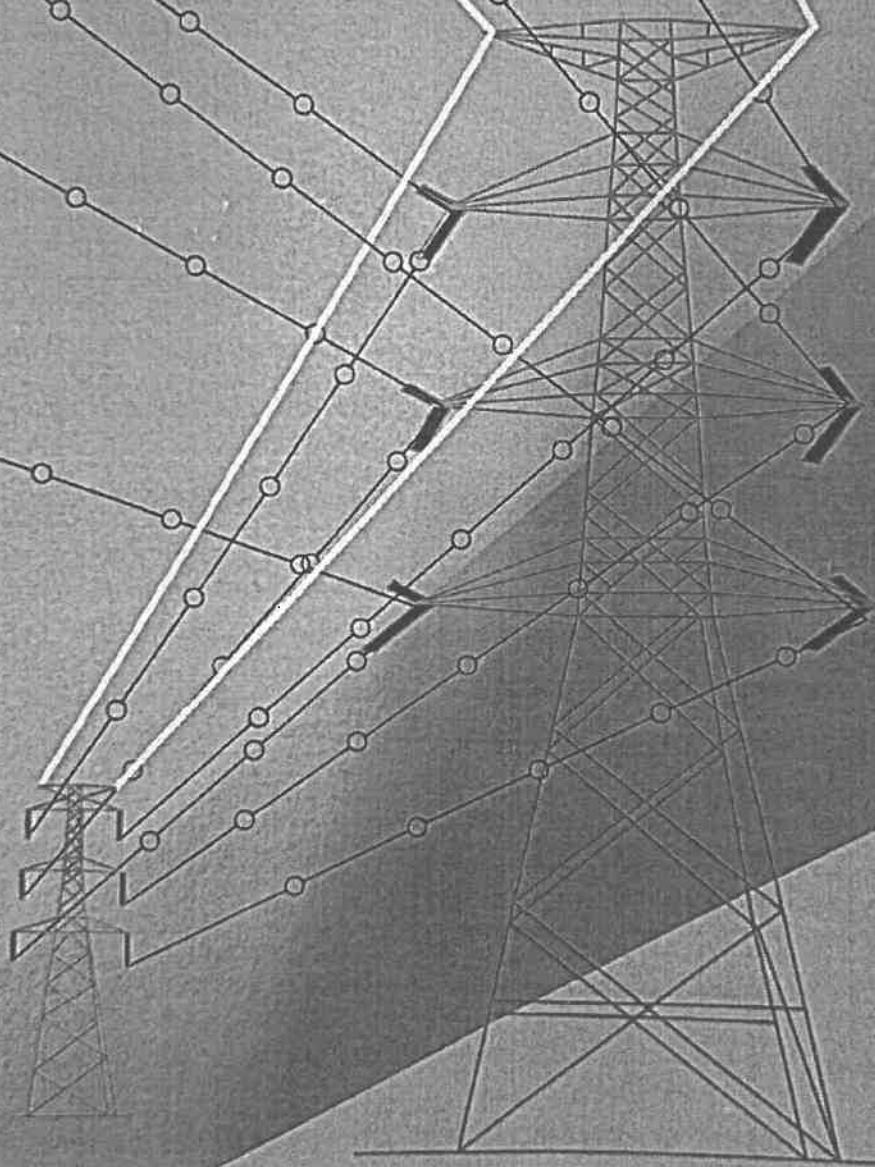


KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

DETAILED MODERN SURVEY REPORT

CONDUCTING DETAILED SURVEY USING MODERN SURVEY TECHNIQUES FOR CONSTRUCTION
OF 66KV D/C LINE ON 110KV D/C TOWERS USING COYOTE ACSR FROM THE EXISTING 66KV
KADAVINAKOTE-HANGARAHALLY-HASSAN-1 D/C LINE TO THE PROPOSED 66/11KV,
2X12.5MVA S/S AT PADUVALHIPPE IN HOLENARASIPURA TALUK, HASSAN DISTRICT.



