



POWER SYSTEM STATISTICS

2018-19

Kerala State Electricity Board Limited

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TABLE 1
GROWTH OF KERALA POWER SYSTEM

Sl. No.	Particulars	Unit	As on 31-3-09	As on 31-3-10	As on 31-3-11	As on 31-3-12	As on 31-3-13	As on 31-3-14	As on 31-3-15	As on 31-3-16	As on 31-3-17	As on 31-3-18	As on 31-3-19
1	Installed capacity	MW	2744.76	2752.96	2869.56	2878.36	2881.22	2891.72	2835.63	2880.18	2915.80	2975.56	2866.19
2	Maximum demand (Restricted)	MW	2765	2998	3119	3348	3268	3588	3602	3860	4004	3884	4242
3	Maximum demand (Unrestricted)	MW	2765	2998	3119	3473	3298	3588	3727	3985	4079	3910	4242
4	Annual energy requirement (Unrestricted)	MU	16357.16	17350.02	17807.77	19521.41	20736.19	21264.51	22040.04	22944.45	23849.54	24432.96	24958.23
5	Own generation	MU	6440.44	7189.51	7359.97	8289.91	5334.27	8163.03	7286.90	6739.25	4325.08	5460.34	7577.02
6	Power purchase (gross)	MU	9628.87	10204.21	10512.27	11263.21	14908.82	14070.42	15031.71	16448.36	19734.93	19426.74	18761.47
7	Energy available for sale Excl. PGCIL loss	MU	15293.41	16982.29	17340.27	18938.81	19877.21	20542.49	21573.16	22727.34	23763.58	24340.79	24849.16
8	Energy sale to other states	MU	463.33	53.90	130.24	201.10	0.97	1414.60	358.09	53.48	49.30	117.51	824.78
9	Energy sale (within the state)	MU	12414.32	13971.09	14547.90	15980.53	16838.29	17470.86	18430.73	19460.32	20452.91	21159.19	21750.25
10	Total sale including export	MU	12877.65	14024.99	14678.14	16181.63	16839.26	18885.46	18788.82	19513.80	20502.21	21276.70	22575.03
11	Per capita consumption	kWh	375	420	436	478	499	516	541	569	592	613	626
12	220 kV Lines	km	2641.86	2734.70	2734.70	2734.70	2761.57	2765.00	2801.20	2801.88	2801.88	2856.88	2952.34
13	110 kV Lines	km	4067.59	4115.89	4150.11	4151.00	4178.55	4260.27	4299.67	4345.52	4460.75	4521.50	4745.08
14	66 kV Lines	km	2161.91	2161.91	2161.91	2161.91	2166.51	2202.81	2202.81	2220.56	2154.75	2151.12	2145.33
15	33 kV Lines	km	1184.78	1390.20	1453.80	1534.80	1599.70	1719.28	1761.57	1826.66	1902.43	1943.51	1957.43
16	HT lines (11 kV & 22 kV)	km	41,440	44,839	48,503	51,489	53,068	53,740	55,547	57,650	59,496	59,457	61,014
17	LT lines	km								278574	283,811	286,784	289,804
18	Step up transformer capacity	MVA	2,465.60	2,472.20	2,594.40	2,605.40	2,612.00	2,615.00	2659	2691.05	2699.05	2707.05	2717.35
19	Step down transformer capacity **	MVA	14,631	15,726	16,660	16,996	17,408	17,913	18,461	18,779	19,143	20499	21216
20	EHT substations	No.	218	229	235	238	241	244	244	250	256	265	257
21	33 kV substations	No.	89	107	114	121	129	133	134	137	146	151	154
22	Distribution transformers	No.	46,359	52,149	57,954	62,329	64,972	67,546	71,195	73,460	75,580	77724	79876
23	Distribution transformer capacity	MVA	5,842.81	6,613.80	7,225.02	7,673.92	7,940.37	8,329.11	8,694.21	8,950.01	9,141.12	9439	9703.9
24	Number of consumers	Lakh	93.63	97.43	101.28	104.58	108.07	111.93	114.31	116.68	119.95	122.76	125.52
25	Connected load	MW	15,267.44	15,866.55	16,681.85	17,518.42	18,523.51	19,684.15	20391.53	20980.82	22040.62	23352.03	24940
26	Street lights	No.	1,086,688	1,148,220	1,202,988	1,218,610	1,257,285	1,297,480	1,349,101	1,407,024	1,412,689	1,417,639	1,422,764
27	Irrigation pump sets	No.	431,745	437,877	446,460	455,078	466,289	478,449	490,056	500,082	512,339	525,367	538,918
28	Total revenue from sale of power	Rs.Crore	4,893.02	4,747.17	5,198.52	5,593.02	7,223.39	9,974.18	9,879.34	10,487.71	11,035.88	12,057.27	13,053.08

Remarks

* Unit 2 & 3 of BDPP & Unit 1 & 4 of KDPP were de-commissioned as per B.O (DB) No.1792/14 & 1791/14

** Power transformers only

TABLE 2
PLAN WISE ACHIEVEMENTS

SI. No	Particulars	11th Plan					12th Plan					13 th Plan	
		1st Year	2nd Year	3rd Year	4th Year	5th Year	1st Year	2nd Year	3rd Year	4th Year	5 th Year	1st Year	2nd Year
		2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
1	Installed capacity (MW)	13.7	68.1	7	116.6	8.8	2.86	10.5	18.55	44.55	35.62	79.76	27.63
2	220 kV line (km)	1.01	0	18.26	0	0	26.87	0	36.2	0.68	0.00	54.10	0.00
3	110 kV line (km)	56.38	17.5	48.3	34.22	0.89	27.55	112.59	39.4	66.60	67.66	79.76	134.20
4	66 kV line (km)	11.13	0	0	0	0	4.60	36	0	6.00	0.00	0.44	29.50
5	33 kV line (km)	105.44	169.57	205.42	63.6	81	64.90	71.44	42.29	66.79	75.77	41.08	60.90
6	11 kV line (km)	1816	3048	3398	3659	2986	1579	1884	1807	2022	1844	1744.11	1773
7	LT Lines (km)	8158	7563	7838	6762	4105	3066	3735	4636	3312	5357.00	3129.73	3401
8	Step up transformer capacity (MVA)	0	38.2	6.6	122.2	11	6.60	3	44	32	8.00	8.00	10.30
9	No. of EHT substations including up gradation	6	2	11	6	3	3	6	2	11	3	11	4
10	No. of 33 kV substations	14	16	18	7	7	8	4	1	3	7	5	5
11	Step down transformer capacity (MVA)	469	385	1095	934	336	412	505	547.9	318	280.5	1355.2	716.7
12	No. of distribution transformers	2553	4109	5790	5805	4375	2643	3200	3547	2389	2271	2353	2410
13	Distribution transformer capacity (MVA)	265.17	514.67	770.99	611.22	448.9	266.45	388.74	365.1	255.8	191.11	297.88	264.9
14	Service connections effected	482766	442895	447817	442889	413682	403421	415216	422238	381247	465531	353642	368673
15	Connected load (MW)	912.31	2889.44	599.11	815.30	836.57	1005.09	1160.64	707.4	589.3	1059.80	1311.407	1588.273
16	Street lights installed (Nos.)	49448	37641	61532	54768	15622	38675	40195	51621	57923	5665	4950	5125
17	Pump sets connected (Nos.)	5285	9213	6132	8583	8618	11211	12160	11607	10026	12257	13028	12686

TABLE 3
PARTICULARS OF GENERATORS

		1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Name of Station	Pallivasal	Sengulam	Poringalkuthu	Neriamangalam	NES	Panniar	Sholayar	Sabarigiri	Kuttiyadi	Idukki Phase I	Idukki Phase II	Idamalayar	Kallada	Kanjikode wind farm
2	Make of units	Alstom Canada	Alstom Canada	Allonward-SSIPL consortium	Alstom Switzerland	VA Tech Hydro India Ltd.	Alstom Canada	Yibin Fuyuan Equipme nt of Power Generation Co.ltd.	VA Tech Hydro Austria #4 PDL	Fuji Japan	Canadian General Electric	Marine Industree Limitee	BHEL	BHEL	Vestas Denmark
3	Prime mover	Horizontal Pelton	Horizontal Pelton	Vertical Francis	Vertical Francis	Vertical Axis Francis Turbine	Vertical Francis	Vertical Francis	Vertical Pelton	Vertical Pelton	Vertical Pelton	Vertical Pelton	Vertical Francis	Vertical Kaplan	Wind
4	Rated kVA	5,550 / 9,330	14,125	10,000	19,500	27777	18,000	20,000	55,500/66,667	28,000	1,44,000	1,44,000	41,118	8,824	265
5	Rated voltage (kV)	11	11	11	11	11	11	11	11	11	11	11	11	11	0.4
6	Nominal output (MW)	5/7.5	12.7	9	17.55	25	16.2	18	55/60	25	130	130	37.5	7.5	0.225
7	Power factor	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.85	0.85	0.85
8	Speed (RPM)	750	600	600	600	500	600	750	500	600	375	375	333.3	428.5	1000
9	Synchronous reactance X _d (%)	117/113	114	1.0424	95	102.7	71.7	1.042 pu	102/123	85	0.94 pu	0.95 pu	105	124	-
10	Transient reactance X' _d (%)	30/25	26	.2321/.2526	20	22	15.8	0.193 pu	33/29	29	0.235 pu	0.25 pu	29	21	-
11	Sub transient reactance X'' _d (%)	24/22	22	0.637	13	18.43	12	0.153 pu	28/25	20	0.135 pu	0.19 pu	23	12.5	-
12	Negative sequence reactance X ₂ (%)	28/26	28	0.1877	16	16.98	12.5	0.23 pu	28/26	19.5	0.177 pu	0.225 pu	27	14.5	-
13	Zero sequence reactance X ₀ (%)	9/10	10	0.0457	6	9.86	5	0.04 pu	14/13	10.5	0.06 pu	0.08 pu	9	6.5	-
14	Short circuit ratio	1	1	1.6	1.08	1.218	1.55	1.05	1.1/0.96	1.1	1.23	1.1	1.05	1.1	-
15	Grounding of Neutral	Resistance	PT	NGT-10KVA	PT	Through single phase transformer with resistance across secondary	Neutral Grounding Transformer	Through NGT	PT with resistance	PT	Reactance Earthing	Reactance Earthing	Transformer	Transformer	
16	Rated field current (Amps)	798/813	801	500	430	1050	447	627	711/688	900	1170	1375	850	840	-

