATAKA POWER TRANSMISSION CORPORATION LIMITED**

**Name of Project: Construction of Proposed 110kV DC line on DC/MC Towers from proposed 220/110KV S/S at Byadgi to the Existing 110/11KV S/S at Tiluvalli, in Byadgi Taluk, Haveri District.**

**Survey Consultants:- M/s Karnataka Surveyors, Bengaluru.**

**ABSTRACT OF FOUNDATION**

SL NO	TYPE OF FOUNDATION	NOS
1	DRY FISSURED ROCK (DFR)	55
2	PARTIALLY SUBMERGED (PS)	5
3	SOFT FISSURED ROCK (SFR)	6
4	BLACK COTTON SOIL (WBC)	39
	TOTAL	105 Nos

**Note: The above report is provisional and is subject to variation depending upon the place of excavation.**

  
*K. S. S. S.*  
For Karnataka Surveyors

*Prond*  
Assistant Engineer Ele.,  
Major Works Sub Division  
KPTCL, Haveri

*S. S. S.*  
Assistant Executive Engineer Ele.,  
Major Works Sub Division  
KPTCL, Haveri

*S. S. S.*  
Executive Engineer Ele.,  
Major Works Division  
KPTCL, Haveri

*S. S. S.*  
Superintending Engineer Ele.,  
Transmission (W & M) Circle  
KPTCL, Hubballi



## REVENUE SURVEY NUMBERS OF TRANSMISSION ROUTE ALIGNMENT

**Name of Work :** Construction of 110kV D/C line on DC/MC Towers from proposed 220/110KV R/S at Byadagi to the existing 110/11kV S/S at Tiluvalli, in Byadagi Taluk, Haveri District, Karnataka.

**Client :** M/s KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

**Surveyors :** M/S KARNATAKA SURVEYORS, BANGALURU.

### REVENUE SURVEY NUMBERS

SI No.	Tower Nos.	Revenue Survey Number	Village Names	Hobli	Taluk	Dist
1	Bay1 TO AP1/DD+00	19	Lakamajikoppa	Byadagi	Haveri	
2	AP1/DD+00 TO AP2/DB+00	19				
3	AP2/DB+00 TO AP3/DD+03	19, 20				
4	AP3/DD+03 TO AP4/DD+03	15A, 16, 17, 18, 46, 47	Agasanahalli			
5	AP4/DD+03 TO AP5/DD+00	71	Ramagodanahalli			
6	AP5/DD+00 TO AP6/DB+12	71, 70, 69				
7	AP5/DD+00 TO AP6/DB+12	31, 30	Shivajinagara			
8	AP6/DB+12 TO AP7/DC+12	30, 38				
9	AP7/DC+12 TO AP8/DD+06	38, 40				
10	AP8/DD+06 TO AP9/DB+00	40, 41, 42				
11	AP8/DD+06 TO AP9/DB+00	63, 68, 66, 65, 64, 29, 35, 26, 25, 24, 23	Shidenuru			
12	AP9/DB+00 TO AP10/DB+03	154, 153, 152, 151,	Masanagi			
13	AP9/DB+00 TO AP10/DB+03	122, 121, 118, 120, 119, 110, 109, 108, 107, 95, 96, 94, 93, 66, 67, 68, 69	Keravadi			
14	AP10/DB+03 TO AP11/DB+03	69, 70, 71, 55, 53				
15	AP10/DB+03 TO AP11/DB+03	28, 27, 26, 32	Tipalapura			
16	AP11/DB+03 TO AP12/DD+00	32, 34, 33, 37				



SI No.	Tower Nos.	Revenue Survey Number	Village Names	Hobli	Taluk	Dist
17	AP11/DB+03 TO AP12/DD+00	82, 81, 80, 79, 77, 78, 74, 73, 68	Chinnikatti	Kagineli	Byadagi	
18	AP11/DB+03 TO AP12/DD+00	37, 38, 52, 39, 40, 47	Nagalapura			
19	AP12/DD+00 TO AP13/DB+03	47, 42, 41				
20	AP12/DD+00 TO AP13/DB+03	7P, 8A, 8, 8N, 8I, 8C, 10, 11	Nellikoppa			
21	AP13/DB+03 TO AP14/DB+03	10, 15, 14A, 13N, 39, 44				
22	AP14/DB+03 TO AP15/DB+00	44, 43				
23	AP15/DB+00 TO AP16/DB+03	43				
24	AP15/DB+00 TO AP16/DB+03	54, 55, 75, 74, 73, 71	Kummura			
25	AP16/DB+03 TO AP17/DC+00	71, 70				
26	AP16/DB+03 TO AP17/DC+00	40, 41, 48, 5, 53	Badamalli			
27	AP17/DC+00 TO AP18/DB+03	53, 54, 103, 104				
28	AP18/DB+03 TO AP19/DB+00	105, 106, 97, 111, 115, 116, 117, 118, 114				
29	AP18/DB+03 TO AP19/DB+00	48, 49, 53	Hirehalli	Kagineli	Haveri	
30	AP19/DB+00 TO AP20/DC+00	53, 55, 56, 57, 66, 68, 70				
31	AP20/DC+00 TO AP21/DD+00	39, 36, 37	Chikkalli			
32	AP21/DD+00 TO AP22/DD+00	33, 32, 26				
33	AP22/DD+00 TO AP23/DC+00	32, 27, 28, 5, 3, 4, 1				
34	AP23/DC+00 TO AP24/DB+00	1, 165, 164, 162, 163, 130, 125, 124				
35	AP24/DB+00 TO AP25/DD+03	124, 120, 119, 136, 118				
36	AP25/DD+03 TO AP26/DD+00	123, 122, 121				
37	AP26/DD+00 TO TNO89/MD+00	121				



SI No.	Tower Nos.	Revenue Survey Number .	Village Names	Hobli	Taluk	Dist
38	TNO89/MD+00 TO TNO95/MC+03	121, 131, 132, 133, 168, 167, 166, 165, 164, 163, 162, 179, 160	Chikkabasura			
39	TNO95/MC+03 TO TNO104/MC+03	59, 68, 63, 67, 65, 64, 120, 113, 114, 111, 110, 109, 108, 107, 134, 137, 138, 151, 150, 164, 163, 165, 166, 169				
40	TNO104/MC+03 TO TNO109/MD+03	169, 172N, 172, 172/I, 172A, 175, 176, 177				
41	TNO104/MC+03 TO TNO109/MD+03	217, 213	Ghalapuji			
42	TNO109/MD+03 TO TNO110/DD+00	213, 214				
43	TNO110/DD+00 TO Bay2	214				



For Karnataka Surveyors

Assistant Engineer Ele.,  
Major Works Sub-Division  
KPTCL, Haveri

Assistant Executive Engineer Ele.,  
Major Works Sub-Division  
KPTCL, Haveri

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Major Works Division  
KPTCL, Haveri

Superintending Engineer Ele.,  
Transmission (W&M) Circle  
KPTCL, Hubballi





## Karnataka Power Transmission Corporation Limited

**Survey Consultants: M/s Karnataka Surveyors, Bengaluru.**

**Name of Project: Construction of Proposed 110kV DC line on DC/MC Towers from proposed 220/110KV R/S at Byadgi to the Existing 110/11KV S/R at Tiliuvalli, in Byadgi Taluk, Haveri District.**

Corporate Circular No.: KPTCL/SA8/B7/19105/15-16 Dated: 23.01.2019

**Length of the Line: 26.867 Kms.**

**Tower Foot Area as per Guideline Cost**

[illegible]

**Tower Footing Area**

	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount
			Proposed 110KV D/C Towers (M/s Kalpatharu Design adopted for AEQUS Project)					
1	DA+3	1	15.60	0.004	0.004	580000	493000	1900.37
2	DA+6	1	19.44	0.005	0.005	580000	493000	2368.15
3	DB+0	2	20.25	0.005	0.010	580000	493000	4933.65
4	DD+3	1	49.56	0.012	0.012	580000	493000	6037.33
5	DD+3 With 3rd cross arm	1	49.56	0.012	0.012	580000	493000	6037.33
		6		Total	0.043			21276.84



C. Ramagondanahalli Village Limits:								
Tower Footing Area								
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount
Proposed 110KV D/C Towers (M/s Kalpatharu Design adopted for AEQUS Project)								
1	DA+3	2	15.60	0.004	0.008	250000	212500	1638.25
2	DD+0	1	30.25	0.007	0.007	250000	212500	1588.37
3	Dwarf Tower	2	16.00	0.004	0.008	250000	212500	1680.26
Proposed 220KV D/C Towers (Design code: KPTCL-2D-GDG)								
4	DC+6	1	98.02	0.024	0.024	250000	212500	5146.84
		6		Total	0.047			10053.71
D Shivajinagara Village Limits								
Tower Footing Area								
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount
Proposed 110KV D/C Towers (M/s Kalpatharu Design adopted for AEQUS Project)								
1	DA+3	2	15.60	0.004	0.008	310000	263500	2031.43
2	DD+6	1	49.56	0.012	0.012	310000	263500	3226.85
3	DD+12	2	73.60	0.018	0.036	310000	263500	9584.19
		5		Total	0.056			14842.47
E Shidenuru Village Limits								
Tower Footing Area								
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount
Proposed 110KV D/C Towers (M/s Kalpatharu Design adopted for AEQUS Project)								
1	DA+0	1	12.25	0.003	0.003	350000	297500	900.51
2	DA+3	6	15.60	0.004	0.023	350000	297500	6880.65
3	DB+3	1	26.21	0.006	0.006	350000	297500	1926.73
		8		Total	0.033			9707.89



F Masanagi Village Limits									
Tower Footing Area									
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount	
Proposed 110KV D/C Towers (M/s Kalpatharu Design adopted for AEQUS Project)									
1	DA+3	1	15.60	0.004	0.004	300000	255000	982.95	
2	DB+0	1	20.25	0.005	0.005	300000	255000	1275.95	
		2		Total	0.009			2258.90	
G Keravadi Village Limits									
Tower Footing Area									
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount	
Proposed 110KV D/C Towers (M/s Kalpatharu Design adopted for AEQUS Project)									
1	DA+0	1	12.25	0.003	0.003	340000	289000	874.78	
2	DA+3	5	15.60	0.004	0.019	340000	289000	5570.05	
3	DB+3	1	26.21	0.006	0.006	340000	289000	1871.68	
		7		Total	0.029			8316.52	
H Tipalapura Village Limits									
Tower Footing Area									
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount	
Proposed 110KV D/C Towers (M/s Kalpatharu Design adopted for AEQUS Project)									
1	DA+0	4	12.25	0.003	0.012	340000	289000	3499.14	
2	DA+3	1	15.60	0.004	0.004	340000	289000	1114.01	
3	DB+3	1	26.21	0.006	0.006	340000	289000	1871.68	
		6		Total	0.022			6484.83	



I Chinnikatti Village Limits								
Tower Footing Area								
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount
Proposed 110KV D/C Towers (M/s Kalpatharu Design adopted for AEQUS Project)								
1	DA+0	3	12.25	0.003	0.009	290000	246500	2238.42
2	DB+0	1	20.25	0.005	0.005	290000	246500	1233.41
		4		Total	0.014			3471.83
J Nagalapura Village Limits								
Tower Footing Area								
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount
Proposed 110KV D/C Towers (M/s Kalpatharu Design adopted for AEQUS Project)								
1	DA+0	1	12.25	0.003	0.003	270000	229500	694.68
2	DA+3	1	15.60	0.004	0.004	270000	229500	884.66
3	DD+0	1	30.25	0.007	0.007	270000	229500	1715.44
		3		Total	0.014			3294.77
K Nellikoppa Village Limits								
Tower Footing Area								
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount
110KV D/C Towers M/s Kalpatharu Design								
1	DA+0	1	12.25	0.003	0.003	260000	221000	668.95
2	DA+6	1	19.44	0.005	0.005	260000	221000	1061.59
3	DB+0	1	20.25	0.005	0.005	260000	221000	1105.82
4	DB+3	1	26.21	0.006	0.006	260000	221000	1431.28
5	DB+6	1	33.00	0.008	0.008	260000	221000	1802.08
6	DC+3	1	32.60	0.008	0.008	260000	221000	1780.23
		6		Total	0.036			7849.95





O Chikkalli Village Limits								
Tower Footing Area								
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount
Proposed 110KV D/C Towers (Design code: KPTCL-1D-AQUS)								
1	DA+0	2	12.25	0.003	0.006	270000	229500	1389.36
2	DA+3	1	15.60	0.004	0.004	270000	229500	884.66
3	DA+9	1	23.71	0.006	0.006	270000	229500	1344.56
4	DB+0	1	20.25	0.005	0.005	270000	229500	1148.35
5	DC+0	1	25.00	0.006	0.006	270000	229500	1417.72
6	DD+0	2	30.25	0.007	0.015	270000	229500	3430.87
		8		Total	0.042			9615.52
P Chikkabasura Village Limits								
Tower Footing Area								
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount
Proposed 110KV D/C Towers (Design code: KPTCL-1D-AQUS)								
1	DD+0	1	30.25	0.007	0.007	380000	323000	2414.32
2	DD+3	1	39.31	0.010	0.010	380000	323000	3137.42
Proposed 110KV M/C Towers (Design code: KPTCL-1M-CPRD)								
3	MA+0	1	36.00	0.009	0.009	380000	323000	2873.24
4	MA+3	4	46.24	0.011	0.046	380000	323000	14762.07
5	MC+3	1	60.84	0.015	0.015	380000	323000	4855.77
6	MD+0	1	60.84	0.015	0.015	380000	323000	4855.77
		9		Total	0.102			32898.59



Ghalapuji Village Limits									
Tower Footing Area									
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount	
Proposed 110KV M/C Towers (Design code: KPTCL-1M-CPRI)									
1	MA+0	2	36.00	0.009	0.018	260000	221000	3931.80	
2	MA+3	4	46.24	0.011	0.046	260000	221000	10100.36	
3	MA+6	4	57.76	0.014	0.057	260000	221000	12616.71	
4	MC+3	2	60.84	0.015	0.030	260000	221000	6644.74	
		12		Total	0.151			33293.62	
R Tilavalli Village Limits									
Tower Footing Area									
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount	
Proposed 110KV M/C Towers (Design code: KPTCL-1M-CPRI)									
1	MA+0	1	36.00	0.009	0.009	450000	382500	3402.52	
2	MD+3	1	72.25	0.018	0.018	450000	382500	6828.67	
Proposed 110KV D/C Towers (Design code: KPTCL-1D-AQUS)									
3	DD+0	1	30.25	0.007	0.007	450000	382500	2859.06	
		3		Total	0.034			13090.25	

Total No. of towers in the Line [in No.]

Compensation towards Tower Footing Area [in Rs.]

