



L&T CONSTRUCTION, PT&D IC

OWNER: POWER GRID CORPORATION OF INDIA LTD.

PROJECT: TRANSMISSION LINE TOWER PACKAGE FOR TW26 FOR 132KV S/C LINE (ON D/C TOWER) UNDER COMPREHENSIVE SCHEME FOR STRENGTHENING OF TRANSMISSION & DISTRIBUTION SYSTEM IN NER & SIKKIM: INTRA-STATE: ARUNACHAL PRADESH

LINE: 1. 132kV S/C (on D/C tower) Along - Yingklong (Route length: 95km)

TITLE: TOWER SCHEDULE FROM AP1 TO AP200

021002-T-TL-45-TS

DATE

Prepared AY
Checked TRAMS

Rev 03

SLNo	Loc. No.	Type of Tower	RAISED CHIMNEY/BENCHING	Easting X (m)	Northing Y (m)	Elevation Z (m)	Deviation Angle (Deg)	Span (m)	Section Length (m)	Wind Span (m)	Weight Span in Mtr (Cold)			Weight Span in Mtr (Hot)			Remarks & Crossings.	
											Left	Right	Total	Left	Right	Total		
1	ALONG GANTRY	Gantry		677006.22	3112617.56	326.09				36.74								
2	DE TOWER	DD+0		677077.19	3112636.58	328.73	22° 23' 58"RT	73.48	73.48	159.23	0.00	-302.00	-302.00	0.00	-104.00	-104.00		
3	AP 1	DD+0		677320.14	3112605.06	364.39	39° 36' 21"LT	244.98	244.98	278.60	548.00	-651.00	-103.00	351.00	-328.00	23.00		
4	AP 2	DD+9		677584.30	3112771.50	444.78	42° 56' 7"LT	312.23	312.23	297.28	972.00	-514.00	458.00	649.00	-234.00	415.00	STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL	
5	AP 3	DBN+6		677656.67	3113044.40	512.38	2° 16' 41"LT	282.34	282.34	234.38	802.00	-313.00	489.00	522.00	-94.00	428.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL	
6	AP 4	DBN+0		677697.25	3113226.35	544.40	2° 14' 5"RT	186.42	186.42	181.73	501.00	-211.00	290.00	282.00	-46.00	236.00		
7	AP 5	DC+3		677742.50	3113397.50	559.56	14° 46' 9"RT	177.03	177.03	301.24	390.00	259.00	649.00	224.00	249.00	473.00	TOWER TYPE UPDATED FROM DBN TO DC AS PER MAIL REC. FROM PGCIL	
8	AP 7	DD+18		677952.50	3113767.50	534.99	29° 3' 10"LT	425.44	425.44	398.18	167.00	785.00	952.00	177.00	602.00	779.00		
9	AP 9	DD+25		677955.25	3114138.40	437.40	38° 19' 34"LT	370.91	370.91	289.44	-406.00	19.00	-387.00	-223.00	62.00	-161.00	Tentative tower Type	
10	AP 10	DD+25		677827.50	3114302.50	443.34	24° 41' 5"RT	207.96	207.96	293.23	188.00	690.00	878.00	145.00	554.00	699.00	132Kv Passlight to Along TL	
11	AP 12	DBN+6		677740.96	3114670.97	378.10	11° 12' 30"RT	378.50	378.50	336.30	-300.00	549.00	249.00	-163.00	386.00	223.00	Tentative tower Type	
12	AP 13	DD+0		677730.66	3114964.89	343.46	33° 23' 28"RT	294.09	294.09	265.79	-250.00	289.00	39.00	-87.00	208.00	121.00		



[Signature]
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Comp. T&D, Along
POWERGRID

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Chief Manager
CSST&DS, Along
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Sl.No	Loc. No.	Type of Tower	RAISED CHIMNEY/B ENCHING	Easting X (m)	Northing Y (m)	Elevation Z (m)	Deviation Angle (Deg)	Span (m)	Section Length (m)	Wind Span (m)	Weight Span in Mtr (Cold)			Weight Span in Mtr (Hot)			Remarks & Crossings.
											Left	Right	Total	Left	Right	Total	
13	AP 14	DD+0		677854.33	3115167.62	329.80	53° 41' 10"LT	237.48									11KV LINE,HUT, ROAD
								237.48		191.54	-52.00	153.00	101.00	29.00	104.00	133.00	
14	AP 15	DC+0		677799.07	3115302.33	325.87	25° 20' 44"RT	145.60									
								145.60		146.16	-8.00	323.00	315.00	40.00	176.00	216.00	
15	AP 16	DD+0		677806.86	3115448.85	313.25	44° 55' 25"RT	146.72									
								146.72		243.24	-173.00	214.00	41.00	-26.00	199.00	173.00	
16	AP 17	DD+0		678059.21	3115676.34	307.65	32° 53' 30"LT	339.76									
								339.76		314.36	127.00	368.00	495.00	142.00	275.00	417.00	
17	AP 18	DBN+3		678134.36	3115955.35	282.77	2° 5' 18"LT	288.95									MUD ROAD, HUT
								288.95		328.47	-80.00	225.00	145.00	14.00	213.00	227.00	
18	AP 19	DBN+0		678217.05	3116313.91	279.52	3° 38' 49"LT	367.98									
								367.98		350.30	143.00	-327.00	-184.00	156.00	-145.00	11.00	
19	AP 20	DC+0		678271.03	3116642.13	338.83	27° 14' 33"LT	332.62									MUD ROAD, HUT, RIVER, AGRICULTURAL LAND
								332.62		289.67	664.00	-129.00	535.00	482.00	-12.00	470.00	STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL
20	AP 21	DD+0		678195.18	3116876.89	366.12	31° 41' 47"RT	246.70									
								246.70		247.69	377.00	-464.00	-87.00	261.00	-193.00	68.00	
21	AP 22	DC+3		678254.47	3117118.39	408.89	24° 2' 21"RT	248.67									
								248.67		212.40	720.00	122.00	842.00	450.00	104.00	554.00	STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL
22	AP 23	DBN+0		678362.50	3117257.50	409.90	7° 30' 43"RT	176.13									MUD ROAD
								176.13		258.60	56.00	753.00	809.00	74.00	549.00	623.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
23	AP 24	DBN+6		678605.11	3117497.22	330.04	2° 33' 52"LT	341.07									
								341.07		281.35	-404.00	545.00	141.00	-200.00	332.00	132.00	
24	AP 25	DBN+3		678755.63	3117659.88	300.11	9° 31' 35"LT	221.62									
								221.62		364.68	-322.00	68.00	-254.00	-108.00	94.00	-14.00	
25	AP 27	DBN+3		679034.05	3118084.49	356.23	8° 3' 15"LT	507.75									ROAD, CANAL, AGRICULTURAL LAND, HUT
								507.75		403.01	444.00	-237.00	207.00	418.00	-79.00	339.00	
26	AP 28	DBN+0		679161.04	3118354.37	396.76	10° 26' 39"LT	298.26									MUD ROAD
								298.26		339.40	537.00	218.00	755.00	380.00	211.00	591.00	
27	AP 30	DBN+6		679257.95	3118722.36	386.08	4° 12' 25"LT	380.54									AGRICULTURAL LAND
								380.54		455.67	162.00	89.00	251.00	170.00	112.00	282.00	
								530.80									



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											Left	Right	Total	Left	Right	Total		
28	AP 32	DD+6		679355.12	3119244.19	441.85	34° 52' 17" RT		530.80	376.88		448.00	534.00	982.00	426.00	328.00	754.00	
								222.95										
29	AP 33	DD+9		679513.92	3119400.68	406.60	34° 5' 17" LT		222.95	400.52		-309.00	183.00	-126.00	-102.00	190.00	88.00	STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL
								578.09										Maximum tension maintained @32deg full wind Bottom Conductor - 4.5T Middle conductor - 5T Top conductor - 5.303T
30	AP 35	DBN+3		679627.50	3119967.50	464.08	6° 32' 41" RT		578.09	448.19		403.00	381.00	784.00	396.00	341.00	737.00	STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL
								318.28										Maximum tension maintained @32deg full wind Bottom Conductor - 4.5T Middle conductor - 5T Top conductor - 5.303T
31	AP 36	DD+9		679725.20	3120270.41	404.97	24° 9' 53" LT		318.28	502.10		-58.00	446.00	388.00	-17.00	442.00	425.00	TOWER TYPE UPDATED TO DC TO DD AS PER MAIL REC. FROM PGCIL
								685.92										AGRICULTURAL LAND Maximum tension maintained @32deg full wind Bottom Conductor - 4.5T Middle conductor - 5T Top conductor - 5.303T
32	AP 38	DD+0		679650.06	3120952.21	359.24	17° 40' 41" RT		685.92	580.42		252.00	499.00	751.00	256.00	463.00	719.00	TOWER TYPE UPDATED TO DC TO DD AS PER MAIL REC. FROM PGCIL
								492.90										MUD ROAD
33	AP 40	DC+0		679747.40	3121435.41	290.39	11° 10' 4" RT		492.90	424.94		1.00	-401.00	-400.00	38.00	-213.00	-175.00	TOWER TYPE UPDATED TO AVOID WIND SPAN VIOLATION
								356.97										AGRICULTURAL LAND
34	AP 41	DD+6		679884.33	3121765.07	369.27	30° 37' 42" RT		356.97	351.32		770.00	256.00	1026.00	583.00	229.00	812.00	
								345.65										CANAL
35	AP 43	DC+0		680161.06	3121972.20	364.16	23° 54' 47" RT		345.65	296.68		92.00	151.00	243.00	119.00	139.00	258.00	
								247.70										
36	AP 44	DBN+0		680402.50	3122027.50	361.89	7° 7' 9" RT		247.70	322.36		97.00	-67.00	30.00	110.00	1.00	111.00	
								397.02										ROAD
37	AP 46	DD+0		680797.50	3122067.50	418.03	46° 20' 33" LT		397.02	284.03		465.00	-343.00	122.00	398.00	-101.00	297.00	
								171.03										
38	AP 47	DD+3		680902.50	3122202.50	431.51	34° 6' 27" LT		171.03	242.71		512.00	740.00	1252.00	270.00	511.00	781.00	



