

PROJECT :- 132kV DC DAPORJIO-NACHO TRANSMISSION LINE
CLIENT:- POWER GRID CORPORATION OF INDIA LIMITED
CONTRACTOR:- TATA PROJECTS LIMITED,NOIDA
DETAIL SURVEY PROFILE GN (DAPO) - AP145 (NACHO) (73.186 Km)

DATED - 28.09.2024

SL NO	TOWER NO	TYPE OF TOWER	ANGLE OF DEVIATION	BODY EXTENSION	COMBINATION FROM (BB+0M.)	DETAILS OF LEG EXTN.				DETAILS OF CHIMNEY EXTN.				SPAN IN (M)	SEC. LENG.	CUMLTV. LENGTH	R.L	C.P.D./C .P.U.	LEVEL DIFF.	INCLIND SPAN	WIND SPAN	SUM ADJ.SN SPAN	WEIGHT SPAN IN (HOT)			WEIGHT SPAN IN (COLD)		
						A	B	C	D	A	B	C	D										LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL
	GANTRY	BAY												0	0	192.658	0			22	45	0	-41	-41	0	-111	-111	
1	AP1	DD+4.5	04°26'02"RT	4.5	NT	4.5	4.5	4.5	4.5	0.0	0.0	0.0	0.0	45	45	192.354	0	8.51	45.52	108	216	88	123	211	158	172	330	
2	AP2	DBN+0	05°24'40"LT	0	BB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	171	216	192.435	0	-4.42	171.54	233	467	48	123	171	0	105	105	
3	AP3	DD+4.5	54°28'50"RT	4.5	NT	4.5	4.5	4.5	4.5	0.0	0.0	0.0	0.0	295	511	192.312	0	4.38	295.11	285	569	175	-506	-331	193	-1026	-833	
4	AP4	DD+4.5	07°21'29"LT	4.5	NT	6.0	4.5	1.5	7.5	0.0	0.0	0.0	1.5	274	785	309.089	0	116.78	297.89	208	416	806	-505	301	1326	-1505	-179	
5	AP4A	DC+6	11°57'07"RT	6	NT	9.0	6.0	6.0	9.0	1.5	0.0	0.0	0.0	142	927	379.728	0	72.14	159.04	145	291	664	-402	262	1664	-1154	510	
6	AP5	DC+3	27°03'27"RT	3	NT	4.5	3.0	3.0	3.0	0.0	0.0	0.0	0.0	149	1076	440.823	0	58.10	159.98	204	409	563	505	1068	1315	812	2127	
7	AP6	DD+0	29°19'18"RT	0	BB	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	260	1336	384.569	0	-69.25	266.49	418	835	-236	185	-51	-543	176	-367	
8	AP7	DD+0	26°13'27"RT	0	BB	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0	575	1911	433.411	0	48.84	577.37	413	825	400	-109	291	409	-315	94	
9	AP8	DD+6	23°53'02"RT	6	NT	6.0	9.0	9.0	6.0	0.0	0.0	0.0	0.0	250	2161	463.691	0	36.28	252.67	526	1052	365	676	1041	570	684	1254	
10	AP9	DD+6	21°16'36"LT	6	NT	7.5	9.0	6.0	6.0	0.0	0.0	0.0	0.0	802	2964	293.026	0	-170.67	820.32	517	1033	160	565	725	151	998	1149	
11	AP10	DD+0	33°50'06"RT	0	BB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	231	3195	232.189	0	-66.84	240.52	276	553	-323	212	-111	-757	243	-514	
12	AP10A	DC+9	15°50'22"RT	9	NT	9.0	9.0	9.0	9.0	0.0	0.0	0.0	0.0	321	3516	214.199	0	-8.99	321.60	335	669	112	213	325	81	232	313	
13	AP11	DD+0	10°06'58"RT	0	BB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	348	3864	215.549	0	-7.65	347.69	291	582	136	-327	-191	117	-757	-640	
14	AP12	DD+0	07°57'38"RT	0	BB	0.0	0.0	1.5	1.5	0.0	0.0	0.0	0.0	234	4098	283.843	0	68.29	244.20	236	472	572	-362	210	1002	-822	180	
15	AP13	DD+0	32°23'54"RT	0	BB	1.5	1.5	0.0	0.0	3.0	0.0	0.0	0.0	238	4336	359.576	0	75.73	249.31	271	542	614	-495	119	1073	-946	127	
16	AP14	DD+6	01°02'26"LT	6	NT	9.0	7.5	6.0	6.0	0.0	0.0	0.0	0.0	304	4640	478.646	0	125.07	328.71	266	531	826	548	1374	1276	827	2103	
17	AP14A	DBN+0	06°52'59"RT	0	BB	0.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	227	4867	396.083	0	-88.56	243.93	263	526	-303	501	198	-583	619	36	
18	AP14B	DC+6	17°28'53"LT	6	NT	6.0	7.5	9.0	6.0	0.0	0.0	1.5	0.0	299	5166	301.014	0	-89.07	311.76	445	890	-189	88	-101	-308	76	-232	
19	AP15	DD+0	01°22'04"RT	0	BB	1.5	0.0	0.0	1.5	1.5	0.0	3.0	0.0	591	5757	423.961	0	116.95	602.81	359	718	521	-266	255	533	-847	-314	
20	AP15A	DD+0	33°20'35"LT	0	BB	1.5	0.0	1.5	1.5	0.0	0.0	0.0	1.5	127	5884	458.133	0	34.17	131.57	175	350	396	-409	-13	977	-958	19	
21	AP16	DD+0	00°28'06"RT	0	BB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	223	6108	537.214	0	79.08	236.96	251	503	645	474	1119	1193	726	1919	
22	AP16A	DBN+0	00°13'43"LT	0	BB	1.5	1.5	0.0	0.0	0.0	1.5	0.0	0.0	279	6387	482.326	0	-54.89	284.62	345	690	-189	90	-99	-441	59	-382	
23	AP17	DBN+3	09°47'58"LT	3	NT	4.5	4.5	3.0	3.0	0.0	0.0	0.0	0.0	411	6798	511.019	0	31.69	412.03	412	823	323	16	339	353	-36	317	
														412				51.82	415.55									

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						A	B	C	D	A	B	C	D										LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL
24	AP17A	DC+0	15°48'19"RT	0	BB	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0	412	7210	565.841	0			361	723	401	-40	361	453	-168	285	
25	AP18	DD+3	25°27'46"RT	3	NT	6.0	4.5	3.0	3.0	0.0	0.0	0.0	0.0	310	310	597.497	0	34.66	312.20	422	845	354	262	616	483	261	744	
26	AP18A	DBN+0	03°05'38"LT	0	BB	1.5	1.5	0.0	1.5	0.0	0.0	0.0	0.0	534	8054	603.501	0	3.00	534.24	458	915	277	128	405	277	106	383	
27	AP19	DBN+7.5	10°23'41"LT	7.5	NT	9.0	9.0	7.5	9.0	1.5	1.5	0.0	0.0	381	8435	610.969	0	14.97	381.25	345	689	253	177	430	275	192	467	
28	AP20	DBN+3	04°27'28"RT	3	NT	6.0	3.0	3.0	4.5	1.5	0.0	0.0	0.0	308	8744	611.578	0	-3.89	308.45	334	869	132	526	658	117	683	800	
29	AP21	DD+9	08°30'51"RT	9	NT	9.0	9.0	9.0	9.0	0.0	1.5	1.5	0.0	361	9104	532.607	0	-72.97	367.83	598	1195	-157	497	340	-314	498	184	
30	AP22	DD+6	25°11'23"LT	6	NT	7.5	6.0	6.0	7.5	0.0	0.0	0.0	0.0	835	9939	486.866	0	-48.74	836.22	514	1029	357	-322	35	354	-829	-475	
31	AP23	DC+3	06°04'19"RT	3	NT	6.0	3.0	3.0	6.0	0.0	0.0	0.0	1.5	194	10133	546.805	0	56.94	202.15	222	443	524	-310	214	1030	-701	329	
32	AP24	DBN+6	01°03'26"LT	6	NT	6.0	7.5	7.5	9.0	0.0	0.0	0.0	1.5	249	10382	612.837	0	69.03	258.55	312	625	569	-168	401	960	-314	646	
33	AP25	DBN+6	04°22'17"RT	6	NT	7.5	9.0	6.0	6.0	0.0	0.0	0.0	0.0	375	10758	695.428	0	82.59	384.33	431	862	554	62	616	699	35	734	
34	AP26	DBN+4.5	02°46'47"RT	4.5	NT	6.0	7.5	4.5	4.5	0.0	0.0	0.0	0.0	487	11245	762.357	0	65.43	491.51	315	630	432	61	493	459	45	504	
35	AP27	DBN+0	13°22'24"RT	0	BB	1.5	1.5	0.0	0.0	1.5	0.0	0.0	0.0	143	11388	767.975	0	1.12	143.22	175	351	82	305	387	98	520	618	
36	AP27A	DC+6	06°45'16"RT	6	NT	9.0	9.0	7.5	6.0	0.0	0.0	0.0	0.0	207	11595	735.057	0	-26.92	209.07	287	573	-95	838	743	-310	1164	854	
37	AP28	DBN+3	05°23'30"LT	3	NT	3.0	6.0	3.0	3.0	0.0	0.0	0.0	0.0	366	11961	601.368	0	-136.69	390.47	377	754	-447	563	116	-773	693	-80	
38	AP29	DBN+0	04°25'37"RT	0	BB	1.5	1.5	1.5	0.0	0.0	1.5	1.5	0.0	388	12228	516.598	0	-87.77	398.08	342	683	-164	504	340	-295	757	462	
39	AP30	DD+3_220kV	43°34'18"LT	3	NT	6.0	4.5	6.0	6.0	3.0	0.0	1.5	0.0	295	12844	447.546	0	-66.05	302.03	559	1117	-205	272	67	-458	266	-192	
40	AP31	DD+3_220kV	25°47'20"RT	3	NT	4.5	6.0	3.0	6.0	0.0	0.0	0.0	1.5	822	13466	551.078	0	103.53	828.83	584	1169	574	112	686	578	82	660	
41	AP32	DC+1.5	26°36'10"LT	1.5	NT	1.5	1.5	1.5	1.5	3.0	1.5	3.0	0.0	346	13813	570.409	0	17.83	346.85	326	651	235	546	781	266	811	1077	
42	AP33	DC+3	14°44'49"LT	3	NT	3.0	4.5	6.0	6.0	0.0	0.0	0.0	0.0	305	14118	500	0	-68.91	312.39	255	510	-235	701	466	-500	1378	878	
43	AP34	DD+0_220kV	14°03'34"RT	0	BB	1.5	3.0	1.5	1.5	0.0	0.0	0.0	0.0	206	14323	410.786	0	-92.21	225.42	555	1110	-478	407	-71	-1154	405	-749	
44	AP35	DD+0_220kV	13°52'48"LT	0	BB	3.0	0.0	0.0	3.0	1.5	0.0	0.0	0.0	905	15228	455.01	0	44.22	905.81	577	1154	523	-612	-89	524	-1302	-778	
45	AP36	DD+3	40°17'16"RT	3	NT	6.0	4.5	3.0	3.0	4.5	0.0	0.0	0.0	250	15478	590.675	0	138.67	285.51	311	622	896	-578	318	1586	-963	623	
46	AP37	DD+6_220kV	03°21'08"LT	6	NT	7.5	7.5	7.5	6.0	0.0	0.0	0.0	0.0	372	15850	759.458	0	171.78	410.19	369	738	992	1030	2022	1378	1455	2833	
47	AP37A	DBN+3	11°01'08"LT	3	NT	3.0	4.5	4.5	3.0	0.0	0.0	0.0	0.0	365	16215	582.103	0	-180.36	407.33	397	794	-620	528	-92	-1045	602	-443	
48	AP38	DD+3	07°42'31"RT	3	NT	6.0	6.0	6.0	3.0	1.5	1.5	1.5	0.0	429	16644	493.863	0	-88.24	438.06	522	1045	-88	103	15	-163	88	-75	
49	AP39	DC+4.5	12°47'36"RT	4.5	NT	7.5	4.5	4.5	7.5	1.5	0.0	0.0	0.0	616	17260	596.103	0	103.74	624.44	406	812	529	-619	-90	543	-1542	-999	
50	AP40	DC+0	03°28'28"LT	0	BB	1.5	0.0	0.0	1.5	1.5	0.0	0.0	0.0	196	17457	713.796	0	113.19	226.75	210	419	846	139	985	1769	167	1936	