105  
201914.11



**Karnataka Power Transmission Corporation Limited**

**Survey Consultants: M/s Karnataka Surveyors, Bengaluru.**

<p><b>Name of Project:</b> Construction of Proposed 110kV DC line on DC/MC Towers from proposed 220/110kV R/S at Byadgi to the Existing 110/11kV S/S at Tiliuvalli, in Byadgi Taluk, Haveri District.</p>	
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Corporate Circular No.: KPTCL/SA8/B7/19105/15-16 Dated: 23.01.2019

**Length of the Line: 26.867 Kms.**

## Corridor Area as per Guideline Cost

1	Lakamajikoppa limits									
	Length of the Line (in Km):		0.269 Kms.					Guidance Value (in Rs.):	270000.00	Per Acre (Approx.)
	Line Corridor Area									
	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount					
	269	22	5918	1.46232						
	Calculation	Area in Acres	% on Guidance value/Acre							
	1.46	270000.00	15		59223.87					
2	Agasanahalli Village Limits:									
	Length of the Line (in Km):	1.214 Kms.						Guidance Value (in Rs.):	580000.00	Per Acre (Approx.)
	Line Corridor Area									
	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount					
	1214	22	26708	6.59946						
	Calculation	Area in Acres	% on Guidance value/Acre							
	6.60	580000.00	15		574152.71					
3	Ramagondanahalli Village Limits:									
	Length of the Line (in Km):	0.765 Kms.						Guidance Value (in Rs.):	250000.00	Per Acre (Approx.)
	Line Corridor Area									
	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount					



	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
	765	22	16830	4.15864	
Calculation	Area in Acres	Guidance value/Acre	% on Guidance value		
	4.16	250000.00	15		155948.85
4 Shivajinagara Village Limits:					
Length of the Line (in Km):		1.382 Kms.		Guidance Value (in Rs.):	310000.00 Per Acre (Approx.)
Line Corridor Area					
	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
	1382	22	30404	7.51273	
Calculation	Area in Acres	Guidance value/Acre	% on Guidance value		
	7.51	310000.00	15		349341.73
5 Shidenuru Village Limits:					
Length of the Line (in Km):		1.96 Kms.		Guidance Value (in Rs.):	350000.00 Per Acre (Approx.)
Line Corridor Area					
	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
	1960	22	43120	10.65481	
Calculation	Area in Acres	Guidance value/Acre	% on Guidance value		
	10.65	350000.00	15		559377.32
6 Masanagi Village Limits:					
Length of the Line (in Km):		0.94 Kms.		Guidance Value (in Rs.):	300000.00 Per Acre (Approx.)





		Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
	Line Corridor Area					
		Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
		940	22	20680	5.10996	
	Calculation	Area in Acres	Guidance value/Acre	% on Guidance value		
		5.11	300000.00	15		229948.11
	7 Keravadi Village Limits:					
		Length of the Line (in Km):	1.992 Kms.		Guidance Value (in Rs.):	340000.00 Per Acre (Approx.)
	Line Corridor Area					
		Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
		1992	22	43824	10.82876	
	Calculation	Area in Acres	Guidance value/Acre	% on Guidance value		
		10.83	340000.00	15		552266.86
	8 Tipalapura Village Limits:					
		Length of the Line (in Km):	1.619 Kms.		Guidance Value (in Rs.):	340000.00 Per Acre (Approx.)
	Line Corridor Area					
		Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
		1619	22	35618	8.80109	
	Calculation	Area in Acres	Guidance value/Acre	% on Guidance value		
		8.80	340000.00	15		448855.45



	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
9	Chinnikatti Village Limits:				
	Length of the Line (in Km):	1.036 Kms.		Guidance Value (in Rs.):	290000.00 Per Acre (Approx.)
	Line Corridor Area				
	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
	1036	22	22792	5.63183	
	Calculation	Area in Acres	% on Guidance value/Acre		
	5.63	290000.00	15		244984.43
10	Nagalapura Village Limits:				
	Length of the Line (in Km):	1.021 Kms.		Guidance Value (in Rs.):	270000.00 Per Acre (Approx.)
	Line Corridor Area				
	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
	1021	22	22462	5.55028	
	Calculation	Area in Acres	% on Guidance value/Acre		
	5.55	270000.00	15		224786.51
11	Nellikoppa Village Limits:				
	Length of the Line (in Km):	1.712 Kms.		Guidance Value (in Rs.):	260000.00 Per Acre (Approx.)
	Line Corridor Area				
	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
	1712	22	37664	9.30665	



	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
Calculation	Area in Acres	Guidance value/Acre	% on Guidance value		
	9.31	260000.00	15		362959.23
12 Kummura Village Limits:					
Length of the Line (in Km):		1.478 Kms.		Guidance Value (in Rs.):	390000.00 Per Acre (Approx.)
Line Corridor Area					
	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
	1478	22	32516	8.03459	
Calculation	Area in Acres	Guidance value/Acre	% on Guidance value		
	8.03	390000.00	15		470023.72
13 Badamali Village Limits:					
Length of the Line (in Km):		2.088 Kms.		Guidance Value (in Rs.):	270000.00 Per Acre (Approx.)
Line Corridor Area					
	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
	2088	22	45936	11.35063	
Calculation	Area in Acres	Guidance value/Acre	% on Guidance value		
	11.35	270000.00	15		459700.52



	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
14 Hirehalli Village Limits:					
Length of the Line (in Km):		1.134 Kms.		Guidance Value (in Rs.):	330000.00 Per Acre (Approx.)
Line Corridor Area					
	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
	1134	22	24948	6.16457	
Calculation	Area in Acres	Guidance value/Acre	% on Guidance value		
	6.16	330000.00	15		305146.03
15 Chikkalli Village Limits:					
Length of the Line (in Km):		2.02 Kms.		Guidance Value (in Rs.):	270000.00 Per Acre (Approx.)
Line Corridor Area					
	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
	2020	22	44440	10.98097	
Calculation	Area in Acres	Guidance value/Acre	% on Guidance value		
	10.98	270000.00	15		444729.43
16 Chikkabasura Village Limits:					
Length of the Line (in Km):		2.154 Kms.		Guidance Value (in Rs.):	380000.00 Per Acre (Approx.)
Line Corridor Area					
	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
	2154	22	47388	11.70941	





	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
Calculation	Area in Acres	Guidance value/Acre	% on Guidance value		
	11.71	380000.00	15		667436.62
17 Ghalapuji Village Limits:					
Length of the Line (in Km):		3.454 Kms.		Guidance Value (in Rs.) :	260000.00 Per Acre (Approx.)
Line Corridor Area					
	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
	3454	22	75988	18.77638	
Calculation	Area in Acres	Guidance value/Acre	% on Guidance value		
	18.78	260000.00	15		732278.72
18 Tilavalli Village Limits:					
Length of the Line (in Km):		0.629 Kms.		Guidance Value (in Rs.) :	450000.00 Per Acre (Approx.)
Line Corridor Area					
	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
	629	22	13838	3.41932	
Calculation	Area in Acres	Guidance value/Acre	% on Guidance value		
	3.42	450000.00	15		230804.30
Grand Total for Line Corridor Area					
Length of the Line [in Km.]				26.867	
Land Compensation for Corridor Area [in Rs.]				7071964.42	



# **KARNATAKA POWER TRANSMISSION CORPORATION LIMITED**

Name of Project: Construction of Proposed 110kV DC line on DC/MC Towers from proposed 220/110KV R/S at Byadgi to the Existing 110/11KV S/S at Tiluvalli, in Byadgi Taluk, Haveri District.

ABSTRACT		
Sl. No.	Particulars	Compensation Amount [in Rs.]
1	Line Corridor Area	7071964.42
2	Tower Footing Area	201914.11
Total cost of Land Compensation		7273878.53



For Karnataka Surveyors

*Grand*

Assistant Engineer Ele.,  
Major Works Sub - Division  
KPTCL, Haveri

*Grand*

Assistant Executive Engineer Ele.,  
Major Works Sub - Division  
KPTCL, Haveri

*Grand*

Executive Engineer Ele.,  
Major Works Division  
KPTCL, Haveri

*Grand*

Superintending Engineer Ele.,  
Transmission (W&M) Circle  
KPTCL, Hubballi





**Karnataka Power Transmission Corporation Limited**

**DETAILED SURVEY REPORT FOR**

**Construction of 110kV LILO line from proposed 220kV R/S Byadagi to LILO of the existing 110kV Aremallapura - Honnatti line in Byadgi and Ranebennur Taluk, Haveri District.**

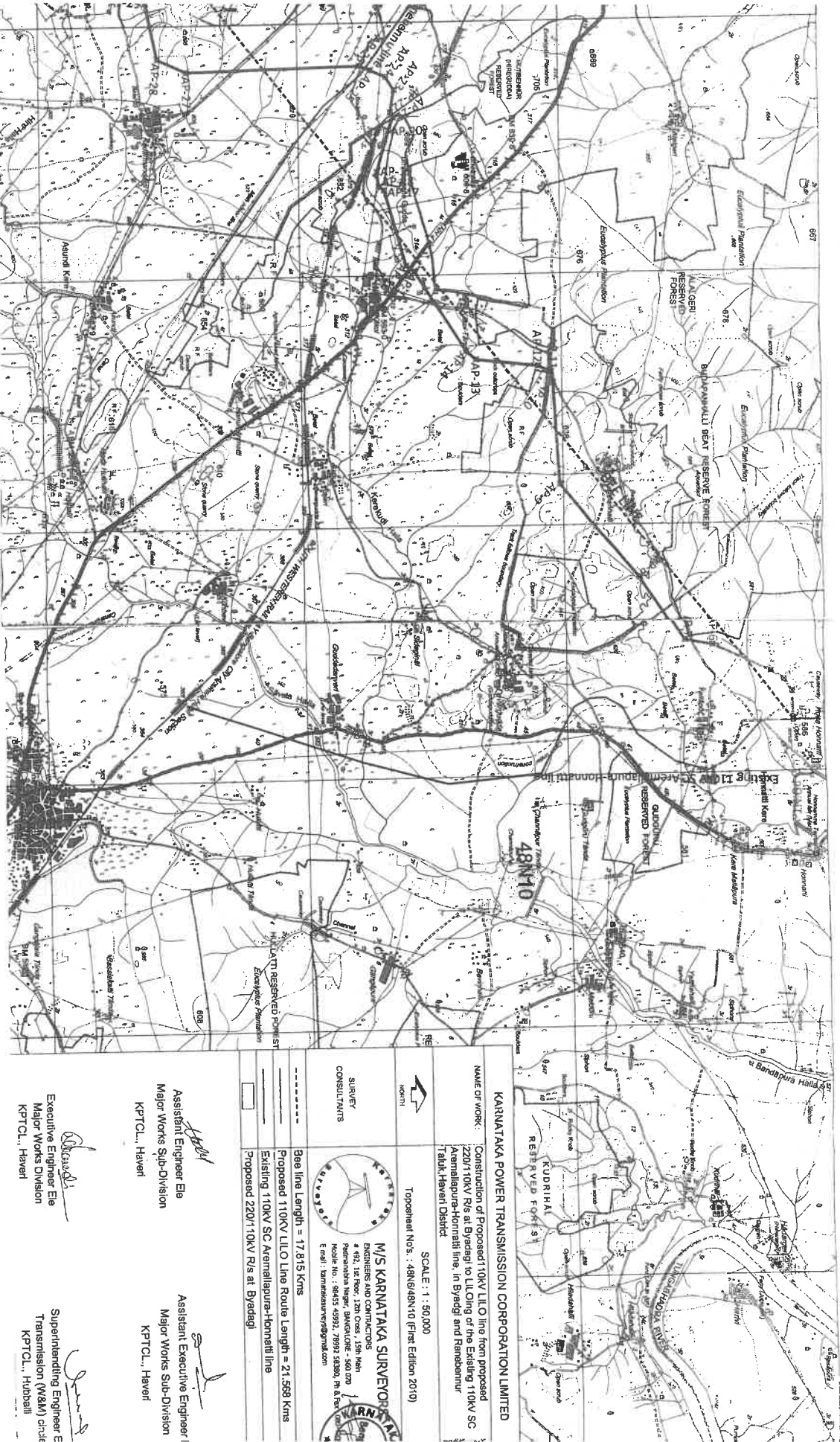
**ROUTE LENGTH = 21.729KMS**

**SURVEY CONSULTANTS**

**KARNATAKA SURVEYORS  
No.492, 1<sup>st</sup> Floor, 12<sup>th</sup> Cross  
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e-mail: karnatakasurveys@gmail.com**





**KARNATAKA POWER TRANSMISSION CORPORATION LIMITED**

NAME OF WORK : Construction of Proposed 110KV LILo line from proposed 220/110KV R/S at Byadgi to LILoing of the Existing 110KV SC Aremali-pure-Honnatti line, in Byadgi and Randanur Taluk, Heven District

SCALE : 1 : 50,000  
Toposheet Nos. : 48N/68N/10 (First Edition 2010)

SURVEY CONSULTANTS



**M/S KARNATAKA SURVEYORS ENGINEERS AND CONTRACTORS**  
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Mobile No. : 98453 45991, 78999 58300, 91 8 676 000 1  
E mail : karnatakasurveyors@gmail.com

Base line Length = 17.815 Kms

Proposed 110KV LILo Line Route Length = 21.568 Kms

Existing 110KV SC Aremali-pure-Honnatti line

Proposed 220/110KV R/S at Byadgi

Assistant Engineer Eie  
Major Works Sub-Division  
KPTCL, Heven

Assistant Executive Engineer  
Major Works Sub-Division  
KPTCL, Heven

Executive Engineer Eie  
Major Works Division  
KPTCL, Heven

Superintending Engineer E  
Transmission (V&M) circle  
KPTCL, Hubballi





**KARNATAKA POWER TRANSMISSION CORPORATION LIMITED**

Name of Project: Construction of 110kV LILO line from proposed 220/110KV R/S Byadagi to LILOing of the existing 110KV Aremallapura - Honnatti line, in Byadgi and Ranebennur Taluk, Haveri District.

**SURVEY CONSULTANTS: KARNATAKA SURVEYORS, BANGALORE**

**CONTENTS**

SL No.	Description	Page No.
1	Topo Map (Scale=1:50,000)	1
2	Tower Schedule and Abstract of Towers	2-9
3	Soil Resistivity Report	10
4	Line Schedule and Abstract of Lines	11-14
5	Tree Schedule and Abstract of Trees	15-21
6	Route Sketch	22
7	Soil Classification and Abstract of Foundation	23-30
8	Kaveri Online (as per guidelines)	31-38
9	Corridor Area As per Guideline Cost	39-41
10	Tower foot Area As per Guideline Cost	42-45
11	Detailed of Land Schedule along the Right of Way, Revenue Survey Numbers	46-47
12	Digitized Village Map, with Geo Referenced and Super Imposed on the Line Corridor	48-49
13	Route Profile	50-55



# Name of Client: M/s KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

Name of Project: Construction of 110kV LILO line from proposed 220/110KV R/S at Byadagi to LILOing of the existing 110kV SC Aremallapura - Honnatti line, in Byadgi and Ranebennur Taluk, Haveri District.