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											Left	Right	Total	Left	Right	Total		
								514.38										
39	AP 48	DC+0		680926.63	3122515.15	372.45	24° 26' 32"LT		314.38	398.27	-414.00	502.00	88.00	-188.00	461.00	273.00		
								480.79										AGRICULTURAL LAND, HUT
40	AP 50	DC+3		680761.21	3122968.90	301.38	26° 01' 22"LT		480.79	343.00	-14.00	271.00	257.00	27.00	184.00	211.00		
								197.78										
41	AP 51	DD+0		680615.02	3123109.82	292.73	18° 18' 35"RT		197.78	264.32	-68.00	504.00	436.00	20.00	392.00	412.00		
								325.6										ROAD,RIVER
42	AP 53	DD+0		680463.45	3123397.99	245.66	9° 15' 35"LT		325.60	216.15	-175.00	-147.00	-322.00	-63.00	-13.00	-76.00		
								96.82										11KV LINE, MUD ROAD, ROAD,AGRICULTURAL LAND
43	AP53A	DD+0		680407.77	3123477.19	251.88	40° 21' 27"LT		96.82	160.68	241.00	-260.00	-19.00	107.00	-78.00	29.00		
								224.55										
44	AP 54	DD+3		680190.41	3123533.54	277.71	40° 54' 9"RT		224.55	267.18	487.00	-892.00	-405.00	305.00	-472.00	-167.00		
								322.30										
45	AP 55	DC+9	3	680007.32	3123798.78	398.01	8° 57' 31"RT		322.30	239.49	1187.00	-1210.00	-23.00	806.00	-434.00	372.00		TOWER TYPE UPDATED FROM DBN+9 TO DC AS PER MAIL REC. FROM PGCIL
								155.38										
46	AP 56	DC+9	3	679940.04	3123938.84	473.88	9° 29' 10"RT		155.38	238.17	1384.00	256.00	1650.00	608.00	223.00	831.00		TOWER TYPE UPDATED FROM DBN+9 TO DC AS PER MAIL REC. FROM PGCIL
								310.24										
47	AP 57	DD+0		679853.63	3124236.80	472.25	29° 8' 5"RT		310.24	384.12	41	636	677	87	565	652		
								461.07										
48	AP 59	DC+3		679957.06	3124686.12	370.54	17° 28' 48"LT		461.07	327.93	-165.00	73.00	-92.00	-93.00	86.00	-7.00		
								194.79										
49	AP 60	DC+0		679941.72	3124880.31	375.13	19° 7' 4"RT		194.79	187.23	122.00	467.00	589.00	109.00	261.00	370.00		
								179.66										
50	AP 61	DC+0		679987.02	3125054.17	351.95	9° 27' 32"LT		179.66	353.81	-286.00	527.00	241.00	-286.00	527.00	241.00		TOWER TYPE UPDATED FROM DBN+9 TO DC AS PER MAIL REC. FROM PGCIL
								513.65										MUD ROAD, AGRICULTURAL LAND,CANAL
51	AP 63	DD+9		680033.06	3125565.75	264.72	22° 47' 25"LT		513.65	469.26	-7.00	7.00	0.00	-7.00	7.00	0.00		
								445.63										MUD ROAD, AGRICULTURAL LAND,CANAL
52	AP 65	DC+6		679897.96	3125890.41	317.73	23° 39' 50"RT		445.63	339.74	442.00	-165.00	277.00	442.00	-165.00	277.00		
								248.45										11KV LINE



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											Left	Right	Total	Left	Right	Total	
53	AP 66	DC+9		679923.71	3126234.38	340.30	22° 42' 41" RT		248.45	355.39	428.00	111.00	539.00	288.00	132.00	420.00	
								465.45									MUD ROAD, AGRICULTURAL LAND
54	AP 68	DBN+3		680147.50	3126642.50	377.12	6° 24' 59" RT		465.45	449.82	358.00	344.00	702.00	337.00	319.00	656.00	
								434.20									AGRICULTURAL LAND, HUT
55	AP 70	DBN+0		680397.50	3126997.50	352.49	2° 11' 43" RT		434.20	336.60	92.00	-438.00	-346.00	118.00	-174.00	-56.00	
								239.01									
56	AP 71	DBN+3		680542.50	3127187.50	395.82	10° 11' 59" LT		239.01	338.65	691.00	125.00	806.00	417.00	144.00	561.00	STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL
								438.29									
57	AP 73	DBN+9		680742.50	3127577.50	410.95	1° 2' 9" LT		438.29	361.14	315.00	338.00	653.00	296.00	256.00	552.00	
								283.99									MUD ROAD
58	NEW AP 74	DC+18		680867.50	3127832.50	383.07	0° 31' 57" LT		283.99	402.54	-53.00	-43.00	-96.00	29.00	-2.00	27.00	
								478.10									MUD ROAD, CANAL, ROAD, 11KV LINE
59	AP 75	DBN+6		681054.671	3128268.053	456.362	2° 39' 50" RT		521.08	349.13	468	-263	203	438	-131	307	
								220.17									
60	AP 76	DD+9		681164.69	3128464.19	506.198	40° 45' 15" RT		478.10	246.64	493	1036	1509	359	652	1011	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								273.11									
61	AP 78	DC+9		681417.5	3128567.5	412.36	18° 3' 39" LT		273.11	291.61	-726	181	-545	-362	171	-191	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								310.11									
62	AP 79	DBN+0		681654.05	3128768.02	418.56	7° 48' 57" LT		310.11	292.41	-23.00	129.00	106.00	47.00	132.00	179.00	
								274.71									
63	AP 81	DC+0		681837.50	3128972.50	419.32	20° 45' 27" LT		274.71	404.61	145.00	58.00	203.00	142.00	94.00	226.00	
								534.50									
64	AP 83	DC+0		682030.26	3129471.03	485.43	15° 20' 1" LT		534.50	395.30	482.00	-436.00	46.00	456.00	-180.00	276.00	
								256.10									
65	AP 84	DBN+6		682056.17	3129725.82	529.68	2° 37' 0" RT		256.10	303.28	697.00	-475.00	222.00	440.00	-252.00	188.00	STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL
								350.46									
66	AP 86	DC+0		682107.50	3130072.50	623.93	23° 3' 1" LT		350.46	346.09	895.00	154.00	989.00	613.00	160.00	773.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								336.60									
67	AP 87	DBN+0		682021.21	3130403.13	626.03	7° 18' 34" RT		336.60	305.84	187.00	-98.00	89.00	182.00	4.00	186.00	