M/s Yashashwi Engineering Consultants

Bangalore

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INDEX

CLIENT : KARNATAKA POWER TRANSMISSION CORPORATION LIMITED, HASSAN

Name of work : Conducting detailed survey using modern survey techniques for construction of 66kV D/C line on 110kV D/C towers using COYOTE ACSR from the Existing 66KV Kadavinakote-Hangarahally-Hassan-1 D/C line to the Proposed 66/11KV, 2x12.5MVA S/S at Paduvalhippe in Holenarasipura taluk, Hassan district.

SL No.	PARTICULARS
1	TOWER SCHEDULE
2	ABSTRACT OF TOWERS
3	LINE SCHEDULE
4	ABSTRACT OF LINE SCHEDULE
5	TREE SCHEDULE
6	ABSTRACT OF TREE SCHEDULE & TREE CUT COMPENSATION
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TOWER SCHEDULE

CLIENT
KARNATAKA POWER TRANSMISSION CORPORATION LIMITED, HASSAN

NAME OF WORK
Conducting detailed survey using modern survey techniques for construction of 66KV D/C line on 110KV D/C towers using COYOTE

Voltage class
Type conductor
Tension at 85°C and no wind
Weight of the conductor (kg / Mtr)
Height of the bottom conductor
Minimum ground clearance
Weight span details
Maximum span limit

66KV
" ACSR COYOTE "
"850KG"
0.5209 KG/M
13.4 Mtr
5.72M
A' Type + 70 to + 420
325 M
'B','C','D', - 420 to + 420

SL No	AP Nos	Type of tower	Angle of Deviation	Span in Mts	Cum. Chainage	Weight Span In Mts			GPS co-ordinates		Crossing Details	Soil classification (Type of soil)	Village Limits
						L	R	T	Easting	Northing			
		LULO Tower DD+3 110KV NBT with Box cross arm	-		0	-	-8	-8	628074	1418614	Survey Comenced from Existing 66KV Kadavinakote-Hangarahally-Hassan-1 D/C line in b/w T.No.79 & 80 tower to dismantled and Proposed DC+3 towers 3 Nos Additional Cross arms to be provided,	WBC	Kamasamudra
	AP-1	DD+6 110KV NBT	18°39'27"L	55	55	63	147	210	628052	1418564	Cart track, Existing 66KV S/C line from Kadavinakote to Hassan in b/w H Frame towers		
		DC+3 110KV NBT	0°0'0"	200	255	53	77	130	628034	1418365		WBC	"
	AP-2	DD+6 110KV NBT	37°13'2"L	210	465	133	135	268	628016	1418160	11KV Line 3 Mtr Chimney Extention Provided for River Crossing	WBC	"

SL No	AP Nos	Type of tower	Angle of Deviation	Span in Mts	Cum. Chainage	Weight Span in Mts				GPS co-ordinates			Crossing Details	Soil classification (Type of soil)	Village Limits
						L	R	T		Easting	Northing	UTM/UPS			
				305									HEMAVATHI RIVER		
5	AP-3	DD+6 110KV NBT	32°26'11"R		770	170	135	305		628178	1417902		3 Mtr Chimney Extension Provided for River Crossing	WBC	"
6	AP-4	DD+3 110KV NBT	52°29'51"R	185	955	50	103	153		628177	1417718		Betelnut garden at 10M right side	WBC	Paduvalahippe
7	AP-5	DC+3 110KV NBT	14°31'35"R	250	1205	147	75	222		627978	1417567			WBC	"
8	AP-6	DC+3 110KV NBT	18°47'57"R	200	1405	125	56	181		627796	1417491		LT line	WBC	"
	AP-7	DD+0 110KV NBT with 9 cross arm	84°10'36"R	70	1475	14	-	14		627722	1417486			WBC	"
		BAY	-	45	1520	-	-	-		627715	1417527		Joining to the Proposed 66/11KV, 2x12.5MVA S/S at Paduvalahippe	WBC	"
		Existing T.No.78 DB+0	0°0'0"	0	1520	-	63	63		627856	1418721		Survey Comenced from Existing 66KV Kadavinakote-Hangarahally-Hassan-1 D/C line T.No.78 DB+0 to be retained	WBC	Kamasamadra
				175									Box Nala, cart track, 11KV line, Existing 66KV T.No.79 DA+6 to be dismantled		
		Proposed T.No.79 DC+3 110KV NBT	0°0'0"		1695	112	104	216		628013	1418645		Proposed 110KV DC+3 NBT Tower with Box Crawl on	WBC	"