Table 3 continued

TABLE 3
PARTICULARS OF GENERATORS

		15	16	17	18	19	20	21	22	23	24	25	26	27
1	Name of Station	Lower Meenmutty	Kuttiadi Tail Race	Peppara	Lower Periyar	BDPP	PLBE	KDPP	Kakkad	Mattupetty	KES	Malampuzha	Chembukadavu Stage I	Chembukadavu Stage II
2	Make of units	VA Tech Flovel / TD Power	Jyothi	Jyothi / Kirloskar	BHEL	GEC Alstom France	BHEL	ABB	BHEL	Jyothi	GE Canada	Jyothi	Zhejiang Linhai Co Ltd. China	Kumming Electric Machinery Work, China
3	Prime mover	S-type Full Kaplan	Horizontal Full Kaplan	S-type Full Kaplan	Vertical Francis	Diesel Engine	Vertical Francis	Diesel Engine	Vertical Francis	Horizontal Francis	Vertical Pelton	Horizontal Semi Kaplan	Horizontal Francis	Horizontal Francis
4	Rated kVA	1667/555.61	1,470	3,500	66,670	23,690	17,800	17,778	29,412	2,353	55,556	2,941	1,125	1,562.5
5	Rated voltage (kV)	3.3	3.3	11	11	11	11	11	11	11	11	11	6.3	6.3
6	Nominal output (MW)	1.5 / 0.5	1.25	3	60	21.32	16	16	25	2	50	2.5	0.9	1.25
7	Power factor	0.9	0.85	0.85	0.9	0.9	0.9	0.9	0.85	0.85	0.9	0.85	0.8	0.8
8	Speed (RPM)	750 / 500	600	500	333.3	428	600	500	428.6	750	500	750	750	750
9	Synchronous reactance X _d (%)	90 / 100	80	90	100	160	105	216	100	88.4	99	90	110	113
10	Transient reactance X' _d (%)	15 / 19	26.2	18	25	37	30	40	26.4		29	25	20.74	26
11	Sub transient reactance X'' _d (%)	14 / 18	17.4	14	25	27.5	18	21	15	18.4	25	19	13.78	19
12	Negative sequence reactance X ₂ (%)	11.7/15	17.1	15	18	29.5	24	21		10.25	27	20	14.35	19
13	Zero sequence reactance X ₀ (%)	6/7	11.06	1	10	14.3	6	10.5		8.52	7	8	5.33	5.9
14	Short circuit ratio	1.31/1.3	1.1	1.1	1	0.75	1	0.531	1	1	1.1	1.11	1.095	1
15	Grounding of Neutral	Resistance	PT	Resistance	Transformer	Transformer	Transformer	Resistance	Transformer	NGT/NGR	Transformer	Transformer	Ungrounded	Ungrounded
16	Rated field current (Amps)	192.34/140.51	240/95	4.8	1062	1085	750	405	950	235	1304	280	230	272

Table 3 continued

TABLE 3
PARTICULARS OF GENERATORS

		28	29	30	31	32	33	34	35	36	37	38	39	40	41
1	Name of Station	Urumi Stage I	Urumi Stage II	Malankara	KAES	Ranni Perinad	Poozhithode	Peechi	Vilangad	Chimmony	Barapole	Adyanpara	Vellathooval	Perunthenaruvi	Kakkayam SHEP
2	Make of units	Chonging Electric Machinery Federation Ltd, China	Hangzom Electric Equipment Work, China	Kossler Austria/Jyothi	BHEL	Crompton/Kirlosker	TD Power System / Flovel	Kirloskar	TD Power System / Flovel	TD Power Systems Ltd	WEG Industries Pvt. Ltd.	Crompton Greaves	TD Power Systems Ltd	TD Power Systems Ltd	Crompton/Kirlosker
3	Prime mover	Horizontal Francis	Horizontal Francis	Horizontal Kaplan	Vertical Pelton	Horizontal Kaplan	Horizontal Francis	Horizontal Kaplan	Horizontal Francis	Horizontal Francis	Horizontal Francis	Horizontal Francis	Axial Flow 'S' type Horizontal Kaplan	Axial Flow 'S' type Horizontal Kaplan	Horizontal Kaplan
4	Rated kVA	1,562.5	1,000	4,118	55,560	2,222	1,778	1,388	2,778	2,778	5,556	1,667	2,000	3333	1667
5	Rated voltage (kV)	6.3	6.3	11	11	3.3	3.3	3.3	3.3	3.3	11	3.3	3.3	6.6	11
6	Nominal output (MW)	1.25	0.8	3.5	50	2	1.6	1.25	2.5	2.5	5	1.5	1.8	3	1.5
7	Power factor	0.8	0.8	0.85	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
8	Speed (RPM)	1000	1000	750	500	750	750	600	750	600	500	750	750	750	750
9	Synchronous reactance X _d (%)	127	112	93.55	108	100	89.3	85	100	125	122	115	125	125	125
10	Transient reactance X' _d (%)	19.1	17.35	27.22	20.6	22	22.06	26	23	35.6	28	21	26	20	26
11	Sub transient reactance X'' _d (%)	13.6	13.03	17.22	11.38	15	17.6	19	16	22.4	19	13.4	20	16	18
12	Negative sequence reactance X ₂ (%)	14.4	14.13	23.84	11	20	29	18	22	28	21	13.5	28	26	18
13	Zero sequence reactance X ₀ (%)	4.7	4.1	8.41	8	15	19	12	16	20	4	14.2	19	19	16
14	Short circuit ratio	≥1.0	>1.0	1	>1	1	1.12	1	1.08	0.8	0.81	0.87	0.8	0.8	0.8
15	Grounding of Neutral	Ungrounded	Ungrounded	Transformer	Transformer	Transformer	Transformer	Transformer	Neutral grounding resistor	Yes	Yes	Yes	NGT	NGT	NGT
16	Rated field current (Amps)	276	260	650	2916	140	204.6	184	178	486	291.6	95	161	292	110A

TABLE 4
INSTALLED GENERATING CAPACITY (STATION WISE)

Sl. No.	Name of Station	Unit Capacity (MW)	Date of Commissioning		Station Capacity (MW)	Annual Generation Capability (MU)	Design PLF (%)
			Original date	After renovation			
	PART A - HYDEL						
1	Pallivasal	Unit #1 - 5 Unit #2 - 5 Unit #3 - 5 Unit #4 - 7.5 Unit #5 - 7.5 Unit #6 - 7.5	19.03.1940 02.02.1941 10.02.1942 01.05.1948 01.10.1949 07.03.1951	19.11.2001 17.11.2001 20.11.2001 26.08.2002 21.08.2002 19.08.2002	37.5000	284	86.67
2	Sengulam	Unit #1 - 12.8 Unit #2 - 12.8 Unit #3 - 12.8 Unit #4 - 12.8	01.05.1954 25.07.1954 11.11.1954 05.01.1955	30.11.2002 04.10.2002 05.12.2001 01.12.2001	51.2000	182	43.33
3	Neriamangalam	Unit #1 - 17.55 Unit #2 - 17.55 Unit #3 - 17.55	27.01.1961 09.04.1961 11.05.1963	20.10.2004 31.11.2005 29.09.2006	52.6500	237	60
4	Panniar	Unit #1 - 16.2 Unit #2 - 16.2	29.12.1963 26.01.1964	01.02.2003 23.11.2001	32.4000	158	60
5	Poringalkuthu	Unit #1 - 9 Unit #2 - 9 Unit #3 - 9 Unit #4 - 9	06.03.1957 13.01.1958 24.04.1959 06.02.1960	23.04.2014 15.08.2014 08.02.2015 29.05.2015	36.0000	191	61.25
6	Sholayar	Unit #1 - 18 Unit #2 - 18 Unit #3 - 18	09.05.1966 26.01.1968 14.05.1968		54.0000	233	38.15
7	Sabarigiri	Unit #1 - 55 Unit #2 - 55 Unit #3 - 55 Unit #4 - 60 Unit #5 - 55 Unit #6 - 60	18.04.1966 14.06.1966 29.12.1966 22.06.1967 09.09.1967 26.11.1967	08.11.2009 07.02.2009 17.03.2008 06.05.2014 05.05.2006 01.07.2005	340.0000	1338	51
8	Kuttiyadi	Unit #1 - 25 Unit #2 - 25 Unit #3 - 25	11.09.1972 01.11.1972 28.11.1972	NA	75.0000	268	40.80
9	Idukki	Unit #1 - 130 Unit #2 - 130 Unit #3 - 130 Unit #4 - 130 Unit #5 - 130 Unit #6 - 130	12.02.1976 07.06.1976 24.12.1976 04.11.1985 22.03.1986 09.09.1986	NA	780.0000	2398	35.92
10	Idamalayar	Unit #1 - 37.5 Unit #2 - 37.5	03.02.1987 28.02.1987	NA	75.0000	380	57.73
11	Kallada	Unit #1 - 7.5 Unit #2 - 7.5	05.09.1994 05.01.1994	NA	15.0000	65	40.33
12	Peppara	3	15.06.1996	NA	3.0000	11.50	43.33
13	Lower Periyar	Unit #1 - 60 Unit #2 - 60 Unit #3 - 60	27.09.1997 22.10.1997 28.11.1997	NA	180.0000	493	31.28
14	Mattupetty	2	14.01.1998	NA	2.0000	6.40	35
15	Poringalkuthu Left Bank Extension	16	20.03.1999	NA	16.0000	74	61.25
16	Kakkad	Unit #1 - 25 Unit #2 - 25	13.10.1999	NA	50.0000	262	60
17	Kuttiyadi Extension	50	27.01.2001	NA	50.0000	75	17.12
18	Malampuzha	2.5	26.11.2001	NA	2.5000	5.60	25.60
19	Chembukadavu Stage I	Unit #1 - 0.9 Unit #2 - 0.9 Unit #3 - 0.9	19.08.2003 19.08.2003 19.08.2003	NA	2.7000	6.59	28
20	Chembukadavu Stage II	Unit #1 - 1.25 Unit #2 - 1.25 Unit #3 - 1.25	04.09.2003 04.09.2003 04.09.2003	NA	3.7500	9.03	28
21	Urumi Stage I	Unit #1 - 1.25 Unit #2 - 1.25 Unit #3 - 1.25	25.01.2004 25.01.2004 25.01.2004	NA	3.7500	9.72	30
22	Urumi Stage II	Unit #1 - 0.8 Unit #2 - 0.8 Unit #3 - 0.8	25.01.2004 25.01.2004 25.01.2004	NA	2.4000	6.28	30