Handwritten Signature
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											Left	Right	Total	Left	Right	Total		
								265.80										
68	AP 88	DC+0		681986.82	3130670.89	647.62	16° 52' 34"RT		265.80	257.49	370.00	24.00	394.00	268.00	70.00	338.00		
								245.01										
69	AP 89	DBN+0		682027.50	3130912.50	655.85	11° 33' 2"RT		245.01	224.57	222.00	119.00	341.00	176.00	111.00	287.00		
								204.14										
70	AP 90	DD+0		682101.02	3131102.94	654.71	32° 55' 57"RT		204.14	225.23	87.00	473.00	560.00	95.00	313.00	408.00		
								246.33										
71	AP 91	DBN+3		682300.40	3131247.58	622.24	13° 54' 50"LT		246.33	268.48	-224.00	757.00	533.00	-63.00	505.00	442.00		STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								290.63										
72	AP 92	DBN+6		682487.70	3131469.80	557.54	7° 55' 21"RT		290.63	225.74	-460.00	1103.00	643.00	-207.00	512.00	305.00		STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								160.85										
73	AP 93	DD+9		682607.33	3131577.32	495.85	26° 14' 13"RT		160.85	407.52	-930.00	396.00	-534.00	-339.00	393.00	54.00		TOWER TYPE UPDATED FROM DC TO DD TO AVOID WIND SPAN VIOLATION STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL CP down By 1.5m
								654.20										AGRICULTURAL LAND, RIVER, ROAD
74	AP 96	DBN+9		683237.08	3131754.50	460.67	11° 50' 6"RT		654.20	467.89	269.00	-737.00	-468.00	273.00	-360.00	-87.00		STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								281.58										AGRICULTURAL LAND, ROAD
75	AP 98	DBN+9		683518.01	3131773.55	550.44	9° 57' 15"LT		281.58	214.99	1033.00	115.00	1148.00	655.00	90.00	746.00		STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								148.39										AGRICULTURAL LAND, HUT
76	AP 99	DC+9		683662.09	3131809.03	548.39	17° 48' 19"LT		148.39	191.89	32.00	41.00	73.00	57.00	77.00	134.00		
								235.39										
77	AP 100	DC+9		683862.50	3131932.50	554.45	13° 42' 39"LT		235.39	356.91	194.00	273.00	467.00	157.00	268.00	425.00		TOWER TYPE UPDATED TO AVOID WIND SPAN VIOLATION
								478.42										AGRICULTURAL LAND
78	AP 102	DBN+0		684198.73	3132272.85	554.81	9° 41' 36"LT		478.42	322.10	205.00	-325.00	-119.00	212.00	-93.00	119.00		
								165.77										HUT
79	AP 103	DC+0		684293.71	3132408.71	578.09	24° 56' 20"RT		165.77	214.77	493.00	140.00	633.00	261.00	137.00	398.00		
								263.76										AGRICULTURAL LAND
80	AP 104	DC+0		684521.89	3132541.00	577.46	16° 24' 46"RT		263.76	254.98	126.00	-416.00	-290.00	129.00	-166.00	-37.00		
								246.19										AGRICULTURAL LAND



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Sl.No	Loc. No.	Type of Tower	RAISED CHIMNEY/BENCHING	Easting X (m)	Northing Y	Elevation Z (m)	Deviation Angle (Deg)	Span (m)	Section Length (m)	Wind Span (m)	Weight Span in Mtr (Cold)			Weight Span in Mtr (Hot)			Remarks & Crossings.
											Left	Right	Total	Left	Right	Total	
81	AP 105	DC+3		684761.09	3132599.27	620.97	19° 12' 21" RT		246.19	240.57	658.00	-240.00	428.00	418.00	-70.00	348.00	STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL
									234.95								
82	AP 106	DBN+3		684994.95	3132576.69	649.83	13° 35' 5" LT				477.00	-228.00	249.00	307.00	-59.00	248.00	
									207.88								CANAL, AGRICULTURAL LAND
83	AP 107	DC+0		685200.77	3132605.87	676.46	15° 41' 11" RT				437.00	-191.00	246.00	268.00	-43.00	225.00	
									225.06								HUT, AGRICULTURAL LAND
84	AP 108	DBN+6		685423.84	3132576.04	693.88	5° 30' 49" LT				418.00	-250.00	168.00	270.00	-118.00	152.00	
									358.91								AGRICULTURAL LAND
85	AP 109	DC+9		685792.50	3132562.50	758.15	15° 20' 38" LT				625.00	-445.00	180.00	493.00	-148.00	345.00	STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL
									174.64								
86	AP 110	DC+0		685962.50	3132602.50	799.39	23° 30' 57" RT				623.00	-185.00	438.00	326.00	-74.00	252.00	STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL
									367.27								
87	AP 111	DC+6		686323.88	3132536.99	850.36	26° 11' 26" LT				557.00	-817.00	-260.00	446.00	-367.00	79.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
									237.27								
88	AP 112	DBN+6		686552.05	3132602.05	931.01	10° 30' 51" RT				1057.00	-1062.00	5.00	617.00	-442.00	175.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
									201.76								
89	AP 113	DD+3_1000M		686752.91	3132621.04	1021.46	44° 16' 31" LT				1281.00	-1092.00	189.00	661.00	-411.00	250.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
									171.76								
90	AP 114	DBN+0_1000M		686864.06	3132751.99	1099.43	13° 48' 47" LT				1277.00	-1381.00	-104.00	597.00	-502.00	95.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
									158.91								
91	AP 115	DD+0_1000M		686934.99	3132894.19	1193.45	36° 24' 35" RT				1567.00	-879.00	688.00	688.00	-368.00	320.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
									204.98								
92	AP 116	DBN+0_1000M		687117.50	3132987.50	1267.89	6° 57' 37" RT				1099.00	-939.00	160.00	589.00	-370.00	219.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
									185.95								MUD ROAD
93	AP 117	DD+6_1000M		687292.10	3133051.46	1331.90	38° 24' 55" LT				1136.00	-1153.00	-17.00	567.00	-421.00	146.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL



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 POWERGRID

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											Left	Right	Total	Left	Right	Total		
								164.44										
94	AP 118	DD+9_1000M		687377.94	3133191.73	1404.35	41° 11' 12"LT		164.44	167.88	1331.00	-221.00	1110.00	599.00	-49.00	550.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL	
								171.31										
95	AP 119	DBN+0_1000M		687349.01	3133360.57	1431.01	1° 0' 20"LT		171.31	224.04	391.00	-18.00	373.00	219.00	49.00	268.00		
								276.76										
96	AP 120	DC+6_1000M		687297.50	3133632.50	1439.62	19° 45' 13"LT		276.76	218.74	294.00	491.00	785.00	227.00	256.00	483.00		
								160.72										
97	AP 121	DD+3_1000M		687215.98	3133771.01	1419.96	31° 15' 27"RT		160.72	299.99	-328.00	250.00	-78.00	-93.00	244.00	151.00		
								439.26										
98	AP 123	DBN+9_1000M		687221.93	3134210.23	1407.48	4° 9' 29"RT		439.26	301.36	192.00	-1129.00	-937.00	198.00	-415.00	-217.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL	
								163.45										
99	AP 124	DC+9_1000M	1.5	687236.00	3134373.07	1480.57	28° 15' 44"LT		163.45	217.08	1308.00	-158.00	1150.00	594.00	-30.00	564.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL	
								270.71										
100	AP 125	DD+9_1000M		687128.80	3134621.65	1509.50	59° 54' 4"RT		270.71	285.31	432.00	1453.00	1885.00	304.00	933.00	1237.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL	
								299.90										
101	AP 126	DD+3_1000M		687307.50	3134862.50	1364.06	41° 20' 17"RT		299.90	306.66	-1113.00	364.00	-749.00	-592.00	284.00	-308.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL	
								313.41										
102	AP 127	DBN+3_1000M		687613.97	3134928.13	1341.96	6° 12' 18"RT		313.41	324.36	-48.00	-605.00	-653.00	33.00	-324.00	-291.00	STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL	
								335.30										
103	AP 128	DBN+3_1000M		687947.50	3134962.50	1441.43	12° 11' 57"RT		335.30	344.47	956.00	247.00	1203.00	675.00	225.00	900.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL	
								353.63										
104	AP 129	DD+0		688298.98	3134923.59	1434.84	32° 10' 31"RT		353.63	297.64	109.00	321.00	430.00	131.00	229.00	360.00		
								241.64										
105	AP 130	DC+0_1000M		688488.12	3134773.19	1418.12	24° 21' 34"RT		241.64	205.07	-76.00	370.00	294.00	16.00	208.00	224.00		
								168.49										
106	AP 131	DD+3_1000M		688565.00	3134623.27	1398.83	43° 9' 21"LT		168.49	312.42	-202.00	489.00	287.00	-40.00	441.00	401.00		
								456.34										



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											Left	Right	Total	Left	Right	Total	
107	AP 132	DC+9_1000M		688994.65	3134469.48	1331.21	27° 40' 40"LT	136.24	456.34	296.29	-30.00	944.00	914.00	18.00	399.00	417.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
108	AP 133	DBN+9_1000M	1.5	689129.56	3134488.39	1287.62	2° 46' 8"LT	301.11	136.24	218.68	-802.00	919.00	117.00	-257.00	610.00	353.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL, c.p down 1.5m
109	AP 134	DBN+9_1000M		689425.39	3134544.57	1207.42	9° 8' 26"LT	196.17	301.11	248.64	-607.00	943.00	336.00	-298.00	497.00	199.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
110	AP 135	DD+18_1000M		689609.89	3134611.20	1139.91	11° 23' 36"LT	465.10	196.17	330.64	-739.00	1105.00	366.00	-293.00	939.00	646.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
111	AP 136	DD+9		690007.50	3134852.50	942.58	27° 9' 59"RT	280.71	465.10	372.91	-594.00	1229.00	635.00	-427.00	770.00	343.00	TOWER TYPE UPDATED FROM DC TO DD TO AVOID WIND SPAN VIOLATION STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL CP down By 1.5m
112	AP 137	DBN+6		690287.50	3134872.50	831.28	4° 45' 46"RT	142.40	280.71	211.56	-925.00	1599.00	674.00	-465.00	641.00	176.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL CP down By 1.5m
113	AP 138	DD+0		690429.89	3134870.82	751.83	42° 34' 54"LT	601.42	142.40	371.91	-1434.00	339.00	-1095.00	-476.00	337.00	-139.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL RIVER, MUD ROAD
114	AP 139	DBN+9	3	690877.50	3135272.50	725.03	2° 14' 26"LT	236.91	601.42	419.17	267.00	413.00	680.00	269.00	274.00	543.00	STRENGTHENING not REQUIRED AS PER MAIL REC. FROM PGCIL Cp down by 2m
115	AP 141	DBN+9	3	691047.50	3135437.50	699.26	5° 46' 55"LT	237.16	236.91	237.04	-175.00	790.00	615.00	-36.00	472.00	436.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
116	AP 142	DBN+3		691200.18	3135618.98	652.92	13° 22' 42"LT	176.89	237.16	207.03	-547.00	1194.00	647.00	-229.00	579.00	350.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL MUD ROAD