SL No	AP Nos	Type of tower	Angle of Deviation	Span in Mts	Cum. Chainage	Weight Span in Mts			GPS co-ordinates		Crossing Details	Soil classification (Type of soil)	Village Limits
						L	R	T	Easting	Northing			
1*		LULO Tower DD+3* 110KV NBT	0°0'0"	68	1763	-36	103	67	628074	1418614	Proposed 110KV DD+3 NBT LULO Tower	WBC	"
11		Proposed T.No.80 DC+3 110KV NBT	0°0'0"	180	1943	77	158	235	628236	1418537	Existing 66KV T.No.80 DA+0 to be dismantled	WBC	"
81		Existing T.No.81 DA+3	-	247	2190	89	75	164	628459	1418429	Proposed 110KV DC+3 NBT Tower with Box Cables across Cart track Joining to Existing 66KV Kadavinakote- Hangarahally-Hassan-1 D/C line T.No.81 DA+3 to be retained	WBC	"



Seal & signature
of the author

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Transmission (Projects) Circle,
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CLIENT	ABSTRACT OF TOWERS									
	KARNATAKA POWER TRANSMISSION CORPORATION LIMITED, HASSAN									
NAME OF WORK	Conducting detailed survey using modern survey techniques for construction of 66kV D/C line on 110kV D/C towers using COYOTE ACSR from the Existing 66KV Kadavinakote-Hangarahally-Hassan-1 D/C line to the Proposed 66/11KV, 2x12.5MVA S/S at Paduvalhippe in Holenarasipura taluk, Hassan district.									
Voltage class	66kV									
Type of conductor	ACSR COYOTE									
Sl.No	Type of tower	Normal	Extension Towers			Extension Towers		Total		
			3M Extn	6M Extn	9M Extn	12M Extn	12M Extn			
Proposed 110KV D/C NB Towers (KPTCL Design)										
1	DC	5	5	-	-	-	-	5		
2	DD	5	2	3	-	-	-	5		
3	DD with 9 Cross Arm	1	-	-	-	-	-	1		
4	Additional Box Cross Arms for DD & DC Tower	3	-	-	-	-	-	3		
Existing 66KV D/C Towers to be retained (KPTCL Design)										
1	DA	-	1	-	-	-	-	1		
2	DB	1	-	-	-	-	-	1		
Existing 66KV D/C Towers to be dismantled (KPTCL Design)										
1	DA	1	1	-	-	-	-	1		
Total Nos.										
Existing 66KV D/C Towers to be retained (KPTCL Design)								11 Nos.		
Existing 66KV D/C Towers to be dismantled (KPTCL Design)								2 Nos.		
Total Nos.										
Existing 66KV D/C Towers to be retained (KPTCL Design)								11 Nos.		
Existing 66KV D/C Towers to be dismantled (KPTCL Design)								2 Nos.		
Total Nos.										

Note : 1) Minor deviation if any due to way leave problem that may arise during the execution of the work.

Note : 1) Minor deviation if any due to way leave problem that may arise during the execution of the work will be incorporated accordingly.
 2) In Existing 66KV Kadavinakote-Hangarahally-Hassan-1 D/C line T.No.79 DA+6 & T.No.80 DA+0 tower to dismantled and Proposed DC+3



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LINE SCHEDULE					
CLIENT	KARNATAKA POWER TRANSMISSION CORPORATION LIMITED, HASSAN				
NAME OF WORK	Conducting detailed survey using modern survey techniques for construction of 66kV ^{hilo} D/C line on 110kV D/C towers using COYOTE ACSR from the Existing 66KV Kadavinakote-Hangarahally-Hassan-1 D/C line to the Proposed 66/11KV, 2x12.5MVA S/S at Paduvalhippe in Holenarasipura taluk, Hassan district.				
S.No	Chainage in Mts	Name/ type of Line	Voltage Class	Height of the line in Mts	Remarks
LILO Tower to AP-1					
1	35	66KV	66KV S/C	11M	Existing 66KV S/C line from Kadavainakote to Hassan H Frame line
AP-1 to AP-2					
2	265	11kV Line	11kV	8.0	-
AP-2 to AP-3					
Nil					
AP-3 to AP-4					
Nil					
AP-4 to AP-5					
Nil					
AP-5 to AP-6					
3	1243	LT Line	400V	7.0	
AP-6 to AP-7					
Nil					
AP-7 to BAY					
Nil					