Table-4 contd..

Sl. No.	Name of Station	Unit Capacity (MW)	Date of Commissioning		Station Capacity (MW)	Annual Generation Capability (MU)	Design PLF (%)
			Original date	After renovation			
23	Malankara	Unit #1 - 3.5 Unit #2 - 3.5 Unit #3 - 3.5	23.10.2005 23.10.2005 23.10.2005	NA	10.5000	65	70
24	Lower Meenmutty	Unit #1 - 1.5 Unit #2 - 1.5 Unit #3 - 0.5	25.03.2006 25.03.2006 25.03.2006	NA	3.5000	7.63	30
25	Neriamangalam Extension	25	27.05.2008	NA	25.0000	58.27	30
26	Kuttiadi Tailrace	Unit #1 - 1.25 Unit #2 - 1.25 Unit #3 - 1.25	19.06.2008 22.06.2008 23.10.2009	NA	3.7500	17.01	50
27	Kuttiadi Additional Extension	Unit #1 - 50 Unit #2 - 50	11.10.2010 30.10.2010	NA	100.0000	223	30
28	Poozhithode	Unit #1 - 1.6 Unit #2 - 1.6 Unit #3 - 1.6	25.06.2011 25.06.2011 25.06.2011	NA	4.8000	10.97	26
29	Ranni Perinad	Unit #1 - 2 Unit #2 - 2	16.02.2012 16.02.2012	NA	4.0000	16.73	48
30	Peechi	1.25	07.01.2013	NA	1.2500	3.21	30
31	Vilangad	Unit #1 - 2.5 Unit #2 - 2.5 Unit #3 - 2.5	26.07.2014	NA	7.5000	22.63	34
32	Chimony	2.5	25.05.2015	NA	2.5000	6.7	30
33	Adyanpara	Unit #1 - 1.5 Unit #2 - 1.5 Unit #3 - 0.5	03.09.2015 03.09.2015 03.09.2015	NA	3.5000	9.01	30
34	Poringalkuthu Micro	Unit#011	1.2.2016	NA	0.0110	0.082	
35	Barapole	Unit #1 - 5 Unit #2 - 5 Unit #3 - 5	29.02.2016 29.02.2016 29.02.2016	NA	15.0000	36	27
36	Vellathooval	Unit #1 - 1.8 Unit #2 - 1.8	26.5.2016	NA	3.6000	12.7	40
37	Perunthenaruvi	Unit #1 - 3.0 Unit #2 - 3.0	23.10.2017	NA	6.0000	25.77	49
38	Kakkayam	Unit #1 - 1.5 Unit #2 - 1.5	16.07.2018		3.0000	7.34	
Total					2058.7610	7215.1720	
PART B - WIND							
1	Kanjikode	9 x 0.225 MW	18.05.1995	NA	2.0250	4.00	20
Total					2.0250	4.0000	
PART C - THERMAL							
1	Brahmaputra Diesel Power Plant (BDPP)	Unit #1 - 21.32 Unit #4 - 21.32 Unit #5 - 21.32	06.05.1997 17.12.1997 24.11.1998	NA	63.9600	363.60	68.50
2	Kozhikode Diesel Power Plant (KDPP)	Unit #2 - 16 Unit #3 - 16 Unit #5 - 16 Unit #6 - 16 Unit #7 - 16 Unit #8 - 16	11.09.1999 18.09.1999 30.09.1999 11.09.1999 25.10.1999 06.11.1999	NA	96.0000	672.00	80
Total					159.9600	1035.6000	148.50
3	Kayamkulam (NTPC)	Unit #1 - 116.6 Unit #2 - 116.6 Unit #3 - 126.6	02.11.1999 28.02.1999 11.12.1999	NA	359.5800	2158	68.50
PART D - SOLAR							
1	Kanjikode S/s	1.00	10.08.2015	NA	1.0000	1.58	18.00
2	Chaliyoor Colony, Agali	0.096	31.08.2015	NA	0.0960	0.15	18.00
3	Poringalkuthu Powerhouse	0.05	10.09.2015	NA	0.0500	0.06	14.00
4	Banasurasagar FL, Wayanad	0.01	21.01.2016	NA	0.0100	0.01	17.00
5	Meencut RT	0.03	30.06.2016	NA	0.025	0.04	18.00
6	Kothamangalam RT	0.13	31.07.2016	NA	0.125	0.20	18.00
7	Moolamattom RT	0.05	30.06.2016	NA	0.05	0.08	18.00
8	Thrissur RT	0.35	31.07.2016	NA	0.345	0.54	18.00
9	Kollengode Substation	1.00	08.08.2016	NA	1.0000	1.66	19.00
10	Padinjarethara RT	0.44	29.08.2016	NA	0.4400	0.73	19.00
11	Moozhayar RT	0.13	31.08.2016	NA	0.125	0.19	17.00
12	Edayar Substation premises	1.25	05.09.2016	NA	1.2500	2.08	19.00
13	Barapole Canal bank	1.00	7.11.2016	NA	1.0000	1.66	19.00
14	Barapole Canal top	3.00	17.11.2016	NA	3.0000	4.99	19.00
15	KDPP,Kozhikode	0.035	10.03.2017	NA	0.0350	0.06	18.00

Table-4 contd..

Sl. No.	Name of Station	Unit Capacity (MW)	Date of Commissioning		Station Capacity (MW)	Annual Generation Capability (MU)	Design PLF (%)
			Original date	After renovation			
16	Thalakulathoor	0.65	22.04.2017	NA	0.6500	1.00	17.50
17	Roof Top of Vidyuthi Bhavanam	0.03	17.05.2017	NA	0.0300	0.04	14.62
18	Manjeswaram GM	0.50	30.05.2017	NA	0.5000	0.70	16.00
19	Kuttipuram GM	0.50	28.11.2017	NA	0.5000	0.83	19.00
20	Roof Top KSEBL Distribution Wing Buildings (12 nos.)	0.46	21.12.2017	NA	0.4550	0.45	11.39
21	Pezhayikkappalli	1.25	15.01.2018	NA	1.2500	1.75	16.00
22	Pothencode SS	2.00	02.02.2018	NA	2.0000	2.80	16.00
23	Roof Top KSEBL Transmission Wing Buildings (27 nos.)	0.96	28.02.2018	NA	0.9550	1.07	12.82
24	Poringalkuthu Screw generation	0.01	06.02.2016	NA	0.0100	0.01	17.00
25	110KV S/s,Ponnani RT	0.50	16.01.2019	NA	0.50	0.83	19.00
27	Floating solar	0.50	2.2019	NA	0.5000	0.74	17.00
28	Peerumedu RT	0.50	23.04.2018	NA	0.50	0.83	19.00
29	DDG Palakkad, 7 tribal Colonies(offgrid)	0.07	2017	NA	0.07	0.08	14.00
Total					16.85	25.19	
PART E - PRIVATE HYDRO							
1	Maniyar(Captive)	Unit #1 - 4 Unit #2 - 4 Unit #3 - 4	31.03.1994 30.12.1994 29.12.1994	NA	12.0000	36	30.83
2	Kuthungal(Captive)	Unit #1 - 7 Unit #2 - 7 Unit #3 - 7	01.06.2001 01.06.2001 01.06.2001	NA	21.0000	79	42.94
3	Ullunkal	Unit #1 - 3.5 Unit #2 - 3.5	13.11.2008 13.11.2008	NA	7.0000	32.22	53
4	Iruttukkanam	Unit #1 - 1.5 Unit #2 - 1.5 Unit #3 - 1.5	18.09.2010 19.09.2010 4.04.2012	NA	4.5000	15.86	50
5	Pampunkayam (Mankulam)	Unit #1 - 0.055 Unit #2 - 0.055	3.8.2012	NA	0.1100	0.29	-
6	Karikkayam*	Unit #1 - 3.5 Unit #2 - 3.5 Unit #3 - 3.5 Additional 4.5	29.08.2013 2.09.2013 28.09.2013 23.05.2017	NA	15.0000	62.42	-
7	Meenvallom	Unit #1 - 1.5 Unit #2 - 1.5	17.6.2014	NA	3.0000	8.37	-
8	Kallar	0.05	31.3.2015	NA	0.0500	0.13	-
9	Pathankayam	Unit #1 - 3.5 Unit #2 - 3.5 Unit #3 - 1.0	14.7.2017	NA	8.0000	21.02	30.00
Total					70.6600	255.3050	
PART F - PRIVATE THERMAL							
1	BSES	Unit #1 - 40.5 Unit #2 - 40.5 Unit #3 - 40.5 Unit #4 - 35.5	15.06.2001 15.06.2001 15.06.2001 01.03.2002	NA			80
2	Kasaragode Power Corporation*	Unit #1 - 7.3 Unit #2 - 7.3 Unit #3 - 7.3	01.01.2001	NA			
3	MPS Steel Castings Ltd (Co-generation plant)	10	19.02.2009	NA	10.0000	67.63	77.20
4	Phillips Carbon Black Ltd (Co-generation plant)	52	31.03.2011	NA	10.0000	70.08	-
Total					20.0000	137.7100	
PART G - PRIVATE WIND							
1	Ramakalmedu	6 x 0.75 MW 12 x 0.75 MW 1 x 0.75 MW	31.03.2008 31.03.2009 31.03.2010	NA	14.2500	32.46	26
2	Agali	7 x 0.6 MW 16 x 0.6 MW 2 x 0.6 MW 6 x 0.6 MW	31.03.2008 31.03.2010 29.09.2010 31.10.2010	NA	18.6000	37.47	23
3	Ahalia Alternate Energy Pvt Ltd, Kanjikode	1 x 2.1 MW 3 x 2.1 MW	22.02.2016 23.03.2016	NA	8.4000	16.19	22
4	INOX	8x2 MW		NA	16.0000	30.83	22
5	Kosamattom	1X1 MW		NA	1.0000	1.66	19
Total					58.25	118.61	

