

CLIENT :-POWER GRID CORPORATION OF INDIA LIMITED													
CONTRACTOR:- KEC INTERNATIONAL LIMITED													
132 KV SC ON D/C TOWER TAWANG-LUMLA TRANSMISSION LINE													
DETAILS OF ANGLE,SECTION LENGTH,MAJOR CROSSING													
APPROX TOWER QTY. OF ROUTE -2													
SL.NO	AP.NO.	ANGLE OF DEVIATION		TYPE OF TOWER	SPAN IN MTR.		CUMULATIVE DISTANCE	DETAILS OF MAJOR CROSSING	UTM CO-ORDINATES		DMS CO-ORDINATES		VILLAGE NAME/REMARKS
					HOR.	SEC. LENGTH			EASTING (X)	NORTHING (Y)	LATITUDE	LONGITUDE	
1	GANTRY								389328	3053896	27°36'16.28"	91°52'42.62"	Vill-Changbu
					56								
2	AP1	41°30'46"	LT	DD		56	56		389363	3053853	27°36'14.88"	91°52'43.92"	Vill-Changbu
					73								
3	AP2	16°52'9"	LT	DC		73	129		389435	3053841	27°36'14.51"	91°52'46.55"	Vill-Changbu
					101								
4	AP3	3°20'18"	RT	DB		101	230		389535	3053854	27°36'14.96"	91°52'50.19"	Vill-Changbu
					70								
5	AP4	40°3'20"	RT	DD		70	300		389605	3053859	27°36'15.14"	91°52'52.74"	Vill-Changbu
					87								
6	AP5	48°12'5"	LT	DD		87	387		389675	3053808	27°36'13.51"	91°52'55.31"	Vill-Khinmey
					435			Nala					
7	AP6	37°0'15"	RT	DD		435	822		390100	3053900	27°36'16.62"	91°53'10.78"	Vill-Khinmey
					274								
8	AP7	13°27'53"	RT	DB		274	1096		390349	3053785	27°36'12.96"	91°53'19.9"	Vill-Khinmey
					199								
9	AP8	16°26'4"	RT	DC		199	1295		390505	3053662	27°36'9.01"	91°53'25.63"	Vill-Khinmey
					176								
10	AP9	48°24'2"	LT	DD		176	1471		390607	3053518	27°36'4.36"	91°53'29.4"	Vill-Bomdir
					365			Nala					
11	AP10	39°40'58"	RT	DD		365	1836		390970	3053478	27°36'3.16"	91°53'42.65"	Vill-Bomdir
					292								
12	AP11	10°16'50"	RT	DB		292	2128		391173	3053268	27°35'56.4"	91°53'50.13"	Vill-Bomdir
					272								
13	AP12	3°16'59"	RT	DB		272	2400		391324	3053042	27°35'49.1"	91°53'55.71"	Vill-Bomdir
					138								
14	AP13	6°5'44"	RT	DB		138	2538		391394	3052923	27°35'45.25"	91°53'58.3"	Vill-Bomdir
					128								
15	AP14	34°4'14"	RT	DD		128	2666		391447	3052806	27°35'41.47"	91°54'0.27"	Vill-Bomdir
					119								
16	AP15	23°28'19"	LT	DC		119	2785		391427	3052689	27°35'37.66"	91°53'59.58"	Vill-Bomdir

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					HOR.	SEC. LENGTH			EASTING (X)	NORTHING (Y)	LATITUDE	LONGITUDE	
					210								
17	AP16	22°0'44"	RT	DC		210	2995		391477	3052485	27°35'31.04"	91°54'1.47"	Vill-Bomdir
					147			Road,11KV					
18	AP17	13°23'47"	LT	DB		147	3142		391456	3052340	27°35'26.33"	91°54'0.75"	Vill-Bomdir
					134								
19	AP18	17°55'37"	RT	DC		134	3276		391468	3052207	27°35'22.01"	91°54'1.23"	Vill-Bomdir
					308								
20	AP19	0°14'33"	LT	DB		308	3584		391400	3051907	27°35'12.24"	91°53'58.85"	Vill-Khrimu
					138								
21	AP20	13°38'15"	LT	DB		138	3722		391370	3051772	27°35'7.84"	91°53'57.8"	Vill-Khrimu