Survey Consultantas:- Karnataka Surveyors, Bangalore

## TOWER SCHEDULE

ROUTE LENGTH=21.729KMS

Sl. No.	Twr No.	Tower Type	Deviation Angle (DMS)	Span (m)	Section Length (m)	Cum. Chainage (m)	Wind Span (m)	Adjacent Span			Weight Span (Hot)			Major Crossings / Remarks (With in ROW)	UTM Coordinates (Zone - 43P)			Spherical Coordinates		Tower Survey Nos	Village Limits
								Left	Right	Total	Left	Right	Total		Easting	Northing	Elevation	Longitude	Latitude		
✓	AP1	DD+00 LILO Tower					21.0	0.0	42.0	42.0	0.0	31.7	31.7	LILOing of existing 110KV SC Aremallapura - Honnatti line, in between T.No.6 AP & 7 AP.	5,66,382.659	16,30,175.635	569.000	75°37'00.24" E	14°44'40.78" N	69	Hannumapura
				42.0																	
✓	AP2	DD+00	00°07'07" LT		42.0	42.0	146.0	42.0	250.0	292.0	10.3	134.4	144.7		5,66,341.024	16,30,173.792	568.753	75°36'58.85" E	14°44'40.72" N	69	Hannumapura
				250.0										LT Line(EC=5.70m), 11kV Line 3nos (EC=4.60m,5.10m,5.40m), Tar Road from Yallapur - Hosa Honnatti.							
✓	2/1	DA+00		210.0		292.0	230.0	250.0	210.0	460.0	115.6	101.5	217.1		5,66,091.288	16,30,162.217	567.460	75°36'50.50" E	14°44'40.37" N	68	Hannumapura
✓	AP3	DD+00	30°04'49" LT		460.0	502.0	231.5	210.0	253.0	463.0	108.5	109.6	218.1		5,65,881.963	16,30,152.515	567.860	75°36'43.49" E	14°44'40.07" N	68	Hannumapura
				253.0										LT Line(EC=5.0m)							
✓	AP4	DC+03	24°37'56" LT		253.0	755.0	267.0	253.0	281.0	534.0	143.4	145.2	288.5		5,65,669.436	16,30,015.897	567.198	75°36'36.37" E	14°44'35.64" N	75	Hannumapura
				281.0										11kV Line(EC=4.0mm), LT Line(EC=3.70m)							
✓	AP5	DB+03	07°43'11" LT		281.0	1,036.0	271.5	281.0	262.0	543.0	135.8	148.7	284.6		5,65,517.675	16,29,778.904	566.479	75°36'31.28" E	14°44'27.94" N	79	Hannumapura
				262.0										11kV Line 2nos(EC=6.50m,8.40m)							
✓	5/1	DA+03				1,298.0	276.0	262.0	290.0	552.0	113.3	155.3	268.5		5,65,407.305	16,29,541.286	563.933	75°36'27.56" E	14°44'20.22" N	80	Hannumapura
				290.0										Cart Track, Canal							
✓	5/2	DA+03				1,588.0	290.0	290.0	290.0	580.0	134.7	90.7	225.4		5,65,285.139	16,29,278.273	562.302	75°36'23.46" E	14°44'11.67" N	82	Hannumapura
				290.0																	
✓	5/3	DA+03				1,878.0	291.5	290.0	293.0	583.0	199.3	111.7	311.0		5,65,162.973	16,29,015.261	570.927	75°36'19.35" E	14°44'03.12" N	83	Hannumapura
				293.0										Cart Track							
✓	AP6	DC+00	14°03'50" LT		1,135.0	2,171.0	271.5	293.0	250.0	543.0	181.3	161.1	342.5		5,65,039.728	16,28,749.924	579.515	75°36'15.20" E	14°43'54.50" N	59	Honnatti
				250.0																	
✓	6/1	DA+03				2,421.0	249.5	250.0	249.0	499.0	88.9	181.3	270.1		5,64,992.667	16,28,504.396	571.568	75°36'13.60" E	14°43'46.51" N	60	Honnatti

7

Sl. No	Twr No.	Tower Type	Deviation Angle (DMS)	Span (m)	Section Length (m)	Cum. Chainage (m)	Wind Span (m)	Adjacent Span			Weight Span (Hot)			Major Crossings / Remarks (With in ROW)	UTM Coordinates (Zone - 43P)			Spherical Coordinates		Tower Survey	Village Limit
								Left	Right	Total	Left	Right	Total		Easting	Northing	Elevation	Longitude	Latitude		
				249.0										11kV Line 2nos(EC=4.30m, 4.10m), Tar Road from Hose Honnatti to Budapanahalli	5,64,945.718	16,28,259.449	566.829	75°36'12.01" E	14°43'38.54" N	61	Honnatti
	AP7	DD+00	45°04'34" RT		499.0	2,670.0	267.0	249.0	285.0	534.0	67.7	104.2	171.9								
				285.0																	
	7/1	DA+03				2,955.0	285.0	285.0	285.0	570.0	180.8	148.0	328.9		5,64,709.644	16,28,099.774	569.810	75°36'04.10" E	14°43'33.36" N	55	Honnatti
				285.0										LT Line(EC=3.20m)							
	7/2	DA+03				3,240.0	287.5	285.0	290.0	575.0	137.0	166.8	303.7		5,64,473.573	16,27,940.101	568.947	75°35'56.19" E	14°43'28.19" N	54	Honnatti
				290.0										LT Line(EC=8.20m)							
	7/3	DA+00				3,530.0	288.0	290.0	286.0	576.0	123.2	122.7	246.0		5,64,233.361	16,27,777.626	568.492	75°35'48.15" E	14°43'22.92" N	76	Budapanahal
				286.0										LT Line(EC=5.9m)							
	AP8	DC+03	22°30'19" LT		1,146.0	3,816.0	283.0	286.0	280.0	566.0	163.3	101.1	264.4	Nala	5,63,996.270	16,27,617.263	568.664	75°35'40.20" E	14°43'17.72" N	76	Budapanahal
				280.0																	
	8/1	DA+06				4,096.0	277.5	280.0	275.0	555.0	178.9	136.1	315.0		5,63,842.050	16,27,383.564	571.622	75°35'35.03" E	14°43'10.13" N	79/K	Budapanahal
				275.0										11kV Line(EC=4.6m)							
	8/2	DA+03				4,371.0	275.0	275.0	275.0	550.0	138.9	133.1	272.0		5,63,690.584	16,27,154.036	574.826	75°35'29.94" E	14°43'02.67" N	79/A	Budapanaha
				275.0																	
	8/3	DA+00				4,646.0	277.5	275.0	280.0	555.0	141.9	110.5	252.4		5,63,539.117	16,26,924.508	578.485	75°35'24.86" E	14°42'55.21" N	79/A	Budapanaha
				280.0										Cart Track, 11kV Line(4.0m)							
	AP9	DD+00	31°35'29" RT		1,110.0	4,926.0	287.5	280.0	295.0	575.0	169.5	60.4	229.9		5,63,384.935	16,26,690.866	583.007	75°35'19.68" E	14°42'47.62" N	82/D	Budapanaha
				295.0										Road, 11kV Line(EC=5.5m)							
	9/1	DA+06				5,221.0	292.5	295.0	290.0	585.0	234.6	102.0	336.6		5,63,117.548	16,26,566.251	591.075	75°35'10.73" E	14°42'43.59" N	82/D	Budapanaha
				290.0																	
	9/2	DA+06				5,511.0	290.0	290.0	290.0	580.0	188.0	81.5	269.4		5,62,854.692	16,26,443.748	597.899	75°35'01.93" E	14°42'39.62" N	82/D/2	Budapanaha
				290.0																	
	9/3	DA+06				5,801.0	290.0	290.0	290.0	580.0	208.5	161.3	369.9		5,62,591.836	16,26,321.246	607.991	75°34'53.13" E	14°42'35.66" N	82/K	Budapanaha
				290.0																	
	9/4	DA+06				6,091.0	291.0	290.0	292.0	582.0	128.7	245.0	373.7		5,62,328.981	16,26,198.743	605.400	75°34'44.33" E	14°42'31.69" N	86	Budapanaha
				292.0										Road							



Sl. No	Twr No.	Tower Type	Deviation Angle (DMS)	Span (m)	Section Length (m)	Cum. Chainage (m)	Wind Span (m)		Adjacent Span		Weight Span (Hot)		Major Crossings / Remarks (With in ROW)	UTM Coordinates (Zone - 43P)			Spherical Coordinates		Tower Survey Nos	Village Limits
							Left	Right	Left	Right	Left	Right		Easting	Northing	Elevation	Longitude	Latitude		
<del>25</del>	AP10	DC+03	21°55'18" RT		2,287.0	6,383.0	273.5		292.0	255.0	47.0	76.4	123.4	5,62,064.359	16,26,075.417	592.570	75°34'35.47" E	14°42'27.70" N	90	Budapanahalli
				255.0									11kV Line 2nos(EC=10.0m,11.40m)							
<del>26</del>	AP10/1	DA+09				6,638.0	255.0		255.0	255.0	178.6	95.8	274.4	5,61,809.724	16,26,061.777	593.701	75°34'26.95" E	14°42'27.28" N	89	Budapanahalli
				255.0									Tar Road from Budapanahalli - Kajjari, 11kV Line (EC=5.60m)							
<del>27</del>	10/2	DA+06				6,893.0	255.0		255.0	255.0	159.2	138.9	298.1	5,61,555.089	16,26,048.138	601.129	75°34'18.43" E	14°42'26.86" N	100	Budapanahalli
				255.0									Cart Track							
<del>28</del>	10/3	DB+00	00°00'00"			7,148.0	255.0		255.0	255.0	116.1	20.4	136.5	5,61,300.454	16,26,034.498	605.541	75°34'09.92" E	14°42'26.43" N	98	Budapanahalli
				255.0									SECTION TOWER							
<del>29</del>	10/4	DA+00				7,403.0	260.0		255.0	265.0	234.6	148.6	383.2	5,61,045.819	16,26,020.859	620.499	75°34'01.40" E	14°42'26.01" N	111	Budapanahalli
				265.0									Cart Track							
<del>30</del>	10/5	DA+00				7,668.0	262.5		265.0	260.0	116.4	138.4	254.9	5,60,781.199	16,26,006.684	618.167	75°33'52.55" E	14°42'25.57" N	111	Budapanahalli
				260.0									11kV Line (EC=4.90m)							
<del>31</del>	10/6	DA+00				7,928.0	258.5		260.0	257.0	121.6	130.8	252.4	5,60,521.571	16,25,992.777	616.966	75°33'43.87" E	14°42'25.14" N	111	Budapanahalli
				257.0									LT Line(EC=7.60m)							
<del>32</del>	AP11	DB+00	07°07'41" LT		1,802.0	8,185.0	227.0		257.0	197.0	126.2	95.7	221.9	5,60,265.392	16,25,979.055	616.640	75°33'35.30" E	14°42'24.71" N	111	Budapanahalli
				197.0									Cart Track							
<del>33</del>	AP12	DD+00	52°48'17" LT		197.0	8,382.0	219.0		197.0	241.0	101.3	160.9	262.2	5,60,071.544	16,25,944.196	616.944	75°33'28.82" E	14°42'23.59" N	68	Kajjari
				241.0									LT Line (EC=5.50m)							
<del>34</del>	AP13	DC+00	20°38'17" LT		241.0	8,623.0	258.0		241.0	275.0	80.1	121.0	201.2	5,59,962.120	16,25,729.452	611.617	75°33'25.14" E	14°42'16.61" N	69	Kajjari
				275.0									11kV Line (EC=4.50m), Cart Track							
<del>35</del>	13/1	DA+03				8,898.0	275.0		275.0	275.0	154.0	160.4	314.4	5,59,931.643	16,25,456.146	611.099	75°33'24.10" E	14°42'07.72" N	69	Kajjari
				275.0																
<del>36</del>	13/2	DA+03				9,173.0	275.0		275.0	275.0	114.6	165.0	279.6	5,59,901.165	16,25,182.840	607.654	75°33'23.06" E	14°41'58.83" N	64&59	Kajjari
				275.0																
<del>37</del>	13/3	DA+00				9,448.0	276.5		275.0	278.0	110.0	175.6	285.6	5,59,870.687	16,24,909.534	606.515	75°33'22.02" E	14°41'49.93" N	59	Kajjari
				278.0									Cart Track							
<del>38</del>	AP14	DD+00	35°29'31" RT		1,103.0	9,726.0	254.5		278.0	231.0	102.4	159.5	261.8	5,59,839.851	16,24,633.010	600.942	75°33'20.96" E	14°41'40.94" N	58&55	Kajjari
				231.0																





Sl. No	Twr No.	Tower Type	Deviation Angle (DMS)	Span (m)	Section Length (m)	Cum. Chainage (m)	Wind Span (m)	Adjacent Span			Weight Span (Hot)			Major Crossings / Remarks (With in ROW)	UTM Coordinates (Zone - 43P)			Spherical Coordinates		Tower Survey Nos	Village Limits
								Left	Right	Total	Left	Right	Total		Easting	Northing	Elevation	Longitude	Latitude		
38	AP/15	DB+00	07°31'43" RT	295.0	231.0	9,957.0	263.0	231.0	295.0	526.0	71.5	146.0	217.5		5,59,685.516	16,24,460.729	595.382	75°33'15.79" E	14°41'35.34" N	57	Kajjari
39	15/1	DA+03		295.0		10,252.0	295.0	295.0	295.0	590.0	149.0	128.5	277.5	LT Line(EC=8.7m)	5,59,461.583	16,24,268.684	592.628	75°33'08.28" E	14°41'29.11" N	45&39	Kakola
41	15/2	DA+03		295.0		10,547.0	287.5	295.0	280.0	575.0	166.5	132.7	299.2		5,59,237.653	16,24,076.642	595.701	75°33'00.78" E	14°41'22.87" N	44	Kakola
42	15/3	DA+06		280.0		10,827.0	284.5	280.0	289.0	569.0	147.3	214.5	361.8	11kV Line(EC=5.0m)	5,59,025.110	16,23,894.364	593.822	75°32'53.66" E	14°41'16.96" N	42	Kakola
43	AP/16	DD+00	29°40'36" RT	289.0	1,159.0	11,116.0	289.5	289.0	290.0	579.0	74.5	101.6	176.2	LT Line(EC=11.6m), Cart Track, Nala	5,58,805.791	16,23,706.276	588.751	75°32'46.31" E	14°41'10.85" N	55	Kakola
44	16/1	DA+06		290.0		11,406.0	290.5	290.0	291.0	581.0	188.4	93.9	282.2	11kV Line(EC=4.0m), Road, LT Line(EC=4.5m), Garden	5,58,521.056	16,23,651.241	589.636	75°32'36.79" E	14°41'09.09" N	7	Kakola
45	AP/17	DD+09	52°30'04" LT	291.0	581.0	11,697.0	244.5	291.0	198.0	489.0	197.1	104.8	301.9		5,58,235.226	16,23,595.994	594.864	75°32'27.22" E	14°41'07.31" N	13	Kakola
46	AP/18	DD+09	47°42'34" RT	285.0	198.0	11,895.0	241.5	198.0	285.0	483.0	93.2	184.8	278.0	Naional Highway-4 (AH-47) from Pune - Bengaluru, (EC=17.50m), AC=90° Crossing between Kakola & Motibennur Village, 11kV Line 2nos(EC=10.8m, 11.7m)	5,58,146.814	16,23,419.125	594.237	75°32'24.25" E	14°41'01.56" N	182	Kakola
47	18/1	DA+00		295.0		12,180.0	290.0	285.0	295.0	580.0	100.2	112.6	212.8	LT Line (EC=6.20m)	5,57,872.487	16,23,341.853	596.632	75°32'15.08" E	14°40'59.07" N	159	Kakola
48	18/2	DA+03		270.0		12,475.0	282.5	295.0	270.0	565.0	182.4	101.1	283.5	LT Line (EC=8.40m)	5,57,588.537	16,23,261.871	599.274	75°32'05.57" E	14°40'56.48" N	161	Kakola
49	18/3	DA+06		270.0		12,745.0	270.0	270.0	270.0	540.0	168.9	91.4	260.3	LT Line 2nos (EC=7.80m,10.70m)	5,57,328.650	16,23,188.667	601.285	75°31'56.88" E	14°40'54.12" N	162	Kakola
50	18/4	DB+09		276.0		13,015.0	273.0	270.0	276.0	546.0	178.6	89.3	267.9	11kV Line (EC=11.10m)	5,57,068.763	16,23,115.463	604.730	75°31'48.18" E	14°40'51.76" N	171	Kakola
51	AP/19	DD+09	40°02'49" LT	114.0	1,396.0	13,291.0	195.0	276.0	114.0	390.0	186.7	79.2	265.9	Cart Track, LT Line (EC=14.30m)	5,56,803.367	16,23,040.707	612.088	75°31'39.30" E	14°40'49.35" N	164&171	Kakola
														Proposed 110kV Transmission Line, (Under Detailed Survey Progress)							



