



OB	27/09/2017	Revisado em Função de Variante Próxima a Torre 17/1 e Revisado Onde Indicado.	VRA	LNG	
OA	25/01/2017	Emissão Inicial	VRA	LNG	
N.º	Data	Revisão	Elaborado MARTE	Aprovado MARTE	Aprovado CLIENTE
					
		LT 230 kV TORRES 2 - FORQUILHINHA			
Elaborado por: Vitor R. A. R. Lima		Verificado por: Leonardo Guerra			
		PROJETO EXECUTIVO LOTE Q LEILÃO ANEEL Nº 013/2015 - LINHAS DE TRANSMISSÃO			
Aprovado por: Paulo Novello		Data: 25/01/2017			
		TABELA DE LOCAÇÃO			
MARTE ENGENHARIA Resp. Téc. Nº CREA Cláudio Fonseca 200011985-9/RJ		LS-LI-LT-PEX230-MAR-ELM-1400-00		Fl.1/6	Rev. 0B

PROJETO EXECUTIVO LOTE Q LEILÃO ANEEL Nº 013/2015 - LINHAS DE TRANSMISSÃO

TABELA DE LOCAÇÃO

NOTAS:

- 1 - A ALTURA NOMINAL CORRESPONDE A ALTURA ATÉ A MÍSULA INFERIOR.
- 2 - A ALTURA ÚTIL CORRESPONDE A ALTURA ATÉ A FIXAÇÃO DO CONDUTOR INFERIOR.