Executive Engineer (Ele)
Projects, KPTCL
Hassan

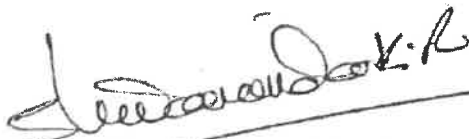
ABSTRACT OF LINE SCHEDULE


CLIENT	KARNATAKA POWER TRANSMISSION CORPORATION LIMITED, HASSAN	
NAME OF WORK	Conducting detailed survey using modern survey techniques for construction of 66kV D/C line on 110kV D/C towers using COYOTE ACSR from the Existing 66KV Kadavinakote-Hangarahally-Hassan-1 D/C line to the Proposed 66/11KV, 2x12.5MVA S/S at Paduvalhippe in Holenarasipura taluk, Hassan district.	
Sl.No.	Name of the Lines	No of Power Lines
1	LT line	1
2	11KV Line	1
3	11kV/LT Line	-
4	33kV line	-
5	66kV line	1
6	110kV line	-
7	220kV Line	-
8	400 kV Line	-
9	Telephone line crossing	-
10	Other	-
	Total	3 No's




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TREE SCHEDULE

CLIENT

KARNATAKA POWER TRANSMISSION CORPORATION LIMITED, HASSAN

NAME OF WORK

Conducting detailed survey using modern survey techniques for construction of 66kV D/C line on 110kV D/C towers using COYOTE ACSR from the Existing 66KV Kadavinakote-Hangarahally-Hassan-1 D/C line to the Proposed 66/11kV, 2x12.5MVA S/S at Paduvalhippe in Holenarasipura taluk, Hassan district.

SI No	Chainage in mts	Name of the Tree	Distance from center of line in mts	Girth size in mts (at 1mt from ground)	Height of the tree in mts	(No. of Trees)	Value of trees in Rs.	Amount in Rs. (No. of trees) value of tree
L I L O to to AP-1								
NIII								
AP-1 to AP-2								
1	40	Coconut tree	4R	0.7	5	4		
AP-2 to AP-3								
1	48	Akeshiya tree	6R	2	8	2		
2	48	Akeshiya tree	5L	1	3	3		
3	50	Teakwood tree	6R	0.5	4	3		
4	50	Honge tree	4L	1	3	1		
AP-3 to AP-4								
1	125	Teakwood tree	6L	0.3	2	2		
2	125	Teakwood tree	4R	0.5	3	3		
AP-4 to AP-5								
NIII								
AP-5 to AP-6								
NIII								
AP-6 TO AP-7								
NIII								
AP-7 to Bay-3								
NIII								
Total tree cut compensation amount								



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ABSTRACT OF TREE SCHEDULE

KARNATAKA POWER TRANSMISSION CORPORATION LIMITED, HASSAN

NAME OF WORK

Conducting detailed survey using modern survey techniques for construction of 66kV D/C line on 110kV D/C towers using COYOTE ACSR from the Existing 66KV Kadavinakote-Hangarahally-Hassan-1 D/C line to the Proposed 66/11KV, 2x12.5MVA S/S at Paduvahippe in Holenarasipura taluk, Hassan district.

Sl No.	Name of Trees	No of trees	Value of trees in Rs	Total compensation amount in Rs
2	Akeshiya	5	12000	60000
3	Coconut Tree	4	25000	100000
4	Honge Tree	1	5000	5000
9	Teakwood Tree	8	100000	800000
Total		18		965000