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						A	B	C	D	A	B	C	D										LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL
51	AP41	DC+0	16°10'04"RT	0	BB	1.5	0.0	1.5	0.0	0.0	0.0	0.0	0.0	223	17679	709.966	0			377	754	84	296	380	57	300	357	
52	AP41A	DBN+9	14°26'06"RT	9	NT	9.0	9.0	9.0	9.0	4.5	3.0	0.0	0.0	531	18211	691.085	0	-9.88	531.50	329	659	239	76	315	234	96	330	
53	AP42	DD+6_220 KV	12°34'57"LT	6	NT	9.0	9.0	6.0	6.0	3.0	3.0	0.0	0.0	127	18338	692.885	0	-1.20	127.46	249	498	52	1442	1494	31	2041	2072	
54	AP43	DD+9_220 KV	09°44'12"RT	9	NT	9.0	9.0	9.0	9.0	6.0	6.0	0.0	0.0	370	18708	352.91	0	-336.98	500.58	359	719	-941	724	-217	-1541	1021	-520	
55	AP43A	DC+9	03°09'07"RT	9	NT	9.0	9.0	9.0	9.0	1.5	3.0	0.0	0.0	349	19057	244.498	0	-108.41	365.24	490	981	-358	311	-47	-655	309	-346	
56	AP44	DC+3	12°21'44"LT	3	NT	6.0	4.5	3.0	3.0	0.0	0.0	0.0	0.0	632	19689	253.618	0	3.12	631.73	399	799	326	-210	116	326	-613	-287	
57	AP45	DC+9	10°40'07"LT	9	NT	9.0	9.0	9.0	9.0	6.0	1.5	0.0	0.0	167	19856	282.963	0	35.35	170.96	445	890	380	-349	31	783	-417	366	
58	AP46	DC+9	05°10'22"RT	9	NT	9.0	9.0	9.0	9.0	6.0	3.0	0.0	0.0	723	20579	642.866	0	359.90	807.21	464	928	1163	-329	834	1230	-814	416	
59	AP47	DC+4.5	24°09'12"RT	4.5	NT	7.5	6.0	4.5	6.0	1.5	0.0	0.0	0.0	206	20785	708.721	0	61.36	214.82	200	400	545	-349	196	1030	-884	146	
60	AP48	DD+4.5	17°52'53"RT	4.5	NT	7.5	7.5	4.5	4.5	1.5	1.5	0.0	0.0	194	20978	770.304	0	61.58	203.40	494	988	558	44	602	1098	28	1126	
61	AP49	DD+6_220KV	17°25'06"RT	6	NT	6.0	9.0	9.0	6.0	0.0	1.5	1.5	0.0	794	21772	1000.617	0	231.81	826.90	451	902	798	456	1254	813	1032	1845	
62	AP49A	DD+9	32°25'37"LT	9	NT	9.0	9.0	9.0	9.0	0.0	6.0	6.0	0.0	109	21881	921.508	0	-76.11	132.62	215	431	-321	638	317	-900	699	-201	
63	AP50	DD+0	29°25'32"LT	0	BB	0.0	1.5	1.5	0.0	0.0	0.0	1.5	0.0	322	22203	740.158	0	-190.35	374.23	350	700	-264	473	209	-326	520	194	
64	AP51	DBN+3	02°43'10"RT	3	NT	3.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	378	22581	642.916	0	-94.24	389.77	290	580	-83	346	263	-130	579	449	
65	AP51A	DBN+0	07°40'40"RT	0	BB	0.0	1.5	1.5	0.0	0.0	1.5	0.0	0.0	202	22783	606.288	0	-39.63	206.00	249	499	-140	458	318	-373	562	189	
66	AP52	DC+3	10°09'08"RT	3	NT	3.0	4.5	6.0	3.0	0.0	0.0	3.0	0.0	296	23080	525.704	0	-77.58	306.34	509	1019	-150	407	257	-255	408	153	
67	AP53	DD+3	05°00'36"LT	3	NT	6.0	6.0	3.0	3.0	1.5	3.0	0.0	0.0	722	23802	500.47	0	-25.23	722.73	703	1405	330	442	772	328	445	773	
68	AP54	DC+3	06°14'43"LT	3	NT	3.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	683	24485	442.89	0	-57.58	685.47	598	1197	255	223	478	250	220	470	
69	AP55	DC+4.5	19°14'35"LT	4.5	NT	4.5	4.5	6.0	7.5	0.0	0.0	0.0	0.0	514	24999	457.915	0	16.53	514.08	464	928	295	-117	178	297	-163	134	
70	AP56	DC+0	17°45'01"RT	0	BB	1.5	0.0	0.0	1.5	1.5	0.0	0.0	1.5	414	25413	588.074	0	125.66	432.61	404	808	552	370	922	598	395	993	
71	AP57	DC+0	08°40'43"RT	0	BB	1.5	1.5	0.0	0.0	1.5	1.5	0.0	0.0	394	25807	528.488	0	-69.59	398.78	463	926	32	200	232	6	195	201	
72	AP58	DC+0	21°58'39"LT	0	BB	1.5	0.0	1.5	1.5	0.0	0.0	1.5	0.0	532	26339	562.265	0	33.78	532.93	453	905	338	504	842	342	558	900	
73	AP59	DD+0_220kV	13°18'50"RT	0	BB	3.0	3.0	0.0	0.0	4.5	6.0	0.0	0.0	373	26712	452.89	0	-109.38	388.90	650	1300	-115	237	122	-169	230	61	
74	AP60	DD+0_220kV	02°30'00"RT	0	BB	3.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	927	27639	644.741	0	191.85	946.25	556	1112	736	280	1016	741	507	1248	
75	AP61	DC+0	23°42'49"LT	0	BB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	186	27824	626.725	0	-18.02	186.57	190	380	-93	259	166	-321	443	122	
76	AP62	DD+3	32°27'10"RT	3	NT	6.0	6.0	6.0	3.0	0.0	0.0	0.0	0.0	195	28019	603.021	0	-20.70	195.84	232	464	-62	402	340	-246	612	366	
														770				-42.62	272.93									

SL NO	TOWER NO	TYPE OF TOWER	ANGLE OF DEVIATION	BODY EXTENTI ON	COMBIN ATION FROM (BB+0M.)	DETAILS OF LEG EXTN.				DETAILS OF CHIMNEY EXTN.				SPAN IN (M)	SEC. LENG.	CUM.LTV. LENGTH	R.L	C.P.D./C .P.U.	LEVEL DIFF.	INCLIND SPAN	WIND SPAN	SUM ADJSN SPAN	WEIGHT SPAN IN (HOT)			WEIGHT SPAN IN (COLD)		
						A	B	C	D	A	B	C	D										LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL
77	AP62A	DC+0	18°02'19"LT	0	BB	0.0	1.5	0.0	0.0	0.0	3.0	0.0	0.0	270	28289	563.497	0			259	518	-128	435	307	-338	710	372	
78	AP63	DBN+1.5	04°48'26"LT	1.5	NT	1.5	1.5	1.5	1.5	0.0	3.0	0.0	0.0	248	28537	514.809	0	-47.19	252.74	380	760	-183	294	111	-458	300	-158	
79	AP64	DBN+9	09°19'03"LT	9	NT	9.0	9.0	9.0	9.0	1.5	1.5	3.0	0.0	511	29048	495.149	0	-12.16	511.56	418	837	220	244	464	213	294	507	
80	AP64A	DBN+0	04°40'12"RT	0	BB	1.5	1.5	1.5	0.0	0.0	3.0	0.0	0.0	325	29374	489.547	0	-14.60	325.46	299	598	82	149	231	32	158	190	
81	AP65	DBN+9	09°38'53"RT	9	NT	9.0	9.0	9.0	9.0	3.0	3.0	3.0	0.0	273	29647	478.648	0	-1.90	273.38	241	481	125	373	498	116	663	779	
82	AP66	DBN+9	00°45'22"LT	9	NT	9.0	9.0	9.0	9.0	0.0	1.5	1.5	0.0	208	29855	442.229	0	-36.42	211.26	408	817	-161	-280	-441	-451	-357	-808	
83	AP67	DD+9	25°54'48"LT	9	NT	9.0	9.0	9.0	9.0	6.0	0.0	0.0	6.0	609	30464	682.536	0	240.31	654.50	355	710	937	-192	745	1013	-690	323	
84	AP67A	DBN+0	02°09'53"LT	0	BB	0.0	0.0	1.5	1.5	0.0	0.0	0.0	0.0	101	30565	713.123	0	21.59	103.70	344	689	294	159	453	792	154	946	
85	AP67B	DC+0	16°13'33"RT	0	BB	1.5	0.0	1.5	1.5	0.0	0.0	0.0	0.0	587	31152	805.513	0	92.39	594.34	367	734	446	-358	88	451	-1018	-567	
86	AP68	DBN+0	2°45'26"RT	0	BB	1.5	0.0	1.5	1.5	4.5	0.0	4.5	4.5	147	31300	871.366	0	65.85	161.27	263	526	520	-361	159	1180	-446	734	
87	AP68A	DC+1.5	22°34'08" LT	1.5	NT	1.5	1.5	1.5	1.5	3.0	0.0	3.0	1.5	379	31679	1118.569	0	248.70	453.22	407	814	816	-65	751	900	-89	811	
88	AP69	DBN+1.5	03°48'15"RT	1.5	NT	1.5	1.5	1.5	1.5	0.0	3.0	3.0	0.0	435	32113	1259.787	0	141.22	457.29	315	630	526	518	1044	549	833	1382	
89	AP70	DBN+0	11°23'58"LT	0	BB	0.0	1.5	1.5	0.0	0.0	1.5	0.0	0.0	195	32308	1176.972	0	-84.32	212.23	197	395	-306	498	192	-621	776	155	
90	AP71	DBN+0	09°10'20"RT	0	BB	0.0	1.5	0.0	0.0	0.0	1.5	0.0	0.0	200	32508	1096.039	0	-80.93	215.77	351	701	-282	326	44	-560	329	-231	
91	AP72	DC+0	12°10'08"RT	0	BB	0.0	1.5	1.5	0.0	0.0	0.0	3.0	0.0	501	33009	1056.738	0	-39.30	502.62	333	666	185	324	509	181	587	768	
92	AP73	DD+6	00°13'06"RT	6	NT	6.0	9.0	9.0	6.0	0.0	3.0	0.0	0.0	165	33174	1011.47	0	-39.27	169.17	457	913	-154	246	92	-418	240	-178	
93	AP74	DD+0_220kV	12°22'33"LT	0	BB	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	749	33922	1096.013	0	78.54	752.74	751	1501	519	308	827	524	305	829	
94	AP75	DC+0	10°34'38" LT	0	BB	1.5	1.5	1.5	0.0	0.0	1.5	0.0	0.0	752	34675	1158.425	0	62.41	755.01	436	872	464	177	641	466	386	852	
95	AP76	DBN+0	14°15'42" LT	0	BB	0.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	120	34794	1147.207	0	-11.22	120.11	190	380	-58	349	291	-267	413	146	
96	AP77	DD+0	33°11'17"RT	0	BB	1.5	1.5	0.0	0.0	1.5	0.0	0.0	0.0	260	35055	1089.097	0	-58.11	266.47	291	581	-81	579	498	-145	704	559	
97	AP78	DBN+9	08°41'39"LT	9	NT	9.0	9.0	9.0	9.0	0.0	1.5	4.5	0.0	321	35376	968.633	0	-111.46	340.05	309	618	-237	705	468	-362	954	592	
98	AP79	DC+9	15°54'33"RT	9	NT	9.0	9.0	9.0	9.0	0.0	4.5	4.5	0.0	297	35672	839.016	0	-129.62	323.68	421	842	-380	569	189	-630	588	-42	
99	AP80	DC+0	18°33'34" LT	0	BB	0.0	0.0	1.5	1.5	0.0	0.0	3.0	1.5	545	36217	704.848	0	-143.17	563.54	355	710	0	474	474	-19	1013	994	
100	AP81	DD+7.5	34°50'56" RT	7.5	NT	7.5	9.0	9.0	7.5	0.0	1.5	1.5	0.0	165	36382	649.893	0	-47.45	171.57	271	543	-301	535	234	-840	680	-160	
101	AP82	DD+7.5	38°22'36" LT	7.5	NT	7.5	7.5	9.0	9.0	0.0	0.0	3.0	1.5	378	36760	574.146	0	-75.75	385.61	262	524	-149	426	277	-294	895	601	
102	AP83	DD+0_220kV	35°48'45" RT	0	BB	0.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	146	36907	520.536	0	-61.11	158.32	536	1072	-269	147	-122	-738	137	-601	
														926				267.04	964.02									