PROJETO EXECUTIVO LOTE Q LEILÃO ANEEL Nº 013/2015 - LINHAS DE TRANSMISSÃO

TABELA DE LOCAÇÃO

Torre	Progressiva (m)	Vão à Vante (m)	Deflexão da LT	Coordenadas		Cota Piquete (m)	Tipo	Altura Nominal (m) (Nota 1)	Altura Útil (m) (Nota 2)	Ponto Crítico no Vão à Vante			Observações
				UTM E	UTM N					Coord. UTM E	Coord. UTM N	Cota (m)	
PORT	0.00	70.36		644143.330	6818734.060	27.77	PORT	16.5	16.5	644141.780	6818735.710	27.77	
0/1	70.36	62.72	44°50'54"E	644095.180	6818785.370	27.22	AFAT	31.5	30.0	644038.560	6818793.350	28.40	MV-01
0/2	133.08	125.07		644032.500	6818787.527	28.48	AFSP	43.5	40.8	644038.560	6818793.350	28.40	
0/3	258.16	399.00	43°29'33"E	643907.500	6818791.830	27.00	AFAT	22.5	21.0	643767.500	6818672.500	26.68	MV-02
0/4	657.16	280.29		643608.765	6818527.334	25.78	AFEL	30.0	27.3	643462.500	6818402.500	24.74	
0/5	937.45	332.71	26°16'57"E	643398.910	6818341.530	24.68	AFAT	13.5	13.5	643357.500	6818227.500	25.48	MV-03
1/1	1270.16	498.00		643273.220	6818033.475	23.79	AFEL	34.5	31.8	643187.500	6817812.500	24.37	
1/2	1768.16	221.00		643085.087	6817572.378	24.02	AFEL	39.0	36.3	643035.860	6817461.150	23.41	
1/3	1989.16	464.00		643001.599	6817367.755	22.92	AFEL	39.0	36.3	642892.500	6817112.500	22.93	
2/1	2453.16	354.21		642826.311	6816938.138	22.03	AFEL	28.5	25.8	642752.500	6816747.500	21.94	
2/2	2807.36	396.79	10°42'19"D	642692.500	6816610.180	22.42	AFAA	16.5	16.5	642617.500	6816502.500	21.57	MV-04
3/1	3204.16	414.00		642476.964	6816277.029	20.83	AFEL	37.5	34.8	642337.470	6816069.300	20.67	
3/2	3618.16	461.00		642252.083	6815929.431	19.79	AFEL	31.5	28.8	642137.500	6815747.500	19.44	
4/1	4079.16	513.00		642001.671	6815542.372	19.05	AFEL	36.0	33.3	641867.500	6815327.500	18.45	
4/2	4592.16	415.00		641723.013	6815111.653	17.94	AFEL	39.0	36.3	641622.500	6814962.500	17.90	
5/1	5007.16	322.72		641497.588	6814763.216	16.13	AFEL	34.5	31.8	641387.500	6814602.500	16.76	
5/2	5329.87	184.28	07°55'30"E	641322.290	6814492.260	16.57	AFAA	18.0	18.0	641319.020	6814478.030	16.74	MV-05
5/3	5514.16	473.00		641244.478	6814325.210	16.42	AFSL	40.5	60.3	641137.500	6814087.500	16.09	
5/4	5987.16	400.00		641044.759	6813896.443	14.77	AFEL	39.0	36.3	640977.500	6813767.500	21.85	
6/1	6387.16	480.34		640875.864	6813533.849	14.66	AFSP	39.0	36.3	640777.500	6813337.500	14.62	TROCA CABO PARA-RAIOS
6/2	6867.50	446.00		640673.044	6813098.426	13.96	AFEL	39.0	36.3	640582.500	6812912.500	14.63	
7/1	7313.50	524.00		640484.725	6812694.134	13.55	AFEL	39.0	36.3	640372.500	6812462.500	13.30	
7/2	7837.50	509.00		640263.472	6812219.136	12.32	AFSL	40.5	60.3	640157.190	6811978.590	13.94	
8/1	8346.50	497.00		640048.552	6811757.736	12.62	AFSL	42.0	63.3	639936.160	6811511.990	12.91	
8/2	8843.50	484.00		639838.699	6811307.213	13.66	AFEL	33.0	30.3	639751.910	6811132.570	13.11	
9/1	9327.50	390.00		639634.335	6810868.474	12.92	AFEL	34.5	31.8	639537.500	6810667.500	13.17	