Seal & signature of the surveyor



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SOIL RESISTIVITY REPORT

CLIENT					KARNATAKA POWER TRANSMISSION CORPORATION LIMITED, HASSAN				
NAME OF WORK					Conducting detailed survey using modern survey techniques for construction of 66kV D/C line on 110kV D/C towers using COYOTE ACSR from the Existing 66kV Kadavinakote-Hangarahally-Hassan-1 D/C line to the Proposed 66/11kV, 2x12.5MVA S/S at Paduvahippe in Holenarasipura taluk, Hassan district.				
Sl No.	Cumulative chainage in mts	Soil encountered	Earth resistance in ohms @	Soil resistivity in ohm-cms = $(2l/r\rho)$	Remarks				
1	0	BC Soil	0.60	18840	Near LIL O Point				
2	1010	BC Soil	0.65	20410	After AP-4				
3	1520	BC Soil	0.62	19468	Near Proposed 66/11kV, 2x12.5MVA S/S at Paduvahippe				
Total =				58718					

$$\text{Average soil resistivity} = \frac{58718}{3} = 19572.67 \text{ ohm-cms.}$$

Note: 1' spacing between electrodes = 5000 cms
 $\Pi = 3.14$
 r' is earth resistance in ohms.



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SOIL CLASSIFICATION

CLIENT KARNATAKA POWER TRANSMISSION CORPORATION LIMITED, HASSAN

NAME OF WORK

Conducting detailed survey using modern survey techniques for construction of 66kV D/C line on 110kV D/C towers using COYOTE ACSR from the Existing 66kV Kadavinakote-Hangarahally-Hassan-1 D/C line to the Proposed 66/11kV, 2x12.5MVA S/S at Paduvalhippe in Holenarasipura taluk, Hassan district.

Tower No.	AP Nos	Type of tower	Angle of Deviation	Cum. Chainage in mtr	NDS/ Dry BC	Wet black cotton soil	Partially submerged	Fully submerged	Hard Rock	Soft rock/Lime stone	Wet soil	DFR soil	Total Depth	Provisional type of foundation
1		LHO Tower DD+3 110KV NBT	-	0	0.90	2.10	-	-	-	-	-	-	3.00	WBC
2	AP-1	DD+6 110KV NBT	18°39'27"L	55	0.70	2.30	-	-	-	-	-	-	3.00	WBC
3		DC+3 110KV NBT	0°0'0"	200	0.55	2.45	-	-	-	-	-	-	3.00	WBC
4	AP-2	DD+6 110KV NBT	37°13'2"L	210	0.75	2.25	-	-	-	-	-	-	3.00	WBC
5	AP-3	DD+6 110KV NBT	32°26'11"R	305	0.60	2.40	-	-	-	-	-	-	3.00	WBC
6	AP-4	DD+3 110KV NBT	52°29'51"R	185	0.50	2.50	-	-	-	-	-	-	3.00	WBC
7	AP-5	DC+3 110KV NBT	14°31'35"R	250	0.80	2.20	-	-	-	-	-	-	3.00	WBC
8	AP-6	DC+3 110KV NBT	18°47'57"R	200	1.10	1.90	-	-	-	-	-	-	3.00	WBC
9	AP-7	DD+0 110KV NBT with 9 cross arm	84°10'36"R	70	1.05	1.95	-	-	-	-	-	-	3.00	WBC



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LIST OF RENEWUE SURVEY NUMBERS

LIST OF RENEWUE SURVEY NUMBERS						
CLIENT	KARNATAKA POWER TRANSMISSION CORPORATION LIMITED, HASSAN					
NAME OF WORK	Conducting detailed survey using modern survey techniques for construction of 66kV D/C line on 110kV D/C towers using COYOTE ACSR from the Existing 66KV Kadavinakote-Hangarahally-Hassan-1 D/C line to the Proposed 66/11kV, 2x12.5MVA S/S at Paduvalhippe in Holenarasipura taluk, Hassan district.					
SL No.	Tower Nos.	Survey Nos	Village	Hobli	Taluk	District
1	(LILO Tower) T.No.1 to T. No.2	25, 36, 37	Karnasamudra	Halekote	Holenarasipura	Hassan
2	T.No.2 to T.No.3	37, 36				
3	T.No.3 to T.No.4	36				
4	T.No.4 to T.No.5	36				
		68	Paduvalahippe	Kasaba		
5	T.No.5 to T.No.6	68, 69				
6	T.No.6 to T.No.7	69, 70, 1, 2, 3				
7	T.No.7 to T.No.8	3, 4				
8	T.No.8 to T.No.9	4, 31	Karnasamudra	Halekote		
9	T.No.9 to BAY	-				
10	Existing T.No.78 to Proposed T.No.10 (79)	59, 21				
11	Proposed T.No.10 (79) to Proposed LILO T.No.1*	21, 25				
12	Proposed LILO T.No.1* to Proposed T.No.11 (80)	25, 34				
13	Proposed T.No.11 (80) to Existing T.No.81	34, 26, 28				