SL NO	TOWER NO	TYPE OF TOWER	ANGLE OF DEVIATION	BODY EXTENTI ON	COMBIN ATION FROM (BB+OM.)	DETAILS OF LEG EXTN.				DETAILS OF CHIMNEY EXTN.				SPAN IN (M)	SEC. LENG.	CUMLT.V. LENGTH	R.L	C.P.D./C .P.U.	LEVEL DIFF.	INCLIND SPAN	WIND SPAN	SUM ADJSN SPAN	WEIGHT SPAN IN (HOT)			WEIGHT SPAN IN (COLD)		
						A	B	C	D	A	B	C	D										LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL
103	AP84	DD+6_220KV	04°29'11" RT	6	NT	9.0	9.0	6.0	6.0	6.0	3.0	0.0	0.0	425	926	37833	781.574	0	225.47	481.17	676	1351	844	-626	218	852	-963	-111
104	AP85	DC+9	09°16'10" LT	9	NT	9.0	9.0	9.0	9.0	0.0	0.0	0.0	0.0	304	425	38258	1004.041	0	163.38	345.08	365	729	1105	-644	461	1442	-1215	227
105	AP86	DD+6	05°34'00" LT	6	NT	9.0	9.0	6.0	6.0	0.0	0.0	0.0	0.0	556	304	38562	1170.42	0	-26.84	556.85	430	860	989	354	1343	1560	364	1924
106	AP87	DC+0	15°45'05" LT	0	BB	1.5	1.5	0.0	0.0	1.5	3.0	0.0	0.0	406	556	39118	1149.577	0	2.63	405.58	481	962	205	192	397	195	189	384
107	AP88	DBN+1.5	00°05'04" LT	1.5	NT	1.5	1.5	1.5	1.5	3.0	3.0	0.0	0.0	230	406	39524	1150.709	0	6.87	229.98	318	635	214	67	281	217	20	237
108	AP88A	DBN+3	10°42'14" RT	3	NT	6.0	6.0	3.0	3.0	0.0	0.0	0.0	0.0	182	230	39753	1156.074	0	-26.80	183.75	206	412	164	307	471	210	573	783
109	AP89	DBN+6	04°26'58" RT	6	NT	6.0	9.0	7.5	6.0	0.0	0.0	0.0	0.0	328	182	39935	1126.27	0	-81.23	338.32	255	510	-123	602	479	-389	863	474
110	AP90	DBN+6	03°57'42" RT	6	NT	6.0	6.0	9.0	6.0	0.0	0.0	0.0	0.0	283	328	40264	1045.041	0	-102.98	300.72	305	611	-263	734	471	-524	1176	652
111	AP91	DBN+9	12°01'29" RT	6	NT	9.0	9.0	9.0	9.0	0.0	1.5	3.0	0.0	256	283	40546	942.058	0	-108.41	278.00	269	539	-432	781	349	-875	1344	469
112	AP91A	DBN+9	11°32'00" LT	9	NT	9.0	9.0	9.0	9.0	1.5	4.5	3.0	0.0	335	256	40802	830.65	0	-142.39	363.98	295	591	-502	861	359	-1066	1266	200
113	AP93	DD+6_220KV	25°55'33" LT	6	NT	6.0	9.0	9.0	6.0	0.0	3.0	0.0	0.0	811	335	41137	691.264	0	52.85	812.72	573	1146	-500	333	-167	-906	329	-577
114	AP94	DD+3_220KV	25°06'37" LT	3	NT	3.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	332	811	41948	747.115	0	22.33	332.26	571	1143	493	79	572	495	32	527
115	AP95	DBN+3	10°55'02" RT	3	NT	6.0	4.5	3.0	3.0	0.0	0.0	0.0	0.0	264	332	42280	769.446	0	3.34	263.91	298	595	252	111	363	299	93	392
116	AP96	DC+3	11°28'03" RT	3	BB	6.0	6.0	3.0	3.0	3.0	0.0	0.0	0.0	700	264	42544	772.788	0	-84.14	705.31	482	964	154	523	677	171	532	703
117	AP97	DC+0	11°11'02" LT	0	BB	1.5	1.5	0.0	0.0	1.5	3.0	0.0	0.0	260	700	43244	691.646	0	52.11	265.49	480	961	191	-195	-4	180	-468	-288
118	AP98	DD+1.5	34°07'10" RT	1.5	NT	1.5	1.5	1.5	1.5	1.5	3.0	0.0	0.0	332	260	43504	742.26	0	-34.65	334.00	296	593	462	282	744	735	305	1040
119	AP99	DBN+0	5°37'04" RT	0	BB	1.5	0.0	0.0	0.0	1.5	0.0	0.0	0.0	415	332	43836	709.109	0	22.52	415.54	374	747	55	149	204	32	142	174
120	AP99A	DC+9	22°56'37" LT	9	NT	9.0	9.0	9.0	9.0	4.5	6.0	0.0	0.0	187	415	44251	722.632	0	37.73	190.52	301	602	268	-162	106	275	-453	-178
121	AP100	DC+3	23°15'04" RT	3	NT	6.0	6.0	3.0	3.0	0.0	4.5	0.0	0.0	148	187	44438	766.36	0	-8.52	148.02	167	335	352	153	505	644	269	913
122	AP100A	DBN+9	6°45'10" LT	9	NT	9.0	9.0	9.0	9.0	6.0	6.0	0.0	0.0	310	148	44586	751.843	0	36.31	312.21	229	458	-4	25	21	-120	-9	-129
123	AP101	DC+3	17°18'11" LT	3	NT	6.0	6.0	3.0	3.0	0.0	0.0	0.0	0.0	386	310	44896	794.154	0	81.98	394.97	348	696	287	-29	258	321	-62	259
124	AP102	DD+3	39°35'08" RT	3	NT	6.0	6.0	3.0	3.0	3.0	3.0	0.0	0.0	118	386	45282	876.137	0	-33.98	122.50	252	504	427	326	753	460	820	1280
125	AP103	DD+3_220KV	21°07'59" LT	3	NT	3.0	6.0	6.0	3.0	0.0	1.5	1.5	0.0	872	118	45400	842.16	0	-282.46	916.84	495	990	-204	857	653	-698	868	170
126	AP103A	DD+9_220KV	43°18'43" LT	9	NT	9.0	9.0	9.0	9.0	4.5	0.0	0.0	4.5	254	872	46272	553.705	0	83.34	267.53	563	1126	76	-356	-280	63	-787	-724
127	AP104	DBN+9	5°27'33" RT	9	NT	9.0	9.0	9.0	9.0	0.0	0.0	1.5	4.5	600	254	46526	637.046	0	88.73	606.87	427	855	620	118	738	1051	104	1155
128	AP105	DC+3	12°09'32" RT	3	NT	4.5	4.5	3.0	3.0	0.0	0.0	0.0	0.0	186	600	47127	731.78	0	-17.91	187.21	393	787	495	237	732	509	406	915

SL NO	TOWER NO	TYPE OF TOWER	ANGLE OF DEVIATION	BODY EXTENSION	COMBINATION FROM (BB+OM.)	DETAILS OF LEG EXTN.				DETAILS OF CHIMNEY EXTN.				SPAN IN (M)	SEC. LENG.	CUMULV. LENGTH	R.L	C.P.D./C.P.U.	LEVEL DIFF.	INCLIND SPAN	WIND SPAN	SUM ADJSN SPAN	WEIGHT SPAN IN (HOT)			WEIGHT SPAN IN (COLD)		
						A	B	C	D	A	B	C	D										LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL
129	AP106	DD+0	46°17'28" RT	0	BB	1.5	1.5	1.5	0.0	0.0	1.5	1.5	0.0	0.0	186	47313	716.867	0		442	884	-47	405	358	-216	407	191	
130	AP107	DD+9	31°13'11" LT	9	NT	9.0	9.0	9.0	9.0	4.5	4.5	0.0	0.0	697	697	48010	678.846	0	-29.02	697.79	540	1080	303	580	883	300	728	1028
131	AP107A	DBN+0	1°49'06" LT	0	BB	1.5	1.5	0.0	0.0	1.5	0.0	0.0	0.0	382	48393	598.177	0	-89.67	392.80	330	661	-188	174	-14	-337	200	-137	
132	AP108	DC+9	6°42'57" RT	9	NT	9.0	9.0	9.0	9.0	4.5	0.0	0.0	0.0	278	48671	583.638	0	-5.54	278.54	522	1044	105	291	396	79	287	366	
133	AP109	DC+3	13°58'11" LT	3	BB	6.0	6.0	3.0	3.0	0.0	0.0	0.0	0.0	766	49437	652.501	0	62.86	768.25	504	1008	491	-125	366	494	-351	143	
134	AP109A	DBN+9	5°08'06" LT	9	NT	9.0	9.0	9.0	9.0	4.5	4.5	0.0	0.0	242	49679	683.258	0	36.76	244.71	246	492	369	-140	229	595	-374	221	
135	AP110	DC+9	27°24'14" LT	9	NT	9.0	9.0	9.0	9.0	4.5	3.0	0.0	0.0	250	49929	723.779	0	40.52	253.44	275	550	392	365	757	627	510	1137	
136	AP111	DD+0_220kV	51°23'53" RT	0	BB	3	3	0	0	1.5	1.5	0	0	300	50229	690.738	0	-42.04	303.20	471	943	-60	532	472	-205	550	345	
137	AP112	DC+0	7°03'23" RT	0	BB	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0	643	50872	609.295	0	-81.44	647.68	401	802	125	-275	-150	106	-789	-683	
138	AP112A	DBN+0	2°53'20" LT	0	BB	1.5	1.5	0.0	0.0	1.5	0.0	0.0	0.0	159	51031	651.702	0	42.41	164.58	141	281	440	-156	284	954	-540	414	
139	AP112B	DBN+9	2°56'53" RT	9	NT	9.0	9.0	9.0	9.0	4.5	4.5	0.0	0.0	122	51153	664.264	0	21.56	123.98	283	567	280	168	448	664	157	821	
140	AP113	DBN+9	1°14'05" LT	9	NT	9.0	9.0	9.0	9.0	1.5	3.0	0.0	0.0	445	51598	681.208	0	16.94	445.23	369	737	279	377	656	289	540	829	
141	AP113A	DC+9	21°24'43" RT	9	NT	9.0	9.0	9.0	9.0	3.0	3.0	0.0	0.0	292	51890	642.499	0	-38.71	294.67	382	763	-81	342	261	-244	358	114	
142	AP114	DD+9	35°20'31" LT	9	NT	9.0	9.0	9.0	9.0	3.0	0.0	0.0	1.5	471	52361	606.917	0	-35.58	472.50	383	765	132	-167	-35	115	-392	-277	
143	AP115	DC+0	21°51'45" RT	0	BB	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	294	52655	669.83	0	53.91	298.94	254	509	465	-185	280	690	-495	195	
144	AP116	DD+3	31°12'32" LT	3	BB	6.0	6.0	3.0	3.0	1.5	0.0	0.0	0.0	215	52870	707.792	0	40.96	218.59	524	1048	403	324	727	713	321	1034	
145	AP117	DD+0_220kV	47°44'31" LT	0	BB	3.0	3.0	0.0	3.0	3.0	3.0	3.0	1.5	833	53703	775.366	0	64.57	835.80	512	1025	526	-2	524	528	-117	411	
146	AP117A	DBN+0	6°32'05" LT	0	BB	1.5	1.5	0	1.5	1.5	0.0	0.0	0.0	191	53895	792.775	0	17.41	192.27	283	566	191	-289	-98	305	-498	-193	
147	AP117B	DBN+4.5	0°26'39" RT	4.5	NT	7.5	7.5	4.5	4.5	0.0	0.0	0.0	0.0	375	54270	897.157	0	108.88	390.37	392	783	680	-131	549	889	-232	657	
148	AP117C	DBN+0	2°27'54" RT	0	BB	1.5	1.5	0.0	0.0	1.5	0.0	0.0	0.0	408	54678	991.393	0	89.74	418.16	342	684	551	-74	477	651	-240	411	
149	AP118	DBN+3	7°49'34" LT	3	NT	3.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	276	54954	1022.831	0	34.44	277.74	246	492	352	256	608	517	408	925	
150	AP118A	DBN+3	0°27'22" RT	3	NT	3.0	4.5	6.0	6.0	0.0	0.0	1.5	0.0	216	55170	1002.652	0	-20.18	217.33	242	484	-38	695	657	-191	1148	957	
151	AP118B	DC+3	5°53'28" LT	3	NT	3.0	3.0	6.0	4.5	0.0	0.0	1.5	0.0	268	55438	909.154	0	-93.50	283.86	505	1011	-411	555	144	-864	562	-302	
152	AP119	DC+9	12°07'52" RT	9	NT	9.0	9.0	9.0	9.0	0.0	0.0	0.0	0.0	743	56181	799.957	0	-103.20	749.97	446	892	206	-389	-183	198	-1122	-924	
153	AP120	DC+4.5	21°57'13" LT	4.5	NT	4.5	4.5	7.5	7.5	0.0	0.0	0.0	1.5	149	56330	860.153	0	55.70	159.25	167	334	548	-496	52	1281	-1275	6	
154	AP120A	DC+9	12°33'04" RT	9	NT	9.0	9.0	9.0	9.0	0.0	0.0	1.5	4.5	185	56515	939.036	0	83.38	202.68	212	425	698	-337	361	1478	-763	715	
155	AP121	DD+9	53°49'22" RT	9	NT	9.0	9.0	9.0	9.0	4.5	0.0	4.5	3.0	240	56755	1011.096	0	72.06	250.37	147	293	590	-71	519	1017	-351	666	

