

DGPS SURVEY REPORT

**Based on Detail Survey, SOI Toposheets
FOR**

**LILO of 132KV Vishrampur-Pratappur Line from Loc.
No. 31/0 to Proposed 132/33kV S/S Wadraf Nagar**

SUBMITTED TO

Forest Department

Submitted By.

**Chhattisgarh State Power Transmission Co. Ltd.
Raipur**

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1.0 About the Project

Title:	LILO of 132kV Vishrampur-Pratappur Line from Loc. No. 31/0 to Proposed 132/33kV S/S Wadraf Nagar(Non-Snow Zone)
Description:	Detail Survey of LILO of 132KV Vishrampur-Pratappur Line from Loc. No. 31/0 to Proposed 132/33KV S/S Wadraf Nagar (Non-Snow Zone)
Bee Line Length	24.00 Km.
Actual Route Length:	27.407 Km
Loading and Sag Tension Conditions:	Wind Zone 2(39 M/S): Conductor: ACSR 'panther' Basic Span: 305 M
Terrain Condition:	Plain with little undulation
Soil Condition:	Black Cotton Soil, Silty Sand, Poorly Graded Sand , Sandy Silt
Wetness of the Foundation:	Dry, WET & PS

1.1 Stake Holders

Owner:	Chhattisgarh State Power Transmission Co. Ltd.
Contractor:	M/s. N.K. Enterprises, Vaishali, Ghaziabad(U.P)

2.0 SCOPE OF WORK FOR ROUTE ALIGNMENT SURVEY

Identification of route alignment and selection of optimized route alignment in the vicinity of Chhattisgarh Area from Tap Point / Location No. 31/0 of 132kV D/C Vishrampur-Pratappur Line to Proposed Wadraf Nagar Substation, for Transmission Line. Work between Existing Loc. No. 31/0 of 132kV Vishrampur-Pratappur Line having Easting 83°7'42.25" and Northing 23°28'35.83" to Proposed 132/33kV S/S at Wadraf Nagar having Easting 83°12'23.92" and Northing 23°40'51.51" of Chhattisgarh.

SELECTION CRITERIA FOR TRANSMISSION LINE ROUTE

- The alignment of the transmission line should be most economical from the point of view of construction and maintenance.
- The alignment of the transmission line selected should be the shortest possible one.
- Routing of transmission line through protected/reserved forest area should be avoided. In case it is not possible to avoid the forests or areas having large trees completely, and then keeping in view of the overall economy, the route should be aligned in such a way that cutting of trees are minimum.
- The route should have minimum crossings of Major River, Railway lines, National/State highways, overhead EHV power line and communication lines.
- The number of angle points shall be kept to a minimum.
- It would be preferable to utilize level ground for the alignment.
- Crossing of communication line shall be minimized and it shall be preferably at right angle. Proximity and parallelism with telecom lines shall be eliminated to avoid danger of induction to them.
- Areas subjected to flooding such as nala shall be avoided.
- All alignment should be easily accessible both in dry and rainy seasons to enable maintenance throughout the year.
- Certain areas such as quarry sites, tea, tobacco and saffron fields and rich plantations, gardens & nurseries which will present the Owner problems in acquisition of right of way and way leave clearance during construction and maintenance should be avoided.
- Angle points should be selected such that shifting of the point within 100 m radius is possible at the time of construction of the line.
- The line routing should avoid large habitations, densely populated areas, **Forest**, Animal/Bird sanctuary, reserve coal belt areas, oil pipe line/underground inflammable pipe lines etc. to the extent possible.
- The areas requiring special foundations and those prone to flooding should be avoided.

ROUTE-I

Angle Point	Easting	Northing	Longitude	Latitude	Sec. Length	Cumm. Length	Angle of Deviation	Crossing /Remarks
T.No.157	717382.523	2597891.556	83°7'42.2331"	23°28'35.8139"			0°00'00"	Exsiting Loc. No. 157 of 132kV Vishrampur-Pratappur Line
					35.34			
AP1	717368.8951	2597924.162	83°7'41.77"	23°28'36.88"		35.34	0°29'51"RT	
					215.61			
AP2	717287.4817	2598123.806	83°7'39.006"	23°28'43.4068"		250.95	11°16'51"RT	
					309.79			SH-3(Ambikapur- Wadraf Nagar)
AP3	717228.8782	2598427.999	83°7'37.1"	23°28'53.32"		560.73	7°02'59"RT	
					630.28			
AP4	717186.5047	2599056.85	83°7'35.9351"	23°29'13.7754"		1191.01	14°33'35"LT	
					143.04			
AP5	717141.321	2599192.562	83°7'34.4139"	23°29'18.2073"		1334.04	38°05'29"RT	
					1837.71			
AP6	717760.1075	2600922.965	83°7'57.12"	23°30'14.14"		3171.76	9°00'42"RT	
					239.44			
AP7	717875.0476	2601133.008	83°8'1.28"	23°30'20.91"		3411.19	27°02'01"LT	
					279.04			
AP8	717883.1056	2601411.934	83°8'1.71"	23°30'29.97"		3690.24	42°16'53"RT	
					1524.86			Godkatwa River
AP9	718941.1413	2602510.004	83°8'39.57"	23°31'5.14"		5215.10	36°33'33"LT	
					334.85			
AP10	718984.1358	2602842.078	83°8'41.26"	23°31'15.91"		5549.94	24°09'43"RT	
					328.34			
AP11	719155.8848	2603121.917	83°8'47.46"	23°31'24.92"		5878.28	24°07'09"RT	
					974.95			
AP12	719960.8877	2603671.909	83°9'16.12"	23°31'42.4"		6853.23	41°35'34"LT	
					1921.85			