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											Left	Right	Total	Left	Right	Total	
117	AP 143	DC+0		691279.64	3135777.02	583.94	29° 41' 34"RT		176.89	191.02	-1002.00	1225.00	223.00	-388.00	647.00	259.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								205.15									
118	AP 143A	DBN+6		691450.49	3135890.58	492.89			205.15	203.61	-1002.00	1557.00	555.00	-423.00	789.00	366.00	STRENGTHENING CHECK REQUIRED AS PER MAIL REC. FROM PGCIL
								202.08									
119	AP 144	DC+3		691618.78	3136002.44	380.62	17° 12' 57"LT		202.08	326.00	-1325.00	682.00	-643.00	-557.00	596.00	39.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								449.92									AGRICULTURAL LAND, HUT
120	AP 146	DBN+9		691902.97	3136351.25	269.48	8° 2' 58"LT		449.92	345.43	-220.00	249.00	29.00	-133.00	190.00	57.00	
								240.93									AGRICULTURAL LAND, HUT
121	AP 147	DD+0		692027.50	3136557.50	268.00	54° 47' 31"RT		240.93	331.00	-5.00	135.00	130.00	54.00	152.00	206.00	
								421.07									RIVER, MUD ROAD, 11KV LINE
122	AP 149	DD+0		692447.50	3136587.50	284.42	40° 57' 57"RT		421.07	330.05	291.00	-651.00	-360.00	275.00	-287.00	-12.00	
								239.03									AGRICULTURAL LAND, 11KV LINE, ROAD
123	AP 150	DD+25		692638.70	3136444.05	333.44	50° 42' 4"RT		239.03	256.20	903.00	-545.00	358.00	540.00	-248.00	292.00	STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL
								273.37									
124	AP 151	DD+18		692650.23	3136170.92	399.42	45° 2' 17"LT		273.37	233.58	827.00	162.00	989.00	530.00	127.00	657.00	
								193.78									AGRICULTURAL LAND
125	AP 152	DC+9	3	692793.01	3136039.90	401.13	24° 25' 14"RT		193.78	345.41	31.00	123.00	154.00	65.00	141.00	206.00	
								497.03									canal
126	AP 153	DC+9		692987.50	3135582.50	442.71	9° 34' 38"LT		497.03	463.24	378.00	75.00	453.00	360.00	104.00	464.00	TOWER TYPE UPDATED TO AVOID WIND SPAN VIOLATION CP DOWN BY 3M
								429.44									
127	AP 155	DBN+0		693218.96	3135220.77	478.77	2° 39' 19"RT		429.44	446.45	356.00	-44.00	312.00	327.00	5.00	332.00	
								463.46									
128	AP 156	DC+18		693450.39	3134819.24	529.63	7° 50' 39"LT		463.46	372.94	513.00	497.00	1010.00	465.00	347.00	812.00	
								282.42									
129	AP 157	DC+18	3	693623.50	3134596.09	492.40	6° 6' 57"LT		282.42	397.29	-213.00	209.00	-4.00	-63.00	216.00	153.00	
								512.15									
130	AP 159	220KV	3	693978.74	3134227.18	505.87	50° 48' 32"LT		512.15	499.98	302.00	165.00	467.00	296.00	178.00	474.00	220 KV TOWER
								487.81									



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											Left	Right	Total	Left	Right	Total	
131	AP 160	DC+0		694464.89	3134267.38	547.69	10° 15' 46"LT		487.81	447.13	322.00	-52.00	270.00	310.00	9.00	319.00	TOWER TYPE UPDATED TO AVOID WIND SPAN VIOLATION
								406.44									
132	AP 161	DC+18		694857.50	3134372.50	578.61	20° 39' 31"LT		406.44	384.46	461.00	401.00	862.00	400.00	333.00	733.00	
								362.48									
133	AP 162	DD+3		695152.06	3134583.76	561.31	34° 17' 34"LT		362.48	294.85	-40.00	-205.00	-245.00	29.00	-50.00	-21.00	
								227.22									
134	AP 163	DD+0		695229.99	3134797.20	588.51	47° 14' 18"LT		227.22	176.91	430.00	-308.00	122.00	275.00	-72.00	203.00	
								126.59									
135	AP 164	DBN+6		695172.17	3134909.81	598.24	2° 11' 31"RT		126.59	293.71	433.00	254.00	687.00	198.00	250.00	448.00	
								460.83									
136	AP 165/0	DBN+3		694977.50	3135327.50	595.69	5° 15' 56"RT		460.83	371.17	208.00	261.00	469.00	213.00	210.00	423.00	
								281.51									
137	AP 166	DBN+3		694882.50	3135592.50	584.21	0° 43' 42"RT		281.51	299.23	21.00	65.00	86.00	72.00	102.00	174.00	
								316.94									
138	AP167/0	DBN+6		694779.35	3135892.18	591.22	10° 23' 25"LT		316.94	285.18	252.00	97.00	349.00	216.00	111.00	327.00	
								253.42									
139	AP 168	DC+6		694655.00	3136113.00	599.78	22° 59' 21"RT		253.42	318.30	157.00	476.00	633.00	143.00	401.00	544.00	
								383.17									
140	AP 169	DD+0		694612.32	3136493.79	551.38	28° 29' 13"RT		383.17	553.63	-87.00	149.00	62.00	-12.00	157.00	145.00	TOWER TYPE UPDATED FROM DC TO DD AS PER MAIL REC. FROM PGCIL
								724.09									Maximum tension maintained @32deg full wind Bottom Conductor - 4.5T Middle conductor - 5T Top conductor - 5.303T CANAL
141	AP 171	DD+3		694884.65	3137164.71	691.77	41° 7' 53"RT		724.09	653.44	602.00	708.00	1310.00	595.00	689.00	1284.00	
								582.79									Maximum tension maintained @32deg full wind Bottom Conductor - 4.5T Middle conductor - 5T Top conductor - 5.303T CANAL
142	AP 173	DC+9		695404.95	3137427.27	475.46	22° 46' 46"LT		582.79	459.08	-81.00	289.00	208.00	-60.00	269.00	209.00	CP Down by 3m
								335.37									
143	AP 174	220KV		695622.50	3137682.50	448.16	56° 47' 5"RT		335.37	436.07	49.00	235.00	284.00	70.00	239.00	309.00	220 KV TOWER
								536.77									MUD ROAD, AGRICULTURAL LAND



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											Left	Right	Total	Left	Right	Total	
144	AP 176	DC+3		696155.00	3137614.96	459.72	10° 20' 33"RT		536.77	392.25	308.00	-1066.00	-758.00	304.00	-503.00	-199.00	TOWER TYPE UPDATED FROM DBN TO DC AS PER MAIL REC. FROM PGCIL
								247.72									AGRICULTURAL LAND
145	AP 177	DD+18		696391.17	3137540.18	556.75	33° 11' 11"LT		247.72	240.67	1337.00	-236.00	1101.00	774.00	-67.00	707.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								233.61									
146	AP 178	DD+25		696616.16	3137603.06	577.93	26° 33' 39"RT		233.61	237.36	471.00	902.00	1373.00	302.00	537.00	839.00	STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL
								241.11									
147	AP 179	DBN+9		696852.88	3137557.28	527.37	11° 0' 37"LT		241.11	217.87	-650.00	691.00	41.00	-286.00	375.00	89.00	STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL
								194.62									
148	AP 180	DD+18		697047.50	3137557.50	478.88	48° 0' 46"LT		194.62	261.95	-495.00	193.00	-302.00	-179.00	182.00	3.00	
								329.28									
149	AP 182	DBN+3		697267.50	3137802.50	490.49	0° 21' 4"RT		329.28	387.63	134.00	-187.00	-53.00	145.00	-107.00	38.00	
								445.98									
150	AP 183	DD+0		697567.50	3138132.50	590.47	46° 47' 14"RT		445.98	375.51	647.00	-923.00	-276.00	567.00	-486.00	81.00	STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL
								305.04									
151	AP 184	DC+9		697872.50	3138137.50	706.36	14° 37' 0"RT		305.04	381.72	1256.00	350.00	1606.00	819.00	329.00	1148.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								458.39									MUD ROAD
152	AP 187	220KV		698317.89	3138029.11	670.39	49° 3' 2"LT			364.70	109.00	-112.00	-3.00	131.00	-4.00	127.00	220 KV TOWER
								271.01									AGRICULTURAL LAND
153	AP 188	DC+9		698538.87	3138186.00	702.93	22° 54' 10"LT			298.29	380.00	-532.00	-152.00	273.00	-270.00	3.00	
								325.58									HUT, AGRICULTURAL LAND
154	AP 189	DD+9		698710.07	3138452.93	780.68	46° 5' 25"RT			435.34	869.00	1010.00	1879.00	608.00	920.00	1528.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								545.10									HUT, AGRICULTURAL LAND
155	AP 191	DC+9		699242.89	3138577.99	557.16	22° 18' 9"RT			404.54	-413.00	591.00	178.00	-321.00	389.00	68.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								263.98									MUD ROAD, AGRICULTURAL LAND



Anuj Paliwal
 Anuj Paliwal
 Assistant Manager
 Comp. T&D, Along
 POWERGRID

Sunil Kumar
 Sunil Kumar
 Chief Manager
 CSST&DS, Along
 Powergrid Corp. Of India Ltd.