SL NO	TOWER NO	TYPE OF TOWER	ANGLE OF DEVIATION	BODY EXTENSION	COMBINATION FROM (BB+OM.)	DETAILS OF LEG EXTN.				DETAILS OF CHIMNEY EXTN.				SPAN IN (M)	SEC. LENG.	CUMULV. LENGTH	R.L	C.P.D./C.P.U.	LEVEL DIFF.	INCLIND SPAN	WIND SPAN	SUM ADJSN SPAN	WEIGHT SPAN IN (HOT)			WEIGHT SPAN IN (COLD)		
						A	B	C	D	A	B	C	D										LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL
156	AP121A	DC+3	21°18'30" LT	3	NT	4.5	3.0	3.0	6.0	0.0	0.0	0.0	0.0	53	58808	1022.959	0			97	193	126	126	252	406	213	619	
157	AP121B	DC+7.5	0°48'06" LT	7.5	NT	7.5	7.5	9.0	7.5	0.0	0.0	4.5	0.0	140	56948	1012.597	0	-5.86	140.23	437	875	14	495	509	-74	499	425	
158	AP121C	DD+9	21°35'53" RT	9	NT	9.0	9.0	9.0	9.0	4.5	0.0	0.0	3.0	734	57682	933.483	0	-77.61	738.56	459	919	259	-586	-327	254	-1517	-1263	
159	AP122	DD+9_220 KV	19°17'59" LT	9	NT	9.0	9.0	9.0	9.0	4.5	0.0	0.0	4.5	184	57867	1034.843	0	101.36	210.18	312	624	797	687	1484	1727	817	2544	
160	AP122A	DBN+0	9°39'27" RT	0	BB	0.0	0.0	1.5	1.5	0.0	0.0	3.0	3.0	440	58307	920.492	0	-123.35	457.02	308	617	-229	518	289	-360	1087	727	
161	AP122B	DD+0_220KV	46°48'38" LT	0	BB	0.0	1.5	3.0	0.0	0.0	0.0	1.5	0.0	177	58483	860.905	0	-69.69	186.40	522	1044	-336	421	85	-904	420	-484	
162	AP123	DD+3_220KV	6°38'45" RT	3	NT	3.0	3.0	3.0	6.0	0.0	0.0	0.0	4.5	868	59351	873.819	0	15.91	867.90	506	1011	465	-281	184	465	-751	-286	
163	AP123A	DD+0	38°06'45" LT	0	BB	0.0	0.0	1.5	1.5	0.0	0.0	1.5	4.5	143	59494	943.297	0	66.48	157.95	230	460	436	-639	-203	906	-1176	-270	
164	AP124	DC+9	7°07'22" RT	9	NT	9.0	9.0	9.0	9.0	3.0	3.0	1.5	3.0	317	59811	1101.756	0	167.46	358.57	342	684	997	-150	847	1534	-305	1229	
165	AP124A	DBN+9	12°39'01" RT	9	NT	9.0	9.0	9.0	9.0	0.0	0.0	4.5	4.5	367	60178	1173.72	0	71.96	373.79	323	646	525	-66	459	680	-223	457	
166	AP125	DD+0	40°05'26" RT	0	BB	0.0	0.0	1.5	1.5	0.0	0.0	1.5	4.5	279	60457	1216.958	0	34.24	281.30	517	1033	350	386	736	506	386	892	
167	AP126	DD+9_220 KV	1°28'18" RT	9	NT	9.0	9.0	9.0	9.0	0.0	0.0	4.5	0.0	754	61212	1203.109	0	-4.85	754.27	445	889	379	641	1020	378	1649	2027	
168	AP126A	DBN+0	1°19'57" LT	0	BB	0.0	0.0	1.5	1.5	0.0	0.0	4.5	1.5	135	61347	1148.285	0	-63.82	149.31	170	339	-491	667	176	-1499	1238	-261	
169	AP127	DD+6_220KV	7°11'22" RT	6	NT	6.0	6.0	7.5	9.0	0.0	0.0	0.0	1.5	204	61551	1041.177	0	-101.11	227.99	565	1130	-441	899	458	-1012	908	-104	
170	AP128	DD+0_220KV	12°17'14" RT	0	BB	3.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	925	62476	741.429	0	-305.75	974.63	538	1076	101	-358	-257	90	-890	-800	
171	AP128A	DC+0	27°52'39" RT	0	BB	1.5	0.0	0.0	1.5	4.5	0.0	0.0	4.5	151	62627	829.312	0	87.88	174.56	157	314	532	-367	165	1064	-857	207	
172	AP128B	DC+0	19°35'46" LT	0	BB	1.5	0.0	0.0	1.5	1.5	0.0	0.0	3.0	164	62791	918.263	0	88.95	186.27	160	319	554	-281	273	1043	-702	341	
173	AP129	DD+9	34°57'34" LT	9	NT	9.0	9.0	9.0	9.0	1.5	0.0	0.0	1.5	156	62946	973.86	0	64.60	168.55	269	538	447	-52	395	868	-140	728	
174	AP129A	DBN+3	5°47'38" LT	3	NT	6.0	6.0	3.0	3.0	0.0	0.0	0.0	0.0	382	63329	1038.294	0	58.43	386.52	304	609	438	124	562	525	133	658	
175	AP129B	DC+0	28°17'03" RT	0	BB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	226	63555	1039.922	0	-1.37	226.44	301	603	104	321	425	94	370	464	
176	AP129C	DC+0	12°24'57" LT	0	BB	1.5	1.5	0.0	0.0	1.5	1.5	0.0	0.0	376	63931	1009.361	0	-30.56	377.60	391	782	58	281	339	8	302	310	
177	AP129D	DBN+0	5°10'32" RT	0	BB	1.5	1.5	0.0	0.0	0.0	3.0	0.0	0.0	405	64337	988.921	0	-20.44	405.88	336	673	126	-8	118	105	-121	-16	
178	AP130	DD+9_220KV	07°07'32" RT	9	NT	9.0	9.0	9.0	9.0	6.0	1.5	0.0	6.0	268	64604	997.029	0	17.11	268.16	535	1070	277	594	871	391	604	995	
179	AP130A	DD+0_220KV	04°49'52" RT	0	BB	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	802	65407	906.692	0	-99.34	808.59	567	1135	225	71	296	215	15	230	
180	AP130B	DC+3	18°06'30" RT	3	NT	6.0	4.5	3.0	3.0	1.5	0.0	0.0	0.0	332	65739	927.028	0	23.34	333.30	289	577	264	-32	232	319	-172	147	
181	AP131	DD+3	32°05'21" LT	3	NT	6.0	6.0	3.0	3.0	3.0	1.5	0.0	0.0	245	65984	950.005	0	22.98	245.75	212	424	277	381	658	417	755	1172	
182	AP132	DD+3_220KV	03°13'24" LT	3	NT	6.0	6.0	3.0	3.0	1.5	1.5	0.0	0.0	179	66163	908.537	0	-41.47	183.64	562	1124	-201	671	470	-574	675	101	

SL NO	TOWER NO	TYPE OF TOWER	ANGLE OF DEVIATION	BODY EXTENSION	COMBINATION FROM (BB+0M.)	DETAILS OF LEG EXTN.				DETAILS OF CHIMNEY EXTN.				SPAN IN (M)	SEC. LENG.	CUMLTV. LENGTH	R.L	C.P.D./C.P.U.	LEVEL DIFF.	INCLIND SPAN	WIND SPAN	SUM ADJSN SPAN	WEIGHT SPAN IN (HOT)			WEIGHT SPAN IN (COLD)		
						A	B	C	D	A	B	C	D										LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL
183	AP133	DD+0_220KV	10°42'30"RT	0	BB	1.5	1.5	0.0	1.5	0.0	0.0	0.0	0.0	374	945	67108	780.309	0			659	1319	306	657	963	300	868	1168
184	AP134	DBN+0	03°03'29"RT	0	BB	1.5	1.5	1.5	0.0	0.0	3.0	1.5	0.0	473	374	67482	685.218	0	-95.09	385.58	423	847	-269	391	122	-481	422	-59
185	AP135	DC+0	16°03'37"LT	0	BB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	281	473	67955	639.831	0	-45.39	475.47	377	754	86	-237	-151	54	-526	-472
186	AP 136	DC+3	19°50'29"RT	3	NT	6.0	6.0	3.0	3.0	3.0	1.5	0.0	0.0	144	281	68236	700.812	0	63.98	288.33	212	425	526	416	942	814	955	1769
187	AP 137	DD+6_220KV	21°28'24" LT	6	NT	9.0	9.0	6.0	6.0	4.5	3.0	0.0	0.0	817	144	68380	654.396	0	-43.42	149.98	480	961	-268	511	243	-807	513	-294
188	AP138	DD+0_220KV	36°09'42" RT	0	BB	3.0	3.0	0.0	0.0	3.0	3.0	0.0	0.0	367	817	69197	597.924	0	-62.47	819.80	592	1184	327	86	413	323	45	368
189	AP139	DBN+0	00°26'47"RT	0	BB	1.5	1.5	0.0	0.0	4.5	4.5	0.0	0.0	172	367	69564	625.234	0	27.31	367.91	270	539	285	18	303	325	-71	254
190	AP139A	DBN+0	07°39'57"LT	0	BB	1.5	1.5	0.0	0.0	3.0	3.0	0.0	0.0	181	172	69736	633.367	0	8.13	172.62	177	353	155	-50	105	244	-225	19
191	AP139B	DBN+0	03°00'44" RT	0	BB	1.5	1.5	0.0	0.0	0.0	1.5	0.0	0.0	187	181	69917	650.69	0	17.32	181.74	184	368	232	116	348	407	143	550
192	AP 140	DC+6	26°16'43"LT	6	NT	9.0	7.5	6.0	6.0	0.0	0.0	0.0	0.0	153	187	70104	641.898	0	-2.79	187.02	170	340	71	-19	52	43	-158	-115
193	AP 140A	DBN+0	08°24'03"LT	0	BB	1.5	1.5	0.0	0.0	0.0	3.0	0.0	0.0	111	153	70257	658.352	0	10.45	153.12	132	264	171	100	271	310	182	492
194	AP140B	DBN+3	10°03'31" RT	3	NT	6.0	6.0	3.0	3.0	1.5	1.5	0.0	0.0	449	111	70368	651.303	0	-4.05	111.33	280	561	11	364	375	-71	390	319
195	AP-141	DC+0	17°25'05" RT	0	BB	1.5	1.5	0.0	0.0	0.0	1.5	0.0	0.0	445	449	70818	611.484	0	-42.82	451.35	447	894	90	181	271	63	173	236
196	AP-142	DC+0	21°46'48"LT	0	BB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	379	445	71262	624.449	0	12.96	444.73	412	823	265	51	316	273	0	273
														379					27.72	379.83								