Angle Point	Easting	Northing	Longitude	Latitude	Sec. Length	Cumm. Length	Angle of Deviation	Crossing /Remarks
AP13	720427.9661	2605536.14	83°9'33.57"	23°32'42.75"		8775.08	3°05'15"LT	
					382.93			
AP14	720500.8911	2605912.067	83°9'36.34"	23°32'54.93"		9158.02	59°53'30"LT	
					693.75			
AP15	719978	2606368	83°9'18.1512"	23°33'10.0013"		9851.77	3°10'31"LT	
					275.05			
AP16	719761	2606537	83°9'10.5917"	23°33'15.599"		10126.81	0°37'24"LT	
					137.00			
AP17	719652	2606620	83°9'6.7935"	23°33'18.3493"		10263.82	2°03'37"RT	
					545.71			
AP18	719230	2606966	83°8'52.1012"	23°33'29.7983"		10809.53	7°22'03"RT	
					495.90			
AP19	718890	2607327	83°8'40.3066"	23°33'41.6945"		11305.43	28°38'39"RT	
					253.22			
AP20	718826	2607572	83°8'38.1797"	23°33'49.687"		11558.65	20°03'14"RT	
					602.69			
AP21	718882.8647	2608172	83°8'40.501"	23°34'9.1564"		12161.34	33°15'38"RT	
					313.87			
AP22	719079	2608417.04	83°8'47.5448"	23°34'17.0236"		12475.21	25°36'04"LT	
					283.72			
AP23	719143.1787	2608693.41	83°8'49.9535"	23°34'25.973"		12758.93	36°25'27"LT	
					320.87			
AP24	719016	2608988	83°8'45.6255"	23°34'35.6077"		13079.80	29°14'03"RT	
					218.94			
AP25	719038.4423	2609205.783	83°8'46.5318"	23°34'42.6736"		13298.74	29°49'49"RT	
					579.83			
AP26	719376.9079	2609676.568	83°8'58.7138"	23°34'57.8068"		13878.57	30°27'14"LT	
					316.18			
AP27	719405.8928	2609991.413	83°8'59.9025"	23°35'8.0235"		14194.74	26°57'19"RT	
					319.72			

Angle Point	Easting	Northing	Longitude	Latitude	Sec. Length	Cumm. Length	Angle of Deviation	Crossing /Remarks
AP28	719556	2610284	83°9'6.0552"	23°35'16.7301"		14514.46	32°41'35"RT	
					0.00			
AP29	719809.5020	2610371.0946	83°9'6.0552"	23°35'16.7301"		14514.46	21°58'20"LT	
					798.89			
AP30	720154	2610800	83°9'27.8624"	23°35'33.1658"		15313.35	18°04'49"RT	
					606.94			
AP31	720718	2611071	83°9'46.739"	23°35'42.462"		15920.29	56°33'08"LT	
					552.82			
AP32	720761.0284	2611622.142	83°9'48.55"	23°36'0.35"		16473.11	28°48'26"RT	
					987.80			
AP33	721302.9434	2612448.025	83°10'8.1"	23°36'26.92"		17460.91	27°10'25"RT	
					1245.01			
AP34	722385.957	2613062.136	83°10'46.62"	23°36'46.34"		18705.92	4°40'34"LT	
					1507.16			
AP35	723632.0386	2613909.955	83°11'31.02"	23°37'13.27"		20213.07	38°12'43"LT	
					968.22			
AP36	723924.107	2614833.073	83°11'41.82"	23°37'43.12"		21181.29	17°56'34"LT	
					624.07			
AP37	723919.9062	2615457.127	83°11'42.01"	23°38'3.4"		21805.36	13°46'31"RT	
					1296.09			
AP38	724220.0413	2616717.985	83°11'53.28"	23°38'44.22"		23101.45	26°52'50"RT	
					497.32			
AP39	724541.5041	2617097.441	83°12'4.8251"	23°38'56.389"		23598.77	12°24'40"LT	
					295.13			
AP40	724679.4161	2617358.362	83°12'9.8317"	23°39'4.7981"		23893.89	0°17'09"LT	
					260.22			
AP41	724799.8656	2617589.022	83°12'14.206"	23°39'12.2327"		24154.11	17°48'52"LT	
					1723.87			
AP42	725092.0649	2619287.951	83°12'25.44"	23°40'7.29"		25877.98	1°05'13"RT	
					631.40			

Angle Point	Easting	Northing	Longitude	Latitude	Sec. Length	Cumm. Length	Angle of Deviation	Crossing /Remarks
AP43	725210.8718	2619908.07	83°12'29.97"	23°40'27.38"		26509.38	4°05'18"RT	
					272.12			
AP44	725281	2620171	83°12'32.5878"	23°40'35.8882"		26781.50	30°24'46"LT	
					404.68			
AP45	725173	2620561	83°12'28.9906"	23°40'48.6149"		27186.18	43°36'42"LT	
					169.04			
AP46	725027.9672	2620647.834	83°12'23.9211"	23°40'51.5094"		27407.04	0°00'00"	Proposed 132/33kV S/S Wadraf Nagar