Sl. No	Twr No.	Tower Type	Deviation Angle (DMS)	Span (m)	Section Length (m)	Cum. Chainage (m)	Wind Span (m)	Adjacent Span		Weight Span (Hwt)		Major Crossings / Remarks (With in ROW)	UTM Coordinates (Zone - 43P)			Spherical Coordinates		Tower Survey Nos	Village Limits
								Left	Right	Total	Left	Right	Easting	Northing	Elevation	Longitude	Latitude		
53	AP20	DD+09	48°20'43" RT	267.0	114.0	13,405.0	190.5	114.0	267.0	381.0	34.8	157.9	5,56,739.337	16,22,946.567	610.700	75°31'37.16" E	14°40'46.29" N	164	Kakola
54	AP21	DC+03	23°11'29" RT	255.0	267.0	13,672.0	261.0	267.0	255.0	522.0	109.1	135.0	5,56,474.436	16,22,912.007	613.131	75°31'28.30" E	14°40'45.18" N	165	Kakola
55	21/1	DA+00		255.0		13,927.0	255.0	255.0	255.0	510.0	120.0	99.9	5,56,229.021	16,22,981.260	615.085	75°31'20.10" E	14°40'47.45" N	166	Kakola
56	21/2	DA+00		255.0		14,182.0	256.5	255.0	258.0	513.0	155.1	85.2	5,55,983.605	16,23,050.514	618.945	75°31'11.90" E	14°40'49.73" N	167&168	Kakola
57	AP22	DB+03	05°10'15" RT	243.0	768.0	14,440.0	250.5	258.0	243.0	501.0	172.8	48.2	5,55,735.720	16,23,120.464	622.136	75°31'03.61" E	14°40'52.02" N	169	Kakola
58	AP23	DD+09	52°29'43" LT	102.0	243.0					345.0	194.8	-12.4	5,55,508.921	16,23,207.202	625.890	75°30'56.04" E	14°40'54.86" N	109	Byadagi
59	AP24	DD+09	41°34'52" RT	205.0	102.0	14,785.0	153.5	205.0	205.0	307.0	114.4	99.0	5,55,422.358	16,23,154.019	629.432	75°30'53.14" E	14°40'53.14" N	109	Byadagi
60	24/1	DA+03		202.0		14,990.0	203.5	205.0	202.0	407.0	106.0	135.5	5,55,220.482	16,23,189.670	635.829	75°30'46.39" E	14°40'54.31" N	107	Byadagi
61	AP25	DD+00	41°03'04" LT	275.0	407.0	15,192.0	238.5	202.0	275.0	477.0	66.5	133.1	5,55,021.975	16,23,224.727	635.008	75°30'39.76" E	14°40'55.47" N	105&106	Byadagi
62	AP26	DD+03	34°56'33" LT	300.0	275.0	15,467.0	287.5	275.0	300.0	575.0	141.9	155.0	5,54,786.588	16,23,083.091	632.677	75°30'31.88" E	14°40'50.88" N	102&103	Byadagi
63	AP27	DD+12	01°30'53" LT	202.0	300.0	15,767.0	251.0	300.0	202.0	502.0	145.0	154.9	5,54,664.560	16,22,809.290	622.860	75°30'27.78" E	14°40'41.97" N	100	Byadagi



Sl. No	Twr No.	Tower Type	Deviation Angle (DMS)	Span (m)	Section Length (m)	Cum. Chainage (m)	Wind Span (m)	Adjacent Span			Weight Span (Hot)			Major Crossings / Remarks (With in ROW)	UTM Coordinates (Zone - 43P)				Spherical Coordinates		Tower Survey Nos	Village Limits
								Left	Right	Total	Left	Right	Total		Easting	Northing	Elevation	Longitude	Latitude			
0	AP28	MD+12	23°49'35" LT		202.0	15,969.0	241.0	202.0	280.0	482.0	47.1	197.5	244.6	Joining to the Proposed 110KV DC line on MC Towers from Proposed 220/110KV R/S at Byadgi to existing 110/11KV S/S at byadgi line, Proposed Tower.NO.24, (AP-7), MC Line Corridor Starts	5,54,587.073	16,22,622.283	616.899	75°30'25.17" E	14°40'35.89" N	118	Byadagi	
				280.0										33KV Line(EC=15.10m)								
0	28/1	MC+06				16,249.0	280.0	280.0	280.0	560.0	82.5	148.6	231.1		5,54,593.521	16,22,342.358	614.083	75°30'25.36" E	14°40'26.78" N	117&115	Byadagi	
				280.0																		
0	28/2	MA+00				16,529.0	270.0	280.0	260.0	540.0	131.4	90.2	221.6		5,54,599.969	16,22,062.432	618.767	75°30'25.56" E	14°40'17.67" N	122	Byadagi	
				260.0																		
0	28/3	MA+00				16,789.0	270.0	260.0	280.0	540.0	169.8	128.2	298.1		5,54,605.956	16,21,802.501	624.439	75°30'25.74" E	14°40'09.21" N	123&37	Byadagi	
				280.0										Cart Track								
0	28/4	MA+03				17,069.0	282.5	280.0	285.0	565.0	151.8	180.5	332.3		5,54,612.404	16,21,522.575	623.245	75°30'25.93" E	14°40'00.10" N	36	Kadaramadalagi	
				285.0																		
0	28/5	MA+00				17,354.0	282.5	285.0	280.0	565.0	104.5	139.0	243.5		5,54,618.967	16,21,237.651	620.317	75°30'26.13" E	14°39'50.82" N	29	Kadaramadalagi	
				280.0																		
0	28/6	MC+00	00°00'00"			17,634.0	280.0	280.0	280.0	560.0	141.0	113.9	254.8		5,54,625.415	16,20,957.725	620.467	75°30'26.33" E	14°39'41.71" N	28	Kadaramadalagi	
				280.0																		
0	28/7	MA+03				17,914.0	277.5	280.0	275.0	555.0	166.1	136.4	302.6		5,54,631.863	16,20,677.799	621.475	75°30'26.52" E	14°39'32.60" N	25	Kadaramadalagi	
				275.0										11KV Line (EC=3.70m)								
0	28/8	MA+03				18,189.0	282.5	275.0	290.0	565.0	138.6	168.0	306.5		5,54,638.196	16,20,402.872	621.638	75°30'26.71" E	14°39'23.65" N	340	Kadaramadalagi	
				290.0										Road, 11KV Line (EC=6.20m), Cart Track, LT Line (EC=8.0m)								
0	28/9	MA+03				18,479.0	290.0	290.0	290.0	580.0	122.0	129.6	251.6		5,54,644.874	16,20,112.949	617.991	75°30'26.91" E	14°39'14.21" N	339	Kadaramadalagi	
				290.0										LT Line 4nos (EC=6.90m,5.90m,3.70m,6.80m)								
0	28/10	MA+03				18,769.0	287.5	290.0	285.0	575.0	160.4	146.0	306.4		5,54,651.552	16,19,823.026	620.435	75°30'27.12" E	14°39'04.78" N	338	Kadaramadalagi	
				285.0										LT Line 2nos(EC=4.10m,4.10m)								
0	AP29	MC+00	25°58'32" RT		3,085.0	19,054.0	285.0	285.0	285.0	570.0	139.0	37.3	176.2		5,54,658.122	16,19,537.805	622.884	75°30'27.31" E	14°38'55.49" N	314	Kadaramadalagi	
				285.0										Nala								
0	29/1	MA+06				19,339.0	278.0	285.0	271.0	556.0	247.7	149.7	397.4		5,54,539.227	16,19,278.786	633.307	75°30'23.32" E	14°38'47.07" N	316	Kadaramadalagi	
				271.0																		
0	AP30	MD+06	53°36'02" RT		556.0	19,610.0	268.0	271.0	265.0	536.0	121.3	164.2	285.5		5,54,426.071	16,19,032.267	631.199	75°30'19.52" E	14°38'39.06" N	317	Kadaramadalagi	
				265.0										LT Line (EC=4.90m)								

Owner: KPTCL

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Sl. No	Twr No.	Tower Type	Deviation Angle (DMS)	Span (m)	Section Length (m)	Cum. Chainage (m)	Wind Span (m)		Adjacent Span		Weight Span (Hot)		Major Crossings / Remarks (With in ROW)	UTM Coordinates (Zone - 43P)			Spherical Coordinates		Tower Survey Nos	Village Limits
							Left	Right	Left	Right	Left	Right		Easting	Northing	Elevation	Longitude	Latitude		
0	30/1	MA+00				19,875.0	257.5	257.5	250.0	250.0	100.8	133.7	234.5	5,54,166.6:6	16,18,978.331	632.595	75°30'10.84" E	14°38'37.32" N	320	Kadaramadlagi
0	30/2	MA+00		250.0		20,125.0	252.5	252.5	250.0	255.0	116.3	94.3	210.6	5,53,921.849	16,18,927.449	631.401	75°30'02.66" E	14°38'35.68" N	322	Kadaramadlagi
0	30/3	MA+03		255.0		20,380.0	249.0	249.0	255.0	243.0	160.7	118.3	279.0	5,53,672.186	16,18,875.549	633.033	75°29'54.31" E	14°38'34.01" N	322&326	Kadaramadlagi
0	AP31	MD+00	29°52'24" RT	243.0	1,013.0	20,623.0	236.5	236.5	243.0	230.0	124.7	86.6	211.3	5,53,434.483	16,18,826.135	636.457	75°29'46.36" E	14°38'32.42" N	326&22	Kadaramadlagi
0	31/1	MA+00		230.0		20,853.0	232.5	232.5	230.0	235.0	143.4	83.9	227.3	5,53,215.897	16,18,897.706	640.033	75°29'39.05" E	14°38'34.76" N	22	Lakamajikoppa
0	31/2	MA+00		235.0		21,088.0	232.5	232.5	235.0	230.0	151.1	143.2	294.4	5,52,992.564	16,18,970.832	644.362	75°29'31.59" E	14°38'37.16" N	24	Lakamajikoppa
0	31/3	MA+00		230.0		21,318.0	231.5	230.0	233.0	243.0	86.8	187.9	274.7	5,52,773.983	16,19,042.402	640.807	75°29'24.29" E	14°38'39.50" N	24	Lakamajikoppa
0	AP32	MC+00	10°13'59" RT	233.0	928.0	21,551.0	167.0	233.0	101.0	334.0	45.1	30.3	75.4	5,52,552.739	16,19,114.844	631.699	75°29'16.90" E	14°38'41.88" N	25	Lakamajikoppa
0	AP33	MD+00	46°53'07" LT	101.0	101.0	21,652.0	69.0	101.0	37.0	138.0	70.7	3.7	74.4	5,52,463.765	16,19,162.877	632.819	75°29'13.93" E	14°38'43.45" N	19	Lakamajikoppa
0	AP34	DD+00	19°12'53" RT	37.0	37.0	21,689.0	38.5	37.0	40.0	77.0	33.3	6.3	39.6	5,52,428.424	16,19,151.037	633.119	75°29'12.75" E	14°38'43.06" N	19	Lakamajikoppa
0	Gantry1	Gantry		40.0	40.0	21,729.0	20.0	40.0	0.0	40.0	33.7	0.0	33.7	5,52,388.432	16,19,151.520	633.419	75°29'11.41" E	14°38'43.08" N	19	Lakamajikoppa



*[Signature]*  
Assistant Engineer Ele.,  
Major Works Sub - Division  
KPTCL, Haveri

*[Signature]*  
Assistant Executive Engineer Ele.,  
Major Works Sub - Division  
KPTCL, Haveri

*[Signature]*  
Executive Engineer Ele.,  
Major Works Division  
KPTCL, Haveri

*[Signature]*  
Superintending Engineer Ele.,  
Transmission (W & M) Circle  
KPTCL, Hubballi





## ABSTRACT OF TOWERS

**Name of Project: Construction of 110kV LILO line from proposed 220/110KV R/S Byadagi to LILOing of the existing 110KV Aremallapura - Honnatti line, in Byadgi and Ranebennur Taluk, Haveri District.**

**Client : Karnataka Power Transmission Corporation Limited**

**Surveyors : M/s.Karnataka Surveyors, Bangalore**

Sl.No.	TYPE OF TOWERS	NORMAL	+3	+6	+9	+12	TOTAL
<b>Proposed 110KV D/C Towers(M/s Kalpatharu Design adopted for AEQUS Project)</b>							
1	DA 10	33 ✓	13 ✓	9 ✓	1 ✓	-	33 ✓
2	DB 3	6 ✓	2 ✓	-	1 ✓	-	6 ✓
3	DC 2	6 ✓	4 ✓	-	-	-	6 ✓
4	DD 11	18+*1 ✓	1 ✓	-	6 ✓	1 ✓	19 ✓
<b>Total Nos.</b>							<b>64 ✓</b>

**Note;- 1)Minor Deviation if any due to way leave Problem that may arise during the execution of the work may be incorporated accordingly.**

**2) \*Extra 1 number 'DD+0' type tower has been added in the abstract of towers for future use or if any modifications required at Proposed 220KV R/S end. Since the bay orientation as not been finalised yet.**



*[Signature]*  
For Karnataka Surveyors

*[Signature]*  
Assistant Engineer Ele.,  
Major works Sub - Division  
KPTCL, Haveri

*[Signature]*  
Assistant Executive Engineer Ele.,  
Major works Sub - Division  
KPTCL, Haveri

*[Signature]*  
Executive Engineer Ele.,  
Major works Division  
KPTCL, Haveri

*[Signature]*  
Superintending Engineer Ele.,  
Transmission (W & M) Circle  
KPTCL, Hubballi



## SOIL RESISTIVITY REPORT

**Name of Project: Construction of 110kV LILO line from proposed 220/110KV R/S Byadagi to LILOing of the existing 110KV Aremallapura - Honnatti line, in Byadgi and Ranebennur Taluk, Haveri District.**

**Client-Karnataka Power Transmission Corporation Limited**

**Survey Consultants:- M/s Karnataka Surveyors, Bangaluru.**

Sl No.	Cumulative Chainage in mts	Soil Encountered	Earth Resistance in ohms	Soil Resistivity in ohms-cms	Remarks
1	0	Red Soil	0.95	29830	Near LILOing of existing 110KV Aremallapura - Honnatti line
2	1198	Red Soil	0.92	28888	Near AP5
3	2396	Red Soil	0.88	27632	Near AP6/1
4	3594	Red Soil	0.90	28260	Near AP7/3
5	4792	Red Soil	0.95	29830	Near AP8/2
6	5990	Red Soil	0.85	26690	Near AP8/7
7	7188	Red Soil	0.80	25120	Near AP9/3
8	8386	Red Soil	0.92	28888	Near AP11
9	9584	Red Soil	0.87	27318	Near AP13
10	10782	Red Soil	0.95	29830	Near AP14/3
11	11980	Red Soil	0.89	27946	Near AP15
12	13178	Red Soil	0.80	25120	Near AP17
13	14376	Red Soil	0.88	27632	Near AP20
14	15574	BC Soil	0.68	21352	Near AP25
15	16772	BC Soil	0.59	18526	Near AP26/3
16	17970	BC Soil	0.60	18840	Near AP26/8
17	19500	BC Soil	0.55	17270	Near AP28
18	21729	BC Soil	0.68	21352	Near Proposed 220/110KV R/S a Byadgi
			18	460324	

**Average soil resistivity =  $\frac{460324}{18} = 25573.56$  Ohms -Cms**

Formula used =  $2\pi rl$

Where 'l' spacing between electrodes = 5000 cms

'r' is earth resistance in ohms

$\pi = 3.14$

For Karnataka Surveyors

Assistant Engineer Ele,,  
Major Works Sub- Division  
KPTCL, Haveri

Executive Engineer Ele,,  
Major Works Sub- Division  
KPTCL, Haveri

Assistant Executive Engineer Ele  
Major Works Sub- Division  
KPTCL, Haveri

Superintending Engineer Ele,,  
Transmission (W&M) Circle  
KPTCL, Hubballi



Sl No.	Chainage in mts	Name of the Power /Tele line	Voltage in class	Height of line in mts	Remarks
AP-11 To AP-12					
NIL					
AP-12 To AP-13					
NIL					
AP-13 To AP-14					
1	38	LT Line	400V	6.5	
2	455	11KV Line	11KV	7.5	
AP-14 To AP-15					
NIL					
AP-15 To AP-16					
2	570	LT Line	400V	6.5	
3	750	11KV Line	11KV	7.5	
4	885	LT Line	400V	6.5	
AP-16 To AP-17					
5	70	11KV Line	11KV	7.5	
6	115	LT Line	400V	6.5	
AP-17 To AP-18					
1	80	11KV Line	11KV	7.5	
2	138	11KV Line	11KV	7.5	
AP-18 To AP-19					
1	265	11KV Line	11KV	7.5	
2	560	LT Line	400V	6.5	
3	622	LT Line	400V	6.5	
4	818	LT Line	400V	6.5	
5	1044	11KV Line	11KV	7.5	
6	1375	LT Line	400V	6.5	
AP-19 To AP-20					
1	60	110KV Line	110KV		Proposed 110KV Line, A/C= 90°
AP-20 To AP-21					
1	185	11KV Line	11KV	7.5	
AP-21 To AP-22					
NIL					
AP-22 To AP-23					
NIL					
AP-23 To AP-24					
NIL					
AP-24 To AP-25					
NIL					



## LINE SCHEDULE

Name of Project: Construction of 110kV LILO line from proposed 220/110KV R/S Byadagi to LILOing of the existing 110KV Aremallapura - Honnatti line, in Byadgi and Ranebennur Taluk, Haveri District.