SL NO	TOWER NO	TYPE OF TOWER	ANGLE OF DEVIATION	BODY EXTENSION	COMBINATION FROM (BB+0M.)	DETAILS OF LEG EXTN.				DETAILS OF CHIMNEY EXTN.				SPAN IN (M)	SEC. LENG.	CUMLV. LENGTH	R.L	C.P.D./C.P.U.	LEVEL DIFF.	INCLIND SPAN	WIND SPAN	SUM ADJSN SPAN	WEIGHT SPAN IN (HOT)			WEIGHT SPAN IN (COLD)			
						A	B	C	D	A	B	C	D										LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	
197	AP 143	DD+0_220kV	17°07'59"RT	0	BB	3.0	3.0	0.0	1.5	3.0	1.5	0.0	0.0	955	379	71641	652.17	0			667	1334	331	562	893	381	563	944	
198	AP 144	DD+0_220kV	00°01'48"RT	0	BB	0.0	0.0	3.0	3.0	0.0	0.0	6.0	3.0	114	955	72596	598.634	0	-53.54	956.58	535	1070	422	242	664	420	581	1001	
199	AP144A	DC+3	16°39'11"LT	3	NT	4.5	3.0	3.0	4.5	0.0	0.0	0.0	0.0	114	114	72711	583.643	0	-11.99	115.07	153	307	-126	280	154	-466	496	30	
200	AP 145	DD+0	17°25'05" LT	0	BB	0.0	0.0	1.5	1.5	0.0	0.0	0.0	0.0	192	192	72903	563.218	0	-23.43	193.52	203	405	-87	0	-87	-303	0	-303	
201	AP- 146	DD+3	08°24'03"RT	3	NT	3.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	213	213	73116	550.34	0	-26.19	214.60	142	283	90	181	271	63	173	236	
	Nacho Gantry													70	70	73186	551.45	0	1.11	70.01	35	70	88	0	88	158	0	158	
Total =													73186																

Summary of Tower Quantity								Total tower
Type of Tower								
DBN	Nos-T	DC	Nos-T	DD	Nos-T	DD 220 KV	Nos-T	
DBN+0	26	DC+0	23	DD+0	15	DD+0	15	
DBN+1.5	3	DC+1.5	2	DD+1.5	1	DD+1.5		
DBN+3	11	DC+3	16	DD+3	9	DD+3	6	
DBN+4.5	2	DC+4.5	4	DD+4.5	4	DD+4.5		
DBN+6	4	DC+6	4	DD+6	6	DD+6	7	
DBN+7.5	1	DC+7.5	1	DD+7.5	2	DD+7.5		
DBN+9	13	DC+9	13	DD+9	8	DD+9	5	
Total=	60		63		45		33	201

SL NO	TOWER NO	TYPE OF TOWER	ANGLE OF DEVIATION	BODY EXTENTI ON	COMBIN ATION FROM (BB+OM)	DETAILS OF LEG EXTN				DETAILS OF CHIMNEY EXTN				SPAN IN (M)	SEC. LENG.	CUMLV. LENGTH	R.L	C.P.D./ C.P.U.	LEVEL DIFF.	INCLIN D SPAN	WIND SPAN	SUM ADJSN SPAN	WEIGHT SPAN IN (HOT)			WEIGHT SPAN IN (COLD)		
						A	B	C	D	A	B	C	D										LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL
18	AP14B	DC+6	17°28'53"LT	6	NT	6.0	7.5	9.0	6.0	0.0	0.0	1.5	0.0	299	5160	301.014	0			445	890	-189	88	-101	308	76	-232	
19	AP15	DD+0	01°22'04"RT	0	BB	1.5	0.0	0.0	1.5	1.5	0.0	0.0	3.0	591	5757	423.961	0	116.95	602.81	359	718	521	-266	255	533	-847	-314	
20	AP15A	DD+0	33°20'35"LT	0	BB	1.5	0.0	1.5	1.5	0.0	0.0	0.0	1.5	127	5884	458.133	0	34.17	131.57	175	350	396	-409	-13	977	958	19	
21	AP16	DD+0	00°28'06"RT	0	BB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	223	6108	537.214	0	79.08	236.96	251	503	645	474	1119	1193	726	1919	
22	AP16A	DBN+0	00°13'43"LT	0	BB	1.5	1.5	0.0	0.0	0.0	1.5	0.0	0.0	279	6387	482.326	0	-54.89	284.62	345	690	-189	90	-99	-441	59	-382	
23	AP17	DBN+3	09°47'58"LT	3	NT	4.5	4.5	3.0	3.0	0.0	0.0	0.0	0.0	411	6798	511.019	0	31.69	412.03	412	823	323	16	339	353	-36	317	
24	AP17A	DC+0	15°48'19"RT	0	BB	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0	412	7210	565.841	0	51.82	415.55	361	723	401	-40	361	453	-168	285	
25	AP18	DD+3	28°27'46"RT	3	NT	6.0	4.5	3.0	3.0	0.0	0.0	0.0	0.0	310	7520	597.497	0	34.66	312.20	422	845	354	262	616	483	761	744	
26	AP18A	DBN+0	03°05'38"LT	0	BB	1.5	1.5	0.0	1.5	0.0	0.0	0.0	0.0	534	8054	603.501	0	3.00	534.24	458	915	277	128	405	277	106	383	
27	AP19	DBN+7.5	10°23'41"LT	7.5	NT	9.0	9.0	7.5	9.0	1.5	1.5	0.0	0.0	381	8435	610.969	0	14.97	381.25	345	689	253	177	430	275	192	467	
28	AP20	DBN+3	04°27'28"RT	3	NT	6.0	3.0	3.0	4.5	1.5	0.0	0.0	0.0	308	8744	611.578	0	-3.89	308.45	334	669	132	526	658	117	683	800	
29	AP21	DD+9	08°30'51"RT	9	NT	9.0	9.0	9.0	9.0	0.0	1.5	1.5	0.0	361	9104	532.607	0	-72.97	367.83	598	1195	-157	497	340	314	498	184	
30	AP22	DD+6	25°11'23"LT	6	NT	7.5	6.0	6.0	7.5	0.0	0.0	0.0	0.0	835	9939	486.866	0	-48.74	836.22	514	1029	357	-322	35	354	-829	-475	
31	AP23	DC+3	06°04'19"RT	3	NT	6.0	3.0	3.0	6.0	0.0	0.0	0.0	1.5	194	10133	546.805	0	56.94	202.15	222	443	524	-310	214	1030	-701	329	
32	AP24	DBN+6	01°03'26"LT	6	NT	6.0	7.5	7.5	9.0	0.0	0.0	0.0	1.5	249	10382	612.837	0	69.03	258.55	312	625	569	-158	401	960	-314	646	
33	AP25	DBN+6	04°22'17"RT	6	NT	7.5	9.0	6.0	6.0	0.0	0.0	0.0	0.0	375	10758	695.428	0	82.59	384.33	431	862	554	62	616	699	35	734	
34	AP26	DBN+4.5	02°46'47"RT	4.5	NT	6.0	7.5	4.5	4.5	0.0	0.0	0.0	0.0	487	11245	762.357	0	65.43	491.51	315	630	432	61	493	459	45	504	
35	AP27	DBN+0	13°22'24"RT	0	BB	1.5	1.5	0.0	0.0	1.5	0.0	0.0	0.0	143	11388	767.975	0	1.12	143.22	175	351	82	305	387	98	520	618	
36	AP27A	DC+6	06°45'16"RT	6	NT	9.0	9.0	7.5	6.0	0.0	0.0	0.0	0.0	207	11595	735.057	0	-26.92	209.07	287	573	-95	838	743	-310	1164	854	
37	AP28	DBN+3	05°23'30"LT	3	NT	3.0	6.0	3.0	3.0	0.0	0.0	0.0	0.0	366	11961	601.368	0	-136.69	390.47	377	754	-447	563	116	-773	693	-80	
38	AP29	DBN+0	04°25'37"RT	0	BB	1.5	1.5	1.5	0.0	0.0	1.5	1.5	0.0	388		516.598	0	-87.77	398.08	342	683	-164	504	340	-295	757	462	



Design
Ally

Jeelky
Jeelky

SL NO	TOWER NO	TYPE OF TOWER	ANGLE OF DEVIATION	BODY EXTENSION	COMBINATION FROM (BB+OM)	DETAILS OF LEG EXTN.				DETAILS OF CHIMNEY EXTN.				SPAN IN (M)	SEC. LENG.	CUMULV LENGTH	R.L.	C.P.D./C.P.U.	LEVEL DIFF	INCLIN D SPAN	WIND SPAN	SUM ADJUN SPAN	WEIGHT SPAN IN (HOT)			WEIGHT SPAN IN (COLD)		
						A	B	C	D	A	B	C	D										LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL
39	AP30	DD+3_220KV	43°34'18"LT	3	NT	6.0	4.5	6.0	6.0	3.0	0.0	1.5	0.0	295	12544	447.546	0			559	1117	-205	272	67	-458	266	152	
40	AP31	DD+3_220KV	25°47'20"RT	3	NT	4.5	6.0	3.0	6.0	0.0	0.0	0.0	1.5	822	822	134566	551.078	0	103.53	828.83	564	1169	574	112	586	578	82	660
41	AP32	DC-1.5	26°36'10"LT	1.5	NT	1.5	1.5	1.5	1.5	3.0	1.5	3.0	0.0	346	346	13813	570.409	0	17.83	346.85	326	651	235	546	781	266	811	1077
42	AP33	DC+3	14°44'49"LT	3	NT	3.0	4.5	6.0	6.0	0.0	0.0	0.0	0.0	305	305	14118	500	0	-88.91	312.39	255	510	-235	701	466	-506	1278	878
43	AP34	DD+0_220KV	14°03'34"RT	0	BB	1.5	3.0	1.5	1.5	0.0	0.0	0.0	0.0	206	206	14323	410.786	0	-92.21	225.42	555	1110	-478	407	-71	-1154	405	-749
44	AP35	DD+0_220KV	13°52'48"LT	0	BB	3.0	0.0	0.0	3.0	1.5	0.0	0.0	0.0	905	905	15228	455.01	0	44.22	905.81	577	1154	523	-612	-89	524	-1302	778
45	AP36	DD+3	40°17'16"RT	3	NT	6.0	4.5	3.0	3.0	4.5	0.0	0.0	0.0	250	250	15478	590.675	0	138.67	285.51	311	522	896	-578	318	1586	-963	623
46	AP37	DD+6_220KV	03°21'08"LT	6	NT	7.5	7.5	7.5	6.0	0.0	0.0	0.0	0.0	372	372	15850	759.458	0	171.78	410.19	369	738	992	1030	2022	1378	1455	2833
47	AP37A	DBN+3	11°01'08"LT	3	NT	3.0	4.5	4.5	3.0	0.0	0.0	0.0	0.0	365	365	16215	582.103	0	-180.36	407.33	397	794	-620	528	-92	-1045	602	-443
48	AP38	DD+3	07°42'31"RT	3	NT	6.0	6.0	6.0	3.0	1.5	1.5	1.5	0.0	429	429	16644	493.863	0	-88.24	438.06	522	1045	-88	103	15	-163	88	-75
49	AP39	DC+4.5	12°47'36"RT	4.5	NT	7.5	4.5	4.5	7.5	1.5	0.0	0.0	0.0	616	616	17260	596.103	0	103.74	524.44	406	812	529	-619	-90	543	-1542	-999
50	AP40	DC+0	03°28'28"LT	0	BB	1.5	0.0	0.0	1.5	1.5	0.0	0.0	0.0	196	196	17457	713.796	0	113.19	226.75	210	419	846	139	985	1769	167	1836
51	AP41	DC+0	16°10'04"RT	0	BB	1.5	0.0	1.5	0.0	0.0	0.0	0.0	0.0	223	223	17679	709.966	0	-3.83	222.80	377	754	84	296	380	57	300	357
52	AP41A	DBN+6	14°26'06"RT	9	NT	9.0	9.0	9.0	9.0	4.5	3.0	0.0	0.0	531	531	18211	691.085	0	-9.88	531.50	329	659	239	76	315	234	96	330
53	AP42	DD+6_220KV	12°34'57"LT	6	NT	9.0	9.0	6.0	6.0	3.0	3.0	0.0	0.0	127	127	18338	692.885	0	-1.20	127.46	249	498	52	1442	1454	31	2042	2072
54	AP43	DD+6_220KV	09°44'12"RT	9	NT	9.0	9.0	9.0	9.0	6.0	6.0	0.0	0.0	370	370	18708	352.91	0	-336.98	500.58	359	719	-841	724	-217	-2542	1802	-520
55	AP43A	DC+6	03°09'07"RT	9	NT	9.0	9.0	9.0	9.0	1.5	3.0	0.0	0.0	349	349	19057	244.498	0	-108.41	365.24	490	981	-358	311	-47	-633	309	346
56	AP44	DC+3	12°21'44"LT	3	NT	6.0	4.5	3.0	3.0	0.0	0.0	0.0	0.0	632	632	19689	253.618	0	3.12	631.73	399	799	326	-210	116	326	-613	-287
57	AP45	DC+6	10°40'07"LT	9	NT	9.0	9.0	9.0	9.0	6.0	1.5	0.0	0.0	167	167	19856	282.963	0	35.35	170.96	445	890	380	-349	31	783	-417	366
58	AP46	DC+6	05°10'22"RT	9	NT	9.0	9.0	9.0	9.0	6.0	3.0	0.0	0.0	723	723	20579	642.866	0	359.90	807.21	454	908	1163	-329	834	1390	-814	416
														206	206	20782			61.36	214.82								