9/2	9717.50	406.00		639469.662	6810514.945	12.39	AFEL	30.0	27.3	639367.500	6810307.500	14.26	
10/1	10123.50	512.00		639298.233	6810146.913	12.88	AFEL	39.0	36.3	639182.500	6809907.500	13.14	
10/2	10635.50	463.00		639082.046	6809682.793	13.90	AFEL	34.5	31.8	638987.500	6809472.500	15.03	
11/1	11098.50	417.00		638886.549	6809263.091	13.73	AFEL	33.0	30.3	638787.240	6809064.130	15.67	
11/2	11515.50	483.00		638710.476	6808885.087	15.07	AFEL	39.0	36.3	638602.500	6808647.500	16.49	
11/3	11998.50	434.00		638506.534	6808447.255	16.60	AFEL	39.0	36.3	638402.500	6808217.500	16.48	
12/1	12432.50	347.00		638323.282	6808053.840	16.53	AFEL	27.0	24.3	638280.800	6807935.780	16.24	
12/2	12779.50	448.00		638176.765	6807739.290	16.75	AFSP	48.0	45.3	638067.500	6807512.500	14.11	
13/1	13227.50	453.00		637987.602	6807333.185	16.59	AFSL	39.0	57.3	637893.680	6807144.670	16.65	
13/2	13680.50	483.87		637796.328	6806922.548	12.40	AFEL	39.0	36.3	637692.500	6806707.500	11.10	
14/1	14164.37	496.13	02°18'38"D	637592.020	6806483.930	16.02	AFSL	34.5	48.3	637487.500	6806272.500	14.94	MV-06
14/2	14660.50	490.00		637364.571	6806043.005	14.34	AFEL	39.0	36.3	637255.360	6805829.160	15.10	
15/1	15150.50	489.00		637139.933	6805607.531	14.38	AFEL	39.0	36.3	637042.500	6805427.500	18.04	
15/2	15639.50	490.00		636915.754	6805172.945	15.08	AFEL	36.0	33.3	636802.500	6804942.500	16.84	
16/1	16129.50	362.00		636691.116	6804737.471	16.81	AFEL	36.0	33.3	636612.500	6804587.500	17.87	
16/2	16491.50	423.00		636525.159	6804415.753	17.59	AFEL	31.5	28.8	636430.590	6804240.840	17.66	
16/3	16914.50	416.85		636331.238	6804039.823	16.14	AFEL	28.5	25.8	636240.590	6803870.840	17.00	
17/1	17331.35	421.00	19°37'26"E	636140.134	6803669.356	18.78	AFAT	27.0	25.5	636110.590	6803480.840	17.77	MV-07
17/2	17752.35	438.00		636083.997	6803252.115	17.69	AFEL	27.0	24.3	636060.590	6803050.840	17.19	
18/1	18190.34(R) 18165.50(V)	490.00	09°42'03"D	636025.594	6802818.032	16.42	AFAA	31.5	31.5	635962.500	6802602.500	17.32	MV-07A IGUALDADE PROGRESSIVA
18/2	18655.50	464.46		635879.360	6802350.361	14.71	AFEL	39.0	36.3	635819.770	6802143.870	14.49	
19/1	19119.95	508.54	05°09'17"E	635740.750	6801907.070	12.03	AFAA	37.5	37.5	635673.620	6801613.180	15.91	MV-08
19/2	19628.50	386.00		635633.205	6801410.028	15.35	AFEL	39.0	36.3	635565.850	6801084.100	14.19	
20/1	20014.50	487.00		635551.576	6801032.758	14.18	AFEL	30.0	27.3	635502.500	6800822.500	13.76	
20/2	20501.50	516.00		635448.587	6800556.773	13.26	AFEL	39.0	36.3	635397.500	6800302.500	13.07	
21/1	21017.50	424.00		635339.465	6800052.443	13.19	AFEL	36.0	33.3	635288.410	6799826.380	13.31	
21/2	21441.50	373.00		635249.800	6799638.032	12.33	AFEL	28.5	25.8	635202.000	6799413.010	12.98	
21/3	21814.50	364.00		635170.919	6799273.468	12.00	AFEL	25.5	22.8	635128.920	6799104.840	11.79	
22/1	22178.50	513.00		635093.942	6798917.701	12.60	AFEL	33.0	30.3	635047.500	6798687.500	11.42	