SLNo	Loc. No.	Type of Tower	RAISED CHIMNEY/BENCHING	Easting X (m)	Northing Y (m)	Elevation Z (m)	Deviation Angle (Deg)	Span (m)	Section Length (m)	Wind Span (m)	Weight Span in Mtr (Cold)			Weight Span in Mtr (Hot)			Remarks & Crossings.
											Left	Right	Total	Left	Right	Total	
156	AP 192	DBN+3		699502.76	3138531.62	515.51	10° 28' 46"LT			224.48	-323.00	1245.00	922.00	-121.00	616.00	495.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								184.98									
157	AP 193	DC+0		699687.74	3138532.79	439.60	19° 14' 30"RT		184.98	424.91	-1044.00	177.00	-867.00	-414.00	185.00	-229.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								664.83									
158	AP 195	DD+6		700316.80	3138317.66	522.18	43° 9' 58"LT		664.83	563.19	501.00	-251.00	250.00	494.00	-162.00	332.00	STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL
								461.54									
159	AP 197	DC+9		700737.50	3138507.50	638.46	12° 36' 33"RT		461.54	301.39	728.00	961.00	1589.00	639.00	379.00	1018.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								141.24									
160	AP 198	DC+3		700875.81	3138536.09	605.21	16° 10' 3"LT		141.24	262.44	-715.00	582.00	-133.00	-232.00	474.00	242.00	STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL
								383.64									AGRICULTURAL LAND
161	AP 200	DD+0		701215.03	3138715.28	543.43	39° 12' 55"LT		383.64	287.76	-195.00	-1031.00	-1226.00	-87.00	-415.00	-502.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								191.87									
162	AP 201	DC+3	0	701289.81	3138891.98	620.18	18° 0' 36"LT		191.87	223.60	1236.00	-833.00	403.00	520.00	-392.00	228.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								255.33									HUT
163	AP 202	DC+9	0	701311.76	3139146.36	704.14	18° 57' 47"RT		255.33	245.86	1104.00	-1241.00	-137.00	663.00	-577.00	86.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								236.39									MUD ROAD
164	AP 204	DD+3	0	701407.50	3139362.50	838.93	27° 14' 46"RT		236.39	202.04	1512.00	575.00	2087.00	849.00	298.00	1147.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								167.69									HUT
165	AP 205	DD+0	0	701538.07	3139467.71	813.60	26° 46' 35"LT		167.69	380.12	-404.00	474.00	70.00	-127.00	463.00	336.00	TOWER TYPE UPDATED TO DD AS PER MAIL REC. FROM PGCIL
								592.55									AGRICULTURAL LAND



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Comp. T&D, Along
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SLNo	Loc. No.	Type of Tower	RAISED CHIMNEY/BENCHING	Easting X (m)	Northing Y (m)	Elevation Z (m)	Deviation Angle (Deg)	Span (m)	Section Length (m)	Wind Span (m)	Weight Span in Mtr (Cold)			Weight Span in Mtr (Hot)			Remarks & Crossings.
											Left	Right	Total	Left	Right	Total	
166	AP 206	DC+0	0	701782.50	3140007.50	737.18	19° 30' 54"LT		592.55	392.17	126.00	482.00	608.00	139.00	278.00	417.00	STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL
								191.78									HUT
167	AP 207	DD+9	0	701798.71	3140198.60	702.80	30° 33' 1"RT		191.78	218.62	-288.00	-207.00	-495.00	-84.00	-54.00	-138.00	
								245.46									HUT
168	AP 208	DD+25	0	701940.89	3140398.69	714.91	23° 21' 60"RT		245.46	244.18	457.00	1500.00	1957.00	304.00	856.00	1160.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								242.90									
169	AP 209	DD+18	0	702148.58	3140524.65	591.33	25° 14' 28"RT		242.90	266.59	-1222.00	112.00	-1110.00	-578.00	126.00	-452.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								290.28									
170	AP 210	DD+18	0	702437.27	3140554.96	596.72	27° 45' 50"RT		290.28	263.37	181.00	1776.00	1957.00	167.00	978.00	1145.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								236.46									MUD ROAD
171	AP 211	DD+9	0	702656.87	3140467.27	440.47	21° 0' 51"LT		236.46	446.31	-1488.00	585.00	-903.00	-690.00	574.00	-116.00	STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL
								Total Length=	52405.275 m								

NOTE: STRENGTHENING IS CHECKED IN PLS-CADD AGAINST THE CLIMATIC CONDITIONS 75DEG NO WIND/32DEG-NILWIND/0DEG-NIL WIND

FOR LARSEN & TOUBRO LIMITED

FOR POWER GRID CORPORATION OF INDIA LIMITED

SURVEYED BY		CHECKED BY		SUBMITTED BY		CHECKED BY		RECOMMENDED BY		APPROVED BY	
											

POWER GRID CORPORATION OF INDIA LTD.
TRANSMISSION LINE TOWER PACKAGE FOR TW26 FOR 132KV S/C LINE (ON D/C TOWER) UNDER
COMPREHENSIVE SCHEME FOR STRENGTHENING OF TRANSMISSION & DISTRIBUTION
SYSTEM IN NER & SIKKIM: INTRA-STATE: ARUNACHAL PRADESH
1. 132kv S/C (on D/C tower) ALONG- YINGKIONG (AP48 TO AP54)

AS PER DETAIL SURVEY REVISION -3										AS PER DETAIL SURVEY REVISION-4																						
SL No	Loc. No.	Type of Tower	RAISE D CHIMNEY/BENCHING	Easting X (m)	Northing Y (m)	Elevation Z (m)	Deviation Angle (Deg)	Span (m)	Remarks & Crossings.	Sl. No	Loc. No.	Type of Tower	CP LEVEL UP/DOWN	INDIVIDUAL LEG EXTENSION				RAISE D CHIMNEY/BENCHING	Easting X (m)	Northing Y (m)	Elevation Z (m)	Deviation Angle (Deg)	Span (m)	Wind Span (m)	Weight Span in Mtr (Cold)			Weight Span in Mtr (Hot)			Remarks & Crossings.	
														LEG A	LEG B	LEG C	LEG D								Left	Right	Total	Left	Right	Total		
1	AP 48	DC+0		680923.16	3122516.20	371.43	23° 27' 5"LT	480.79	AGRICULTURAL LAND, HUT	1	AP 48	DC+0	0	+0	+0	+1.5	+0	0	680926.63	3122515.15	372.45	24° 26' 32"LT	482.96	398.27		-414.00	502.00	88.00	-188.00	461.00	273.00	AGRICULTURAL LAND, HUT
2	AP 50	DD+3		680761.21	3122968.90	301.38	30° 18' 20"LT	197.78		2	AP 50	DC+3	0	+3	+3	+4.5	+3	0	680761.21	3122968.90	301.38	26° 01' 22"LT		343.00		-14.00	271.00	257.00	27.00	184.00	211.00	Strengthening check required due to Individual Span Violation
3	AP 51	DD+0		680609.73	3123096.06	294.87	31° 52' 29"RT	361.1		3	AP 51	DD+0	0	+0	+1.5	+1.5	+0	0	680615.02	3123106.82	292.73	18° 18' 35"RT	203.05	264.32		-68.00	504.00	436.00	20.00	392.00	412.00	N. H. crossing
4	AP 53	DD+0		680497.46	3123439.25	244.54	51° 37' 51"LT	97.46	11KV LINE, MUD ROAD, ROAD, AGRICULTURAL LAND	4	AP 53	DD+0	0	+0	+0	+0	-0	0	680463.45	3123397.99	245.66	9° 15' 35"LT	96.82	216.16		-175.00	-147.00	-322.00	-63.00	-13.00	-76.00	DD TYPE PROVIDED FOR NH AND RIVER CROSSING
5	AP53A	DBN+0		680406.00	3123473.00	252.39	4° 34' 9"LT	223.93		5	AP53A	DD+0	0	+0	+0	+0	+0	0	680407.77	3123477.39	251.88	40° 21' 27"LT		160.68		241.00	-260.00	-19.00	107.00	-78.00	29.00	11KV LINE, ROAD, AGRICULTURAL LAND
6	AP 54	DD+3		680190.41	3123533.54	277.71	39° 45' 4"RT			6	AP 54	DD+3	0	+4.5	+3	+3	+4.5		680190.41	3123533.54	277.71	40° 54' 9"RT		267.18		487.00	-892.00	-405.00	305.00	-472.00	-167.00	
TOTAL										TOTAL																						
1361.08										1332.97																						

NOTE: STRENGTHENING IS CHECKED IN PLS-CADD AGAINST THE CLIMATIC CONDITIONS 75DEG-NIL WIND/32DEG-NILWIND/0DEG-NIL WIND

For L&T

For PGCIL

Surveyed By <i>Anuj Pal</i>	Checked By <i>Base</i>	Submitted By <i>RAN</i>	Checked By <i>Anuj Pal</i>	Recommended By	Approved By <i>Sunil Kumar</i>
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Anuj Pal
 Assistant Manager

Approved, however strengthening check to be approved by engineer.
Sunil Kumar
 Chief Manager

CSST&DS, Along
 Powergrid Corp. Of India Ltd.