Client : Karnataka Power Transmission Corporation Limited

Surveyors : Karnataka Surveyors,Bangalore.

SI No.	Chainage in mts	Name of the Power /Tele line	Voltage in class	Height of line in mts	Remarks
AP-1 To AP-2					
NIL					
AP-2 To AP-3					
1	20	LT Line	400V	6.5	
2	220	11KV Line	11KV	7.5	
3	225	11KV Line	11KV	7.5	
4	235	11KV Line	11KV	7.5	
AP-3 To AP-4					
1	58	LT Line	400V	6.5	
AP-4 To AP-5					
1	62	11KV Line	11KV	7.5	
2	135	LT Line	400V	6.5	
AP-5 To AP-6					
1	185	11KV Line	11KV	7.5	
2	240	11KV Line	11KV	7.5	
AP-6 To AP-7					
1	345	11KV Line	11KV	7.5	
2	355	11KV Line	11KV	7.5	
AP-7 To AP-8					
1	450	LT Line	400V	6.5	
2	595	LT Line	400V	6.5	
3	1085	LT Line	400V	6.5	
AP-8 To AP-9					
1	405	11KV Line	11KV	7.5	
2	1065	11KV Line	11KV	7.5	
AP-9 To AP-10					
1	245	11KV Line	11KV	7.5	
AP-10 To AP-11					
1	120	11KV Line	11KV	7.5	
2	158	11KV Line	11KV	7.5	
3	435	11KV Line	11KV	7.5	
4	1325	11KV Line	11KV	7.5	
5	1625	LT Line	400V	6.5	





Sl No.	Chainage in mts	Name of the Power /Tele line	Voltage in class	Height of line in mts	Remarks
AP-25 To AP-26					
NIL					
AP-26 To AP-27					
1	80	11KV Line	11KV	7.5	
AP-27 To AP-28					
1	82	110KV Line	110KV	16.3	Existing 110kV Transmission Line (EC=6.20m)Earthwire ht=16.3mt A/C=77°03'39"
2	140	33KV Line	33KV	8.5	
AP-28 To AP-29					
1	25	33KV Line	33KV	8.5	
2	2255	11KV Line	11KV	7.5	
3	2465	LT Line	400V	6.5	
4	2555	LT Line	400V	6.5	
5	2570	LT Line	400V	6.5	
6	2670	LT Line	400V	6.5	
7	2755	LT Line	400V	6.5	
8	2955	LT Line	400V	6.5	
9	2975	LT Line	400V	6.5	
AP-29 To AP-30					
NIL					
AP-30 To AP-31					
1	190	LT Line	400V	6.5	
2	635	11KV Line	11KV	7.5	
3	745	LT Line	400V	6.5	
AP-31 To AP-32					
NIL					
AP-32 To AP-33					
1	45	11KV Line	11KV	7.5	
2	90	33KV Line	33KV	8.5	
AP-33 To AP-34					
NIL					
AP-34 To BAY					
NIL					



## ABSTRACT OF LINES

**Name of Project: Construction of 110kV LILO line from proposed 220/110KV R/S Byadagi to LILOing of the existing 110KV Aremallapura - Honnatti line, in Byadgi and Ranebennur Taluk, Haveri District.**


**Client : Karnataka Power Transmission Corporation Limited**


**Surveyors : M/s. Karnataka Surveyors, Bangalore.**

Sl.No.	Name of Power Line / Tele Line	Power Line	Tele Line	Total	Remarks
1	11KV LINE	28	-	28	
2	LT LINE	25	-	25	
3	33KV LINE	3	-	3	
4	110KV LINE	2	-	2	
			<b>Total=</b>	<b>58 Nos</b>	

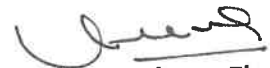


For Karnataka Surveyors

  
Assistant Engineer Ele.,  
Major Works Sub- Division  
KPTCL, Haveri

  
Executive Engineer Ele.,  
Major Works Sub- Division  
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KPTCL, Haveri

  
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Transmission (W&M) Circle  
KPTCL, Hubballi

10

11

12

**KARNATAKA POWER TRANSMISSION CORPORATION LIMITED**

**Name of Project: Construction of 110kV LILO line from proposed 220/110KV R/S Byadagi to LILOing of the existing 110KV Aremallapura - Honnatti line, in Byadgi and Ranebennur Taluk, Haveri District.**

**Survey Consultants: M/s Karnataka Surveyors, Bengaluru.**

**TREE SCHEDULE**

TREE NO	NAME OF TREE	GIRTH SIZE IN MTRS	HEIGHT OF TREE IN MTS	CHINAGE IN MTRS	11M CORRIDOR FROM CENTRE LINE		REMARKS/ AREA IN M²/ Trees
					LEFT	RIGHT	
AP-1 TO AP-2							
1	Neem Tree	0.7	4	21	LEFT		
AP-2 TO AP-3							
1	Neem Tree	0.3	2	183		RIGHT	
AP-3 TO AP-4							
1	Neem Tree	0.8	4	163	LEFT		
AP-4 TO AP-5							
1	Neem Tree	0.4	2	57	LEFT		
2	Jungle Tree	0.5	3	263		RIGHT	
AP-5 TO AP-6							
1	Neem Tree	0.7	4	17		RIGHT	
2	Neem Tree	0.3	2	14	LEFT		
3	Neem Tree	0.7	4	66	LEFT		
4	Neem Tree	0.7	4	320		RIGHT	
5	Neem Tree	0.8	4	420	LEFT		
6	Neem Tree	0.85	5	426		RIGHT	
7	Neem Tree	0.4	2	484	LEFT		
8	Neem Tree	0.4	3	1002	LEFT		
AP-6 TO AP-7							
1	Neem Tree	0.4	2	342		RIGHT	
2	Neem Tree	0.7	4	357		RIGHT	
3	Neem Tree	0.5	3	352		RIGHT	
4	Neem Tree	0.5	3	352	LEFT		
5	Neem Tree	0.4	2	441	LEFT		
AP-7 TO AP-8							
1	Neem Tree	0.7	4	237	LEFT		
2	Neem Tree	0.3	2	253	LEFT		
3	Neem Tree	0.5	3	536	LEFT		
4	Neem Tree	0.8	5	656	LEFT		
5	Neem Tree	0.8	5	746	LEFT		
6	Neem Tree	0.7	4	930		RIGHT	
7	Neem Tree	0.3	2	1006	LEFT		
8	Neem Tree	0.5	3	1110		RIGHT	
9	Neem Tree	0.5	3	1120	LEFT		
10	Neem Tree	0.8	5	1120	LEFT		
11	Neem Tree	0.4	2	1270	LEFT		
12	Neem Tree	0.4	2	1280	LEFT		
13	Neem Tree	0.5	3	1290		RIGHT	
14	Neem Tree	0.5	3	1290		RIGHT	
15	Jungle Tree	0.4	3	1310		RIGHT	
16	Jungle Tree	0.7	5	1320		RIGHT	
17	Jungle Tree	0.7	5	1320	LEFT		
18	Jungle Tree	0.6	4	1330	LEFT		



TREE NO	NAME OF TREE	GIRTH SIZE IN MTRS	HEIGHT OF TREE IN MTS	CHINAGE IN MTRS	11M CORRIDOR FROM CENTRE LINE		REMARKS/ AREA IN M <sup>2</sup> / Trees
					LEFT	RIGHT	
19	Neem Tree	0.7	4	1420		RIGHT	
AP-8 TO AP-9							
1	Neem Tree	0.4	3	12		RIGHT	
2	Neem Tree	0.3	3	14	LEFT		
3	Jungle Tree	0.6	5	32		RIGHT	
4	Neem Tree	0.5	4	35		RIGHT	
5	Neem Tree	0.4	3	36		RIGHT	
6	Neem Tree	0.5	6	61	LEFT		
7	Neem Tree	0.6	5	116		RIGHT	
8	Jungle Tree	0.4	3	191		RIGHT	
9	Jungle Tree	0.3	2	200	LEFT		
10	Neem Tree	0.3	3	280	LEFT		
11	Neem Tree	0.4	5	395		RIGHT	
12	Neem Tree	0.3	3	493		RIGHT	
13	Tamarind Tree	0.4	3	566		RIGHT	
14	Neem Tree	0.4	4	670	LEFT		
15	Babul Tree	0.3	2	692		RIGHT	
16	Neem Tree	0.4	5	897		RIGHT	
17	Neem Tree	0.3	3	1050	LEFT		
18	Neem Tree	0.4	5	1050		RIGHT	
19	Neem Tree	0.3	2	1170		RIGHT	
20	Jungle Tree	0.4	5	1260	LEFT		
21	Jungle Tree	0.3	3	1270		RIGHT	
22	Jungle Tree	0.4	4	1270		RIGHT	
23	Neem Tree	0.5	6	1360	LEFT		
24	Neem Tree	0.4	4	1470	LEFT		
25	Jungle Tree	0.3	2	1500	LEFT		
26	Jungle Tree	0.4	4	1500		RIGHT	
27	Jungle Tree	0.45	5	1520		RIGHT	
28	Neem Tree	0.3	3	1560		RIGHT	
29	Neem Tree	0.2	1	1610	LEFT		
30	Jungle Tree	0.3	3	1640	LEFT		
31	Jungle Tree	0.4	4	1680	LEFT		
32	Jungle Tree	0.3	3	1690	LEFT		
33	Neem Tree	0.4	4	1690	LEFT		
34	Neem Tree	0.3	3	1720	LEFT		
35	Neem Tree	0.3	3	1770	LEFT		
36	Neem Tree	0.4	4	1790		RIGHT	
37	Neem Tree	0.3	2	1970		RIGHT	
38	Neem Tree	0.5	6	1970		RIGHT	
39	Neem Tree	0.4	3	1990		RIGHT	
40	Neem Tree	0.4	4	2010		RIGHT	
41	Neem Tree	0.4	3	2140		RIGHT	
42	Neem Tree	0.3	2	2140	LEFT		
AP-9 TO AP-10							
1	Neem Tree	0.3	4	55		RIGHT	
2	Neem Tree	0.3	2	63		RIGHT	
3	Neem Tree	0.4	3	88		RIGHT	
4	Neem Tree	0.4	5	108		RIGHT	
5	Neem Tree	0.3	4	126	LEFT		
6	Neem Tree	0.4	3	148	LEFT		





TREE NO	NAME OF TREE	GIRTH SIZE IN MTRS	HEIGHT OF TREE IN MTS	CHINAGE IN MTRS	11M CORRIDOR FROM CENTRE LINE		REMARKS/ AREA IN M <sup>2</sup> / Trees
					LEFT	RIGHT	
7	Neem Tree	0.7	6	179		RIGHT	
8	Neem Tree	0.5	4	190		RIGHT	
9	Jungle Tree	0.4	3	303	LEFT		
10	Neem Tree	0.5	4	300	LEFT		
11	Neem Tree	0.4	5	292		RIGHT	
12	Neem Tree	0.5	6	362		RIGHT	
13	Babul Tree	0.4	4	364	LEFT		
14	Neem Tree	0.4	3	489	LEFT		
15	Neem Tree	0.2	2	487		RIGHT	
16	Neem Tree	0.3	3	622	LEFT		
17	Jungle Tree	0.4	4	633	LEFT		
18	Jungle Tree	0.3	3	1100	LEFT		
19	Jungle Tree	0.4	3	1110		RIGHT	
20	Jungle Tree	0.5	4	1270	LEFT		
21	Neem Tree	0.8	7	1280		RIGHT	
22	Neem Tree	0.7	6	1340	LEFT		
23	Tamarind Tree	0.3	4	1410	LEFT		
24	Neem Tree	0.6	5	1590	LEFT		
25	Neem Tree	0.3	4	1660	LEFT		
26	Neem Tree	0.5	4	1780	LEFT		
AP-10 TO AP-11							
1	Neem Tree	0.4	4	174		RIGHT	
AP-11 TO AP-12							
1	Neem Tree	0.6	7	183		RIGHT	
2	Neem Tree	0.5	6	199		RIGHT	
3	Neem Tree	0.4	4	223		RIGHT	
AP-12 TO AP-13							
1	Neem Tree	0.3	4	52	LEFT	RIGHT	
2	Neem Tree	0.2	3	298	LEFT	RIGHT	
3	Neem Tree	0.6	5	307	LEFT	RIGHT	
4	Neem Tree	0.5	6	974	LEFT	RIGHT	
AP-13 TO AP-14							
1	Jungle Tree	0.3	4	145	LEFT		
AP-14 TO AP-15							
1	Neem Tree	0.3	3	40	LEFT		
2	Neem Tree	0.4	4	135	LEFT		
3	Neem Tree	0.3	3	143		RIGHT	
4	Coconut Tree	0.5	7	519	LEFT		
5	Mango Tree	0.7	5	651		RIGHT	
6	Neem Tree	0.3	3	758		RIGHT	
7	Neem Tree	0.4	4	930		RIGHT	
8	Neem Tree	0.5	4	952		RIGHT	
9	Neem Tree	0.3	3	959		RIGHT	
10	Jungle Tree	0.4	3	1030		RIGHT	
11	Neem Tree	0.2	2	1090	LEFT		
12	Neem Tree	0.7	6	1180	LEFT		
13	Jungle Tree	0.5	5	1180		RIGHT	
14	Neem Tree	0.7	5	1320	LEFT		
15	Neem Tree	0.5	4	1320		RIGHT	
16	Neem Tree	0.4	3	1360		RIGHT	
17	Neem Tree	0.3	3	1550	LEFT		



TREE NO	NAME OF TREE	GIRTH SIZE IN MTRS	HEIGHT OF TREE IN MTS	CHINAGE IN MTRS	11M CORRIDOR FROM CENTRE LINE		REMARKS/ AREA IN M <sup>2</sup> / Trees
					LEFT	RIGHT	
18	Neem Tree	0.3	3	1550		RIGHT	
19	Neem Tree	0.4	4	1650		RIGHT	
AP-15 TO AP-16							
NIL							
AP-16 TO AP-17							
1	Neem Tree	0.4	4	20	LEFT		
2	Coconut Tree	0.6	7	105	LEFT		
3	Neem Tree	0.4	5	110	LEFT		
4	Neem Tree	0.3	4	110		RIGHT	
5	Coconut Tree	0.7	8	115		RIGHT	
6	Neem Tree	0.3	3	171		RIGHT	
7	Neem Tree	0.4	5	358	LEFT		
8	Neem Tree	0.4	3	359		RIGHT	
9	Neem Tree	0.3	4	476	LEFT		
10	Neem Tree	0.4	3	473		RIGHT	
11	Neem Tree	0.3	3	689		RIGHT	
12	Tamarind Tree	0.6	5	731		RIGHT	
13	Neem Tree	0.5	5	743		RIGHT	
14	Neem Tree	0.4	3	750		RIGHT	
15	Neem Tree	0.5	4	763		RIGHT	
16	Neem Tree	0.7	5	773		RIGHT	
17	Neem Tree	0.6	6	787		RIGHT	
18	Neem Tree	0.7	6	862		RIGHT	
19	Neem Tree	0.4	4	870	LEFT		
20	Jungle Tree	0.3	3	1110		RIGHT	
21	Neem Tree	0.6	5	1120	LEFT		
22	Neem Tree	0.5	6	1220		RIGHT	
23	Neem Tree	0.4	4	1210		RIGHT	
24	Babul Tree	0.5	4	1360		RIGHT	
AP-17 TO AP-18							
1	Babul Tree	0.5	4	12		RIGHT	
2	Neem Tree	0.4	3	18	LEFT		
3	Neem Tree	0.5	4	107		RIGHT	
AP-18 TO AP-19							
1	Honge Tree	0.5	4	28		RIGHT	
2	Neem Tree	0.4	5	70		RIGHT	
3	Jungle Tree	0.5	4	71	LEFT		
4	Neem Tree	0.6	5	120		RIGHT	
5	Neem Tree	0.4	3	148		RIGHT	
6	Neem Tree	0.6	5	155		RIGHT	
AP-19 TO AP-20							
1	Tamarind Tree	0.6	5	131		RIGHT	
2	Neem Tree	0.4	3	282	LEFT		
3	Neem Tree	0.3	3	285		RIGHT	
4	Neem Tree	0.6	5	356	LEFT		
5	Neem Tree	0.7	5	356		RIGHT	
6	Neem Tree	0.5	4	426	LEFT		
7	Neem Tree	0.6	5	426		RIGHT	
8	Neem Tree	0.5	4	505		RIGHT	
9	Neem Tree	0.6	5	615	LEFT		
10	Neem Tree	0.45	4	752		RIGHT	