ROUTE-II

AP.No.	Easting	Northing	Longitude	Latitude	Sectional Length	Comm. Length	Angle of Deviation	Crossing & Remarks
31/0	717383	2597892	83°7'42.25"	23°28'35.83"			0°00'00"	Existing Loc. No. 31/0 of 132KV Vishrampur - Pratappur Line
					39.26			
AP1	717369	2597924	83°7'41.77"	23°28'36.87"		39.26	16°41'16"RT	
					209.80			
AP2	717353	2598114	83°7'41.31"	23°28'43.06"		249.06	18°10'14"RT	
					247.10			
AP3	717405	2598333	83°7'43.26"	23°28'50.15"		496.16	25°58'42"RT	
					480.61			
AP4	717682	2598671	83°7'53.19"	23°29'1"		976.77	9°57'50"LT	
					1235.75			
AP5	718233	2599650	83°8'13.12"	23°29'32.55"		2212.52	11°44'59"RT	
					1011.92			
AP6	718838	2600343	83°8'34.8"	23°29'54.77"		3224.44	23°15'38"RT	
					297.66			
AP7	719082	2600460	83°8'43.45"	23°29'58.46"		3522.10	55°02'22"LT	
					345.58			
AP8	719133	2600770	83°8'45.41"	23°30'8.5"		3867.69	20°27'11"RT	
					619.14			
AP9	719413	2601259	83°8'55.54"	23°30'24.26"		4486.82	20°50'09"LT	
					494.76			Godkatwa River
AP10	719483	2601703	83°8'58.24"	23°30'38.65"		4981.59	26°49'34"RT	
					1360.26			
AP11	720206	2602706	83°9'24.25"	23°31'10.89"		6341.85	30°17'09"RT	
					759.00			
AP12	720837	2602986	83°9'46.63"	23°31'19.68"		7100.84	30°26'29"LT	
					477.92			

AP13	721090	2603339	83°9'55.73"	23°31'31.03"		7578.76	39°51'58"LT	
AP.No.	Easting	Northing	Longitude	Latitude	Sectional Length	Comm. Length	Angle of Deviation	Crossing & Remarks
					506.75			
AP14	721056	2603798	83°9'54.78"	23°31'45.96"		8085.52	5°17'46"RT	
					951.24			
AP15	721072	2604663	83°9'55.81"	23°32'14.06"		9036.76	10°19'12"RT	
					708.06			
AP16	721199	2605294	83°10'0.62"	23°32'34.5"		9744.82	20°00'50"LT	
					812.68			
AP17	721088	2606025	83°9'57.09"	23°32'58.31"		10557.50	37°11'50"LT	
					1126.25			
AP18	720354	2606738	83°9'31.6"	23°33'21.84"		11683.74	12°33'32"RT	
					711.41			
AP19	719999	2607279	83°9'19.37"	23°33'39.59"		12395.15	35°12'24"RT	
					587.24			
AP20	720017	2607812	83°9'20.29"	23°33'56.91"		12982.39	9°56'05"LT	
					687.19			
AP21	719930	2608431	83°9'17.55"	23°34'17.06"		13669.58	16°12'28"RT	
					694.20			
AP22	720020	2609055	83°9'21.06"	23°34'37.29"		14363.77	16°28'51"RT	
					554.95			
AP23	720231	2609514	83°9'28.74"	23°34'52.11"		14918.73	18°48'10"RT	
					620.53			
AP24	720619	2609923	83°9'42.64"	23°35'5.21"		15539.26	31°48'43"LT	
					803.61			
AP25	720767	2610639	83°9'48.24"	23°35'28.4"		16342.87	13°24'43"RT	
					516.70			
AP26	720966	2611064	83°9'55.48"	23°35'42.11"		16859.57	13°11'37"RT	
					445.61			
AP27	721217	2611382	83°10'4.5"	23°35'52.32"		17305.18	17°02'57"LT	
					847.62			

AP28	721496	2612100	83°10'14.72"	23°36'15.52"		18152.80	31°13'30"RT	
AP.No.	Easting	Northing	Longitude	Latitude	Sectional Length	Comm. Length	Angle of Deviation	Crossing & Remarks
					1071.85			
AP29	722269	2612694	83°10'42.3"	23°36'34.44"		19224.65	19°25'25"RT	
					1002.00			
AP30	723134	2612977	83°11'12.95"	23°36'43.2"		20226.65	27°04'53"LT	
					1126.12			
AP31	723856	2613704	83°11'38.81"	23°37'6.47"		21352.77	30°20'03"LT	
					920.91			
AP32	724065	2614514	83°11'46.62"	23°37'32.68"		22273.68	13°47'39"LT	
					280.24			
AP33	724068	2614769	83°11'46.86"	23°37'40.97"		22553.93	19°33'35"RT	
					709.27			
AP34	724291	2615374	83°11'55.05"	23°38'0.51"		23263.19	11°19'38"RT	
					706.15			
AP35	724627	2615921	83°12'7.2"	23°38'18.12"		23969.34	23°17'24"RT	
					1018.40			
AP36	725384	2616454	83°12'34.19"	23°38'35.06"		24987.74	48°07'03"LT	
					1097.67			
AP37	725501	2617445	83°12'38.86"	23°39'7.2"		26085.41	12°21'12"LT	
					2426.16			
AP38	725285	2619640	83°12'32.44"	23°40'18.63"		28511.58	44°37'39"RT	
					283.12			
AP39	725447	2619840	83°12'38.26"	23°40'25.05"		28794.69	29°08'36"RT	
					245.32			
AP40	725654	2619923	83°12'45.61"	23°40'27.64"		29040.02	41°35'09"LT	
					305.00			
AP41	725778	2620171	83°12'50.12"	23°40'35.64"		29345.02	50°22'34"LT	
					337.86			
AP42	725654	2620452	83°12'45.9"	23°40'44.83"		29682.87	30°58'48"LT	
					356.77			