Signature of the Surveyor
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 KPTCL, Hassan

Signature of the Assistant Executive Engineer
 Assistant Executive Engineer (Ele.)
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Signature of the Superintending Engineer
 Superintending Engineer (Elec.),
 Transmission (Projects) Circle,
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TOWER FOOT AREA LAND COMPENSATION

CLIENT KARNATAKA POWER TRANSMISSION CORPORATION LIMITED, HASSAN
NAME OF WORK Conducting detailed survey using modern survey techniques for construction of 66kV D/C line on 110KV D/C towers using COYOTE ACSR from the Existing 66KV Kadavinakote-Hangarahally-Hassan-1 D/C line to the Proposed 66/11KV, 2x12.5MVA S/S at Paduvalahippe in Holenarasipura taluk, Hassan district.

Tower Nos.	Type of tower	Area of tower foot in Sq MM	Survey Number	Village	Guadince value for SQMM	Compensation	200% of total Compensation
1	2	3	4	5	6	7=3*6	
1	LIL Tower DD+3 110KV NBT	29.9209	25	Kamasamudra	1400.00	41889.26	83778.52
2	DD+6 110KV NBT	33.0625	37	"	1400.00	46287.5	92575
3	DC+3 110KV NBT	21.6225	36	"	1400.00	30271.5	60543
4	DD+6 110KV NBT	33.0625	36	"	1400.00	46287.5	92575
5	DD+6 110KV NBT	33.0625	68	Paduvalahippe	1300.00	42981.25	85962.5
6	DD+3 110KV NBT	29.9209	69	"	1300.00	38897.17	77794.34
7	DC+3 110KV NBT	21.6225	3	"	1300.00	28109.25	56218.5
8	DC+3 110KV NBT	21.6225	4	"	1300.00	28109.25	56218.5
9	DD+0 110KV NBT with 9 cross arm	27.04	-	"	1300.00	35152	70304
8	DC+3 110KV NBT	21.6225	21	Kamasamudra	1400.00	30271.5	60543
9	DC+3 110KV NBT	21.6225	34	"	1400.00	30271.5	60543
					Total	337984.68	675969.36

ower foot area compensation as per Governmentt Order No. Energy 376 VSC 2022, Bangalore Dated : 20-08-2024
 100% of total compensation)

ote : Land Values are Taken from Kaveri Online Website (Government of Karnataka)
 NEERING CONSULTANT
 Bangalore
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 & survey for

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797055.36

CORRIDOR AREA LAND COMPENSATION

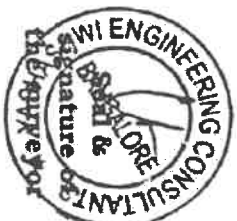
CLIENT KARNATAKA POWER TRANSMISSION CORPORATION LIMITED, HASSAN

NAME OF WORK Conducting detailed survey using modern survey techniques for construction of 66kV D/C line on 110kV D/C towers using COYOTE ACSR from the Existing 66kV Kadavinakote-Hangarahally-Hassan-1 D/C line to the Proposed 66/11kV, 2x12.5MVA S/S at Paduvahippe in Holenarasipura taluk, Hassan district.