Bridge
Alamy

July 15

Tigra

SL NO	TOWER	NO	TYPE OF TOWER	ANGLE OF DEVIATION	BODY EXTENSION	COMBINATION FROM (BB+HM.)	DETAILS OF LEG EXTN.				DETAILS OF CHIMNEY EXTN.				SPAN IN (M)	SEC. LENG.	CUMULV. LENGTH	R.L	C.P.D./ C.P.U.	LEVEL DIFF.	INCLIN D SPAN	WIND SPAN	SUM ADJSN SPAN	WEIGHT SPAN IN (HOT)			WEIGHT SPAN IN (COLD)		
							A	B	C	D	A	B	C	D										LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL
59	AP47		DC+4.5	24°09'12"RT	4.5	NT	7.5	6.0	4.5	6.0	1.5	0.0	0.0	0.0			708.721	0	61.58	203.40	200	400	545	-349	196	1030	-884	146	
60	AP48		DD+4.5	17°52'53"RT	4.5	NT	7.5	7.5	4.5	4.5	1.5	1.5	0.0	0.0	194	20978	770.304	0	231.81	828.90	494	988	558	44	602	1098	28	1126	
61	AP49		DD+6.220KV	17°25'06"RT	6	NT	6.0	9.0	9.0	6.0	0.0	1.5	1.5	0.0	794	21772	1000.62	0	-76.11	132.82	451	902	798	456	1254	813	1032	1845	
62	AP49A		DD+9	32°25'32"LT	9	NT	9.0	9.0	9.0	9.0	0.0	6.0	6.0	0.0	109	21881	921.508	0	-190.35	374.23	215	431	-321	638	317	-900	699	-201	
63	AP50		DD+0	29°25'32"LT	0	BB	0.0	1.5	1.5	0.0	0.0	0.0	1.5	0.0	322	22203	740.158	0	-94.24	389.77	350	700	-264	473	209	-326	520	194	
64	AP51		DBN+3	02°43'10"RT	3	NT	3.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	378	22581	642.916	0	-39.63	206.00	290	580	-83	346	263	-130	579	449	
65	AP51A		DBN+0	07°48'40"RT	0	BB	0.0	1.5	1.5	0.0	0.0	1.5	0.0	0.0	202	22783	606.288	0	-77.58	306.34	249	499	-140	458	318	-373	562	189	
66	AP52		DC+3	10°09'08"RT	3	NT	3.0	4.5	6.0	3.0	0.0	0.0	3.0	0.0	296	23080	525.704	0	-25.23	722.73	509	1019	-150	407	257	-255	408	153	
67	AP53		DD+3	05°00'36"LT	3	NT	6.0	6.0	3.0	3.0	1.5	3.0	0.0	0.0	722	23802	500.47	0	-57.58	885.47	703	1405	330	442	772	328	445	773	
68	AP54		DC+3	06°14'43"LT	3	NT	3.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	683	24485	442.89	0	16.53	514.08	588	1197	255	223	478	250	220	470	
69	AP55		DC+4.5	19°14'35"LT	4.5	NT	4.5	4.5	6.0	7.5	0.0	0.0	0.0	0.0	514	24999	457.915	0	125.66	432.61	464	928	295	-117	178	297	-163	134	
70	AP56		DC+0	17°45'01"RT	0	BB	1.5	0.0	0.0	1.5	1.5	0.0	0.0	1.5	414	25413	588.074	0	-59.59	398.78	404	808	552	370	922	598	395	993	
71	AP57		DC+0	08°40'43"RT	0	BB	1.5	1.5	0.0	0.0	1.5	1.5	0.0	0.0	394	25807	528.488	0	33.78	532.93	463	926	32	200	232	6	195	201	
72	AP58		DC+0	21°58'39"LT	0	BB	1.5	0.0	1.5	1.5	0.0	0.0	1.5	0.0	532	26339	562.265	0	-109.38	388.90	453	905	338	504	842	342	558	900	
73	AP59		DD+0.220KV	13°18'50"RT	0	BB	3.0	3.0	0.0	0.0	4.5	6.0	0.0	0.0	373	26712	452.89	0	191.85	946.25	650	1300	-115	237	122	-169	230	61	
74	AP60		DD+0.220KV	02°30'00"RT	0	BB	3.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	927	27839	644.741	0	-18.02	186.57	556	1112	736	280	1016	741	507	1248	
75	AP61		DC+0	23°42'49"LT	0	BB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	186	27824	626.725	0	-20.70	195.84	190	380	-93	259	166	-321	443	122	
76	AP62		DD+3	23°22'10"RT	3	NT	6.0	6.0	6.0	3.0	0.0	0.0	0.0	0.0	195	28019	603.021	0	-42.52	272.93	232	464	-62	402	340	-246	612	366	
77	AP62A		DC+0	18°02'19"LT	0	BB	0.0	1.5	0.0	0.0	0.0	3.0	0.0	0.0	270	28289	563.497	0	-47.19	252.74	259	518	-128	435	307	-338	710	372	
78	AP63		DBN+1.5	04°48'26"LT	1.5	NT	1.5	1.5	1.5	1.5	0.0	3.0	0.0	0.0	248	28537	514.809	0	-12.16	511.56	380	760	-183	294	111	-458	300	-158	
79	AP64		DBN+9	09°19'03"LT	9	NT	9.0	9.0	9.0	9.0	1.5	1.5	3.0	0.0	511	29048	495.149	0			418	837	220	244	464	213	294	507	



Blah
John

John

John

SL. NO.	TOWER NO	TYPE OF TOWER	ANGLE OF DEVIATION	BODY EXTENSION	COMBINATION FROM (BB+DM)	DETAILS OF LEG EXTN				DETAILS OF CHIMNEY EXTN				SPAN IN (M)	SEC LENO	CUMULV LENGTH	RL	C.P.D / C.P.O	LEVEL DIFF	INCLIN D-SPAN	WIND SPAN	BUM ADJBN SPAN	WEIGHT SPAN IN (HOT)			WEIGHT SPAN IN (COLD)		
						A	B	C	D	A	B	C	D										LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL
100	AP81	DC+7.5	34°50'56" RT	7.5	NT	7.5	9.0	9.0	7.5	0.0	1.8	1.8	0.0	378	165	30382	649.894	0	-75.75	385.61	271	543	101	535	714	840	680	160
101	AP82	DC+7.5	38°22'36" LT	7.5	NT	7.5	7.5	9.0	9.0	0.0	0.0	3.0	1.8	146	378	30760	574.146	0	61.11	158.32	262	524	149	426	777	794	895	601
102	AP83	DD+0_220KV	35°48'45" RT	0	BB	0.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	920	146	36907	520.536	0	267.04	964.02	536	1072	269	147	172	718	137	601
103	AP84	DD+6_220KV	04°29'11" RT	6	NT	9.0	9.0	6.0	6.0	6.0	3.0	0.0	0.0	425	920	37833	781.574	0	225.47	481.17	676	1351	844	676	216	857	964	111
104	AP85	DC+9	09°16'10" LT	9	NT	9.0	9.0	9.0	9.0	0.0	0.0	0.0	0.0	304	425	38258	1004.04	0	163.38	345.08	365	720	1105	644	461	1442	1215	777
105	AP86	DC+6	05°34'00" LT	6	NT	9.0	9.0	6.0	6.0	0.0	0.0	0.0	0.0	556	304	38562	1170.42	0	-26.84	556.85	430	860	989	154	1343	1560	164	1924
106	AP87	DC+0	15°45'05" LT	0	BB	1.5	1.5	0.0	0.0	1.5	3.0	0.0	0.0	406	556	39118	1149.58	0	2.63	405.58	481	962	205	192	397	195	169	184
107	AP88	DBN+1.5	00°05'04" LT	1.5	NT	1.5	1.5	1.5	1.5	3.0	3.0	0.0	0.0	230	406	39524	1150.71	0	6.87	229.08	318	635	214	67	281	217	20	237
108	AP88A	DBN+3	10°42'14" RT	3	NT	6.0	6.0	3.0	3.0	0.0	0.0	0.0	0.0	182	230	39753	1156.07	0	-20.80	183.75	206	412	164	307	471	210	574	784
109	AP89	DBN+6	04°26'58" RT	6	NT	6.0	9.0	7.5	6.0	0.0	0.0	0.0	0.0	328	182	39935	1126.27	0	-81.23	338.32	255	510	123	602	479	389	864	474
110	AP90	DBN+6	03°57'42" RT	6	NT	6.0	6.0	9.0	6.0	0.0	0.0	0.0	0.0	283	328	40264	1045.04	0	-102.98	300.72	305	611	264	714	471	524	1376	657
111	AP91	DBN+9	12°01'29" RT	6	NT	9.0	9.0	9.0	9.0	0.0	1.5	3.0	0.0	256	283	40546	942.058	0	-108.41	278.00	269	539	432	781	349	875	1344	469
112	AP91A	DBN+9	11°32'06" LT	9	NT	9.0	9.0	9.0	9.0	1.5	4.5	3.0	0.0	335	256	40802	830.65	0	-142.30	363.08	205	591	502	861	359	-1066	1266	700
113	AP93	DD+6_220KV	25°55'33" LT	6	NT	6.0	9.0	9.0	6.0	0.0	3.0	0.0	0.0	011	335	41137	691.264	0	52.85	812.72	573	1146	500	333	167	906	329	577
114	AP94	DD+3_220KV	25°06'37" LT	3	NT	3.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	332	811	41948	747.115	0	22.33	332.26	571	1143	493	79	572	495	32	527
115	AP95	DBN+3	10°55'02" RT	3	NT	6.0	4.5	3.0	3.0	0.0	0.0	0.0	0.0	264	332	42280	769.446	0	3.34	263.91	208	595	252	111	364	799	93	392
116	AP96	DC+3	11°28'03" RT	3	BB	6.0	6.0	3.0	3.0	3.0	0.0	0.0	0.0	700	264	42544	772.788	0	-84.14	705.31	482	964	154	523	677	171	532	704
117	AP97	DC+0	11°11'02" LT	0	BB	1.5	1.5	0.0	0.0	1.5	3.0	0.0	0.0	260	700	43244	691.646	0	52.11	265.49	480	961	191	195	4	180	468	288
118	AP98	DD+1.5	34°07'10" RT	1.5	NT	1.5	1.5	1.5	1.5	1.5	3.0	0.0	0.0	332	260	43504	742.26	0	-34.65	334.00	206	593	462	282	744	735	305	1040
119	AP99	DBN+0	5°37'04" RT	0	BB	1.5	0.0	0.0	0.0	1.5	0.0	0.0	0.0		332	43830	709.109	0			374	747	55	149	204	32	142	174