					155								
22	AP21	26°34'58"	LT	DC		155	3877		391373	3051617	27°35'2.81"	91°53'57.96"	Vill-Khrimu
					159								
23	AP22	13°27'56"	RT	DB		159	4036		391447	3051476	27°34'58.25"	91°54'0.7"	Vill-Khrimu
					293			Water Pipe Line,11KV Line					
24	AP23	21°8'31"	LT	DC		293	4329		391519	3051192	27°34'49.04"	91°54'3.42"	Vill-Khrimu
					275								
25	AP24	1°12'4"	RT	DB		275	4604		391678	3050968	27°34'41.81"	91°54'9.29"	Vill-Khrimu
					233								
26	AP25	33°54'52"	RT	DD		233	4837		391809	3050775	27°34'35.57"	91°54'14.13"	Vill-Khrimu
					227			11KV Line					
27	AP26	24°17'7"	LT	DC		227	5064		391810	3050548	27°34'28.2"	91°54'14.24"	Vill-Khrimu
					101								
28	AP27	43°30'29"	RT	DD		101	5165		391852	3050456	27°34'25.22"	91°54'15.8"	Vill-Khrimu
					203			7Nos Cart Track					
29	AP28	47°37'47"	LT	DD		203	5368		391786	3050264	27°34'18.96"	91°54'13.46"	Vill-Khrimu
					281								
30	AP29	24°37'17"	RT	DC		281	5649		391921	3050017	27°34'10.98"	91°54'18.46"	Vill-Khrimu
					85			11KV Line,Cart Track					
31	AP30	29°16'14"	RT	DC		85	5734		391927	3049932	27°34'8.22"	91°54'18.7"	Vill-Krgyang

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					HOR.	SEC. LENGTH			EASTING (X)	NORTHING (Y)	LATITUDE	LONGITUDE	
					289			11KV Line					
32	AP31	10°12'18"	RT	DB		289	6023		391804	3049671	27°33'59.7"	91°54'14.3"	Vill-Krgyang
					200								
33	AP32	30°9'33"	LT	DD		200	6223		391688	3049508	27°33'54.37"	91°54'10.13"	Vill-Krgyang
					185								
34	AP33	29°17'24"	RT	DC		185	6408		391671	3049324	27°33'48.38"	91°54'9.57"	Vill-Krgyang
					344								
35	AP34	12°22'8"	LT	DB		344	6752		391476	3049041	27°33'39.13"	91°54'2.55"	Vill-Kraleng
					294								
36	AP35	31°7'33"	RT	DD		294	7046		391365	3048769	27°33'30.26"	91°53'58.59"	Vill-Kraleng
					293								
37	AP36	8°7'7"	RT	DB		293	7339		391130	3048594	27°33'24.51"	91°53'50.08"	Vill-Kraleng
					167								
38	AP37	2°39'45"	LT	DB		167	7506		390983	3048514	27°33'21.87"	91°53'44.74"	Vill-Kraleng
					77								
39	AP38	19°33'47"	RT	DC		77	7583		390917	3048474	27°33'20.55"	91°53'42.35"	Vill-Kraleng
					228			Nala					
40	AP39	25°15'33"	LT	DC		228	7811		390694	3048428	27°33'18.99"	91°53'34.24"	Vill-Kraleng
					256								
41	AP40	23°3'47"	RT	DC		256	8067		390489	3048274	27°33'13.92"	91°53'26.81"	Vill-Shorbey
					75								
42	AP41	3°10'9"	LT	DB		75	8142		390416	3048256	27°33'13.32"	91°53'24.16"	Vill-Shorbey
					154								
43	AP42	5°0'57"	RT	DB		154	8296		390269	3048211	27°33'11.81"	91°53'18.81"	Vill-Shorbey
					178								
44	AP43	0°16'47"	RT	DB		178	8474		390095	3048174	27°33'10.56"	91°53'12.48"	Vill-Shorbey
					162								
45	AP44	18°50'9"	LT	DC		162	8636		389936	3048141	27°33'9.44"	91°53'6.69"	Vill-Shorbey