THE DETAIL SURVEY REVISION-4 IS SUBMITTED BASED ON THE DETAIL SURVEY (REVISION-3) APPROVED FROM CORPORATE ENG. & DC ASSESSMENT. HOWEVER DURING THE EXECUTION ANY CHANGES PROPOSED/ADVISED WILL BE CONSIDERED IN FURTHER REVISION.

OWNER: POWER GRID CORPORATION OF INDIA LTD.
 PROJECT: TRANSMISSION LINE TOWER PACKAGE FOR TW26 FOR 132KV S/C LINE (ON D/C TOWER) UNDER COMPREHENSIVE SCHEME FOR STRENGTHENING OF TRANSMISSION & DISTRIBUTION SYSTEM IN NER & SIKKIM: INTRA-STATE: ARUNACHAL PRADESH
 LINE: 1. 132kV S/C (on D/C tower) ALONG- YINGKIONG (AP188-AP191)

AS PER DETAIL SURVEY REVISION-3										AS PER DETAIL SURVEY REVISION-4																						
SL. NO.	Loc. No.	Type of Tower	R.C.	Easting X (m)	Northing Y (m)	Elevation Z (m)	Deviation Angle (Deg)	Span (m)	Remarks & Crossings	SL. NO.	Loc. No.	Type of Tower	CP LEVEL UP/DOWN	INDIVIDUAL LEG EXTENSION				R.C.	Easting X (m)	Northing Y (m)	Elevation Z (m)	Deviation Angle (Deg)	Span (m)	Wind Span (m)	Weight Span in Mtr (Cold)			Weight Span in Mtr (Hot)			Remarks & Crossings	
														LEG A	LEG B	LEG C	LEG D								Left	Right	Total	Left	Right	Total		
1	AP 188	DC+6		698538.87	3138186.00	702.93	22° 54' 10"LT			1	AP 188	DC+9	0	9	9	7.5	7.5	A AND B PIT 1.5	698538.87	3138186.00	702.93	22° 54' 10"LT		289.29		347.00	-490.00	-143.00	254.00	-244.00	10.00	
								325.57	HUT, AGRICULTURAL LAND															325.57							HUT, AGRICULTURAL LAND	
2	AP 189	DD+9	3	698710.07	3138462.93	780.68	46° 5' 25"RT			2	AP 189	DD+9	0	9	9	9	9	B PIT 3M R.C.	698710.07	3138462.93	780.68	46° 5' 25"RT		435.34		826.00	981.00	1807.00	581.00	894.00	1475.00	Strengthening check required due to wt. span variation
								545.10	MUD ROAD, AGRICULTURAL LAND															545.10							MUD ROAD, AGRICULTURAL LAND	
3	AP 191	DC+3		699242.89	3138577.99	557.16	22° 18' 9"RT			3	AP 191	DC+3	0	9	9	9	0		699242.89	3138577.99	557.16	22° 18' 9"RT		404.54		-387.00	655.00	268.00	-299.00	425.00	126.00	Strengthening check required due to one side wt. span variation
Total										Total=																						
870.67										870.67																						

NOTE: STRENGTHENING IS CHECKED IN PLS-CADD AGAINST THE CLIMATIC CONDITIONS 75DEG-NIL WIND/32DEG-NILWIND/0DEG-NIL WIND

For L&T				For PGCIL			
Surveyed By	Checked By	Submitted By	Checked By	Recommended By	Approved By		
<i>Abhyakul</i>	<i>Bose</i>	<i>Ravi</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>Approved, however Strengthening check to be approved by engineer. [Signature]</i>		

THE DETAIL SURVEY REVISION-4 IS SUBMITTED BASED ON THE DETAIL SURVEY (REVISION-3) APPROVED FROM CORPORATE ENGG. & DC ASSESSMENT. HOWEVER DURING THE EXECUTION ANY CHANGES PROPOSED/ADVISED WILL BE CONSIDERED IN FURTHER REVISION.

Anuj Pathak
 Assistant Manager
 Comp. T&D, Along
 POWERGRID

Sunil Kumar
 Chief Manager
 CSST&DS, Along
 Powergrid Corp. Of India Ltd.

PROGRESS

Foundation	54 / 310
Erection	24 / 310
Earthing	0 / 310
Stringing	0.000 km / 94.473 km

132kV S/C Along - Yingkiong line

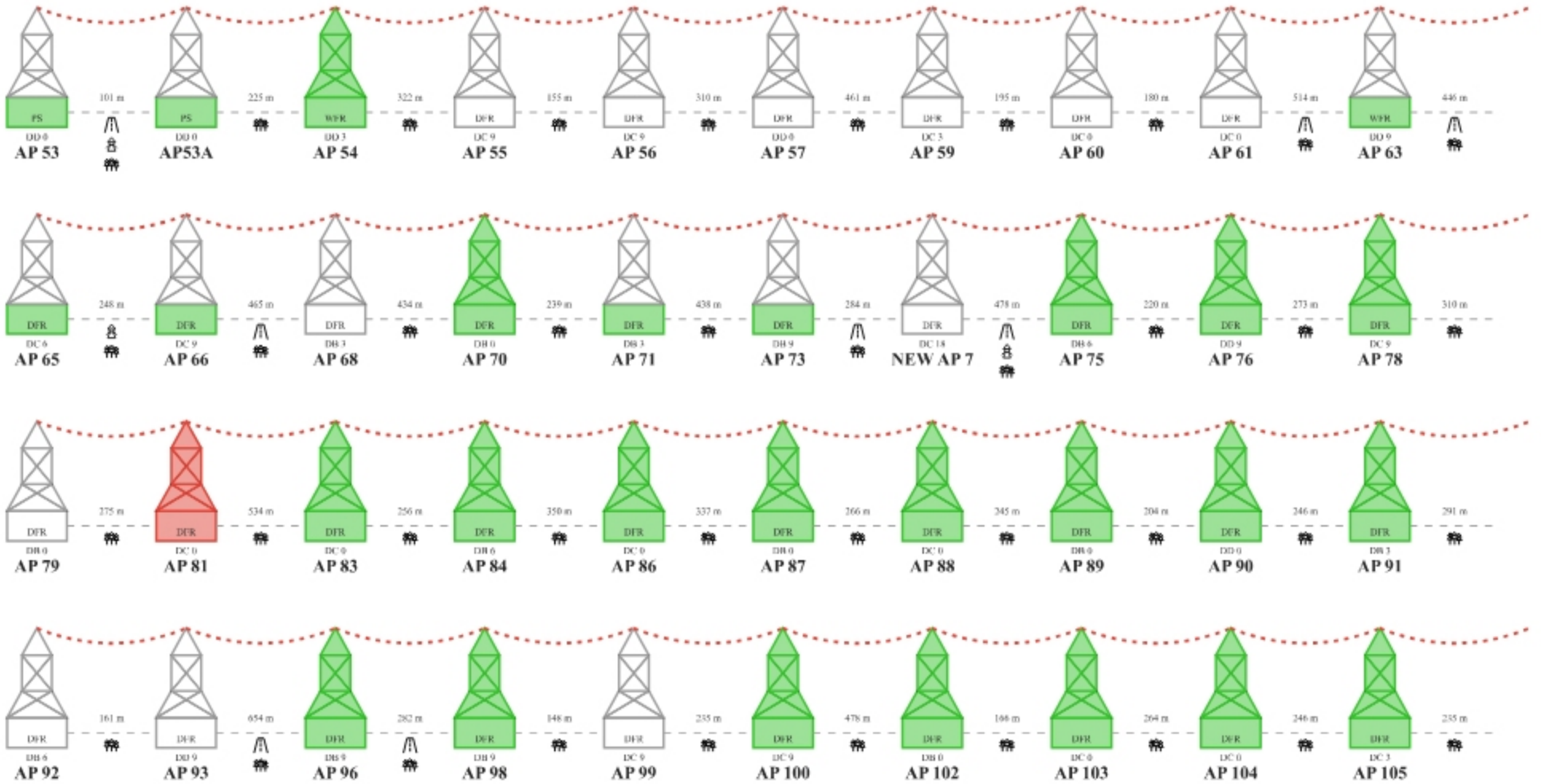
LARSEN And TOUBRO LIMITED

Page 2 / 8 (Locations: AP 53 to AP 105)