Table-4 contd..

Sl. No.	Name of Station	Unit Capacity (MW)	Date of Commissioning		Station Capacity (MW)	Annual Generation Capability (MU)	Design PLF (%)
			Original date	After renovation			
	PART H - PRIVATE SOLAR						
1	Cochin International Airport Ltd. (Prosumer)	29.027 MW	24.03.2018	NA	29.027	45.77	18
2	Solar park, Ambalathara	4 MW	14.12.2016	NA	50.0000	78.84	18
		16 MW	04.01.2017				
		8 MW	07.02.2017				
		8 MW	30.03.2017				
		14 MW	13.09.2017				
3	Anert,Kuzhalmandam	2MW	09.12.2016	NA	2.0000	3.15	18
4	Hindalco (Prosumer)	1MW	31.03.2016		1.0000	1.58	18
5	Grid Connected Prosumer	MW	As on 31.3.2019		35.34	52.63	17
6	Off Grid Solar Prosumers		As on 31.3.2019		2.74	4.08	17
	Total				120.11	181.97	
	GRAND TOTAL				2866.19	11131.56	

Karikkayam- On COD 10.5 MW was only allowed due to availability of water .Additional 4.5MW allowed for Karikkayam due to increased height of weir

*

For solar plants, value mentioned against %PLF is % design CUF

TABLE 5

ANNUAL PLANT LOAD FACTOR (PLF) OF HYDRO STATIONS (in %)

Station	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
Idukki	29.79	33.06	44.52	22.87	40.08	36.5	34.62	20.68	25.04	44.09
Sabarigiri	53.36	55.97	58.49	35.16	66.32	41.12	39.21	26.77	32.55	50.78
Idamalayar	49	56.53	52.97	37.89	58.64	56.72	45.4	27.34	45.78	52.62
Kuttiady + KES +KAES	60.36	29.87	38.76	25.36	42.79	39.57	30.34	24.93	32.4	35.45
Poringalkuthu	52.3	63.27	59.46	46.02	37.66	57.97	54	42.79	51.29	40.29
PLBE	77.64	86.1	72.68	70.47	81.27		75.7			21.25
Sholayar	47.34	51.42	46.46	44.12	49.27	50.36	44.3	35.33	43.18	41.57
Pallivasal	85.14	84.56	70.27	51.49	65.61	78.94	83.5	68.18	77.36	56.36
Sengulam	35.74	38.34	38.49	25.45	33.48	36	38.17	27.49	34.46	27.51
Panniar	46.22	63.73	65.63	32.06	60.76	55.26	61.98	22.17	46.18	36.88
Neriamangalam	48.58	53.28	53.11	33.48	52.37	50.57	51.72	28.89	45.75	55.39
Lower Periyar	32.59	38.21	41.14	22.61	38.12	37.44	33.04	19.99	30.2	33.25
Kakkad	59.23	55.21	52.86	32.07	56.54	56.18	54.48	38.04	47.04	50.37
Kallada	45.98	54.86	49.94	16.6	51.57	48.53	33.88	35.55	41.22	51.95
Peppara	23	37.12	31.19	14.05	29.06	20.34	16.3	14.96	19.84	31.30
Madupetty	10.91	13.01	6.96	13.97	34.87	21.87	25.01	13.17	18.55	9.65
Malampuzha	0	0	12.63	8.69	20.03	25.14	9.2	2.85	6.38	19.41
Chembukadavu	14.98	23.96	21.23	16.56	21.85	20.32	16.65	15.26	18.83	13.50
Urumi	21.5	29.58	24.63	19.69	25.43	24.09	16.93	16.44	20.76	12.07
Malankara	56.14	63.87	55.25	45.79	32.99	64.23	35.2	47.08	53.94	36.15
Lower Meenmutty	11.17	23.47	15.86	7.04	17.9	20.78	18.78	8.14	16.48	19.81
Kuttiady Tailrace	21.09	19.84	26.09	23.96	24.86	35.93	25.39	19.29	25.11	62.06
Poozhithode	-	-	22.27	25.38	28.59	26.94	22.19	24.86	27.63	0.74
Ranni-Perinad	-	-	0.16	4.68	26.1	33.57	22.35	16.61	17.99	10.01
Peechi	-	-	-	-	-	16.39	12.86	3.53	10.21	22.84
Vilangad	-	-	-	-	-	10.98	19.23	23.84	23.32	11.83
Chimmony	-	-	-	-	-	-	20.68	6.95	15.22	30.60
Adyanpara	-	-	-	-	-	-	7	16.32	12	1.05
Vellathooval	-	-	-	-	-	-	-	9.66	14.34	1.61
Barapole	-	-	-	-	-	-	-	-	31.22	9.15
Perunthenaruvi	-	-	-	-	-	-	-	-	5.94	14.63
Kakkayam SHEP								-	-	-

TABLE 6
GENERATING CAPACITY, MAXIMUM DEMAND AND LOAD FACTOR

Sl. No.	Year	Installed Capacity (MW)	Energy Input to System excl. aux. cons. & ext. losses (Gen. + Purchase - Export) (MU)	Maximum Demand (MW)	Load Factor (%)
1	2000-01	2422.61	12464.00	2316	61.43%
2	2001-02	2605.91	12518.31	2333	61.25%
3	2002-03	2608.71	12391.13	2347	60.27%
4	2003-04	2621.31	12280.87	2426	57.79%
5	2004-05	2623.86	12504.84	2420	58.99%
6	2005-06	2650.41	13331.03	2578	59.03%
7	2006-07	2662.96	14427.96	2742	60.07%
8	2007-08	2676.66	15065.15	2745	62.65%
9	2008-09	2744.76	15293.41	2765	63.14%
10	2009-10	2752.96	16982.29	2998	64.66%
11	2010-11	2869.56	17340.28	3119	63.47%
12	2011-12	2878.36	18938.81	3348	64.57%
13	2012-13	2881.22	19877.21	3268	69.43%
14	2013-14	2891.72	20542.49	3588	65.36%
15	2014-15	2835.63	21573.16	3602	68.37%
16	2015-16	2880.18	22727.34	3860	67.21%
17	2016-17	2915.80	23763.57	4004	67.75%
18	2017-18	2975.56	24340.79	3884	71.54%
19	2018-19	2866.19	24849.15	4242	66.87%