PROJETO EXECUTIVO LOTE Q LEILÃO ANEEL Nº 013/2015 - LINHAS DE TRANSMISSÃO

TABELA DE LOCAÇÃO

Torre	Progressiva (m)	Vão à Vante (m)	Deflexão da LT	Coordenadas		Cota Piquete (m)	Tipo	Altura Nominal (m) (Nota 1)	Altura Útil (m) (Nota 2)	Ponto Crítico no Vão à Vante			Observações
				UTM E	UTM N					Coord. UTM E	Coord. UTM N	Cota (m)	
22/2	22691.50	485.00		634985.455	6798416.303	13.04	AFEL	39.0	36.3	634937.500	6798172.500	9.43	
23/1	23176.50	519.00		634882.889	6797942.272	9.94	AFEL	39.0	36.3	634832.500	6797697.500	9.70	
23/2	23695.50	516.00		634773.133	6797435.011	8.91	AFEL	39.0	36.3	634716.540	6797160.780	8.74	
24/1	24211.50	465.00		634664.012	6796930.681	7.99	AFSL	42.0	63.3	634597.500	6796642.500	10.40	
24/2	24676.50	395.01		634565.675	6796476.198	5.30	AFSL	42.0	63.3	634503.920	6796187.470	6.14	
25/1	25071.51	420.99	14°04'32"D	634482.140	6796090.120	5.64	AFAA	18.0	18.0	634412.500	6795942.500	5.34	MV-09
25/2	25492.50	354.00		634295.713	6795712.660	9.96	AFEL	36.0	33.3	634215.680	6795540.480	9.92	
25/3	25846.50	329.00		634138.951	6795395.262	9.11	AFSL	42.0	63.3	634067.500	6795242.500	13.54	
26/1	26175.50	314.00		633993.259	6795100.279	10.69	AFSL	42.0	63.3	633917.540	6794936.530	9.98	
26/2	26489.50	379.00		633854.210	6794818.745	12.19	AFSP	48.0	45.3	633767.500	6794632.500	9.34	
26/3	26868.50	483.00		633686.377	6794478.931	10.87	AFEL	39.0	36.3	633582.500	6794282.500	10.77	
27/1	27351.50	367.00		633472.489	6794045.871	9.86	AFSP	45.0	42.3	633438.070	6793976.180	9.85	
27/2	27718.50	508.00		633309.970	6793716.817	10.53	AFSL	36.0	51.3	633202.500	6793507.500	10.57	
28/1	28226.50	408.00		633085.012	6793261.342	10.59	AFEL	39.0	36.3	632946.780	6792988.340	9.13	
28/2	28634.50	438.00		632904.336	6792895.527	9.93	AFEL	39.0	36.3	632802.500	6792682.500	10.83	
29/1	29072.50	434.00		632710.376	6792502.814	10.48	AFEL	30.0	27.3	632612.500	6792312.500	11.58	
29/2	29506.50	408.00		632518.187	6792113.688	11.71	AFEL	30.0	27.3	632473.960	6792009.120	13.60	
29/3	29914.50	447.00		632337.512	6791747.873	11.66	AFEL	30.0	27.3	632247.500	6791557.500	11.62	
30/1	30361.50	423.02		632139.566	6791347.091	11.77	AFSL	31.5	42.3	632037.500	6791147.500	12.61	
30/2	30784.52	390.98	06°44'17"D	631952.240	6790967.810	12.10	AFAA	25.5	25.5	631857.500	6790812.500	11.56	MV-10
31/1	31175.50	421.00		631739.166	6790639.990	11.67	AFEL	34.5	31.8	631622.500	6790452.500	11.95	
31/2	31596.50	481.00		631509.733	6790287.001	11.76	AFEL	37.5	34.8	631372.500	6790082.500	12.47	
32/1	32077.50	338.00		631247.602	6789883.704	15.74	AFEL	36.0	33.3	631097.500	6789647.500	36.09	
32/2	32415.50	311.00		631063.401	6789600.307	35.87	AFEL	31.5	28.8	631037.500	6789552.500	29.75	
32/3	32726.50	358.00		630893.915	6789339.547	15.14	AFEL	39.0	36.3	630775.710	6789161.390	17.99	
33/1	33084.50	513.00		630698.815	6789039.381	16.70	AFEL	39.0	36.3	630590.130	6788876.220	18.17	