AP43	725389	2620639	83°12'36.65"	23°40'51.04"		30039.64	31°27'14"LT	
AP.No.	Easting	Northing	Longitude	Latitude	Sectional Length	Comm. Length	Angle of Deviation	Crossing & Remarks
					285.51			
AP44	725130	2620656	83°12'27.53"	23°40'51.72"		30325.16	8°14'24"LT	
					112.63			
AP45	725028	2620648	83°12'23.92"	23°40'51.51"		30437.78	0°00'00"	Proposed 132/33 KV S/S Wadrafnagar

ROUTE-III

AP.No.	Easting	Northing	Longitude	Latitude	Sectional Length	Comm. Length	Angle of Deviation	Crossing & Remarks
31/0	717383	2597892	83°7'42.25"	23°28'35.83"			0°00'00"	Existing Loc. No. 31/0 of 132KV Vishrampur - Pratappur Line
					35.65			
AP1	717370	2597921	83°7'41.81"	23°28'36.78"		35.65	37°09'52"RT	
					460.51			
AP2	717481	2598325	83°7'45.93"	23°28'49.85"		496.16	40°17'07"RT	
					475.81			
AP3	717838	2598569	83°7'58.63"	23°28'57.61"		971.97	23°56'31"RT	
					700.48			
AP4	718464	2598684	83°8'20.75"	23°29'1.04"		1672.46	38°05'38"LT	
					687.22			
AP5	718878	2599152	83°8'35.58"	23°29'16.05"		2359.68	14°58'25"LT	
					670.07			
AP6	719150	2599697	83°8'45.45"	23°29'33.63"		3029.75	11°32'45"RT	
					1881.98			Godkatwa River
AP7	720205	2601044	83°9'23.33"	23°30'16.89"		4911.74	25°56'55"LT	
					1036.93			
AP8	720403	2601966	83°9'30.8"	23°30'46.75"		5948.67	29°40'19"RT	
					1584.44			
AP9	721363	2603040	83°10'5.2"	23°31'21.18"		7533.11	22°41'55"LT	
					2119.24			
AP10	721993	2604860	83°10'28.37"	23°32'20.01"		9652.35	19°17'01"LT	
					1325.94			
AP11	721989	2606066	83°10'28.87"	23°32'59.2"		10978.30	41°14'15"LT	
					1474.08			
AP12	721103	2607070	83°9'58.18"	23°33'32.26"		12452.37	10°26'40"RT	
					561.69			
AP13	720840	2607508	83°9'49.14"	23°33'46.62"		13014.06	11°39'44"RT	
					674.82			

AP.No.	Easting	Northing	Longitude	Latitude	Sectional Length	Comm. Length	Angle of Deviation	Crossing & Remarks
AP14	720637	2608087	83°9'42.29"	23°34'5.54"		13688.88	22°12'14"RT	
					764.79			
AP15	720672	2608782	83°9'43.9"	23°34'28.1"		14453.67	30°57'38"RT	
					683.39			
AP16	721018	2609298	83°9'56.37"	23°34'44.7"		15137.06	38°57'18"RT	
					468.70			
AP17	721425	2609424	83°10'10.79"	23°34'48.6"		15605.76	45°50'27"LT	
					358.84			
AP18	721573	2609715	83°10'16.16"	23°34'57.98"		15964.60	33°40'02"LT	
					960.53			
AP19	721471	2610582	83°10'13.03"	23°35'26.2"		16925.13	24°24'37"RT	
					433.76			
AP20	721591	2610958	83°10'17.46"	23°35'38.36"		17358.90	4°40'47"RT	
					727.76			
AP21	721843	2611570	83°10'26.67"	23°35'58.12"		18086.66	18°57'16"LT	
					313.83			
AP22	721860	2611854	83°10'27.42"	23°36'7.34"		18400.49	22°37'52"RT	
					388.06			
AP23	722015	2612171	83°10'33.06"	23°36'17.57"		18788.55	29°22'09"RT	
					592.35			
AP24	722459	2612477	83°10'48.88"	23°36'27.29"		19380.90	35°28'14"RT	
					774.10			
AP25	723162	2612466	83°11'13.66"	23°36'26.58"		20155.00	22°35'20"LT	
					1180.76			
AP26	724160	2612863	83°11'49.07"	23°36'38.99"		21335.75	23°23'28"LT	
					1599.89			
AP27	725187	2613893	83°12'25.85"	23°37'11.94"		22935.64	25°54'29"LT	
					1425.20			
AP28	725609	2615118	83°12'41.4"	23°37'51.53"		24360.85	25°43'11"RT	
					982.57			