					122								
46	AP45	13°2'7"	RT	DB		122	8758		389831	3048079	27°33'7.4"	91°53'2.89"	Vill-Tiley
					80								

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					HOR.	SEC. LENGTH			EASTING (X)	NORTHING (Y)	LATITUDE	LONGITUDE	
47	AP46	23°10'48"	RT	DC		80	8838		389755	3048055	27°33'6.59"	91°53'0.12"	Vill-Tiley
					203								
48	AP47	18°1'42"	LT	DC		203	9041		389553	3048075	27°33'7.18"	91°52'52.75"	Vill-Tiley
					201								
49	AP48	1°31'11"	RT	DB		201	9242		389357	3048032	27°33'5.73"	91°52'45.62"	Vill-Tiley
					345			Cart Track					
50	AP49	1°31'11"	LT	DB		345	9587		389018	3047967	27°33'3.52"	91°52'33.28"	Vill-Thunbey
					239								
51	AP50	25°44'10"	LT	DC		239	9826		388788	3047902	27°33'1.34"	91°52'24.92"	Vill-Thunbey
					163								
52	AP51	18°55'58"	RT	DC		163	9989		388666	3047794	27°32'57.79"	91°52'20.51"	Vill-Thunbey
					245								
53	AP52	27°36'19"	RT	DC		245	10234		388440	3047700	27°32'54.67"	91°52'12.3"	Vill-Thunbey
					240								
54	AP53	15°49'59"	RT	DC		240	10474		388201	3047721	27°32'55.28"	91°52'3.58"	Vill-Thunbey
					112								
55	AP54	3°55'14"	RT	DB		112	10586		388096	3047761	27°32'56.55"	91°51'59.74"	Vill-Thunbey
					115								
56	AP55	2°2'49"	RT	DB		115	10701		387992	3047809	27°32'58.08"	91°51'55.93"	Vill-Thunbey
					199								
57	AP56	12°15'22"	LT	DB		199	10900		387814	3047899	27°33'0.95"	91°51'49.41"	Vill-Thunbey
					131								
58	AP57	29°30'44"	LT	DC		131	11031		387687	3047932	27°33'1.98"	91°51'44.77"	Vill-Yusume
					244								
59	AP58	10°55'11"	LT	DB		244	11275		387451	3047869	27°32'59.87"	91°51'36.19"	Vill-Yusume
					293			Water Pipe Line					
60	AP59	8°23'30"	RT	DB		293	11568		387187	3047741	27°32'55.63"	91°51'26.61"	Vill-Yusume
					113								
61	AP60	29°38'31"	LT	DC		113	11681		387079	3047707	27°32'54.49"	91°51'22.68"	Vill-Khet
					689			Grangma Tsee River(Tawang Chu)					Ap-60 & Ap-61 Spl.Tower

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					HOR.	SEC. LENGTH			EASTING (X)	NORTHING (Y)	LATITUDE	LONGITUDE	
62	AP61	22°49'19"	RT	DC		689	12370		386610	3047202	27°32'37.94"	91°51'5.75"	Vill-Khet
					350								
63	AP62	19°43'37"	RT	DC		350	12720		386291	3047058	27°32'33.17"	91°50'54.17"	Vill-Khet
					753								Ap-62 & Ap-63 Spl.Tower
64	AP63	13°48'36"	RT	DB		753	13473		385540	3046998	27°32'30.99"	91°50'26.82"	Vill-Khet
					342								
65	AP64	10°26'49"	LT	DB		342	13815		385202	3047053	27°32'32.67"	91°50'14.48"	Vill-Khet
					428								
66	AP65	13°1'18"	RT	DB		428	14243		384774	3047044	27°32'32.25"	91°49'58.88"	Vill-Khet
					288								
67	AP66	31°9'14"	LT	DD		288	14531		384492	3047103	27°32'34.08"	91°49'48.58"	Vill-Khet
					462								
68	AP67	24°17'18"	LT	DC		462	14993		384056	3046950	27°32'28.97"	91°49'32.74"	Vill-Khet
					177								