SL No.	Span/Corridor	Length of corridor Mtrs	Width of corridor Mtrs	Area of corridor in Sqmt	Gradinace value for acre	Gradinace value Sq mtr	Compensation	30% of total Compensation
1	2	3	4	5	6	7	8=7*5	10=9*30%
1	LHO Tower DD+3 110KV NBT	0	18	0	595000.00	147.027572	0	0
2	DD+6 110KV NBT	55	18	990	595000.00	147.027572	145557.2963	43667.18888
3	DC+3 110KV NBT	200	18	3600	595000.00	147.027572	529299.2592	158789.7778
4	DD+6 110KV NBT	210	18	3780	595000.00	147.027572	555764.2221	166729.2666
5	DD+6 110KV NBT	305	18	5490	680000.00	168.0315109	922492.9946	276747.8984
6	DD+3 110KV NBT	185	18	3330	680000.00	168.0315109	559544.9311	167863.4793
7	DC+3 110KV NBT	250	18	4500	680000.00	168.0315109	756141.7988	226842.5396
8	DC+3 110KV NBT	200	18	3600	680000.00	168.0315109	604913.4391	181474.0317
9	DD+0 110KV NBT with 9 cross arm	70	18	1260	680000.00	168.0315109	211719.7037	63515.9111
	Bay-1	45	18	810	680000.00	168.0315109	136105.5238	40831.65714
10	DC+3 110KV NBT	68	18	1224	595000.00	147.027572	179961.7481	53988.52444
11	DC+3 110KV NBT	180	18	3240	595000.00	147.027572	476369.3333	142910.8
Total							5077870.25	1523361.075

Corridor area compensation as per Government Order No. Energy 376 VSC 2022, Bangalore Dated : 20-08-2024 (30% of total compensation)

Note : Land Values are Taken from Kaveri Online Website (Government of Karnataka)



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KPTCL, Hassan.

ANTICIPATED CROP LOSS COMPENSATION

ANTICIPATED CROP LOSS COMPENSATION										
CLIENT	KARNATAKA POWER TRANSMISSION CORPORATION LIMITED, HASSAN									
NAME OF WORK	Conducting detailed survey using modern survey techniques for construction of 66kV D/C line on 110kV D/C towers using COYOTE ACSR from the Existing 66KV Kadavinakote-Hangarahally-Hassan-1 D/C line to the Proposed 66/11kV, 2x12.5MVA 5/5 at Paduvallippe in Holenarasipura taluk, Hassan district.									
Sl.No	Type of Tower	Length of corridor Mtrs	Width of corridor Mtrs	Area affected in acre	Type of crop	Yield of Crop quintal per acre	Total crop loss in quintal	Value per quintal as per APMC	Compensation Amount	Remarks
1	2	3	4	5	6	7	8=5*7	9	10=9*8	11
1	LLO Tower DD+3 110KV NBT	0	18	0	Ginger	72	0	10000	0	
2	DD+6 110KV NBT	55	18	0.24453	"	72	17.60616	10000	176061.6	
3	DC+3 110KV NBT	200	18	0.8892	"	72	64.0224	10000	640224	
4	DD+6 110KV NBT	210	18	0.93366	"	72	0	10000	0	
5	DD+6 110KV NBT	305	18	1.35603	Maize	38	51.52914	1900	97905.366	
6	DD+3 110KV NBT	185	18	0.82251	"	38	31.25538	1900	59385.222	
7	DC+3 110KV NBT	250	18	1.1115	"	38	42.237	1900	80250.3	
8	DC+3 110KV NBT	200	18	0.8892	"	38	33.7896	1900	64200.24	
9	DD+0 110KV NBT with 9 cross arm Bay-1	70	18	0.31122	"	38	11.82636	1900	22470.084	
		45	18	0.20007	"	38	7.60266	1900	14445.054	
Total				6.75792			259.8687		1154941.866	0

Note : Cropping rate will taken from Krishi Marata Vahini online website (Government of Karnataka)



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ABSTRACT OF IMPORTANT CROSSING/SPECIAL REQUIREMENTS

CLIENT	KARNATAKA POWER TRANSMISSION CORPORATION LIMITED, HASSAN		
NAME OF WORK	Conducting detailed survey using modern survey techniques for construction of 66kV D/C line on 110kV D/C towers using COYOTE ACSR from the Existing 66kV Kadavinakote-Hangarahally-Hassan-1 D/C line to the Proposed 66/11kV, 2x12.5MVA S/S at Paduvahippe in Holenarasipura taluk, Hassan district.		
Sl.No	Type of crossing	chainage	Remarks
1	2	3	4
1	River crossing	YES	1
2	Railway crossing	Nil	-
3	National highway crossing	Nil	-
4	State highway crossing	Nil	-
5	Forest	Nil	-
6	Deemed Forest	Nil	-
7	Chimney Extension	YES	2
8	Benching	Nil	-
9	Revetment	Nil	-



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