AP.No.	Easting	Northing	Longitude	Latitude	Sectional Length	Comm. Length	Angle of Deviation	Crossing & Remarks
AP29	726238	2615753	83°13'3.93"	23°38'11.85"		25343.42	26°08'52"RT	
					896.93			
AP30	727008	2616020	83°13'31.23"	23°38'20.14"		26240.35	13°38'18"LT	
					697.79			
AP31	727541	2616363	83°13'50.22"	23°38'31.01"		26938.14	41°42'49"LT	
					492.18			
AP32	727661	2616795	83°13'54.69"	23°38'44.99"		27430.31	10°40'38"RT	
					698.29			
AP33	727941	2617364	83°14'4.88"	23°39'3.33"		28128.61	24°30'03"LT	
					704.28			
AP34	727960	2618004	83°14'5.91"	23°39'24.12"		28832.89	29°25'43"LT	
					387.09			
AP35	727796	2618316	83°14'0.29"	23°39'34.34"		29219.98	27°06'44"RT	
					613.66			
AP36	727790	2618874	83°14'0.39"	23°39'52.48"		29833.64	12°11'50"LT	
					312.47			
AP37	727727	2619151	83°13'58.32"	23°40'1.51"		30146.11	55°31'45"LT	
					977.15			
AP38	726901	2619479	83°13'29.36"	23°40'12.58"		31123.26	30°10'12"RT	
					707.51			
AP39	726504	2619984	83°13'15.63"	23°40'29.19"		31830.77	25°18'13"LT	
					686.73			
AP40	725945	2620263	83°12'56.06"	23°40'38.54"		32517.50	23°57'38"RT	
					666.60			
AP41	725559	2620731	83°12'42.7"	23°40'53.94"		33184.10	48°36'46"LT	
					337.41			
AP42	725253	2620741	83°12'31.91"	23°40'54.42"		33521.51	24°19'43"LT	
					267.74			
AP43	725028	2620648	83°12'23.92"	23°40'51.51"		33789.25	0°00'00"	Proposed 132/33 KV S/S Wadrafnagar

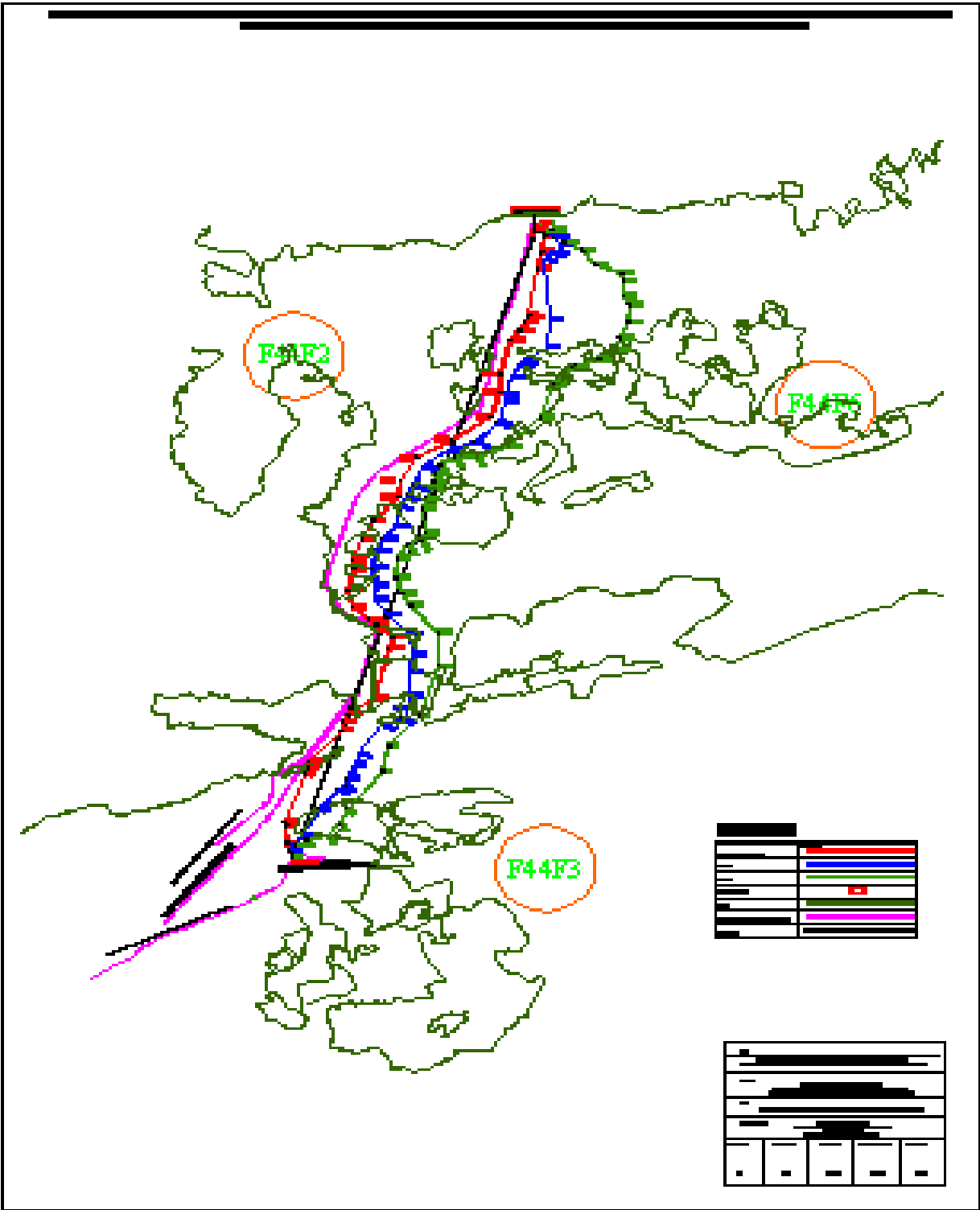
4.0 COMPARATIVE STATEMENT FOR ALTERNATIVE ROUTES