TREE NO	NAME OF TREE	GIRTH SIZE IN MTRS	HEIGHT OF TREE IN MTS	CHINAGE IN MTRS	11M CORRIDOR FROM CENTRE LINE		REMARKS/ AREA IN M²/ Trees
					LEFT	RIGHT	
AP-20 TO AP-21							
1	Neem Tree	0.3	2	124	LEFT	RIGHT	
2	Neem Tree	0.5	3	129	LEFT	RIGHT	
AP-21 TO AP-22							
1	Neem Tree	0.5	3	61	LEFT		
2	Neem Tree	0.5	3	62	LEFT		
3	Neem Tree	0.7	2	62		RIGHT	
4	Banni Tree	0.3	2	87		RIGHT	
AP-23 TO AP-24							
1	Neem Tree	0.3	4	240		RIGHT	
2	Neem Tree	0.7	2	254	LEFT		
AP-24 TO AP-25							
1	Neem Tree	0.7	4	209	LEFT		
2	Neem Tree	0.3	2	232		RIGHT	
AP-25 TO AP-26							
1	Neem Tree	0.7	4	51		RIGHT	
2	Neem Tree	0.3	2	94	LEFT		
3	Neem Tree	0.5	3	107	LEFT		
4	Neem Tree	0.7	4	139	LEFT		
5	Neem Tree	0.7	4	140		RIGHT	
6	Neem Tree	0.5	3	140		RIGHT	
7	Babul Tree	0.5	3	158		RIGHT	
AP-26 TO AP-27							
1	Neem Tree	0.5	3	25	LEFT		
2	Neem Tree	0.8	5	567		RIGHT	
3	Neem Tree	0.5	3	570	LEFT		
4	Neem Tree	0.3	2	677	LEFT		
5	Neem Tree	0.7	4	941		RIGHT	
6	Neem Tree	0.3	2	964	LEFT		
7	Neem Tree	0.7	4	1400	LEFT		
8	Neem Tree	0.3	2	1400	LEFT		
9	Neem Tree	0.7	4	1690		RIGHT	
10	Neem Tree	0.7	4	1820	LEFT		
11	Neem Tree	0.5	3	2230		RIGHT	
12	Neem Tree	0.3	2	2240		RIGHT	
13	Banyan Tree	0.8	5	2250	LEFT		
14	Neem Tree	0.5	3	2270	LEFT		
15	Neem Tree	0.8	5	2270	LEFT		
16	Neem Tree	0.8	5	2390	LEFT		
17	Jungle Tree	0.7	4	2420		RIGHT	
18	Neem Tree	0.7	4	2470		RIGHT	
19	Babul Tree	0.5	3	2490		RIGHT	
20	Babul Tree	0.7	4	2490		RIGHT	
21	Babul Tree	0.7	4	2510		RIGHT	
22	Babul Tree	0.3	2	2520	LEFT		
23	Babul Tree	0.5	3	2500	LEFT		
24	Babul Tree	0.8	5	2810	LEFT		
25	Babul Tree	0.8	5	3070		RIGHT	
AP-27 TO AP-28							
NIL							
AP-28 TO AP-29							



TREE NO	NAME OF TREE	GIRTH SIZE IN MTRS	HEIGHT OF TREE IN MTS	CHINAGE IN MTRS	11M CORRIDOR FROM CENTRE LINE		REMARKS/ AREA IN M <sup>2</sup> / Trees
					LEFT	RIGHT	
1	Neem Tree	0.7	4	393	LEFT		
2	Neem Tree	0.5	3	510	LEFT		
3	Neem Tree	0.8	5	574	LEFT		
4	Neem Tree	0.8	5	604		RIGHT	
5	Neem Tree	0.7	4	608		RIGHT	
6	Neem Tree	0.8	5	636		RIGHT	
7	Neem Tree	0.5	3	642		RIGHT	
8	Neem Tree	0.7	4	656		RIGHT	
9	Neem Tree	0.5	3	692		RIGHT	
10	Neem Tree	0.7	4	727		RIGHT	
11	Neem Tree	0.5	2	732		RIGHT	
12	Neem Tree	0.8	5	892		RIGHT	
13	Neem Tree	0.8	5	1000	LEFT		
AP-29 TO AP-30							
1	Babul Tree	0.8	5	512	LEFT		
2	Neem Tree	0.3	2	763	LEFT		
3	Neem Tree	0.8	5	876		RIGHT	
4	Neem Tree	0.5	3	918		RIGHT	
AP-30 TO AP-31							
1	Neem Tree	0.8	5	37		RIGHT	
2	Neem Tree	0.7	4	60	LEFT		
3	Neem Tree	0.5	3	67		RIGHT	
4	Neem Tree	0.7	4	90		RIGHT	
5	Neem Tree	0.5	3	86		RIGHT	
6	Neem Tree	0.9	4	85	LEFT		
AP-31 TO AP-32							
1	Jungle Tree	0.4	4	30	LEFT	RIGHT	3Nos
AP-32 TO AP-33							
1	Jungle Tree	0.4	4	50	LEFT	RIGHT	4Nos
AP-33 TO AP-34							
1	Jungle Bushes	0.3	2.5	0-37	LEFT	RIGHT	814m <sup>2</sup>
AP-33 TO Bay							
1	Jungle Bushes	0.3	2.5	0-40	LEFT	RIGHT	880m <sup>2</sup>





**KARNATAKA POWER TRANSMISSION CORPORATION LIMITED**

**Name of Project: Construction of 110kV LILO line from proposed 220/110KV R/S Byadagi to LILOing of the existing 110KV Aremallapura - Honnatti line, in Byadgi and Ranebennur Taluk, Haveri District.**

**Survey Consultants: M/s Karnataka Surveyors, Bengaluru.**

**Abstract of Trees**

SL.No	Name of Tree	Total number	Area in m <sup>2</sup>
1	Babul Tree	13	
2	Banni Tree	1	
3	Baniyan Tree	1	
4	Coconut Tree	3	
5	Honge Tree	1	
6	Jungle Tree	35	
7	Mango Tree	1	
8	Neem Tree	189	
9	Tamarind Tree	4	
10	Jungle Bushes	—	1694
<b>TOTAL</b>		<b>243 No's</b>	<b>1694m<sup>2</sup></b>



For Karnataka Surveyors

**Assistant Engineer Ele,,  
Major Works Sub- Division  
KPTCL, Haveri**

**Executive Engineer Ele,,  
Major Works Division  
KPTCL, Haveri**

**Assistant Executive Engineer Ele,,  
Major Works Sub- Division  
KPTCL, Haveri**

**Superintending Engineer Ele,,  
Transmission (W&M) Circle  
KPTCL, Hubballi**

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Name of Client: KARNATAKA POWER TRANSMISSION CORPORATION LIMITED																
Name of Project: Construction of 110kV LILO line from proposed 220/110KV R/S Byadagi to LIL/Oing of existing 110KV Aremallapura - Honnatti line, in Byadgi and Ranebennur Taluk, Haveri District.																
Survey Consultants:- M/s Karnataka Surveyors, Bengaluru.																
SOIL CLASSIFICATION REPORT																
Sl. No	AP NOS	TYPE OF TOWER	Deviation Angle (DMS)	Span In(m)	Section Length in (m)	Cum. Chainage in (m)	Normal Soil	B.C. Soil	Gravel/DFR	WBC SOIL	Soft Rock SFR	Hard Rock HR	P.S	F.S	Total Depth in Mtrs	Provisional Foundation
1	AP1	DD+00 LILO Tower			0	0	0.8		1.5		0.4	0.3			3	DFR
2	AP2	DD+00	00°07'07" LT	42	42	42	0.9			1.8	0.3				3	WBC
3	2/1	DA+00		250		292	0.5		1.6		0.5	0.4			3	DFR
4	AP3	DD+00	30°04'49" LT	210	460	502	0.5		1.8		0.5	0.2			3	DFR
5	AP4	DC+03	24°37'56" LT	281	253	755	0.8			1.7	0.3	0.2			3	WBC
6	AP5	DB+03	07°43'11" LT	262	281	1036	0.8		1.5		0.4	0.3			3	DFR
7	5/1	DA+03		290		1298	0.8				0.5	0.1	1.6		3	PS
8	5/2	DA+03		290		1588	0.9		0.3		1.7	0.1			3	SFR
9	5/3	DA+03		293		1878	0.8		0.5		1.5	0.2			3	SFR
10	AP6	DC+00	14°03'50" LT	250	1135	2171	0.9		1.8		0.3				3	DFR
11	6/1	DA+03		249		2421	0.8		2		0.2				3	DFR

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Sl. No	AP NOS	TYPE OF TOWER	Deviation Angle (DMS)	Span in(m)	Section Length in (m)	Chaining in (m)	Normal Soil	B.C. Soil	Gravel/DFR	WBC SOIL	Soft Rock $\xi$	Hard Rock HR	P.S	F.S	Total Depth in Mtrs	Provisional Foundation
12	AP7	DD+00	45°04'34" RT		499	2670	0.9		1.6		0.3	0.2			3	DFR
13	7/1	DA+03		285		2955	0.9		1.3		0.6	0.2			3	DFR
14	7/2	DA+03		285		3240	0.6		1.8		0.4	0.2			3	DFR
15	7/3	DA+00		290		3530	0.7		2.1		0.2				3	DFR
16	AP8	DC+03	22°30'19" LT	286	1146	3816	0.8		1.4		0.4	0.4			3	DFR
17	8/1	DA+06		280		4096	0.5		1.6		0.5	0.4			3	DFR
18	8/2	DA+03		275		4371	0.8		2		0.2	-			3	DFR
19	8/3	DA+00		275		4646	0.7		1.8		0.5				3	DFR
20	AP9	DD+00	31°35'29" RT	280	1110	4926	0.9		0.4	1.2	0.3	0.2			3	WBC
21	9/1	DA+06		295		5221	0.5		2		0.5				3	DFR
22	9/2	DA+06		290		5511	0.8		1.7		0.5				3	DFR
23	9/3	DA+06		290		5801	1		0.4	1.2	0.3	0.1			3	WBC
24	9/4	DA+06		290		6091	0.5		1.8		0.5	0.2			3	DFR
25	AP10	DC+03	21°55'18" RT	292	2287	6383	0.8		0.5	1.3	0.3	0.1			3	WBC
26	AP10/1	DA+09		255		6638	0.6		0.5	1.4	0.3	0.2			3	WBC
27	10/2	DA+06		255		6893	0.8		1.7		0.5				3	DFR
28	10/3	DB+00		255		7148	0.9		0.4	1.2	0.3	0.2			3	WBC



Sl. No	AP NOS	TYPE OF TOWER	Deviation Angle (DMS)	Span in(m)	Section Length in (m)	Ch. in (m)	Normal Soil	B.C. Soil	Grave/DFR	WBC SOIL	Soft Pack	Hard Rock HR	P.S	F.S	Total Depth in Mtrs	Provisional Foundation
29	10/4	DA+00				7403	0.7		1.8		0.5				3	DFR
30	10/5	DA+00		265		7668	0.5		1.9		0.4	0.2			3	DFR
31	10/6	DA+00		260		7928	0.8		1.7		0.5				3	DFR
32	AP11	DB+00	07°07'41" LT		1802	8185	0.6		1.7		0.4	0.3			3	DFR
33	AP12	DD+00	52°48'17" LT	197		8382	1		0.4	1.2	0.3	0.1			3	WBC
34	AP13	DC+00	20°38'17" LT	241		8623	0.8			1.7	0.3	0.2			3	WBC
35	13/1	DA+03		275		8898	0.7		1.9		0.3	0.1			3	DFR
36	13/2	DA+03		275		9173	0.7		1.8		0.5				3	DFR
37	13/3	DA+00		278		9448	0.6		0.5	1.6	0.3				3	WBC
38	AP14	DD+00	35°29'31" RT	231	1103	9726	0.5		2		0.5				3	DFR
39	AP/15	DB+00	07°31'43" RT	295	231	9957	0.9		0.4	1.2	0.3	0.2			3	WBC
40	15/1	DA+03		295		10252	0.8		0.5	1.3	0.4				3	WBC
41	15/2	DA+03		280		10547	0.7		1.8		0.5				3	DFR
42	15/3	DA+06		289		10827	0.7		0.5		1.7	0.1			3	SFR
43	AP16	DD+00	29°40'36" RT	290	1159	11116	0.8				0.5	0.1	1.6		3	PS
44	16/1	DA+06		291		11406	1				0.4	0.2	1.4		3	PS
45	AP17	DD+09	52°30'04" LT	198	581	11697	0.6		0.3		1.9	0.2			3	SFR

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Sl. No	AP NOS	TYPE OF TOWER	Deviation Angle (DMS)	Span in(m)	Section Length in (m)	Ch. Length in (m)	Normal Soil	B.C. Soil	Gravel/DFR	WBC SOIL	Soft Rock	Hard Rock HR	P.S	F.S	Total Depth in Mtrs	Provisional Foundation
46	AP18	DD+09	47°42'34" RT		198	11895	0.9		0.4	1.2	0.3	0.2			3	WBC
47	18/1	DA+00		285		12180	0.4		1.7		0.6	0.3			3	DFR
48	18/2	DA+03		295		12475	0.6		1.9		0.5				3	DFR
49	18/3	DA+06		270		12745	0.6		1.9		0.5				3	DFR
50	18/4	DB+09		276		13015	0.5		2		0.5				3	DFR
51	AP19	DD+09	40°02'49" LT	114	1396	13291	0.9			1.6	0.3	0.2			3	WBC
52	AP20	DD+09	48°20'43" RT	267	114	13405	0.6		1.9		0.5				3	DFR
53	AP21	DC+03	23°11'29" RT	255	267	13672	0.5		1.8		0.5	0.2			3	DFR
54	21/1	DA+00		255		13927	0.7		1.8		0.5				3	DFR
55	21/2	DA+00		258		14182	0.8			1.7	0.3	0.2			3	WBC
56	AP22	DB+03	05°10'15" RT	243	768	14440	0.7			2	0.2	0.1			3	WBC
57	AP23	DD+09	52°29'43" LT	102	243	14683	0.6			1.9	0.3	0.2			3	WBC
58	AP24	DD+09	41°34'52" RT	205	102	14785	0.5		0.5	1.5	0.5				3	WBC
59	24/1	DA+03		202		14990	0.9		0.4	1.3	0.3	0.1			3	WBC
60	AP25	DD+00	41°03'04" LT	275	407	15192	0.5		0.5	1.7	0.2	0.1			3	WBC
61	AP26	DD+03	34°56'33" LT	300	275	15467	0.7		0.6	1.4	0.2	0.1			3	WBC
62	AP27	DD+12	01°30'53" LT	202	300	15767	0.8			1.9	0.2	0.1			3	WBC