Progress data as on Tuesday, June 9, 2026

LEGEND

Crossings		Status	
	Road Crossing		Completed
	Rail Crossing		In Progress
	River Crossing		Right of Way
	Powerline Crossing		Earthing Done
	Forest Crossing		



PROGRESS

Foundation	54 / 310
Erection	24 / 310
Earthing	0 / 310
Stringing	0.000 km / 94.473 km

132kV S/C Along - Yingkiong line

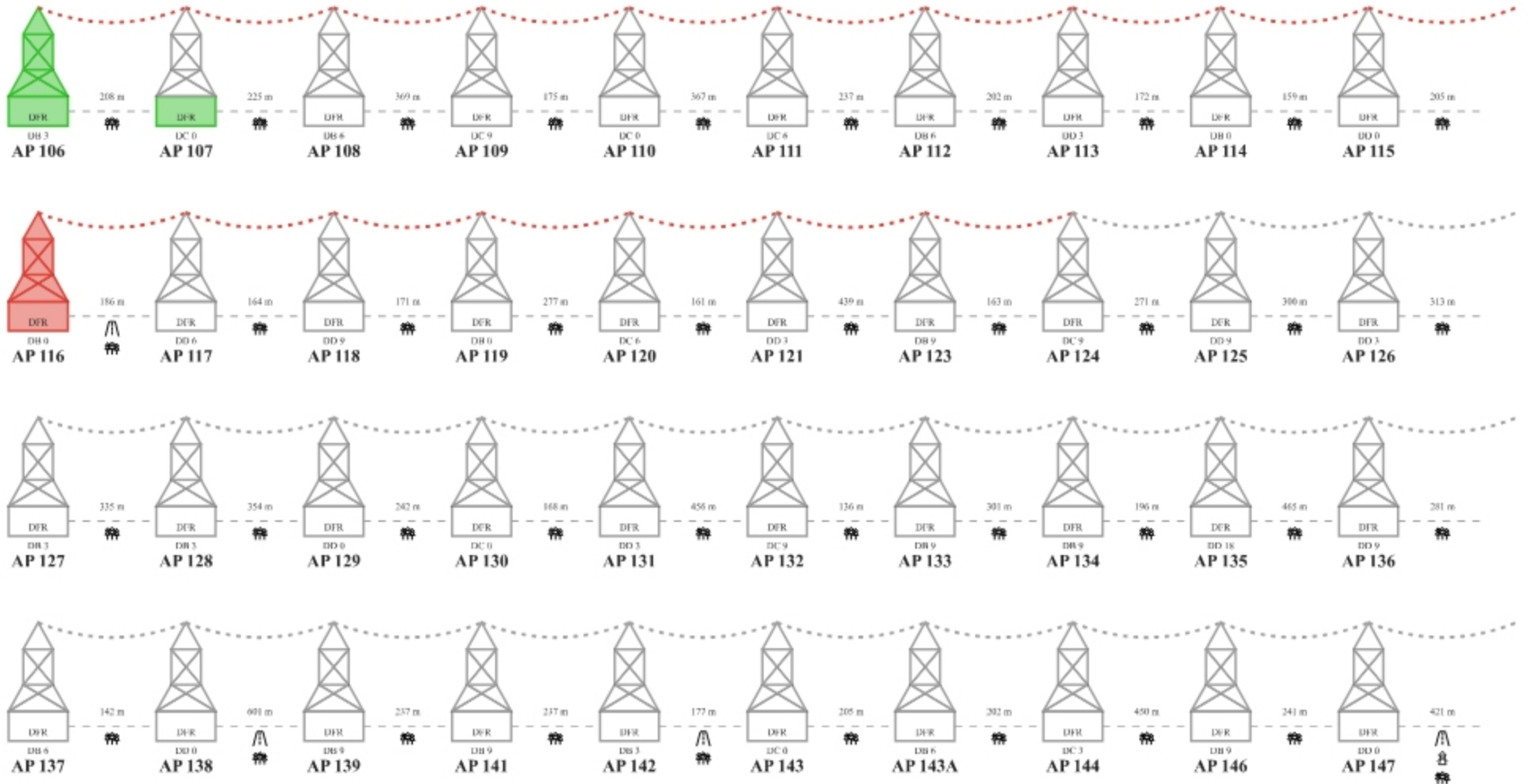
LARSEN And TOUBRO LIMITED

Page 3 / 8 (Locations: AP 106 to AP 147)

Progress data as on Tuesday, June 9, 2026

LEGEND

Crossings		Status	
	Road Crossing		Completed
	Rail Crossing		In Progress
	River Crossing		Right of Way
	Powerline Crossing		Earthing Done
	Forest Crossing		



PROGRESS

Foundation	54 / 310
Erection	24 / 310
Earthing	0 / 310
Stringing	0.000 km / 94.473 km

132kV S/C Along - Yingkiong line

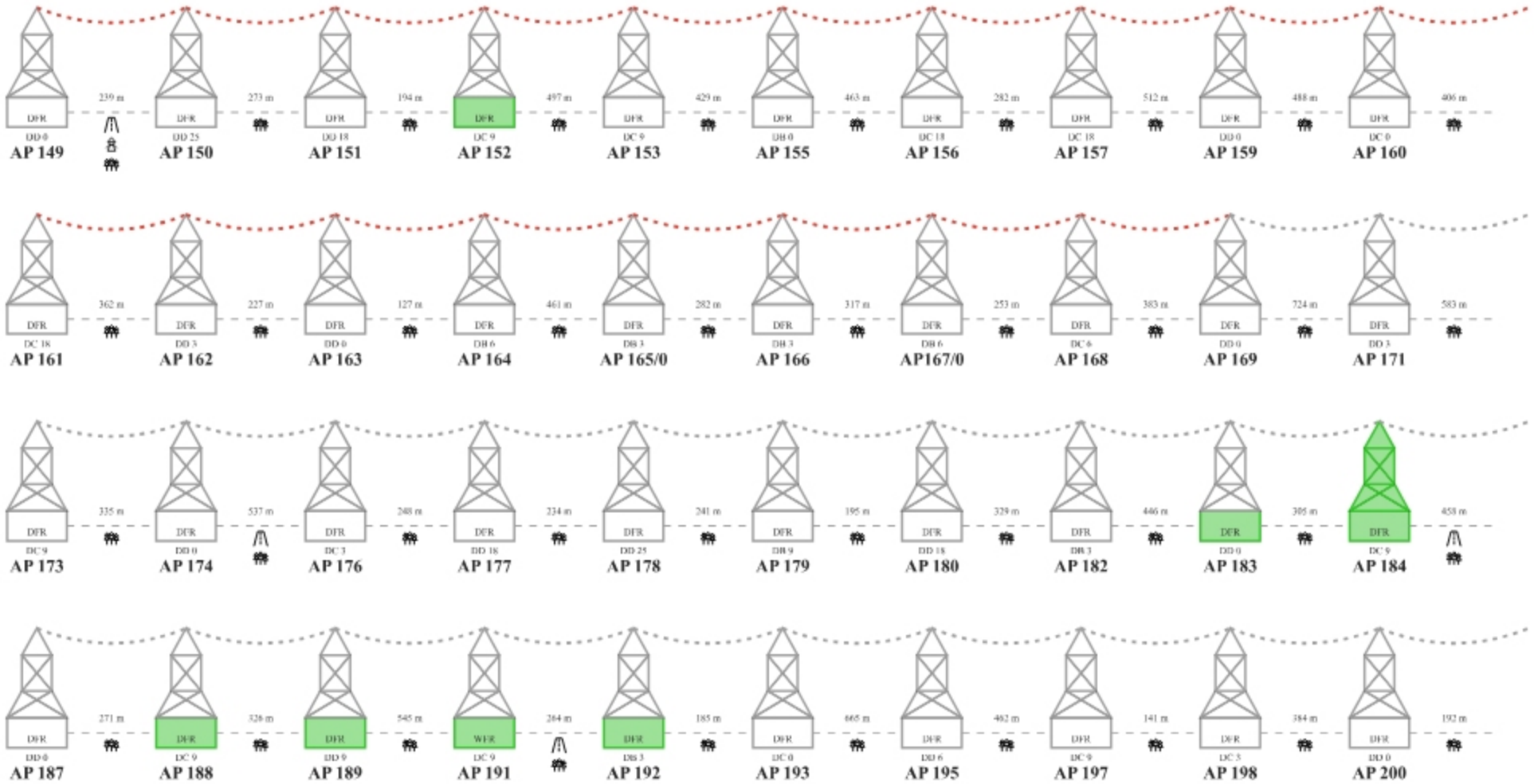
LARSEN And TOUBRO LIMITED

Page 4 / 8 (Locations: AP 149 to AP 200)

Progress data as on Tuesday, June 9, 2026

LEGEND

Crossings		Status	
	Road Crossing		Completed
	Rail Crossing		In Progress
	River Crossing		Right of Way
	Powerline Crossing		Earthing Done
	Forest Crossing		



PROGRESS

Foundation	54 / 310
Erection	24 / 310
Earthing	0 / 310
Stringing	0.000 km / 94.473 km