**LILO of 132kV Vishrampur-Pratappur Line from 31/0(T.No. 157) to Proposed
132/33kV S/S at Wadraf Nagar**

Description	Alternative 1 (Proposed)	Alternative 2	Alternative 3
<i>Color in MAP</i>	<i>RED</i>	<i>BLUE</i>	<i>GREEN</i>
<i>Route Length</i>	<i>27.407 Km</i>	<i>30.437 Km</i>	<i>33.789 Km</i>
<i>BEE Line Length</i>	<i>24.0 Km</i>		
<i>No. of Angle Points</i>	<i>46 Nos</i>	<i>45 Nos</i>	<i>43 Nos</i>
<i>Reserved Forest Area</i>	<i>7.080 Km</i>	<i>12.256 Km</i>	<i>15.051 Km</i>
<i>Density of trees other than forest</i>	<i>High</i>	<i>Very High</i>	<i>Very High</i>
<i>Tree Compensation</i>	<i>High</i>	<i>High</i>	<i>Very High</i>
<i>Wild Life Sanctuaries / National Parks</i>	<i>NIL</i>	<i>NIL</i>	<i>NIL</i>
<i>River Crossing (Major)</i>	<i>1Nos Godkatwa River (AP8 –AP9)</i>	<i>1Nos Godkatwa River (AP9 –AP10)</i>	<i>1Nos Godkatwa River (AP6 –AP7)</i>
<i>National Highway</i>	<i>NIL</i>	<i>NIL</i>	<i>NIL</i>
<i>State Highway</i>	<i>2Nos SH- 3 (Ambikapur-Wadraf Nagar) AP2 to AP3 SH- 3 (Ambikapur-Banaras) AP11 to AP12</i>	<i>NIL</i>	<i>NIL</i>

Railway Crossing	NIL	NIL	NIL
Major Power Line Crossings (132 KV and Above)	NIL	NIL	NIL
Maximum level of Tower location	631 m	637 m	706m
Minimum level of Tower location	443 m	443 m	443 m
Places of Archeological Importance	NIL	NIL	NIL
Hills / Mountain Ranges	Plain with Undulated Hilly Terrain	Plain with Undulated Hilly Terrain	Plain /Hilly Terrain
Places of historical / cultural / religious / tourist importance	NIL	NIL	NIL
Restricted Area/Defence Installations	NIL	NIL	NIL
Near source of material /Labour	Ambikapur , Surajpur & Balrampur	Ambikapur , Surajpur & Balrampur	Ambikapur , Surajpur & Balrampur
Accessibility of site for construction O & M purpose	Mostly assessable easily from nearest link road site & SH	Only few location are easily assessable from nearest SH	Only few location are easily assessable from nearest Link Roads
Crossing of communication Line	NIL	NIL	NIL
	PROPOSED ROUTE BEST ALTERNATIVE		

5.0 Arrangement of Three Alternative Routes on Toposheet
(1:50,000)



7.0 DGPS Coordinate of Forest Land (PF & RF)

A) Coordinates in comes in RF & PF

DGPS Coordinates		
P. Code	Logitude	Latitude
PF-110		
13	83°8'0.8891"	23°30'22.825"
14	83°8'1.8779"	23°30'22.945"
15	83°8'1.0143"	23°30'25.3458"
16	83°8'1.9755"	23°30'25.6355"
PF-112		
21	83°8'56.8121"	23°31'31.1501"
22	83°8'56.0705"	23°31'29.6747"
23	83°9'15.7069"	23°31'42.6739"
24	83°9'16.5334"	23°31'42.1259"
PF-113		
23	83°9'15.7069"	23°31'42.6739"
24	83°9'16.5334"	23°31'42.1259"
25	83°9'28.464"	23°32'26.7953"
26	83°9'29.3649"	23°32'26.5052"
PF120		
31	83°9'20.7398"	23°33'7.2664"
32	83°9'22.1642"	23°33'7.2662"
33	83°9'18.1963"	23°33'9.374"
34	83°9'18.8682"	23°33'9.9972"
RF-132		
33	83°9'18.1963"	23°33'9.374"
34	83°9'18.8682"	23°33'9.9972"
35	83°9'10.3057"	23°33'15.248"
36	83°9'10.9941"	23°33'15.8638"
37	83°9'6.4929"	23°33'18.0092"
38	83°9'7.1485"	23°33'18.6502"
39	83°8'51.7706"	23°33'29.4814"
40	83°8'52.6048"	23°33'29.9805"
41	83°8'39.8733"	23°33'41.4811"
42	83°8'40.7398"	23°33'41.908"
43	83°8'39.4975"	23°33'42.894"
44	83°8'40.2899"	23°33'43.5991"
PF-131		
91	83°8'49.1246"	23°34'46.7905"
92	83°8'48.2284"	23°34'44.1153"
93	83°8'52.12"	23°34'50.6718"
94	83°8'53.9321"	23°34'51.5058"