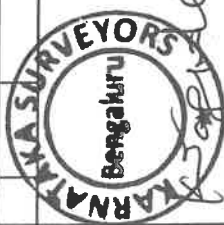
SL No	AP NOS	TYPE OF TOWER	Deviation Angle (DMS)	Span in(m)	Section Length in (m)	Ch. No in (m)	Normal Soil	B.C. Soil	Gravel/DFR	WBC SOIL	Soft Rock	Hard Rock HR	P.S	F.S	Total Depth in Mtrs	Provisional Foundation
0	AP28	MD+12	23°49'35" LT		202	15969	-	-	-	-	-	-	-	-	-	-
0	28/1	MC+06		280		16249	-	-	-	-	-	-	-	-	-	-
0	28/2	MA+00		280		16529	-	-	-	-	-	-	-	-	-	-
0	28/3	MA+00		260		16789	-	-	-	-	-	-	-	-	-	-
0	28/4	MA+03		280		17069	-	-	-	-	-	-	-	-	-	-
0	28/5	MA+00		285		17354	-	-	-	-	-	-	-	-	-	-
0	28/6	MC+00		280		17634	-	-	-	-	-	-	-	-	-	-
0	28/7	MA+03		275		17914	-	-	-	-	-	-	-	-	-	-
0	28/8	MA+03		290		18189	-	-	-	-	-	-	-	-	-	-
0	28/9	MA+03		290		18479	-	-	-	-	-	-	-	-	-	-
0	28/10	MA+03		290		18769	-	-	-	-	-	-	-	-	-	-
0	AP29	MC+00	25°58'32" RT		3085	19054	-	-	-	-	-	-	-	-	-	-
0	29/1	MA+06		285		19339	-	-	-	-	-	-	-	-	-	-
0	AP30	MD+06	53°36'02" RT		556	19610	-	-	-	-	-	-	-	-	-	-
0	30/1	MA+00		265		19875	-	-	-	-	-	-	-	-	-	-
0	30/2	MA+00		250		20125	-	-	-	-	-	-	-	-	-	-
0	30/3	MA+03		255		20380	-	-	-	-	-	-	-	-	-	-
				243												



17/11/2019


17/11/2019


Sl. No	AP NOS	TYPE OF TOWER	Deviation Angle (DMS)	Span in(m)	Section Length in (m)	Cum. Ch ye in (m)	Normal Soil	B.C. Soil	Grave/DFR	WBC SOIL	Soft Rock	Hard Rock HR	P.S	F.S	Total Depth in Mtrs	Provisional Foundation
0	AP31	MD+00	29°52'24" RT		1013	20623	-	-	-	-	-	-	-	-	-	-
0	31/1	MA+00		230		20853	-	-	-	-	-	-	-	-	-	-
0	31/2	MA+00		235		21088	-	-	-	-	-	-	-	-	-	-
0	31/3	MA+00		230		21318	-	-	-	-	-	-	-	-	-	-
0	AP32	MC+00	10°13'59" RT		928	21551	-	-	-	-	-	-	-	-	-	-
0	AP33	MD+00	46°53'07" LT	101		21652	-	-	-	-	-	-	-	-	-	-
63	AP34	DD+00	19°12'53" RT	37		21689	0.5		0.5	1.7	0.2	0.1			3	WBC
0	Gantry1	Gantry		40		21729										
*Extra 1 number 'DD+0' type tower has been added in the abstract of towers for future use or if any modifications required at Proposed 220KV R/S end. Since the bay orientation as not been finalised yet.																
64		*DD+0			TOTAL		0.5	0.00	68.90	34.70	30.00	8.00	4.60	0.00	192.00	DFR



For Karnataka Surveyors

  
 Assistant Engineer Ele.,  
 Major Works Sub Division  
 KPTCL, Haveri

  
 Executive Engineer Ele.,  
 Major Works Division  
 KPTCL, Haveri

  
 Superintending Engineer Ele.,  
 Transmission (W & M) Circle  
 KPTCL, Hubballi

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Name of Client: KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

Name of Project: Construction of 110KV LLO line from proposed 220/110KV R/S Byadagi to LLOing of the existing 110KV Aremallapura - Honnatti line, in Byadgi and Ranebennur Taluk, Haveri District.

Survey Consultants:- M/s Karnataka Surveyors, Bengaluru.

ABSTRACT OF FOUNDATION

SL NO	TYPE OF FOUNDATION	NOS
1	DRY FISSURED ROCK (DFR)	34
2	PARTIALLY SUBMERGED (PS)	3
3	SOFT FISSURED ROCK (SFR)	4
4	BLACK COTTON SOIL (WBC)	23
	TOTAL	64 Nos

Note: The above report is provisional and is subject to variation depending upon the place of excavation.



For Karnataka Surveyors

*[Signature]*

Assistant Engineer Ele.,  
Major Works Sub Division  
KPTCL, Haveri

*[Signature]*

Assistant Executive Engineer Ele.,  
Major Works Sub Division  
KPTCL, Haveri

*[Signature]*

Executive Engineer Ele.,  
Major Works Division  
KPTCL, Haveri

*[Signature]*

Superintending Engineer Ele.,  
Transmission (W & M) Circle  
KPTCL, Hubballi

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## Valuation Details

Basic Search ☒ Advance Search

Districts*	Haveri
Registration District*	Haveri
SRO Office*	Ranibennuru
Area Name*	Hanumapura
Please enter first 3 letters to populate area automatically.	
Taluka :	Ranibennur
Village Name *	Hanumapura
Hobli *	Medleri Hobli

Property Usage Type*	Agriculture
Total Area*	1
Measurement Unit*	Acre

## Display Valuation

## Agriculture Rate Details

	Property Type	Unit	Rate ( ₹ )
1	<input type="radio"/> Dry, No Source of Irrigation, Black Soil	Acre	2,00,000.00
2	<input type="radio"/> Dry, No Source of Irrigation, Red Soil	Acre	1,50,000.00
3	<input type="radio"/> Dry, No Source of Irrigation, Other	Acre	3,20,000.00
4	<input type="radio"/> Bagayat, Dry	Acre	4,00,000.00
5	<input type="radio"/> Wet (Assured Water Supply from Government Tanks/Canals), Two Crops of Paddy	Acre	3,20,000.00
6	<input type="radio"/> Wet (Assured Water Supply from Government Tanks/Canals), One Crop	Acre	3,20,000.00
7	<input type="radio"/> Dry, No Source of Irrigation, Loamy Soil	Acre	1,50,000.00
4			

Page 1 of 10  
 Valuation On Basic Rate  
 7 record(s) found



Valuation Details

☐ Basic Search ☒ Advance Search

Districts\*

Haveri

Registration District\*

Haveri

SRO Office\*

Ranibennuru

Area Name\*

Honnatti

Please enter first 3 letters to populate area automatically.

Taluka :

Ranibennur

Village Name :\*

Honnatti

Hobli :\*

Ranibennur Hobli

Property Usage Type\*

Agriculture

Total Area\*

1

Measurement Unit\*

Acre

Display Valuation

Agriculture Rate Details

	Property Type	Unit	Rate (₹)
1	<input type="radio"/> Dry, No Source of Irrigation, Black Soil	Acre	2,00,000.00
2	<input type="radio"/> Dry, No Source of Irrigation, Red Soil	Acre	1,50,000.00
3	<input type="radio"/> Dry, No Source of Irrigation, Other	Acre	3,00,000.00
4	<input type="radio"/> Bagayat, Dry	Acre	4,00,000.00
5	<input type="radio"/> Wet (Assured Water Supply from Government Tanks/Canals), Two Crops of Paddy	Acre	3,00,000.00
6	<input type="radio"/> Wet (Assured Water Supply from Government Tanks/Canals), One Crop	Acre	3,00,000.00
7	<input type="radio"/> Dry, No Source of Irrigation, Loamy Soil	Acre	1,50,000.00



Valuation Details

Basic Search | Advance Search

Districts\*

Registration District\*

SRO Office\*

Area Name\*

Taluka :

Village Name \*

Hobli \*

Please enter first 3 letters to populate area automatically.

Property Usage Type\*

Total Area\*

Measurement Unit\*

Display Valuation

Agriculture Rate Details

	Property Type	Unit	Rate (₹)
1	<input type="radio"/> Dry, No Source of Irrigation, Black Soil	Acre	1,70,000.00
2	<input type="radio"/> Dry, No Source of Irrigation, Red Soil	Acre	1,50,000.00
3	<input type="radio"/> Dry, No Source of Irrigation, Other	Acre	0.00
4	<input type="radio"/> Bagayat, Dry	Acre	2,50,000.00
5	<input type="radio"/> Dry, No Source of Irrigation, Loamy Soil	Acre	0.00
6	<input type="radio"/> Wet (Assured Water Supply from Government Tanks/Canals), One Crop	Acre	1,90,000.00
7	<input type="radio"/> Dry Agriculture Land, Irrigated By Bore / Well / Pumpset, Other Soil	Acre	2,00,000.00



## Valuation Details

Basic Search ☒ Advance Search

Districts*	Haveri
Registration District*	Haveri
SRO Office*	Ranibennuru
Area Name*	Kajjari

Please enter first 3 letters to populate area automatically.

Taluka :	Ranibennur
Village Name *	Kajjari
Hobli *	Ranibennur Hobli

Property Usage Type*	Agriculture
Total Area*	1
Measurement Unit*	Acre

## Display Valuation

## Agriculture Rate Details

	Property Type	Unit	Rate (₹)
1	<input type="radio"/> Dry, No Source of Irrigation, Black Soil	Acre	2,20,000.00
2	<input type="radio"/> Dry, No Source of Irrigation, Red Soil	Acre	1,80,000.00
3	<input type="radio"/> Dry, No Source of Irrigation, Other	Acre	3,20,000.00
4	<input type="radio"/> Bagayat, Dry	Acre	4,00,000.00
5	<input type="radio"/> Wet (Assured Water Supply from Government Tanks/Canals), Two Crops of Paddy	Acre	3,20,000.00
6	<input type="radio"/> Wet (Assured Water Supply from Government Tanks/Canals), One Crop	Acre	3,20,000.00
7	<input type="radio"/> Dry, No Source of Irrigation, Loamy Soil	Acre	1,80,000.00
4			
Valuation On Basic Rate			0

Page 1 of 1

10

7 records found





Valuation Details

Basic Search

Advance Search

Districts\*

Haveri

Registration District\*

Haveri

SRO Office\*

Ranibennuru

Area Name\*

Kakol

Please enter first 3 letters to populate area automatically.

Taluka :

Ranibennur

Village Name \*

Kakol

Hobli \*

Ranibennur Hobli

Property Usage Type\*

Agriculture

Total Area\*

1

Measurement Unit\*

Acre

Display Valuation

Agriculture Rate Details			
Property Type	Unit	Rate (₹)	
1 <input type="radio"/> Dry, No Source of Irrigation, Black Soil	Acre	2,00,000.00	
2 <input type="radio"/> Dry, No Source of Irrigation, Red Soil	Acre	1,60,000.00	
3 <input type="radio"/> Dry, No Source of Irrigation, Other	Acre	2,80,000.00	
4 <input type="radio"/> Bagayat, Dry	Acre	3,90,000.00	
5 <input type="radio"/> Wet (Assured Water Supply from Government Tanks/Canals), Two Crops of Paddy	Acre	2,80,000.00	
6 <input type="radio"/> Wet (Assured Water Supply from Government Tanks/Canals), One Crop	Acre	2,80,000.00	
7 <input type="radio"/> Dry, No Source of Irrigation, Loamy Soil	Acre	1,60,000.00	
Valuation On Basic Rate:		0	7 record(s) found



Valuation Details

Basic Search

Advance Search

Districts\*

Haveri

Registration District\*

Haveri

SRO Office\*

Byadagi

Area Name\*

Byadgi

Please enter first 3 letters to populate area automatically.

Taluka :

Byadagi

Village Name \*

Byadagi Grama

Hobli \*

Byadagi Hobli

Property Usage Type\*

Agriculture

Total Area\*

1.

Measurement Unit\*

Acre

Display Valuation

Agriculture Rate Details			
	Property Type	Unit	Rate ( ₹ )
1	<input type="radio"/> Dry, No Source of Irrigation, Black Soil	Acre	7,80,000.00
2	<input type="radio"/> Dry, No Source of Irrigation, Red Soil	Acre	7,00,000.00
3	<input type="radio"/> Dry, No Source of Irrigation, Other	Acre	0.00
4	<input type="radio"/> Bagayat, Dry	Acre	9,00,000.00
5	<input type="radio"/> Dry, No Source of Irrigation, Loamy Soil	Acre	0.00
6	<input type="radio"/> Wet (Assured Water Supply from Government Tanks/Canals), One Crop	Acre	8,10,000.00
7	<input type="radio"/> Dry Agriculture Land, Irrigated By Bore / Well / Pumpset, Other Soil	Acre	8,50,000.00
4			
Valuation On Basic Rate			0
Page 1 of 10			7 record(s) found



Valuation Details

Basic Search Advance Search

Districts\* Haveri

Registration District\* Haveri

SRO Office\* Byadagi

Area Name\* Kadaramandalagi

Taluka : Please enter first 3 letters to populate area automatically.

Byadagi

Village Name \* Kadaramandalagi

Hobli \* Byadagi Hobli

Property Usage Type\* Agriculture

Total Area\* 1

Measurement Unit\* Acre

Display Valuation

Agriculture Rate Details

	Property Type	Unit	Rate (₹)
1	<input type="radio"/> Dry, No Source of Irrigation, Black Soil	Acre	2,80,000.00
2	<input type="radio"/> Dry, No Source of Irrigation, Red Soil	Acre	2,30,000.00
3	<input type="radio"/> Dry, No Source of Irrigation, Other	Acre	0.00
4	<input type="radio"/> Bagayat, Dry	Acre	4,20,000.00
5	<input type="radio"/> Dry, No Source of Irrigation, Loamy Soil	Acre	0.00
6	<input type="radio"/> Wet (Assured Water Supply from Government Tanks/Canals), One Crop	Acre	3,10,000.00
7	<input type="radio"/> Dry Agriculture Land, Irrigated By Bore / Well / Pumpset, Other Soil	Acre	3,50,000.00

Valuation On Basic Rate

7 record(s) found



## Valuation Details

Basic Search Advance Search

Districts\*

Haveri

Registration District\*

Haveri

SRO Office\*

Byadagi

Area Name\*

Lakamajjikoppa

Taluka :

Byadagi

Village Name \*

Lakmajjikoppa

Hobli \*

Byadagi Hobli

Property Usage Type\*

Agriculture

Total Area\*

1

Measurement Unit\*

Acre

Please enter first 3 letters to populate area automatically.

## Display Valuation

## Agriculture Rate Details

	Property Type	Unit	Rate ( ₹ )
1	<input type="radio"/> Dry, No Source of Irrigation, Black Soil	Acre	1,90,000.00
2	<input type="radio"/> Dry, No Source of Irrigation, Red Soil	Acre	1,60,000.00
3	<input type="radio"/> Dry, No Source of Irrigation, Other	Acre	0.00
4	<input type="radio"/> Bagayat, Dry	Acre	2,70,000.00
5	<input type="radio"/> Dry, No Source of Irrigation, Loamy Soil	Acre	0.00
6	<input type="radio"/> Wet (Assured Water Supply from Government Tanks/Canals), One Crop	Acre	2,00,000.00
7	<input type="radio"/> Dry Agriculture Land, Irrigated By Bore / Well / Pumpset, Other Soil	Acre	2,30,000.00
4			
Valuation On Basic Rate			0
Page 1 of 1			7 record(s) found





## Karnatak Power Transmission Corporation Limited

**Survey Consultants: M/s Karnataka Surveyors, Bengaluru.**

Name of Project: Construction of 110kV LILO line from proposed 220/110KV R/S Byadagi to LJLOing of the existing 110KV Aremallapura - Honnatti line, in Byadgi and Ranebennur Taluk, Haveri District.