132kV S/C Along - Yingkiong line

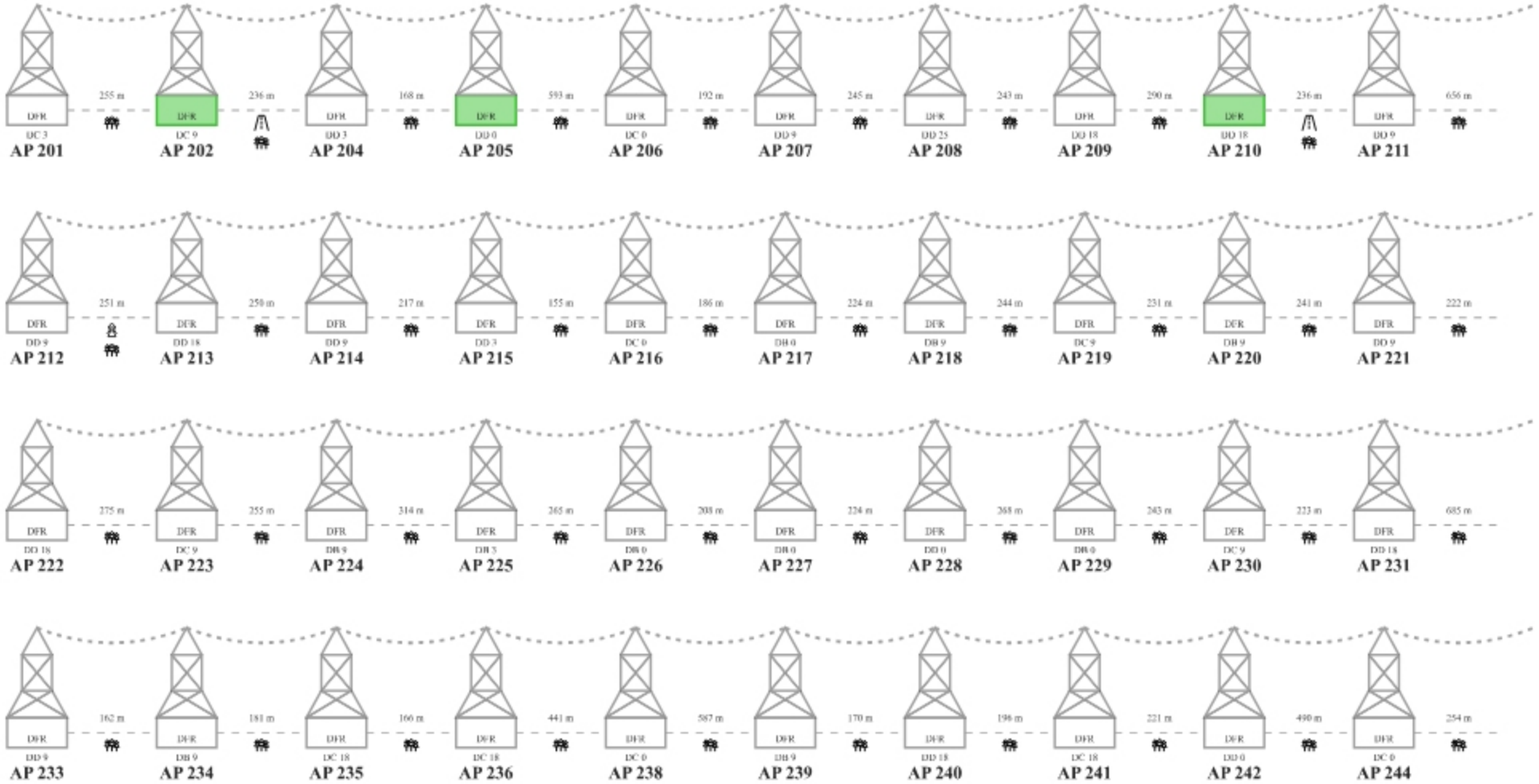
LARSEN And TOUBRO LIMITED

Page 5 / 8 (Locations: AP 201 to AP 244)

Progress data as on Tuesday, June 9, 2026

LEGEND

Crossings		Status	
	Road Crossing		Completed
	Rail Crossing		In Progress
	River Crossing		Right of Way
	Powerline Crossing		Earthing Done
	Forest Crossing		



PROGRESS

Foundation	54 / 310
Erection	24 / 310
Earthing	0 / 310
Stringing	0.000 km / 94.473 km

132kV S/C Along - Yingkiong line

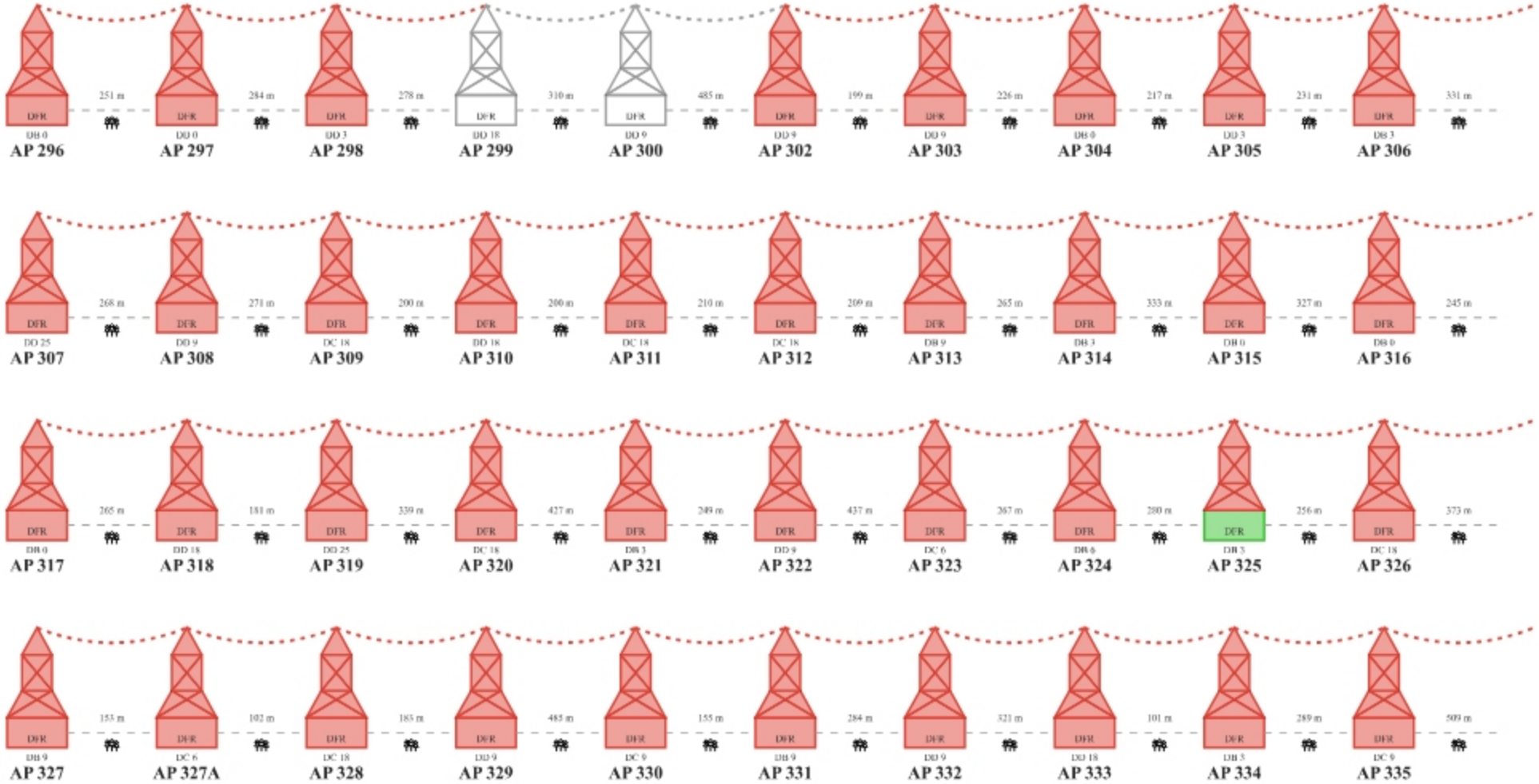
LARSEN And TOUBRO LIMITED

Page 7 / 8 (Locations: AP 296 to AP 335)

Progress data as on Tuesday, June 9, 2026

LEGEND

Crossings		Status	
	Road Crossing		Completed
	Rail Crossing		In Progress
	River Crossing		Right of Way
	Powerline Crossing		Earthing Done
	Forest Crossing		



PROGRESS

Foundation	54 / 310
Erection	24 / 310
Earthing	0 / 310
Stringing	0.000 km / 94.473 km

132kV S/C Along - Yingkiong line

LARSEN And TOUBRO LIMITED

Page 8 / 8 (Locations: AP 337 to AP 368)

Progress data as on Tuesday, June 9, 2026

LEGEND

Crossings		Status	
	Road Crossing		Completed
	Rail Crossing		In Progress
	River Crossing		Right of Way
	Powerline Crossing		Earthing Done
	Forest Crossing		