33/2	33597.50	437.00		630419.245	6788609.254	20.33	AFEL	39.0	36.3	630307.500	6788442.500	24.70	
34/1	34034.50	337.00		630181.092	6788242.849	25.93	AFSL	40.5	60.3	630042.500	6788017.500	52.86	
34/2	34371.50	304.00		629997.436	6787960.290	55.93	AFSP	34.5	31.8	629977.500	6787917.500	52.21	
34/3	34675.50	656.00		629831.765	6787705.400	22.46	AFSP	48.0	45.3	629722.790	6787531.180	21.07	
35/1	35331.50	147.00		629474.264	6787155.374	63.19	AFSP	46.5	43.8	629397.500	6787052.500	95.88	
35/2	35478.50	493.00		629394.153	6787032.121	94.78	AFSL	30.0	39.3	629382.500	6787027.500	94.84	
35/3	35971.50	150.00		629125.482	6786618.763	99.87	AFSL	39.0	57.3	629077.500	6786537.500	107.76	
36/1	36121.50	698.00		629043.736	6786492.995	96.92	AFSL	36.0	51.3	628782.500	6786102.500	22.35	
36/2	36819.50	419.00		628663.345	6785907.754	17.91	AFSP	48.0	45.3	628467.500	6785592.500	67.04	
37/1	37238.50	502.00		628435.002	6785556.441	67.05	AFSP	22.5	19.8	628382.500	6785462.500	52.43	
37/2	37740.50	569.00		628161.426	6785135.537	11.03	AFSL	42.0	63.3	628017.500	6784907.500	10.42	
38/1	38309.50	351.00		627851.337	6784658.457	10.03	AFSP	48.0	45.3	627737.500	6784492.500	10.29	
38/2	38660.50	432.00		627660.052	6784364.159	9.66	AFSL	42.0	63.3	627560.460	6784202.430	10.53	
39/1	39092.50	421.98		627424.625	6784001.947	8.79	AFEL	36.0	33.3	627277.730	6783767.680	11.02	
39/2	39514.47	286.03	13°51'18"D	627194.660	6783648.140	8.13	AFAA	24.0	24.0	627102.500	6783557.500	8.89	MV-11
39/3	39800.50	410.00		626985.891	6783452.626	11.65	AFSL	28.5	36.3	626827.500	6783307.500	12.11	
40/1	40210.50	500.00		626686.632	6783172.369	15.59	AFEL	27.0	24.3	626604.940	6783096.360	18.13	
40/2	40710.50	379.00		626321.682	6782830.592	59.99	AFSL	42.0	63.3	626082.500	6782617.500	119.76	
41/1	41089.50	152.00		626045.050	6782571.525	128.84	AFSL	27.0	33.3	625992.500	6782532.500	136.47	
41/2	41241.50	586.00		625934.105	6782467.625	125.38	AFSL	34.5	48.3	625902.500	6782447.500	119.79	
41/3	41827.50	575.00	26°03'47"E	625506.381	6782067.059	80.69	AFAT	36.0	34.5	625347.500	6781652.500	14.46	MV-12
42/1	42402.50	284.00		625302.057	6781529.591	11.20	AFEL	39.0	36.3	625237.500	6781367.500	11.61	
42/2	42686.50	381.00		625201.139	6781264.126	11.52	AFEL	28.5	25.8	625154.740	6781155.570	11.63	
43/1	43067.50	433.00		625065.751	6780907.993	11.51	AFEL	33.0	30.3	624987.500	6780712.500	11.47	
43/2	43500.50	402.00		624911.885	6780503.253	11.67	AFEL	28.5	25.8	624847.460	6780319.320	13.03	
43/3	43902.50	722.77		624769.036	6780127.490	14.98	AFSP	31.5	28.8	624672.500	6779882.500	21.27	
44/1	44625.27	251.23	04°44'47"D	624512.200	6779451.890	139.98	AFSP	28.5	25.8	624492.500	6779402.500	152.41	MV-13
44/2	44876.50	68.00		624403.801	6779225.251	198.96	AFSP	25.5	22.8	624387.500	6779177.500	208.24	
44/3	44944.50	667.00		624374.461	6779163.906	204.68	AFSP	18.0	15.3	624362.500	6779162.500	203.81	