B) DGPS Coordinate of Forest including Revenue Forest Land

DGPS Coordinates					
P. Code	Logitude	Latitude	P. Code	Logitude	Latitude
1	83°7'41.3574"	23°28'36.6503"	85	83°8'45.6654"	23°34'34.3723"
2	83°7'41.778"	23°28'38.0672"	86	83°8'46.5174"	23°34'34.7691"
3	83°7'40.7789"	23°28'38.0145"	87	83°8'45.263"	23°34'36.5179"
4	83°7'41.1075"	23°28'39.6504"	88	83°8'46.2432"	23°34'36.6857"
5	83°7'36.566"	23°28'54.3362"	89	83°8'45.4492"	23°34'37.9711"
6	83°7'37.5383"	23°28'53.9238"	90	83°8'46.37"	23°34'37.6743"
7	83°7'36.5046"	23°28'55.89"	91	83°8'49.1246"	23°34'46.7905"
8	83°7'37.4233"	23°28'56.0059"	92	83°8'48.2284"	23°34'44.1153"
9	83°7'59.8772"	23°30'19.517"	93	83°8'52.12"	23°34'50.6718"
10	83°8'0.4388"	23°30'18.6509"	94	83°8'53.9321"	23°34'51.5058"
11	83°8'0.5906"	23°30'20.7693"	95	83°8'59.3205"	23°35'6.5549"
12	83°8'1.4804"	23°30'20.3271"	96	83°8'59.0859"	23°35'6.6352"
13	83°8'0.8891"	23°30'22.825"	97	83°9'0.876"	23°35'10.7437"
14	83°8'1.8779"	23°30'22.945"	98	83°9'1.2952"	23°35'10.7373"
15	83°8'1.0143"	23°30'25.3458"	99	83°9'1.7759"	23°35'11.4369"
16	83°8'1.9755"	23°30'25.6355"	100	83°9'1.0332"	23°35'11.9958"
17	83°8'35.6145"	23°31'2.0887"	101	83°9'1.6075"	23°35'12.8313"
18	83°8'36.3294"	23°31'1.5072"	102	83°9'2.3405"	23°35'12.2585"
19	83°8'38.1148"	23°31'4.4111"	103	83°9'4.198"	23°35'14.9613"
20	83°8'39.0702"	23°31'4.053"	104	83°9'5.2367"	23°35'17.435"
21	83°8'56.8121"	23°31'31.1501"	105	83°9'5.6606"	23°35'17.0898"
22	83°8'56.0705"	23°31'29.6747"	106	83°9'7.2398"	23°35'17.5655"
23	83°9'15.7069"	23°31'42.6739"	107	83°9'8.2675"	23°35'18.7984"
24	83°9'16.5334"	23°31'42.1259"	108	83°9'9.0061"	23°35'18.3526"
25	83°9'28.464"	23°32'26.7953"	109	83°9'10.7849"	23°35'19.5621"
26	83°9'29.3649"	23°32'26.5052"	110	83°9'11.3987"	23°35'18.923"
27	83°9'28.7739"	23°33'0.6097"	111	83°9'11.6039"	23°35'19.8475"
28	83°9'29.7505"	23°33'0.9773"	112	83°9'13.0488"	23°35'20.2386"
29	83°9'24.2664"	23°33'4.3443"	113	83°9'13.2317"	23°35'19.4336"
30	83°9'23.4502"	23°33'6.2005"	114	83°9'15.1946"	23°35'21.8092"
31	83°9'20.7398"	23°33'7.2664"	115	83°9'15.9619"	23°35'21.2877"
32	83°9'22.1642"	23°33'7.2662"	116	83°9'15.6357"	23°35'22.3001"
33	83°9'18.1963"	23°33'9.374"	117	83°9'16.4964"	23°35'21.8822"
34	83°9'18.8682"	23°33'9.9972"	118	83°9'16.8426"	23°35'23.6429"
35	83°9'10.3057"	23°33'15.248"	119	83°9'17.1215"	23°35'23.5308"
36	83°9'10.9941"	23°33'15.8638"	120	83°9'17.5248"	23°35'24.3849"
37	83°9'6.4929"	23°33'18.0092"	121	83°9'19.6389"	23°35'26.7542"
38	83°9'7.1485"	23°33'18.6502"	122	83°9'20.0239"	23°35'26.3166"
39	83°8'51.7706"	23°33'29.4814"	123	83°9'20.8599"	23°35'26.8419"
40	83°8'52.6048"	23°33'29.9805"	124	83°9'20.3002"	23°35'27.4903"
41	83°8'39.8733"	23°33'41.4811"	125	83°9'21.3555"	23°35'28.6646"
42	83°8'40.7398"	23°33'41.908"	126	83°9'22.1551"	23°35'29.078"
43	83°8'39.4975"	23°33'42.894"	127	83°9'22.0197"	23°35'29.4036"
44	83°8'40.2899"	23°33'43.5991"	128	83°9'22.5722"	23°35'28.6425"
45	83°8'39.298"	23°33'45.4849"	129	83°9'23.0762"	23°35'30.518"
46	83°8'39.8121"	23°33'45.355"	130	83°9'23.4526"	23°35'29.6222"