Blaze
Alamy

Jan

Papam

SL NO	TOWER NO	TYPE OF TOWER	ANGLE OF DEVIATION	BODY EXTENSION	COMBINATION FROM (BB+OM.)	DETAILS OF LEG EXTN.				DETAILS OF CHIMNEY EXTN.				SPAN IN (M)	SEC. LENG.	CUMULV. LENGTH	R.L.	C.P.D./C.P.U.	LEVEL DIFF.	INCLIN D SPAN	WIND SPAN	SUM ADJSN SPAN	WEIGHT SPAN IN (HOT)			WEIGHT SPAN IN (COLD)		
						A	B	C	D	A	B	C	D										LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL
120	AP99A	DC+9	22°56'37" LT	9	NT	9.0	9.0	9.0	9.0	4.5	6.0	0.0	0.0	415	415	44251	722.632	0	22.52	415.54	301	602	268	-162	106	275	-453	-178
121	AP100	DC+3	23°15'04" RT	3	NT	6.0	6.0	3.0	3.0	0.0	4.5	0.0	0.0	187	187	44438	766.36	0	37.73	190.52	167	335	352	153	505	644	269	913
122	AP100A	DBN+9	6°45'10" LT	9	NT	9.0	9.0	9.0	9.0	6.0	6.0	0.0	0.0	148	148	44580	751.843	0	-8.52	148.02	229	458	-4	25	21	-120	-9	-129
123	AP101	DC+3	17°18'11" LT	3	NT	6.0	6.0	3.0	3.0	0.0	0.0	0.0	0.0	310	310	44896	794.154	0	36.31	312.21	348	696	287	-29	258	321	-62	259
124	AP102	DC+3	39°35'08" RT	3	NT	6.0	6.0	3.0	3.0	3.0	3.0	0.0	0.0	386	386	45282	876.137	0	81.98	394.97	252	504	427	326	753	460	820	1280
125	AP103	DD+3,220KV	21°07'59" LT	3	NT	3.0	6.0	6.0	3.0	0.0	1.5	1.5	0.0	118	118	45400	842.16	0	-33.98	122.50	495	990	-204	857	653	-698	868	170
126	AP103A	DD+9,220KV	43°18'43" LT	9	NT	9.0	9.0	9.0	9.0	4.5	0.0	0.0	4.5	872	872	46272	553.705	0	-282.46	918.84	563	1128	76	-356	-280	63	-787	-724
127	AP104	DBN+9	5°27'33" RT	9	NT	9.0	9.0	9.0	9.0	0.0	0.0	1.5	4.5	254	254	46526	637.046	0	83.34	267.53	427	855	620	118	738	1051	104	1155
128	AP105	DC-3	12°09'32" RT	3	NT	4.5	4.5	3.0	3.0	0.0	0.0	0.0	0.0	600	600	47127	731.78	0	88.73	606.87	393	787	495	237	732	509	406	915
129	AP106	DD+0	46°17'28" RT	0	BB	1.5	1.5	1.5	0.0	0.0	1.5	1.5	0.0	186	186	47313	716.867	0	-17.91	187.21	442	884	-47	405	358	-216	407	191
130	AP107	DD+9	31°13'11" LT	9	NT	9.0	9.0	9.0	9.0	4.5	4.5	0.0	0.0	697	697	48010	678.846	0	-29.02	697.79	540	1080	303	580	883	300	728	1028
131	AP107A	DBN+0	1°49'06" LT	0	BB	1.5	1.5	0.0	0.0	1.5	0.0	0.0	0.0	382	382	48393	598.177	0	-89.67	392.80	330	661	-188	174	-14	-337	200	-137
132	AP108	DC+9	6°42'57" RT	9	NT	9.0	9.0	9.0	9.0	4.5	0.0	0.0	0.0	278	278	48671	583.638	0	-5.54	278.54	522	1044	105	291	396	79	2871	366
133	AP109	DC+3	13°58'11" LT	3	BB	6.0	6.0	3.0	3.0	0.0	0.0	0.0	0.0	766	766	49437	652.501	0	62.86	768.25	504	1008	491	-125	366	494	-351	143
134	AP109A	DBN+9	5°08'06" LT	9	NT	9.0	9.0	9.0	9.0	4.5	4.5	0.0	0.0	242	242	49679	683.258	0	36.76	244.71	246	492	369	-140	229	595	-374	221
135	AP110	DC+9	27°24'14" LT	9	NT	9.0	9.0	9.0	9.0	4.5	3.0	0.0	0.0	250	250	49929	723.779	0	40.52	253.44	275	550	392	365	757	627	510	1137
136	AP111	DD+0,220KV	51°23'53" RT	0	BB	3	3	0	0	1.5	1.5	0	0	300	300	50229	690.738	0	-42.04	303.20	471	943	-60	532	472	-205	550	345
137	AP112	DC+0	7°03'23" RT	0	BB	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0	643	643	50872	609.295	0	-81.44	647.68	401	802	125	-275	-150	106	-789	-683
138	AP112A	DBN+0	2°57'20" LT	0	BB	1.5	1.5	0.0	0.0	1.5	0.0	0.0	0.0	159	159	51031	651.702	0	42.41	164.58	141	281	440	-156	284	954	-540	414
139	AP112B	DBN+9	2°56'53" RT	9	NT	9.0	9.0	9.0	9.0	4.5	4.5	0.0	0.0	122	122	51153	664.264	0	21.56	123.98	283	567	280	168	448	664	157	821
445														445					16.04	445.21								



Blades
Sharma

Jeetu

Thyagaraj

SL NO	TOWER	NO	TYPE OF TOWER	ANGLE OF DEVIATION	BODY EXTENSION	COMBINATION FROM (BB+RM)	DETAILS OF LEG EXTN				DETAILS OF CHIMNEY EXTN				SPAN IN (M)	SEC. LENG	CUMULV LENGTH	R. L	C.P.D./C.P.U.	LEVEL DIFF.	INCLIN D SPAN	WIND SPAN	SUM ADJSN SPAN	WEIGHT SPAN IN (HOT)			WEIGHT SPAN IN (COLD)			
							A	B	C	D	A	B	C	D										LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	
140	AP113		DBN+9	1°14'05" LT	9	NT	9.0	9.0	9.0	9.0	1.5	3.0	0.0	0.0	292	445	51598	681.208	0			369	737	279	377	656	283	540	823	
141	AP113A		DC+9	2°12'43" RT	9	NT	9.0	9.0	9.0	9.0	3.0	3.0	0.0	0.0	471	292	51690	642.499	0	-38.71	294.67		382	763	-81	342	261	-244	358	114
142	AP114		DD+9	35°20'31" LT	9	NT	9.0	9.0	9.0	9.0	3.0	0.0	0.0	1.5	471	52361	606.917	0	-35.58	472.50		383	765	132	-167	-35	115	392	-777	
143	AP115		DC+0	2°15'45" RT	0	BB	1.5	1.5	0.0	0.0	0.0	0.0	0.0	294	294	52655	669.83	0	53.91	298.94		254	509	465	-185	280	690	495	195	
144	AP116		DD+3	31°12'32" LT	3	BB	6.0	6.0	3.0	3.0	1.5	0.0	0.0	0.0	215	215	52870	707.792	0	40.96	218.59		524	1048	403	324	727	713	321	1034
145	AP117		DD+0_220KV	47°44'31" LT	0	BB	3.0	3.0	0.0	3.0	3.0	3.0	3.0	1.5	833	833	53703	775.366	0	64.57	835.80		512	1025	526	-2	524	528	-117	411
146	AP117A		DBN+0	6°32'05" LT	0	BB	1.5	1.5	0	1.5	1.5	0.0	0.0	0.0	191	191	53895	792.775	0	17.41	192.27		283	566	191	-289	98	305	-498	-193
147	AP117B		DBN+4.5	0°26'39" RT	4.5	NT	7.5	7.5	4.5	4.5	0.0	0.0	0.0	0.0	375	375	54270	857.157	0	108.88	390.37		362	783	680	-131	549	889	-232	657
148	AP117C		DBN+0	2°27'54" RT	0	BB	1.5	1.5	0.0	0.0	1.5	0.0	0.0	0.0	408	408	54678	991.393	0	89.74	418.16		342	684	551	-74	477	651	-240	411
149	AP118		DBN+3	7°48'34" LT	3	NT	3.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	276	278	54954	1022.83	0	34.44	277.74		246	492	352	256	508	517	408	925
150	AP118A		DBN+3	0°27'22" RT	3	NT	3.0	4.5	6.0	6.0	0.0	0.0	1.5	0.0	216	216	55170	1002.65	0	-20.18	217.33		242	484	-38	695	657	-191	1148	957
151	AP118B		DC+3	5°53'28" LT	3	NT	3.0	3.0	6.0	4.5	0.0	0.0	1.5	0.0	268	268	55438	909.154	0	-93.50	283.86		505	1011	411	555	144	864	562	-302
152	AP119		DC+6	12°07'52" RT	9	NT	9.0	9.0	9.0	9.0	0.0	0.0	0.0	0.0	743	743	56181	799.957	0	-103.20	749.67		446	892	206	-389	-183	198	-1122	-924
153	AP120		DC+4.5	2°15'13" LT	4.5	NT	4.5	4.5	7.5	7.5	0.0	0.0	0.0	1.5	149	149	56330	860.153	0	55.70	159.25		167	334	548	-496	52	1281	-1275	6
154	AP120A		DC+6	12°33'04" RT	9	NT	9.0	9.0	9.0	9.0	0.0	0.0	1.5	4.5	185	185	56515	939.036	0	83.38	202.68		212	425	698	-337	361	1478	-763	715
155	AP121		DD+9	53°49'22" RT	9	NT	9.0	9.0	9.0	9.0	4.5	0.0	4.5	3.0	240	240	56755	1011.1	0	72.06	250.37		147	293	590	-71	519	1017	-351	666
156	AP121A		DC+3	2°14'03" LT	3	NT	4.5	3.0	3.0	6.0	0.0	0.0	0.0	0.0	53	53	56808	1022.96	0	5.86	53.57		97	193	126	126	252	406	213	619
157	AP121B		DC+7.5	0°48'06" LT	7.5	NT	7.5	7.5	9.0	7.5	0.0	0.0	4.5	0.0	140	140	56948	1012.6	0	-5.86	140.23		437	875	14	495	509	-74	499	425
158	AP121C		DD+9	2°12'53" RT	9	NT	9.0	9.0	9.0	9.0	4.5	0.0	0.0	3.0	734	734	57682	933.483	0	-77.61	738.56		459	919	259	-586	-327	254	-1517	1263
159	AP122		DD+9_220KV	19°17'59" LT	9	NT	9.0	9.0	9.0	9.0	4.5	0.0	0.0	4.5	184	184	57867	1034.84	0	101.36	210.18		312	624	797	687	1484	1727	817	2544
														440	440	58307														