TABLE -7
RESERVOIR DETAILS AND DATA FOR POWER GENERATION

Name of Reservoir	Full reservoir level (M)	Effective storage at FRL (MCM)	MDDL (M)	Dead storage (MCM)	Name of Power station	Installed Capacity (MW)	Generation potential at FRL (MU)	Average net effective head (m)	Water required for 1 MU generation (MCM)	Full load discharge of one machine (m ³ /sec)
Kuttiyadi	758.04	33.99	737.62	4.40	Kuttiyadi	3 x 25	41.46		0.71	5.69
					KES	1 x 50			0.70	8.60
Thariode	775.60	201.00	754.86	23.75	KAES	2 x 50	245.22			
Sholayar	811.68	149.23	779.37	4.25	Sholayar	3 x 18	152.21	300	1.50	7.50
Poringalkuthu	423.98	30.30	405.69	1.70	Poringalkuthu	4 x 8	10.73	170	2.83	6.29
					PLBE	1 x 16			2.57	11.42
Idamalayar	169.00	1017.80	115.00	72.00	Idamalayar	2 x 37.5	254.45	110	4.00	41.67
Kundala	1758.70	7.80	1735.84	0.02	Pallivasal	3 x 5	22.74	570	0.71	0.98
Mattupetty	1599.59	55.22	1554.48	0.13		3 x 7.5	161.23		0.79	1.65
Sengulam	847.64	1.61	844.86		Sengulam	4 x 12.8	0.71	341	1.27	4.23
Anayirankal	1207.01	49.00	1188.11	0.85	Panniyar	2 x 16.2	65.62	220	2.13	8.83
Ponmudi	707.75	47.40	676.66	4.15			63.52			
Neriamangalam	456.59	5.56	445.91	1.31	Neriamangalam	3 x 17.55	4.83	180	2.44	10.12
					NES	1 x 25				
Idukki	732.43	1459.70	694.94	536.86	Idukki	6 x 130	2147.88	660	0.68	24.50
Pamba	986.33	31.10	963.16	8.10	Sabarigiri	4x55+2x60	59.46	750	0.62	8.61
Kakki	981.46	446.50	908.30	7.60			856.47			
Kallada	115.82	488.53	24.38	16.14	Kallada	2 x 7.5	50.10	43	9.75	20.32
Peppara	110.50	67.50	87.50	2.50	Peppara	1 x 3	3.45	25	19.55	16.30
Lower Periyar	253.00	4.55	237.74	0.80	Lower Periyar	3 x 60	2.09	203.63	2.17	36.66
Kakkad	192.63	1.16	181.36	0.34	Kakkad	2 x 25	0.36	132.6	3.25	22.58
Malampuzha	115.09	236.70	99.50	10.20	Malampuzha	1 x 2.5	5.60	14.4	28.24	23.14
Chembukadavu I	No Reservoir	NA	NA	NA	Chembukadavu I	3 x 0.9	NA	35.5	12.22	3.06
Chembukadavu II					Chembukadavu II	3 x 1.25		55	7.75	2.69
Urumi I	No Reservoir	NA	NA	NA	Urumi I	3 x 1.25	NA	96.5	4.47	1.55
Urumi II					Urumi II	3 x 0.8		55	7.98	1.77
Lower Meenmutty	62.75	NA	61.3	NA	Lower Meenmutty	2x1.5+1x0.5		13	35.90	14.98
Malankara	42	18.8	36	18.5	Malankara SHEP	3 x 3.5	0.53	12.2	35.50	34.50
Ranni Perinad	No Reservoir	NA	NA	NA	Ranni Perinad	2 x 2	NA	6.3		78.34
Poozhithode	No Reservoir	NA	NA	NA	Poozhithode	3 x 1.6	NA	72	5.67	91.87
Peechi	79.25		69.7	0.62	Peechi	1 x 1.25	3.21	22.75		6.31
Vilangad	No Reservoir	NA	NA	NA	Vilangad	3 x 2.5	22.63	99	4.14	2.875
Chimmony	79.4	172.82	56.5	2.54	Chimmony	1 x 2.5	6.7	45.46	12.86	8.93
Barapole	No Reservoir	NA	NA	NA	Barapole	3 x 5	36	50	8.47	11.30
Adyanpara	No Reservoir	NA	NA	NA	Adyanpara	2 x 1.5 + 0.5	9.01	94	4.4023	1.83
PLBE tail race	No Reservoir	NA	NA	NA	Poringal kuttu Micro	1 x.011	0.1	1		
Vellathooval	No Reservoir	NA	NA	NA	Vellathooval	2 X 1.8	12.17	12	30.8	15.65
Perunthenaruvi	51	0.6	48	0.4	Perunthenaruvi	2 x3	0.025	17.33	24	20.98

TABLE 8

STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS FOR 2008-09

(in Million Units)

	Name of Station / Source	04/08	05/08	06/08	07/08	08/08	09/08	10/08	11/08	12/08	01/09	02/09	03/09	Total
A	Hydro													
1	Idukki	346.75	347.66	242.20	190.05	110.78	121.54	119.27	125.29	123.62	97.81	121.47	151.11	2097.51
2	Sabarigiri	160.25	81.92	0.06	18.98	74.74	77.16	83.31	78.49	82.79	82.09	103.37	119.51	962.67
3	Idamalayar	33.57	36.40	33.22	17.98	14.45	28.06	33.59	22.47	9.61	22.76	26.32	15.35	293.79
4	Kuttiadi + KES	43.51	40.76	53.19	67.86	78.69	56.18	58.91	40.70	38.74	30.14	37.81	48.07	594.55
5	Poringalkuthu	5.02	6.50	7.43	17.52	22.53	17.63	19.28	9.73	6.15	3.58	6.24	5.82	127.44
6	Poringalkuthu LBE	7.83	8.70	5.79	11.62	11.48	11.27	11.06	8.91	8.34	8.25	7.50	8.89	109.62
7	Sholayar	23.41	20.68	1.83	4.81	2.85	26.62	28.06	12.83	19.08	18.06	29.07	26.61	213.89
8	Pallivasal	20.80	17.08	13.45	13.56	13.13	15.32	15.68	18.42	18.67	16.85	16.28	18.70	197.96
9	Sengulam	12.34	10.67	12.23	13.68	18.57	17.51	15.96	13.46	10.76	9.79	8.72	9.97	153.66
10	Panniar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Neriamangalam + NES	24.01	30.19	17.99	27.78	47.37	43.84	40.89	27.63	19.20	14.08	10.54	15.74	319.26
12	Lower Periyar	26.12	29.07	26.75	55.26	100.19	87.50	58.31	36.02	21.80	15.99	11.14	15.20	483.36
13	Kakkad	22.29	11.75	2.30	9.41	15.75	15.26	14.49	12.57	12.54	13.12	15.35	17.96	162.80
14	Kallada	5.32	3.81	2.40	0.91	1.23	1.26	3.88	7.71	2.82	4.50	5.54	6.97	46.34
15	Peppara	0.02	0.12	0.00	0.10	0.86	1.07	1.11	0.75	0.67	0.28	0.28	0.27	5.52
16	Malankara	3.58	4.42	3.93	4.19	3.43	3.20	2.29	1.84	1.74	1.16	1.51	2.18	33.49
17	Madupetty	0.98	0.82	0.30	0.04	0.00	0.00	0.60	0.46	0.50	0.65	0.58	0.81	5.74
18	Chembukadavu	0.00	0.00	1.82	2.98	2.58	2.06	0.56	0.05	0.00	0.00	0.00	0.00	10.03
19	Urumi	0.00	0.00	2.85	2.98	2.47	2.18	1.03	0.24	0.04	0.00	0.00	0.00	11.79
20	Malampuzha	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	Lower Meenmutty	0.10	0.10	0.20	0.59	0.53	0.93	0.60	0.60	0.34	0.07	0.02	0.03	4.11
22	Kuttiady Tailrace	0.00	0.00	0.00	0.38	0.87	0.98	0.91	0.60	0.63	0.42	0.50	0.47	5.76
	Sub Total Hydro	735.89	650.66	427.95	460.67	522.48	529.56	509.79	418.76	378.03	339.59	402.23	463.67	5839.28
	Auxiliary consumption	3.39	3.00	1.97	2.12	2.41	2.44	2.35	1.93	1.74	1.56	1.85	2.14	26.90
	Net Hydro Generation	732.50	647.66	425.98	458.55	520.07	527.12	507.45	416.83	376.29	338.02	400.38	461.54	5812.38
B	Wind	0.11	0.30	0.19	0.22	0.22	0.16	0.05	0.03	0.08	0.10	0.05	0.17	1.68
C	Thermal													
1	BDPP	26.77	24.94	23.29	16.44	12.21	11.67	16.35	15.39	19.15	11.31	12.08	26.91	216.49
2	KDPP	26.40	38.46	27.61	34.35	36.72	30.89	39.09	42.11	40.91	38.03	36.58	45.89	437.04
	Sub Total Thermal	53.16	63.40	50.90	50.80	48.93	42.57	55.44	57.50	60.06	49.33	48.66	72.80	653.54
	Auxiliary consumption	1.40	1.67	1.34	1.34	1.29	1.12	1.46	1.51	1.58	1.30	1.28	1.91	17.19
	Net Thermal Generation	51.76	61.73	49.56	49.46	47.64	41.45	53.98	55.99	58.48	48.03	47.38	70.88	636.35

Table-8 contd..