PROJETO EXECUTIVO LOTE Q LEILÃO ANEEL Nº 013/2015 - LINHAS DE TRANSMISSÃO

TABELA DE LOCAÇÃO

Torre	Progressiva (m)	Vão à Vante (m)	Deflexão da LT	Coordenadas		Cota Piquete (m)	Tipo	Altura Nominal (m) (Nota 1)	Altura Útil (m) (Nota 2)	Ponto Crítico no Vão à Vante			Observações
				UTM E	UTM N					Coord. UTM E	Coord. UTM N	Cota (m)	
45/1	45611.50	293.66		624086.667	6778562.189	43.26	AFSP	46.5	43.8	623957.500	6778302.500	50.08	
45/2	45905.16	437.34	04°46'18"E	623959.960	6778297.270	49.80	AFAA	18.0	18.0	623932.500	6778232.500	52.85	MV-14
46/1	46342.50	128.00		623804.733	6777888.406	113.12	AFSP	19.5	16.8	623807.500	6777872.500	115.04	
46/2	46470.50	515.40		623759.302	6777768.740	88.82	AFSL	37.5	54.3	623602.500	6777342.500	24.06	
46/3	46985.89	280.60	12°38'17"D	623576.370	6777286.900	22.52	AFAA	13.5	13.5	623522.500	6777197.500	24.14	MV-15
47/1	47266.50	449.00		623421.791	6777052.713	21.67	AFEL	27.0	24.3	623317.500	6776887.500	19.41	
47/2	47715.50	502.00		623174.444	6776677.985	18.29	AFEL	36.0	33.3	623042.500	6776472.500	18.99	
48/1	48217.50	339.00		622897.902	6776259.025	17.99	AFEL	39.0	36.3	622771.830	6776057.830	17.94	
48/2	48556.50	481.00		622711.153	6775976.101	17.92	AFEL	39.0	36.3	622587.500	6775782.500	13.32	
49/1	49037.50	291.00		622446.178	6775574.667	11.39	AFEL	39.0	36.3	622337.500	6775417.500	9.99	
49/2	49328.50	363.00		622285.872	6775331.803	9.69	AFEL	30.0	27.3	622192.500	6775182.500	9.61	
49/3	49691.50	374.00		622085.901	6775028.849	11.52	AFEL	33.0	30.3	621967.500	6774842.500	10.42	
50/1	50065.50	327.86		621879.871	6774716.715	13.44	AFEL	24.0	21.3	621812.500	6774622.500	14.12	
50/2	50393.36	529.14	02°42'42"D	621699.260	6774443.090	13.34	AFSL	40.5	60.3	621547.500	6774227.500	12.61	MV-16
50/3	50922.50	319.00		621387.197	6774015.764	13.52	AFSP	48.0	45.3	621282.500	6773882.500	12.31	
51/1	51241.50	539.00		621199.066	6773758.144	12.84	AFSP	46.5	43.8	621042.500	6773537.500	12.25	
51/2	51780.50	406.81		620881.190	6773322.857	12.73	AFEL	39.0	36.3	620712.500	6773097.500	13.00	
52/1	52187.31	273.19	29°49'55"E	620641.270	6772994.320	13.28	AFAT	16.5	15.0	620636.640	6772906.660	11.77	MV-17
52/2	52460.50	519.00		620611.257	6772722.788	11.01	AFEL	39.0	36.3	620587.500	6772472.500	6.93	
52/3	52979.50	518.00		620554.238	6772206.930	5.39	AFEL	39.0	36.3	620522.500	6771942.500	7.92	
53/1	53497.50	545.00		620497.329	6771692.065	7.84	AFEL	39.0	36.3	620462.500	6771412.500	5.86	
54/1	54042.50	499.21		620437.454	6771150.364	6.93	AFEL	39.0	36.3	620412.500	6770897.500	11.39	
54/2	54541.70	435.79	09°12'31"D	620382.610	6770654.180	11.76	AFAA	34.5	34.5	620327.500	6770437.500	11.83	
54/3	54977.50	435.00		620266.031	6770234.268	12.20	AFEL	39.0	36.3	620202.500	6770017.500	11.07	
55/1	55412.50	434.00		620149.664	6769815.122	9.71	AFEL	36.0	33.3	620092.500	6769592.500	9.56	
55/2	55846.50	313.00		620033.565	6769396.939	9.40	AFEL	39.0	36.3	619987.500	6769242.500	9.39	
56/1	56159.50	382.00		619949.834	6769095.346	8.86	AFEL	36.0	33.3	619902.610	6768938.070	9.11	