Corporate Circular No.: KPTCL/SA8/B7/19105/15-16 Dated: 23.01.2019

**Length of the Line: 21.729 Kms.**

Corridor Area as per Guideline Cost						
1	Hanumapura limits					
	Length of the Line (in Km):	1.929	Kms.		Guidance Value (in Rs.):	400000.00 Per Acre (Approx.)
	Line Corridor Area					
	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount	
	1929	22	42438	10.48629		
	Calculation	Area in Acres	% on Guidance value/Acre			
	10.49	400000.00	15		629177.17	
2	Honnatti Village Limits:					
	Length of the Line (in Km):	1.407	Kms.		Guidance Value (in Rs.):	400000.00 Per Acre (Approx.)
	Line Corridor Area					
	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount	
	1407	22	30954	7.64863		
	Calculation	Area in Acres	% on Guidance value/Acre			
	7.65	400000.00	15		458917.72	
3	Budapanahalli Village Limits:					
	Length of the Line (in Km):	4.916	Kms.		Guidance Value (in Rs.):	250000.00 Per Acre (Approx.)
	Line Corridor Area					
	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount	
	4916	22	108152	26.72399		
	Calculation	Area in Acres	% on Guidance value/Acre			



		26.72	250000.00	15		1002149.74
4	Kajjari Village limits					
	Length of the Line (in Km):		1.7565 Kms.		Guidance Value (in Rs.):	400000.00 Per Acre (Approx.)
	Line Corridor Area					
		Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
		1756.5	22	38643	9.54855	
	Calculation	Area in Acres	Guidance value/Acre	% on Guidance value		
		9.55	400000.00	15		572913.27
5	Kakola Village limits					
	Length of the Line (in Km):		4.551 Kms.		Guidance Value (in Rs.):	390000.00 Per Acre (Approx.)
	Line Corridor Area					
		Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
		4551	22	100122	24.73981	
	Calculation	Area in Acres	Guidance value/Acre	% on Guidance value		
		24.74	390000.00	15		1447278.72
6	Byadagi Village limits					
	Length of the Line (in Km):		2.184 Kms.		Guidance Value (in Rs.):	900000.00 Per Acre (Approx.)
	Line Corridor Area					
		Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount
		2184	22	48048	11.87250	
	Calculation	Area in Acres	Guidance value/Acre	% on Guidance value		
		11.87	900000.00	15		1602787.25
7	Kadaramandalagi Village limits					



Length of the Line (in Km):		3	Kms.	Guidance Value (in Rs.) :		420000.00	Per Acre (Approx.)
Line Corridor Area							
	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount		
	3852	22	84744	20.93996			
Calculation	Area in Acres	Guidance value/Acre	% on Guidance value				
	20.94	420000.00	15		1319217.20		
8 Lakmajikoppa Village limits							
Length of the Line (in Km):		1.1335	Kms.	Guidance Value (in Rs.) :		270000.00	Per Acre (Approx.)
Line Corridor Area							
	Length in Mtrs	Width in Mtrs	Area in Sq.Mtrs	Area in Acres	Total Amount		
	1133.5	22	24937	6.16185			
Calculation	Area in Acres	Guidance value/Acre	% on Guidance value				
	6.16	270000.00	15		249554.86		
Grand Total for Line Corridor Area							
Length of the Line [in Km.]				21.729			
Land Compensation for Corridor Area [in Rs.]				7281995.92			

3

51

52  
11  
28

# Karnataka Power Transmission Corporation Limited

Survey Consultants: M/s Karnataka Surveyors, Bengaluru.

Name of Project: Construction of 110kV LILO line from proposed 220/110KV R/S Byadagi to LIL Oing of the existing 110KV Aremallapura - Honnatti line, in Byadgi and Ranebennur Taluk, Haveri District.

Corporate Circular No.: KPTCL/SA8/B/19105/15-16 Dated: 23.01.2019

Length of the Line: 21.729 Kms.

## Tower Foot Area as per Guideline Cost

A Hanumapura limits					
Tower Footing Area					

SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount
Proposed 110KV D/C Towers(M/s Kalpatharu Design adopted for AEQUS Project)								
1	DA+0	1	12.25	0.003	0.003	400000.00	340000	1029.16
2	DA+3	3	15.60	0.004	0.012	400000.00	340000	3931.80
3	DB+3	1	26.21	0.006	0.006	400000.00	340000	2201.98
4	DC+3	1	32.60	0.008	0.008	400000.00	340000	2738.82
5	DD+0	3	30.25	0.007	0.022	400000.00	340000	7624.17
		9		Total	0.052			17525.92
B Honnatti Village Limits:								
Tower Footing Area								

Tower Footing Area								
	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount
	Proposed 110KV D/C Towers(M/s Kalpatharu Design adopted for AEQUS Project)							
1	DA+3	3	15.6	0.004	0.012	400000.00	340000	3931.80
2	DC+0	1	25	0.006	0.006	400000.00	340000	2100.32
3	DD+0	1	30.25	0.007	0.007	400000.00	340000	2541.39
		5		Total	0.025			8573.51





C	Budapanahalli Village Limits:								
	Tower Footing Area								
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount	
	Proposed 110KV D/C Towers(M/s Kalpatharu Design adopted for AEQUS Project)								
1	DA+0	5	12.25	0.003	0.015	250000.00	212500	3216.12	
2	DA+3	1	15.60	0.004	0.004	250000.00	212500	819.13	
3	DA+6	6	19.44	0.005	0.029	250000.00	212500	6124.54	
4	DA+9	1	23.71	0.006	0.006	250000.00	212500	1244.97	
5	DB+0	2	20.25	0.005	0.010	250000.00	212500	2126.58	
6	DC+3	2	32.60	0.008	0.016	250000.00	212500	3423.52	
7	DD+0	1	30.25	0.007	0.007	250001.00	212500.85	1588.37	
		18		Total	0.087			18543.22	
D	Kajjari Village limits								
	Tower Footing Area								
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount	
	Proposed 110KV D/C Towers(M/s Kalpatharu Design adopted for AEQUS Project)								
1	DA+0	1	12.25	0.003	0.003	400000.00	340000	1029.16	
2	DA+3	2	15.60	0.004	0.008	400000.00	340000	2621.20	
3	DB+0	1	20.25	0.005	0.005	400001.00	340000.85	1701.26	
3	DC+0	1	25.00	0.006	0.006	400000.00	340000	2100.32	
4	DD+0	2	30.25	0.007	0.015	400000.00	340000	5082.78	
		7		Total	0.037			12534.72	
E	Kakola Village limits								
	Tower Footing Area								
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount	
	Proposed 110KV D/C Towers(M/s Kalpatharu Design adopted for AEQUS Project)								
1	DA+0	3	12.25	0.003	0.009	390000.00	331500	3010.29	
2	DA+3	3	15.60	0.004	0.012	390000.00	331500	3833.51	
3	DA+6	3	19.44	0.005	0.014	390000.00	331500	4777.14	
4	DB+3	1	26.21	0.006	0.006	390000.00	331500	2146.93	
5	DB+9	1	40.70	0.010	0.010	390000.00	331500	3333.84	
6	DC+3	1	32.60	0.008	0.008	390000.00	331500	2670.35	



7	DL+0	1	30.25	0.007	0.007	390000.00	331500	2477.85
8	DD+9	4	60.99	0.015	0.060	390000	331500	19983.38
		17		Total	0.127			42233.28
F Byadagi Village limits								
Tower Footing Area								
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount
Proposed 110KV D/C Towers(M/s Kalpatharu Design adopted for AEQUS Project)								
1	DA+3	1	15.60	0.004	0.004	900000.00	765000	2948.85
2	DD+0	1	30.25	0.007	0.007	900000.00	765000	5718.12
3	DD+3	1	39.31	0.010	0.010	900000.00	765000	7430.73
4	DD+9	2	60.99	0.015	0.030	900000.00	765000	23057.75
5	DD+12	1	73.60	0.018	0.018	900001.00	765000.85	13912.54
		6		Total	0.069			53067.99
G Lakmajikoppa Village limits								
Tower Footing Area								
SL. NO.	Tower Type	No. of towers	Area in Sqmtrs	Area in Acres	Total Area in Acres	Guidance Value /Acre	85% of Guidance Value	Total Amount
Proposed 110KV D/C Towers(M/s Kalpatharu Design adopted for AEQUS Project)								
1	*DD+0	2	30.25	0.007	0.015	270000.00	229500	3430.87
		2		Total	0.015			3430.87

Total No. of towers in the Line [in No.]

Compensation towards Tower Footing Area [in Rs.]



# **KARNATAKA POWER TRANSMISSION CORPORATION LIMITED**

Name of Project: Construction of 110kV LILO line from proposed 220/110KV R/S Byadagi to LILOing of the existing 110KV Aremallapura - Honnatti line, in Byadgi and Ranebennur Taluk, Haveri District.

ABSTRACT		
Sl. No.	Particulars	Compensation Amount [in Rs.]
1	Line Corridor Area	7281995.92
2	Tower Footing Area	155909.52
Total cost of Land Compensation		7437905.44



For Karnataka Surveyors

*[Signature]*

Assistant Engineer Ele.,  
Major Works Sub - Division  
KPTCL, Haveri

*[Signature]*

Assistant Executive Engineer Ele.,  
Major Works Sub - Division  
KPTCL, Haveri

*[Signature]*

Executive Engineer Ele.,  
Major Works Division  
KPTCL, Haveri

*[Signature]*

Superintending Engineer Ele.,  
Transmission (W&M) Circle  
KPTCL, Hubballi



**REVENUE SURVEY NUMBERS OF TRANSMISSION ROUTE ALIGNMENT**

**Name of Work :** Construction of 110kV LILO line from proposed 220kV R/S Byadagi to LILO of the existing 110kV Aremallapura - Honnatti line in Byadgi and Ranebennur Taluk, Haveri District, Karnataka.

**Client :** M/s KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

**Surveyors :** M/S KARNATAKA SURVEYORS, BANGALURU.

**REVENUE SURVEY NUMBERS**

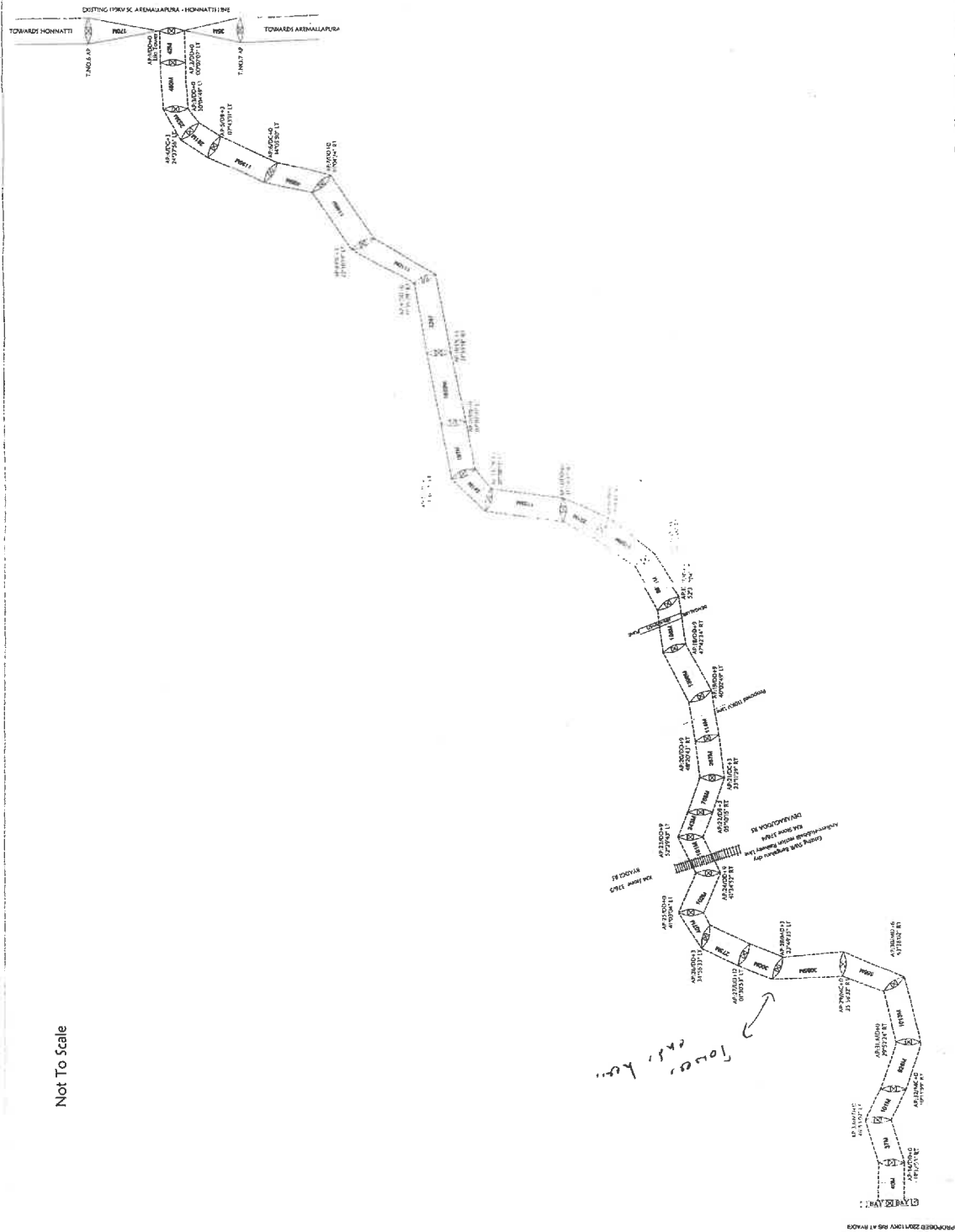
SI No.	Tower Nos.	Revenue Survey Number	Village Names	Hobli	Taluk	Dist
1	AP1/DD+00 TO AP2/DD+00	69	Hanumapura	Medleri	Ranebennur	Haveri
2	AP2/DD+00 TO AP3/DD+00	69, 68				
3	AP3/DD+00 TO AP4/DC+03	68, 75				
4	AP4/DC+03 TO AP5/DB+03	75, 79				
5	AP5/DB+03 TO AP6/DC+00	79, 80, 81, 82, 83				
6	AP5/DB+03 TO AP6/DC+00	58, 59	Honnatti	Ranebennur		
7	AP6/DC+00 TO AP7/DD+00	59, 60, 61				
8	AP7/DD+00 TO AP8/DB+00	61, 56, 55, 54				
9	AP7/DD+00 TO AP8/DC+3	76, 75	Budapanahalli	Byadagi	Byadagi	
10	AP8/DC+3 TO AP9/DD+00	75, 76, 79/K, 76/A				
	AP9/DD+00 TO AP10/DC+3	82/D, 82/C/2, 82/D/2, 82/D/1, 82/K, 87				
11	AP10/DC+03 TO AP11/DB+00	90, 89, 100, 98, 111				
12	AP11/DB+00 TO AP12/DD+00	111	Kajjari	Ranebennur	Ranebennur	Haveri
13	AP12/DD+00 TO AP13/DC+00	68, 69				
14	AP13/DC+00 TO AP14/DD+00	69, 63, 64, 59, 60, 55				
15	AP14/DD+00 TO AP15/DB+00	55, 58, 57				
	AP15/DB+00 TO AP16/DD+0	57				
16	AP15/DC+09 TO AP16/DD+00	39, 45, 44, 40, 41, 42, 54				
17	AP16/DD+09 TO AP17/DD+09	55, 6, 7, 8, 11, 13				
18	AP17/DD+09 TO AP18/DD+09	18, 19, 182, 183				





NAME OF PROJECT: CONSTRUCTION OF PROPOSED 110KV LIL O LINE FROM PROPOSED 220/110KV R/S AT BYADAGI TO LIL Oing OF THE EXISTING 110KV SC AREMALLAPURA - HONNATTI LINE, IN BYADGI AND RANEBENNUR TALUK, HAVERI DISTRICT.

Not To Scale



For Karnataka Surveyors