	Name of Station / Source	04/08	05/08	06/08	07/08	08/08	09/08	10/08	11/08	12/08	01/09	02/09	03/09	Total
D	Total Internal Generation (excl. aux. cons.)	784.38	709.70	475.72	508.23	567.93	568.72	561.47	472.84	434.85	386.16	447.82	532.59	6450.41
E	Central Generating Stations													
1	NTPC-RSTPS	200.32	192.62	186.70	184.39	193.86	197.84	185.63	195.85	218.57	216.46	183.79	219.64	2375.67
2	Talcher Stage-II	296.03	268.10	221.40	224.05	187.56	214.87	237.18	183.39	267.33	291.88	279.84	310.27	2981.90
3	NLC-Stage-I	26.32	32.14	17.99	35.03	26.20	20.46	22.79	17.12	18.01	36.82	36.69	40.72	330.29
4	NLC-Stage-II	38.35	47.72	33.45	34.94	30.43	36.79	47.42	35.13	32.97	56.83	51.76	57.23	503.02
5	NLC Expansion	45.42	43.58	37.17	46.77	46.34	35.66	23.86	28.42	22.57	45.12	42.43	47.15	464.49
6	MAPS	5.37	4.24	5.51	6.41	1.36	6.34	7.42	6.18	4.39	3.40	3.81	8.50	62.93
7	KAIGA	23.28	15.19	26.01	22.89	10.37	13.91	17.25	19.76	15.27	13.97	6.50	17.32	201.72
	Sub Total CGS	635.09	603.59	528.23	554.48	496.12	525.87	541.55	485.85	579.11	664.48	604.82	700.83	6920.02
F	UI Import	-54.57	4.33	142.02	57.59	76.36	90.39	31.12	19.67	20.18	-3.67	-29.64	-35.75	318.03
G	IPPs													
1	RGCCPP	51.69	101.75	65.98	90.68	21.79	0.00	102.57	106.31	68.06	117.59	106.44	116.62	949.48
2	BSES	61.18	95.83	70.52	20.52	-0.04	50.30	59.64	97.07	87.19	98.73	101.04	105.28	847.26
3	KPCL	0.26	8.23	12.52	10.05	6.72	5.22	8.38	11.28	9.63	7.98	8.38	8.63	97.28
4	Ramakkalmedu Wind	0.19	1.49	3.81	3.43	2.90	2.55	0.76	0.67	1.89	2.42	1.12	0.48	21.72
5	Agali Wind	0.22	0.06	1.40	1.41	1.69	2.95	0.64	0.26	0.38	0.60	0.40	0.28	10.28
6	Ullunkal									0.72	0.59	0.72	1.10	3.12
	Sub Total IPPs	113.54	207.36	154.24	126.10	33.06	61.02	172.00	215.59	167.86	227.91	218.10	232.39	1929.14
H	Power purchase through Traders (KSEB bus)	0.00	6.75	0.00	43.10	57.25	46.33	53.06	83.60	107.73	30.01	9.51	24.34	461.68
I	Total power purchase (E+F+G+H)	694.06	822.03	824.49	781.27	662.79	723.61	797.73	804.71	874.88	918.73	802.79	921.81	9628.87
J	External PGCIL loss	28.69	27.26	23.86	25.05	22.41	23.75	24.46	21.95	26.16	30.01	27.32	31.66	312.57
K	Net power purchase at KSEB bus	665.37	794.76	800.63	756.22	640.38	699.85	773.27	782.76	848.73	888.71	775.47	890.15	9316.30
L	Total Generation & Purchase (D+K)	1449.75	1504.46	1276.35	1264.45	1208.31	1268.57	1334.74	1255.60	1283.58	1274.87	1223.28	1422.74	15766.71
M	Auxiliary consumption in substations	0.92	0.95	0.81	0.80	0.76	0.80	0.84	0.79	0.81	0.81	0.77	0.90	9.97
N	Net energy available for sale	1448.83	1503.51	1275.54	1263.65	1207.55	1267.77	1333.90	1254.81	1282.77	1274.06	1222.51	1421.84	15756.74
O	Energy sale outside the state	145.60	101.94	25.57	36.79	1.55	66.46	75.12	10.30	0.00	0.00	0.00	0.00	463.33
P	Net energy available for sale in the State	1303.23	1401.57	1249.97	1226.86	1206.00	1201.31	1258.78	1244.51	1282.77	1274.06	1222.51	1421.84	15293.41

TABLE 9
STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS FOR 2009-10

(in Million Units)

	Name of Station / Source	04/09	05/09	06/09	07/09	08/09	09/09	10/09	11/09	12/09	01/10	02/10	03/10	Total
A	Hydro													
1	Idukki	202.98	202.95	160.43	103.49	114.66	105.85	134.26	95.92	157.53	200.61	247.77	309.22	2035.64
2	Sabarigiri	98.87	95.03	98.83	102.99	121.97	96.74	121.74	176.38	131.99	103.63	86.73	167.50	1402.39
3	Idamalayar	20.57	27.11	19.25	5.26	15.53	41.45	46.83	28.16	23.33	28.74	36.45	41.26	333.93
4	Kuttiadi + KES	40.10	41.45	23.74	72.65	75.44	74.50	72.30	56.77	55.54	43.71	33.10	45.22	634.52
5	Poringalkuthu	12.55	7.69	7.62	24.35	24.29	23.34	21.67	16.43	8.55	3.74	3.00	2.74	155.96
6	Poringalkuthu LBE	0.06	6.48	7.12	11.66	11.81	11.39	11.31	10.41	10.09	9.64	9.65	9.20	108.82
7	Sholayar	24.58	25.92	12.96	0.90	1.94	27.78	24.48	20.36	22.99	19.20	22.65	26.00	229.76
8	Pallivasal	18.51	19.69	19.70	21.55	21.72	21.39	22.09	21.13	18.90	18.42	17.92	19.15	240.17
9	Sengulam	9.74	10.10	11.47	19.69	17.84	18.27	18.25	16.27	7.48	9.46	9.25	9.96	157.79
10	Panniar	0.00	0.00	0.00	4.22	17.82	20.48	23.09	20.40	18.62	9.38	6.41	12.38	132.80
11	Neriamangalam + NES	12.23	14.98	13.83	54.00	39.44	52.37	48.66	36.97	23.85	14.45	10.65	14.73	336.16
12	Lower Periyar	12.78	14.45	20.43	105.81	68.33	92.18	77.63	56.84	30.47	17.74	12.16	16.42	525.26
13	Kakkad	15.11	15.02	15.94	21.52	21.60	18.93	20.68	24.41	18.77	16.12	13.45	22.61	224.16
14	Kallada	7.60	4.40	0.79	1.18	1.37	1.61	7.85	9.27	2.73	8.34	7.11	8.16	60.42
15	Peppara	0.26	0.18	0.12	0.30	0.71	1.16	0.88	1.12	0.50	0.24	0.27	0.30	6.05
16	Malankara	2.90	2.40	2.09	2.18	2.43	2.96	2.93	1.94	2.64	3.03	3.25	3.70	32.46
17	Madupetty	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.72	1.91
18	Chembukadavu	0.00	0.00	1.01	2.46	1.88	1.84	0.88	0.40	0.00	0.00	0.00	0.00	8.46
19	Urumi	0.00	0.00	1.56	3.44	2.44	2.01	1.16	0.85	0.11	0.00	0.00	0.00	11.58
20	Malampuzha	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	Lower Meenmutty	0.02	0.11	0.26	0.28	0.50	0.75	0.63	0.51	0.23	0.10	0.02	0.01	3.43
22	Kuttiady Tailrace	0.39	0.40	0.18	0.00	0.00	0.00	0.84	0.79	0.46	0.00	0.68	0.85	4.62
	Sub Total Hydro	480.01	488.53	417.32	557.91	561.73	615.01	658.17	595.33	534.78	506.56	520.80	710.12	6646.27
	Auxiliary consumption	1.56	1.58	1.35	1.81	1.82	2.00	2.14	1.93	1.73	1.64	1.69	2.30	21.56
	Net Hydro Generation	478.45	486.95	415.97	556.10	559.91	613.01	656.04	593.40	533.05	504.91	519.11	707.81	6624.71
B	Wind	0.13	0.25	0.18	0.23	0.20	0.18	0.10	0.09	0.15	0.12	0.09	0.11	1.84
C	Thermal													
1	BDPP	28.62	26.34	10.27	15.43	6.98	14.91	19.84	17.17	15.66	17.38	21.99	38.26	232.83
2	KDPP	41.06	31.46	22.56	15.69	34.32	19.72	24.18	19.48	28.70	36.50	38.10	47.69	359.44
	Sub Total Thermal	69.68	57.79	32.83	31.12	41.30	34.63	44.02	36.65	44.36	53.88	60.09	85.94	592.27
	Auxiliary consumption	2.04	1.69	0.96	0.91	1.21	1.02	1.29	1.07	1.30	1.58	1.76	2.52	17.37
	Net Thermal Generation	67.63	56.10	31.86	30.20	40.09	33.61	42.73	35.57	43.06	52.30	58.32	83.42	574.90
D	Total Internal Generation (excl. aux. cons.)	546.22	543.30	448.01	586.54	600.20	646.81	698.87	629.06	576.26	557.33	577.52	791.34	7201.45