56/2	56541.50	496.00		619847.645	6768727.268	8.24	AFEL	39.0	36.3	619787.500	6768497.500	10.08	
57/1	57037.50	465.00		619714.961	6768249.345	9.12	AFEL	34.5	31.8	619662.500	6768077.500	7.14	
57/2	57502.50	338.00		619590.569	6767801.292	6.33	AFSP	48.0	45.3	619532.500	6767582.500	5.46	
57/3	57840.50	340.00		619500.150	6767475.610	5.08	AFEL	25.5	22.8	619452.500	6767317.500	5.17	
58/1	58180.50	466.00		619409.197	6767148.001	4.22	AFEL	27.0	24.3	619357.500	6766947.500	2.95	
58/2	58646.50	526.00		619284.537	6766698.985	2.63	AFEL	39.0	36.3	619212.500	6766427.500	2.41	
59/1	59172.50	529.00		619143.827	6766192.155	2.26	AFEL	39.0	36.3	619072.500	6765922.500	2.25	
59/2	59701.50	346.00		619002.315	6765682.434	2.09	AFEL	39.0	36.3	618957.500	6765512.500	3.71	
60/1	60047.50	494.00		618909.756	6765349.044	3.86	AFEL	39.0	36.3	618839.330	6765108.040	4.26	
60/2	60541.50	513.00		618777.606	6764873.048	1.74	AFEL	39.0	36.3	618707.500	6764612.500	2.33	
61/1	61054.50	281.46		618640.374	6764378.744	1.88	AFEL	37.5	34.8	618562.500	6764117.500	7.66	
61/2	61335.96	244.54	07°18'00"D	618565.080	6764107.540	7.63	AFAA	13.5	13.5	618537.500	6764052.500	8.21	MV-19 TROCA CABO PARA-RAIOS
61/3	61580.50	417.00		618470.253	6763882.136	8.58	AFEL	28.5	25.8	618402.500	6763732.500	8.64	
61/4	61997.50	512.00		618308.550	6763497.765	7.88	AFEL	39.0	36.3	618207.500	6763267.500	7.21	
62/1	62509.50	381.00		618110.007	6763025.828	5.77	AFEL	39.0	36.3	618037.500	6762847.500	5.12	
62/2	62890.50	489.00		617962.264	6762674.640	3.88	AFEL	34.5	31.8	617872.500	6762452.500	3.83	
63/1	63379.50	438.00		617772.640	6762223.903	3.19	AFEL	39.0	36.3	617659.480	6761966.350	3.07	
63/2	63817.50	454.00		617602.793	6761820.176	2.23	AFEL	36.0	33.3	617512.500	6761597.500	2.36	
64/1	64271.50	394.00		617426.742	6761401.700	2.10	AFEL	34.5	31.8	617337.500	6761187.500	2.77	
64/2	64665.50	405.00		617273.957	6761038.529	2.12	AFEL	24.0	21.3	617212.500	6760882.500	1.58	
65/1	65070.50	506.00		617116.907	6760665.219	0.90	AFEL	37.5	34.8	617017.500	6760437.500	1.12	
65/2	65576.50	445.00		616920.691	6760198.813	1.13	AFEL	37.5	34.8	616827.500	6759967.500	1.50	
66/1	66021.50	399.00		616748.129	6759788.633	1.51	AFEL	27.0	24.3	616687.500	6759632.500	1.65	
66/2	66420.50	456.00		616593.406	6759420.853	1.40	AFEL	39.0	36.3	616412.500	6759007.500	65.51	
66/3	66876.50	98.00		616416.579	6759000.534	65.34	AFSP	16.5	13.8	616407.500	6759002.500	66.77	
66/4	66974.50	509.38		616378.577	6758910.202	33.20	AFSL	39.0	57.3	616242.500	6758592.500	2.36	
67/1	67483.88	406.62	05°30'34"E	616181.050	6758440.680	3.86	AFAA	27.0	27.0	616137.500	6758282.500	6.51	MV-20
67/2	67890.50	426.00		616060.086	6758052.470	1.78	AFEL	36.0	33.3	615997.500	6757862.500	1.76	

PROJETO EXECUTIVO LOTE Q LEILÃO ANEEL Nº 013/2015 - LINHAS DE TRANSMISSÃO

TABELA DE LOCAÇÃO

[illegible]

Obs: Sistema de Coordenadas UTM, Datum SIRGAS 2000 Fuso 22S.

A full-page sheet of white graph paper featuring a uniform grid of thin black horizontal and vertical lines. The grid covers the entire area of the page, providing a template for drawing or writing.