69	AP68	26°4'7"	RT	DC		177	15170		383928	3046828	27°32'24.97"	91°49'28.11"	Vill-Khet
					371								
70	AP69	9°52'5"	RT	DB		371	15541		383574	3046716	27°32'21.22"	91°49'15.25"	Vill-Khet
					202								
71	AP70	43°40'57"	RT	DD		202	15743		383374	3046689	27°32'20.28"	91°49'7.97"	Vill-Wungla
					759			Grangma Tsee River(Tawang Chu)					Ap-70 & Ap-71 Spl.Tower
72	AP71	28°0'50"	LT	DC		759	16502		382760	3047135	27°32'34.58"	91°48'45.43"	Vill-Wungla
					324								
73	AP72	2°3'5"	RT	DB		324	16826		382439	3047180	27°32'35.95"	91°48'33.71"	Vill-Wungla
					281								
74	AP73	10°38'16"	LT	DB		281	17107		382162	3047229	27°32'37.45"	91°48'23.6"	Vill-Wungla
					189								
75	AP74	27°19'40"	LT	DC		189	17296		381973	3047227	27°32'37.33"	91°48'16.71"	Vill-Wungla
					243								
76	AP75	11°25'16"	RT	DB		243	17539		381758	3047113	27°32'33.56"	91°48'8.91"	Vill-Wungla

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					HOR.	SEC. LENGTH			EASTING (X)	NORTHING (Y)	LATITUDE	LONGITUDE	
					236								
77	AP76	7°52'51"	LT	DB		236	17775		381532	3047046	27°32'31.31"	91°48'0.7"	Vill-Wungla
					378								
78	AP77	11°4'39"	LT	DB		378	18153		381188	3046890	27°32'26.13"	91°47'48.21"	Vill-Wungla
					402								
79	AP78	24°57'26"	RT	DC		402	18555		380861	3046657	27°32'18.46"	91°47'36.37"	Vill-Wungla
					367								
80	AP79	14°59'39"	LT	DB		367	18922		380500	3046590	27°32'16.17"	91°47'23.24"	Vill-Wungla
					437								
81	AP80	6°34'39"	LT	DB		437	19359		380106	3046402	27°32'9.93"	91°47'8.94"	Vill-Wungla
					377								
82	AP81	19°26'41"	LT	DC		377	19736		379787	3046202	27°32'3.33"	91°46'57.39"	Vill-Wungla
					423								
83	AP82	48°12'6"	RT	DD		423	20159		379524	3045871	27°31'52.49"	91°46'47.92"	Vill-Wungla
					448								
84	AP83	18°35'2"	RT	DC		448	20607		379077	3045845	27°31'51.5"	91°46'31.64"	Vill-Wungla
					251								
85	AP84	14°17'50"	RT	DB		251	20858		378835	3045911	27°31'53.57"	91°46'22.79"	Vill-Wungla
					369								
86	AP85	21°44'13"	LT	DC		369	21227		378514	3046093	27°31'59.38"	91°46'11.03"	Vill-Wungla
					515								
87	AP86	59°18'40"	RT	DD		515	21742		378004	3046163	27°32'1.49"	91°45'52.41"	Vill-Wungla
					208								
88	AP87	17°33'59"	LT	DC		208	21950		377923	3046355	27°32'7.7"	91°45'49.39"	Vill-Wungla
					231								
89	AP88	20°15'0"	LT	DC		231	22181		377773	3046531	27°32'13.37"	91°45'43.86"	Vill-Wungla
					131								
90	AP89	48°39'31"	LT	DD		131	22312		377659	3046595	27°32'15.42"	91°45'39.68"	Vill-Wungla
					555								
91	AP90	23°16'17"	LT	DC		555	22867		377135	3046411	27°32'9.27"	91°45'20.64"	Vill-Wungla
					289								

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					HOR.	SEC. LENGTH			EASTING (X)	NORTHING (Y)	LATITUDE	LONGITUDE	