Table 9 continued

	Name of Station / Source	04/09	05/09	06/09	07/09	08/09	09/09	10/09	11/09	12/09	01/10	02/10	03/10	Total
E	Central Generating Stations													
1	NTPC-RSTPS	209.36	210.79	187.25	170.18	180.45	174.51	214.87	208.47	215.08	218.53	194.31	218.44	2402.24
2	Eastern Region												0.66	0.66
3	Talcher Stage-II	297.02	275.10	266.07	213.04	227.25	236.86	253.32	252.73	292.04	303.27	268.09	292.84	3177.63
4	NLC-Stage-I	38.55	38.96	38.93	27.48	25.81	37.42	31.37	21.85	26.86	29.00	33.43	34.20	383.86
5	NLC-Stage-II	50.06	56.12	57.95	42.59	44.49	49.37	53.25	36.37	48.40	57.39	49.05	51.58	596.62
6	NLC Expansion	45.22	43.07	41.41	44.87	35.57	38.77	23.40	16.95	26.06	35.61	32.52	18.32	401.77
7	MAPS	8.13	8.41	7.21	8.57	8.54	8.11	6.78	3.80	5.35	7.81	7.10	7.91	87.72
8	KAIGA	20.93	20.39	19.98	21.83	22.26	22.05	19.40	14.62	18.40	19.26	16.26	20.65	236.03
	Sub Total CGS	669.27	652.84	618.80	528.56	544.37	567.09	602.39	554.79	632.19	670.87	600.76	644.60	7286.53
F	UI Import	12.10	81.59	16.94	7.23	10.60	56.87	6.66	40.27	71.12	44.52	24.25	-0.76	371.39
G	IPPs													
1	RGCCPP	110.76	100.28	114.00	88.64	104.98	43.63	71.15	81.75	103.10	122.37	95.64	117.59	1153.89
2	BSES	97.40	98.25	97.91	71.33	69.77	5.42	1.05	13.75	19.87	8.35	20.20	73.40	576.70
3	KPCL	7.14	8.31	7.93	4.33	8.48	3.84	5.78	4.26	4.95	7.05	5.42	7.57	75.06
4	Ramakalmedu Wind	0.93	2.67	4.93	6.79	4.21	3.92	2.20	1.47	1.83	1.63	0.99	0.97	32.54
5	Agali Wind	1.87	4.59	6.18	6.24	5.16	5.21	2.27	0.95	0.55	0.41	0.21	1.44	35.07
6	Ullunkal	0.92	0.82	1.36	2.56	2.19	2.45	2.10	2.29	1.48	1.11	0.85	1.68	19.83
7	MP Steel	3.30	3.68	3.58	3.22	2.22	3.53	3.10	3.05	3.12	2.77	2.18	3.41	37.16
	Sub Total IPPs	222.31	218.60	235.89	183.12	197.02	68.00	87.65	107.53	134.89	143.69	125.49	206.06	1930.24
H	Power purchase through traders (KSEB bus)	0.00	-6.78	34.08	4.75	58.65	32.47	56.66	67.15	86.66	79.42	107.79	95.20	616.05
I	Total power purchase (E+F+G+H)	903.68	946.25	905.71	723.66	810.64	724.43	753.36	769.74	924.86	938.50	858.29	945.10	10204.21
J	External PGCIL loss	32.84	32.03	30.36	25.93	26.71	27.83	29.56	27.22	31.02	32.92	29.48	31.63	357.53
K	Net power purchase at KSEB bus	870.84	914.22	875.35	697.72	783.93	696.61	723.80	742.51	893.84	905.58	828.81	913.47	9846.68
L	Total Generation & Purchase (D+K)	1417.07	1457.51	1323.36	1284.26	1384.13	1343.41	1422.66	1371.58	1470.10	1462.92	1406.33	1704.81	17048.13
M	Auxiliary consumption in substations	0.99	1.02	0.93	0.90	0.97	0.94	1.00	0.96	1.03	1.02	0.98	1.19	11.94
N	Net energy available for sale	1416.07	1456.49	1322.43	1283.36	1383.16	1342.47	1421.67	1370.61	1469.07	1461.89	1405.35	1703.61	17036.19
O	Energy sale outside the state					5.03		7.40					41.47	53.90
P	Net energy available for sale in the State	1416.07	1456.49	1322.43	1283.36	1378.13	1342.47	1414.27	1370.61	1469.07	1461.89	1405.35	1662.14	16982.29

TABLE 10
STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS FOR 2010-11

(in Million Units)

	Name of Station / Source	04/10	05/10	06/10	07/10	08/10	09/10	10/10	11/10	12/10	01/11	02/11	03/11	Total
A	Hydro													
1	Idukki	217.63	236.98	166.71	113.67	127.22	81.30	97.60	100.50	155.91	285.03	305.95	376.04	2264.51
2	Sabarigiri	141.51	129.12	104.09	113.96	99.06	100.24	116.02	71.29	111.96	119.03	91.23	175.13	1372.64
3	Idamalayar	33.18	29.03	20.49	17.85	17.40	22.08	33.90	43.26	53.53	28.04	38.73	39.41	376.90
4	Kuttiadi + KES + KAES	44.39	47.81	55.49	71.15	76.82	74.15	37.52	18.90	15.29	38.67	37.59	40.88	558.68
5	Poringalkuthu	11.54	4.37	16.64	23.96	23.80	22.82	23.68	22.49	19.27	8.06	6.90	4.05	187.57
6	Poringalkuthu LBE	0.77	9.10	10.99	11.77	11.76	11.13	11.69	10.99	10.68	11.16	9.84	10.82	120.69
7	Sholayar	24.66	24.96	15.27	1.62	1.65	22.14	18.43	20.80	31.31	26.40	30.81	25.20	243.24
8	Pallivasal	18.74	19.38	20.24	21.16	21.71	19.97	21.12	20.86	18.51	16.84	16.37	20.73	235.64
9	Sengulam	10.49	10.48	15.29	19.54	18.92	14.95	18.92	17.68	14.96	10.27	9.23	9.86	170.58
10	Panniar	10.01	8.20	10.79	14.34	20.15	19.81	22.99	21.24	19.22	11.78	8.53	13.81	180.86
11	Neriamangalam + NES	13.87	13.45	33.16	50.42	51.36	44.66	47.50	42.23	30.29	16.19	11.38	16.01	370.52
12	Lower Periyar	15.87	16.31	54.51	97.61	94.33	74.19	85.89	75.02	44.59	23.99	14.77	18.97	616.06
13	Kakkad	19.84	19.13	19.24	22.94	20.65	17.51	19.68	14.64	16.83	17.46	13.10	23.38	224.42
14	Kallada	4.29	2.37	0.97	1.32	5.38	8.36	10.18	10.33	10.53	1.98	6.28	10.27	72.25
15	Peppara	0.31	0.07	1.22	1.42	1.18	1.11	1.56	1.14	1.08	0.32	0.22	0.14	9.75
16	Malankara	3.03	3.36	3.47	3.36	3.32	2.67	2.90	2.70	2.67	3.57	3.01	2.83	36.90
17	Madupetty	0.75	0.35	0.32	0.00	0.00	0.00	0.00	0.13	0.69	0.04	0.00	0.00	2.28
18	Chembukadavu	0.00	0.00	1.83	3.05	2.70	1.94	1.96	2.04	0.02	0.00	0.00	0.00	13.54
19	Urumi	0.00	0.00	2.66	4.07	3.09	2.35	1.88	1.84	0.05	0.00	0.00	0.00	15.94
20	Malampuzha	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	Lower Meenmutty	0.11	0.38	0.92	0.99	0.81	0.67	1.06	1.19	0.74	0.16	0.11	0.06	7.20
22	Kuttiady Tailrace	1.05	1.11	0.88	0.14	0.00	0.00	0.00	0.05	0.13	0.31	0.33	0.34	4.35
	Sub Total Hydro	572.03	575.97	555.17	594.32	601.31	542.05	574.48	499.34	558.26	619.29	604.38	787.92	7084.51
	Auxiliary consumption	2.44	2.56	2.74	3.03	3.11	2.71	1.84	2.58	2.96	2.89	2.56	3.02	32.43
	Net Hydro Generation	569.59	573.41	552.43	591.29	598.19	539.33	572.64	496.76	555.30	616.40	601.82	784.90	7052.08
B	Wind	0.10	0.20	0.19	0.18	0.20	0.12	0.10	0.06	0.10	0.13	0.07	0.08	1.51
C	Thermal													
1	BDPP	22.06	19.55	6.68	3.78	4.21	3.99	10.57	0.00	0.29	3.39	8.37	13.17	96.05
2	KDPP	36.61	39.39	14.57	9.87	11.23	10.39	23.86	21.89	15.62	14.90	12.45	22.25	233.02
	Sub Total Thermal	58.67	58.94	21.25	13.65	15.44	14.38	34.43	21.89	15.90	18.29	20.82	35.42	329.07
	Auxiliary consumption	1.93	1.94	0.70	0.45	0.51	0.47	1.13	0.72	0.52	0.60	0.68	1.16	10.81
	Net Thermal Generation	56.74	57.00	20.55	13.20	14.93	13.91	33.29	21.17	15.38	17.69	20.13	34.26	318.26
D	Total Internal Generation (excl. aux. cons.)	626.42	630.62	573.17	604.67	613.33	553.36	606.04	517.98	570.78	634.22	622.03	819.23	7371.85
E	Central Generating Stations													
1	NTPC-RSTPS	208.93	213.58	194.34	203.23	175.49	197.52	175.22	211.46	193.02	190.86	191.78	224.55	2380.01
2	Eastern Region	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.96
3	Talcher Stage-II	282.34	274.90	235.43	217.89	208.54	270.17	280.15	293.94	274.77	257.40	190.14	296.92	3082.59

Table 10 contd..