47	83°8'39.1521"	23°33'46.0327"	131	83°9'24.5787"	23°35'32.2506"
48	83°8'39.5841"	23°33'46.2519"	132	83°9'25.3119"	23°35'31.6912"
49	83°8'39.3807"	23°33'59.7598"	133	83°9'25.2472"	23°35'32.9947"
50	83°8'39.844"	23°33'59.6286"	134	83°9'31.6044"	23°35'35.5342"
51	83°8'39.4431"	23°34'0.2819"	135	83°9'31.7471"	23°35'35.9612"
52	83°8'39.9134"	23°34'0.2124"	136	83°9'33.8677"	23°35'36.4979"
53	83°8'40.1097"	23°34'1.8598"	137	83°9'33.6588"	23°35'37.3755"
54	83°8'39.8692"	23°34'2.9208"	138	83°9'40.3808"	23°35'40.238"
55	83°8'40.2873"	23°34'3.3499"	139	83°9'40.5257"	23°35'39.3331"
56	83°8'40.4869"	23°34'5.022"	140	83°9'43.3393"	23°35'40.553"
57	83°8'40.1905"	23°34'5.093"	141	83°9'42.9489"	23°35'41.3314"
58	83°8'40.0865"	23°34'5.6792"	142	83°9'46.3353"	23°35'43.1342"
59	83°8'40.5678"	23°34'5.7008"	143	83°9'46.992"	23°35'42.0863"
60	83°8'40.1298"	23°34'6.0439"	144	83°9'46.7941"	23°35'47.7324"
61	83°8'40.6237"	23°34'6.1704"	145	83°9'47.833"	23°35'47.9861"
62	83°8'39.875"	23°34'7.9238"	146	83°9'47.7026"	23°35'57.2104"
63	83°8'40.8016"	23°34'7.6611"	147	83°9'48.7317"	23°35'56.8024"
64	83°8'40.0436"	23°34'9.3347"	148	83°9'48.0874"	23°36'0.503"
65	83°8'40.9041"	23°34'8.522"	149	83°9'49.0128"	23°36'0.1969"
66	83°8'40.1872"	23°34'9.4956"	150	83°9'48.3771"	23°36'0.8971"
67	83°8'42.036"	23°34'11.5603"	151	83°9'49.2967"	23°36'0.583"
68	83°8'42.7583"	23°34'11.6777"	152	83°10'11.1982"	23°36'28.9823"
69	83°8'43.2897"	23°34'12.6328"	153	83°10'11.0031"	23°36'27.8842"
70	83°8'44.0146"	23°34'12.3917"	154	83°10'20.6998"	23°36'33.7897"
71	83°8'43.576"	23°34'13.2802"	155	83°10'22.5323"	23°36'33.6958"
72	83°8'44.641"	23°34'13.0912"	156	83°11'38.7562"	23°37'36.0399"
73	83°8'47.0845"	23°34'17.2045"	157	83°11'39.5039"	23°37'35.3312"
74	83°8'47.3481"	23°34'18.1096"	158	83°11'39.6545"	23°37'38.5223"
75	83°8'47.5001"	23°34'18.5625"	159	83°11'40.4251"	23°37'37.878"
76	83°8'48.4583"	23°34'18.5948"	160	83°11'42.6489"	23°38'7.6182"
77	83°8'48.0191"	23°34'20.6033"	161	83°11'43.5054"	23°38'7.1319"
78	83°8'48.5082"	23°34'20.6028"	162	83°11'44.8028"	23°38'15.3916"
79	83°8'48.5998"	23°34'22.7652"	163	83°11'45.8294"	23°38'15.1561"
80	83°8'49.5801"	23°34'22.7633"			
81	83°8'49.0183"	23°34'24.3198"			
82	83°8'50.0092"	23°34'24.4303"			
83	83°8'45.9128"	23°34'33.8209"			
84	83°8'46.7951"	23°34'34.1507"			

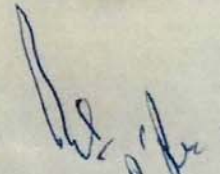
New Village Wise Breakup

Sl.No.	Village Name	Forest Land (Ha)		Total R.F & P.F	Revenue Forest in (Ha)	Total R.F & P.F & Revenue
		Protected	Reserved			
1	Sarhari	0.00	0.00	0.000	0.00	0.000
2	Pondi	0.00	0.00	0.000	0.28	0.280
3	Darhora	0.238	0.00	0.238	0.890	1.128
4	Devri	0.789	0.00	0.789	0.00	0.789
5	Ghatpendari	5.569	0.00	5.569	0.800	6.369
6	Nawadhaki	0.854	4.097	4.951	1.700	6.651
7	Bheriya	0.00	0.00	0.000	1.400	1.400
8	Pahar Karwa	0.00	0.00	0.000	1.600	1.600
9	Dand Karwa	0.00	0.00	0.000	0.94	0.940
10	Rampur	0.00	0.00	0.000	0.24	0.240
11	Chachidand	0.00	0.00	0.000	0.51	0.510
12	Goverdhanpur	0.00	0.00	0.000	0.00	0.000
13	Sonadiha	0.00	0.00	0.000	0.00	0.000
14	Parasdiha	0.00	0.00	0.000	0.00	0.000
15	Jamai	0.00	0.00	0.000	0.00	0.000
Total		7.450	4.097	11.547	8.360	19.907


वनरक्षक
बीट घाटपेण्डारी


परिक्षेत्र सहायक
घाटपेण्डारी


व. (उ.दा.) व


R.O.P.B.