Bl. K. S.
Alamy

fact
typam

SL NO	TOWER NO	TYPE OF TOWER	ANGLE OF DEVIATION	BODY EXTENSION	COMBINATION FROM (BB+M)	DETAILS OF LEG EXTN				DETAILS OF CHIMNEY EXTN				SPAN IN (M)	SEC LENG	CUMULV LENGTH	R.L	C.P.D / C.P.U	LEVEL DIFF	INCLIN D SPAN	WIND SPAN	SUM ADJEN SPAN	WEIGHT SPAN IN (HOT)			WEIGHT SPAN IN (COLD)		
						A	B	C	D	A	B	C	D										LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL
160	AP122A	DBN+0	9°39'27" RT	0	BB	0.0	0.0	1.5	1.5	0.0	0.0	3.0	3.0	177	56483	860.905	0	-59.59	186.40	308	617	-229	518	289	-360	3387	717	
161	AP122B	DD+0_220KV	46°48'38" LT	0	BB	0.0	1.5	3.0	0.0	0.0	0.0	1.5	0.0	868	59351	873.819	0	15.91	867.90	522	1044	-336	421	85	-904	420	-684	
162	AP123	DD+1_220KV	6°38'46" RT	3	NT	3.0	3.0	3.0	6.0	0.0	0.0	0.0	4.5	143	59494	943.297	0	66.48	157.96	506	1011	465	-281	184	465	-751	288	
162	AP123A	DD+0	38°06'45" LT	0	BB	0.0	0.0	1.5	1.5	0.0	0.0	1.5	4.5	317	59811	1101.76	0	167.46	358.57	230	490	436	-639	-203	306	-3176	-270	
164	AP124	DC+9	7°07'22" RT	9	NT	9.0	9.0	9.0	9.0	3.0	3.0	1.5	3.0	367	60178	1173.72	0	71.96	373.79	342	684	997	-150	847	1334	-305	1329	
165	AP124A	DBN+9	12°39'01" RT	9	NT	9.0	9.0	9.0	9.0	0.0	0.0	4.5	4.5	279	60457	1216.96	0	34.24	281.30	323	646	525	-66	459	680	-123	457	
166	AP125	DD+0	40°06'26" RT	0	BB	0.0	0.0	1.5	1.5	0.0	0.0	1.5	4.5	754	61212	1203.11	0	-4.85	754.27	517	1033	350	386	736	506	386	892	
167	AP126	DD+9_220 KV	1°28'18" RT	9	NT	9.0	9.0	9.0	9.0	0.0	0.0	4.5	0.0	135	61347	1148.29	0	-63.82	149.31	445	889	379	641	1020	378	1849	3027	
168	AP126A	DBN+0	1°19'57" LT	0	BB	0.0	0.0	1.5	1.5	0.0	0.0	4.5	1.5	204	61551	1041.18	0	-101.11	227.99	170	339	-491	667	176	1439	1338	-761	
169	AP127	DD+6_220KV	7°11'22" RT	6	NT	6.0	6.0	7.5	9.0	0.0	0.0	0.0	1.5	925	62476	741.429	0	-205.75	974.63	565	1130	-441	899	458	1012	908	104	
170	AP128	DD+9_220KV	12°17'14" RT	0	BB	3.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	151	62627	829.312	0	87.88	174.56	538	1076	301	-358	-257	90	-890	-800	
171	AP128A	DC+0	27°52'39" RT	0	BB	1.5	0.0	0.0	1.5	4.5	0.0	0.0	4.5	154	62791	918.263	0	88.96	186.27	157	314	532	-367	165	1064	-857	207	
172	AP128B	DC+0	19°35'46" LT	0	BB	1.5	0.0	0.0	1.5	1.5	0.0	0.0	3.0	156	62946	973.86	0	64.60	168.55	160	319	354	-281	273	1043	-702	341	
173	AP129	DD+9	24°57'34" LT	9	NT	9.0	9.0	9.0	9.0	1.5	0.0	0.0	1.5	382	63329	1038.29	0	56.43	386.52	269	538	447	-52	395	868	-140	728	
174	AP129A	DBN+3	5°47'38" LT	3	NT	6.0	6.0	3.0	3.0	0.0	0.0	0.0	0.0	226	63555	1039.92	0	-1.37	226.44	304	608	438	124	562	525	133	658	
175	AP129B	DC+0	28°17'02" RT	0	BB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	376	63931	1009.36	0	-30.56	377.60	301	603	104	311	425	94	370	464	
176	AP129C	DC+0	12°24'57" LT	0	BB	1.5	1.5	0.0	0.0	1.5	1.5	0.0	0.0	405	64337	988.921	0	-20.44	405.88	381	762	58	281	339	8	302	310	
177	AP129D	DBN+0	5°10'32" RT	0	BB	1.5	1.5	0.0	0.0	0.0	3.0	0.0	0.0	268	64604	997.029	0	17.11	268.18	336	673	126	-8	118	185	-121	16	
178	AP130	DD+9_220KV	07°07'32" RT	9	NT	9.0	9.0	9.0	9.0	6.0	1.5	0.0	6.0	802	65407	906.692	0	-99.34	808.59	535	1070	177	594	671	391	604	995	
179	AP130A	DC+9_220KV	64°49'52" RT	0	BB	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	332	65739	927.028	0	23.34	333.30	567	1135	235	71	296	215	15	130	
180	AP130B	DC+3	18°06'30" RT	3	NT	6.0	4.5	3.0	3.0	1.5	0.0	0.0	0.0	745			0	22.68	245.76	289	577	264	-32	232	319	-172	147	



Blas
Alamy

Jeet

Upam

SL NO	TOWER	NO	TYPE OF TOWER	ANGLE OF DEVIATION	BODY EXTENTI ON	COMBIN ATION FROM (BB+OM.)	DETAILS OF LEG EXTN.				DETAILS OF CHIMNEY EXTN.				SPAN IN (M)	SEC. LENG.	CUMULTV. LENGTH	R L	C.P.D./ C.P.U.	LEVEL DIFF.	INCLIN D SPAN	WIND SPAN	SUM ADJSN SPAN	WEIGHT SPAN IN (HOT)			WEIGHT SPAN IN (COLD)		
							A	B	C	D	A	B	C	D										LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL
181	AP 131		DD+3	32°05'21" LT	3	NT	6.0	6.0	3.0	3.0	3.0	1.5	0.0	0.0	245	65984	950.005	0			212	424	277	381	658	417	755	1172	
182	AP 132		DD+1_220KV	03°13'24" LT	3	NT	6.0	6.0	3.0	3.0	1.5	1.5	0.0	0.0	179	66163	908.537	0	-41.47	183.64	562	1124	-201	671	470	-574	675	101	
183	AP133		DD+0_220KV	10°42'30" RT	0	BB	1.5	1.5	0.0	1.5	0.0	0.0	0.0	045	67100	780.309	0	-131.23	954.24	659	1319	306	657	963	300	868	1168		
184	AP134		DBN+0	03°03'29" RT	0	BB	1.5	1.5	1.5	0.0	0.0	3.0	1.5	0.0	374	67482	685.218	0	-95.09	385.58	423	847	269	391	122	-481	422	-59	
185	AP135		DC+0	16°03'37" LT	0	BB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	473	67955	639.831	0	-45.39	475.47	377	754	86	237	-151	54	-526	-472		
186	AP 136		DC+3	19°50'29" RT	3	NT	6.0	6.0	3.0	3.0	3.0	1.5	0.0	0.0	281	68236	700.812	0	63.98	288.33	212	425	526	416	942	814	955	1769	
187	AP 137		DD+6_220KV	21°28'24" LT	6	NT	9.0	9.0	6.0	6.0	4.5	3.0	0.0	0.0	144	68380	654.396	0	-43.42	149.98	480	961	268	511	243	-807	513	-294	
188	AP138		DD+0_220KV	36°09'42" RT	0	BB	3.0	3.0	0.0	0.0	3.0	3.0	0.0	0.0	817	69197	597.924	0	-62.47	819.90	592	1184	327	86	413	323	45	368	
189	AP139		DBN+0	00°26'47" RT	0	BB	1.5	1.5	0.0	0.0	4.5	4.5	0.0	0.0	367	69564	625.234	0	27.31	367.91	270	539	285	18	303	325	-71	254	
190	AP139A		DBN+0	07°39'57" LT	0	BB	1.5	1.5	0.0	0.0	3.0	3.0	0.0	0.0	172	69736	633.367	0	8.13	172.62	177	353	155	-50	105	244	-225	19	
191	AP139B		DBN+0	03°00'44" RT	0	BB	1.5	1.5	0.0	0.0	0.0	1.5	0.0	0.0	181	69917	650.69	0	17.32	181.74	184	368	232	116	348	407	143	550	
192	AP 140		DC+6	26°16'43" LT	6	NT	9.0	7.5	6.0	6.0	0.0	0.0	0.0	0.0	187	70104	641.898	0	-2.79	187.02	170	340	71	-19	52	43	-158	-115	
193	AP 140A		DBN+0	08°24'03" LT	0	BB	1.5	1.5	0.0	0.0	0.0	3.0	0.0	0.0	153	70257	658.352	0	10.45	153.12	132	264	171	100	271	310	182	492	
194	AP140B		DBN+3	10°03'31" RT	3	NT	6.0	6.0	3.0	3.0	1.5	1.5	0.0	0.0	111	70368	651.303	0	-4.05	111.33	280	561	11	364	375	-71	390	319	
195	AP-141		DC+0	17°25'05" RT	0	BB	1.5	1.5	0.0	0.0	0.0	1.5	0.0	0.0	449	70818	611.484	0	-42.82	451.35	447	894	90	181	271	53	173	236	
196	AP-142		DC+0	21°46'48" LT	0	BB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	445	71262	624.449	0	12.96	444.73	412	823	265	51	316	273	0	273	
197	AP 143		DD+0_220KV	17°07'59" RT	0	BB	3.0	3.0	0.0	1.5	3.0	1.5	0.0	0.0	379	71641	652.17	0	27.72	379.83	667	1334	331	562	893	381	563	944	
198	AP 144		DD+0_220KV	00°01'48" RT	0	BB	0.0	0.0	3.0	3.0	0.0	0.0	6.0	3.0	955	72596	598.634	0	-53.54	956.58	535	1070	422	242	664	420	581	1001	
199	AP144A		DC+3	16°39'11" LT	3	NT	4.5	3.0	3.0	4.5	0.0	0.0	0.0	0.0	114	72711	583.643	0	-11.99	115.07	153	307	-126	280	154	-466	496	30	
200	AP 145		DD+0	17°25'05" LT	0	BB	0.0	0.0	1.5	1.5	0.0	0.0	0.0	0.0	192	72903	563.218	0	-23.43	193.52	203	405	-87	0	-87	-303	0	-303	
201	AP-146		DD+3	08°24'03" RT	3	NT	3.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	213	73104	550.34	0	-26.19	214.60	142	283	90	181	271	63	173	236	



Handwritten signatures and initials in blue ink.

Handwritten signature in blue ink.

Handwritten signature in blue ink.

SL NO	TOWER NO	TYPE OF TOWER	ANGLE OF DEVIATION	BODY EXTENSION	COMBINATION FROM (BB+0M.)	DETAILS OF LEG EXTN.				DETAILS OF CHIMNEY EXTN.				SPAN IN (M)	SEC. LENG.	CUMULV. LENGTH	R.L.	C.P.D./C.P.U.	LEVEL DIFF.	INCLIN D SPAN	WIND SPAN	SUM ADJSTN SPAN	WEIGHT SPAN IN (HOT)			WEIGHT SPAN IN (COLD)		
						A	B	C	D	A	B	C	D										LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL
	Nacho Gantry													70	73180		551.45	0			35	70	88	0	88	158	0	158

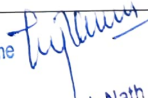
Summary of Tower Quantity								Total tower
Type of Tower							Total tower	
DBN	Nos-T	DC	Nos-T	DD	Nos-T	DD 220 KV		Nos-T
DBN+0	26	DC+0	23	DD+0	15	DD+0	15	
DBN+1.5	3	DC+1.5	2	DD+1.5	1	DD+1.5		
DBN+3	11	DC+3	16	DD+3	9	DD+3	6	
DBN+4.5	2	DC+4.5	4	DD+4.5	4	DD+4.5		
DBN+6	4	DC+6	4	DD+6	6	DD+6	7	
DBN+7.5	1	DC+7.5	1	DD+7.5	2	DD+7.5		
DBN+9	13	DC+9	13	DD+9	8	DD+9	5	
Total=	60		63		45		33	201

FOR TATA PROJECTS LIMITED

FOR POWER GRID CORPORATION OF INDIA LIMITED




 दावांगलांग सुतंगा/ Dawanlang Sutnga
 सहायक प्रबंधक/ Assistant Manager
 पावरग्रिड/POWERGRID
 कोम्प्रीहेन्सिव स्कीम/Comprehensive Scheme
 दापोरिजो/Daporijo


 तापस नाथ/Tapash Nath
 प्रबंधक/ Manager
 पावरग्रिड/POWERGRID
 कोम्प्रीहेन्सिव स्कीम/Comprehensive Scheme
 दापोरिजो/Daporijo