92	AP91	5°11'18"	RT	DB		289	23156		376922	3046215	27°32'2.83"	91°45'12.95"	Vill-Wungla
					102								
93	AP92	54°59'24"	RT	DD		102	23258		376841	3046153	27°32'0.79"	91°45'10.02"	Vill-Wungla
					351								
94	AP93	48°27'16"	LT	DD		351	23609		376506	3046259	27°32'4.12"	91°44'57.77"	Vill-Wungla
					290								
95	AP94	9°18'22"	RT	DB		290	23899		376257	3046110	27°31'59.2"	91°44'48.75"	Vill-Wungla
					402								
96	AP95	16°52'25"	LT	DC		402	24301		375883	3045962	27°31'54.27"	91°44'35.17"	Vill-Wungla
					137								
97	AP96	29°10'12"	RT	DC		137	24438		375776	3045877	27°31'51.47"	91°44'31.31"	Vill-Wungla
					613								Ap-96 & Ap-97 Spl.Tower
98	AP97	51°57'12"	LT	DD		613	25051		375171	3045778	27°31'48.05"	91°44'9.29"	Vill-Wungla
					480								
99	AP98	16°14'48"	RT	DC		480	25531		374940	3045357	27°31'34.3"	91°44'1.03"	Vill-New Lumla
					180								
100	AP99	48°56'10"	RT	DD		180	25711		374813	3045230	27°31'30.13"	91°43'56.45"	Vill-New Lumla
					219								
101	AP100	9°30'7"	RT	DB		219	25930		374595	3045245	27°31'30.54"	91°43'48.5"	Vill-New Lumla
					232								
102	AP101	1°13'50"	LT	DB		232	26162		374369	3045299	27°31'32.22"	91°43'40.24"	Vill-New Lumla
					213								
103	AP102	10°41'53"	RT	DB		213	26375		374161	3045344	27°31'33.61"	91°43'32.64"	Vill-New Lumla
					231								
104	AP103	17°54'18"	LT	DC		231	26606		373948	3045434	27°31'36.47"	91°43'24.84"	Vill-New Lumla
					161								
105	AP104	3°57'27"	RT	DB		161	26767		373788	3045448	27°31'36.87"	91°43'19.01"	Vill-New Lumla
					206								
106	AP105	14°9'9"	LT	DB		206	26973		373585	3045480	27°31'37.84"	91°43'11.6"	Vill-New Lumla
					177			Road					

CLIENT :-POWER GRID CORPORATION OF INDIA LIMITED													
CONTRACTOR:- KEC INTERNATIONAL LIMITED													
132 KV SC ON D/C TOWER TAWANG-LUMLA TRANSMISSION LINE													
DETAILS OF ANGLE,SECTION LENGTH,MAJOR CROSSING													
APPROX TOWER QTY. OF ROUTE -2													
SL.NO	AP.NO.	ANGLE OF DEVIATION		TYPE OF TOWER	SPAN IN MTR.		CUMULATIVE DISTANCE	DETAILS OF MAJOR CROSSING	UTM CO-ORDINATES		DMS CO-ORDINATES		VILLAGE NAME/ REMARKS
					HOR.	SEC. LENGTH			EASTING (X)	NORTHING (Y)	LATITUDE	LONGITUDE	
107	AP106	42°51'36"	RT	DD		177	27150		373409	3045464	27°31'37.26"	91°43'5.19"	Vill-Lumla
					144								
108	AP107	11°6'2"	LT	DB		144	27294		373295	3045552	27°31'40.08"	91°43'1"	Vill-Lumla
					127			Road					
109	AP108	16°39'54"	LT	DC		127	27421		373181	3045609	27°31'41.9"	91°42'56.82"	Vill-Lumla
					215			Road					
110	AP109	24°55'28"	RT	DC		215	27636		372969	3045646	27°31'43.03"	91°42'49.08"	Vill-Lumla
					112			Road					
111	AP110	58°21'58"	LT	DD		112	27748		372877	3045710	27°31'45.08"	91°42'45.71"	Vill-Lumla
					25								
112	GANTRY					25	27773		372854	3045700	27°31'44.74"	91°42'44.87"	Vill-Lumla