	Name of Station / Source	04/10	05/10	06/10	07/10	08/10	09/10	10/10	11/10	12/10	01/11	02/11	03/11	Total
4	NLC-Stage-I	39.01	39.50	36.67	29.62	27.09	34.33	34.96	28.71	21.09	38.00	37.09	46.54	412.61
5	NLC-Stage-II	55.11	46.98	54.65	55.88	50.38	39.20	44.95	29.09	41.85	59.11	53.10	63.88	594.19
6	NLC Expansion	18.45	33.89	36.19	32.57	29.68	37.16	34.38	22.92	31.79	31.52	34.67	39.21	382.42
7	MAPS	6.63	7.48	7.74	8.60	8.24	8.68	8.90	6.43	4.41	9.63	9.42	12.39	98.55
8	Kaiga	21.03	13.10	12.39	16.39	23.51	23.25	23.02	24.20	26.62	31.11	32.52	44.84	291.97
	Sub Total CGS	634.46	629.43	577.41	564.18	522.92	610.33	601.57	616.75	593.57	617.62	548.73	728.35	7245.31
F	UI Import	-1.83	76.45	70.49	86.80	55.04	106.09	79.76	51.02	93.45	114.98	49.20	14.87	796.30
G	IPPs													
1	RGCCPP	101.46	103.61	95.54	56.76	56.89	54.00	56.42	116.69	106.09	109.04	52.13	99.59	1008.23
2	BSES	76.73	44.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.42	79.87	223.30
3	KPCL	5.33	6.46	2.95	1.08	0.88	1.43	3.11	1.75	0.77	1.01	0.80	1.50	27.06
4	Ramakalmedu Wind	0.49	2.46	4.62	5.73	5.11	2.93	2.57	1.07	1.12	1.65	0.93	0.71	29.39
5	Agali Wind	1.24	3.94	5.94	5.48	5.49	4.32	3.78	0.55	0.94	0.62	0.39	0.78	33.48
6	Ullunkal	1.48	1.57	2.63	3.17	2.91	2.10	2.60	1.98	1.46	1.38	1.02	1.99	24.29
7	Iruttukkanam						0.50	2.41	2.21	1.94	0.98	0.50	0.34	8.87
8	MP Steel	3.29	4.76	3.70	4.10	3.95	3.25	2.52	2.46	2.35	2.77	2.37	3.16	38.68
	Sub Total IPPs	190.01	167.09	115.37	76.33	75.23	68.53	73.40	126.72	114.67	117.45	80.56	187.94	1393.29
H	Power purchase through traders (KSEB bus)	71.15	81.04	30.30	41.89	141.59	83.49	167.61	125.56	129.61	65.54	113.33	26.27	1077.37
I	Total power purchase (E+F+G+H)	893.79	954.01	793.56	769.19	794.78	868.43	922.33	920.04	931.28	915.60	791.82	957.43	10512.27
J	External PGCIL loss	35.18	34.90	32.02	31.28	28.99	33.84	33.36	34.20	32.91	34.25	30.43	40.38	401.73
K	Net power purchase at KSEB bus	858.61	919.11	761.55	737.91	765.79	834.59	888.98	885.85	898.37	881.36	761.39	917.04	10110.54
L	Total Generation & Purchase (D+K)	1485.03	1549.72	1334.72	1342.58	1379.11	1387.95	1495.02	1403.83	1469.15	1515.58	1383.42	1736.28	17482.39
M	Auxiliary consumption in substations	1.01	1.05	0.91	0.91	0.94	0.94	1.02	0.95	1.00	1.03	0.94	1.18	11.88
N	Net energy available for sale	1484.02	1548.67	1333.81	1341.67	1378.18	1387.00	1494.00	1402.88	1468.16	1514.55	1382.48	1735.10	17470.51
O	Energy sale outside the state	19.19	0.69	0.50	0.00	0.00	0.00	54.00	3.22	0.35	0.73	0.30	51.26	130.24
P	Net energy available for sale in the State	1464.84	1547.98	1333.31	1341.67	1378.18	1387.00	1440.00	1399.65	1467.80	1513.81	1382.18	1683.84	17340.28

TABLE 11
STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS FOR 2011-12

(in Million Units)														
	Name of Station / Source	04/11	05/11	06/11	07/11	08/11	09/11	10/11	11/11	12/11	01/12	02/12	03/12	Total
A	Hydro													
1	Idukki	325.25	397.77	160.67	138.08	89.15	233.96	334.63	223.84	248.02	218.54	316.93	354.88	3041.71
2	Sabarigiri	160.25	154.36	116.10	104.47	74.90	142.91	126.40	102.81	112.50	75.13	90.63	174.26	1434.71
3	Idamalayar	36.11	28.52	13.68	20.58	25.20	26.65	27.63	26.21	27.23	30.74	41.63	44.81	348.99
4	Kuttiadi + KES + KAES	41.77	42.77	76.57	75.79	125.62	124.28	68.93	50.14	48.30	42.77	34.71	34.37	766.02
5	Poringalkuthu	3.40	12.67	23.01	23.78	23.60	23.20	12.46	12.44	9.80	7.50	7.98	7.29	167.13
6	Poringalkuthu LBE	10.36	1.86	9.57	11.80	11.80	11.36	9.11	8.04	9.55	9.85	3.42	5.44	102.15
7	Sholayar	23.73	23.71	6.44	3.35	18.67	28.49	8.94	8.20	23.56	24.77	24.58	25.93	220.36
8	Pallivasal	17.97	17.74	20.08	20.94	20.87	20.00	20.62	19.22	20.48	15.71	18.39	19.43	231.45
9	Sengulam	9.95	9.96	16.91	16.58	20.10	19.08	15.97	14.33	10.97	9.57	9.02	9.84	162.27
10	Panniar	8.59	16.26	16.17	12.56	20.91	22.02	18.45	20.65	18.33	10.98	9.09	10.46	184.48
11	Neriamangalam + NES	14.87	20.28	46.15	47.83	53.46	39.14	36.81	33.84	25.04	15.28	13.27	14.56	360.53
12	Lower Periyar	21.94	23.02	88.00	98.41	121.55	100.88	60.26	58.46	30.01	17.60	13.74	14.78	648.65
13	Kakkad	22.49	21.90	21.71	20.75	17.83	23.65	19.32	16.17	16.97	11.95	15.10	23.70	231.53
14	Kallada	7.53	3.39	0.73	1.69	4.15	6.14	5.98	7.80	8.95	5.42	5.78	8.09	65.63
15	Peppara	0.21	0.32	1.40	0.89	0.54	1.20	0.91	1.00	0.65	0.40	0.31	0.36	8.20
16	Malankara	2.89	3.03	2.68	3.09	3.18	3.21	3.00	2.72	2.04	2.32	2.40	1.39	31.94
17	Madupetty	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.97	1.22
18	Chembukadavu	0.00	0.00	3.00	2.97	3.41	2.15	0.16	0.30	0.00	0.00	0.00	0.00	11.99
19	Urumi	0.00	0.00	3.11	2.92	3.15	2.36	0.81	0.93	0.00	0.00	0.00	0.00	13.27
20	Malampuzha	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.86	1.01	0.55	0.00	2.77
21	Lower Meenmutty	0.28	0.23	0.94	0.54	0.52	0.69	0.47	0.52	0.46	0.11	0.04	0.05	4.86
22	Kuttiady Tailrace	0.20	0.12	0.64	0.67	0.83	0.80	0.68	2.59	0.66	0.57	0.40	0.39	8.57
23	Poozhithode			0.60	2.53	3.03	2.27	0.48	0.33	0.09	0.04	0.00	0.00	9.36
24	Ranni-Perinad											0.02	0.20	0.21
	Sub Total Hydro	707.77	777.92	628.15	610.21	642.46	834.43	772.03	610.87	614.48	500.25	608.25	751.19	8058.01
	Auxiliary consumption	3.38	3.71	3.00	2.91	3.06	3.98	3.68	2.91	2.93	2.39	2.90	3.58	38.44
	Net Hydro Generation	704.39	774.21	625.15	607.30	639.39	830.45	768.34	607.96	611.55	497.86	605.35	747.61	8019.57
B	Wind	0.08	0.20	0.16	0.18	0.18	0.12	0.60	0.12	0.10	0.10	0.11	0.08	2.03
C	Thermal													
1	BDPP	12.39	9.40	2.83	0.42	0.2097	0.00	7.35	1.96	4.70	6.96	5.82	5.04	57.08
2	KDPP	28.74	23.93	18.10	9.08	8.2820	6.59	11.70	13.21	25.48	21.63	28.17	38.72	233.63
	Sub Total Thermal	41.13	33.33	20.93	9.50	8.49	6.59	19.05	15.17	30.18	28.59	33.99	43.76	290.70
	Auxiliary consumption	1.28	1.03	0.60	0.29	0.26	0.20	0.59	0.42	0.90	0.89	1.05	1.34	8.86
	Net Thermal Generation	39.85	32.30	20.33	9.21	8.23	6.38	18.46	14.75	29.28	27.70	32.93	42.42	281.84
D	Total Internal Generation (excl. aux. cons.)	744.32	806.71	645.64	616.69	647.81	836.95	787.40	622.83	640.93	525.66	638.40	790.10	8303.45
E	Central Generating Stations													
1	NTPC-RSTPS	192.05	235.08	239.05	243.64	240.24	190.84	177.22	203.18	210.87	225.78	211.04	221.89	2590.90
2	Eastern Region	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67.33	81.62	71.17	92.80	312.92

Table 11 contd..

	Name of Station / Source	04/11	05/11	06/11	07/11	08/11	09/11	10/11	11/11	12/11	01/12	02/12	03/12	Total
3	Talcher Stage-II	301.70	311.04	281.13	209.58	229.79	189.02	220.33	260.85	267.45	272.50	282.90	299.00	3125.29
4	Simhadri						9.29	22.69	26.34	30.72	30.27	26.22	30.99	176.51
5	NLC-Stage-I	42.08	44.84	42.87	32.17	44.24	40.36	34.22	22.22	26.24	43.71	40.32	41.70	454.97
6	NLC-Stage-II	61.19	61.88	61.97	52.58	46.76	39.65	47.80	53.51	49.62	58.53	57.44	59.25	650.20
7	NLC Expansion	27.77	39.23	37.28	30.42	37.25	34.89	26.41	24.31	28.42	45.88	43.77	46.87	422.51
8	MAPS	10.24	10.80	7.95	6.22	11.25	11.02	10.05	10.20	10.52	9.13	10.12	10.90	118.41
9	KAIGA	40.83	43.72	43.07	39.60	29.76	39.68	26.45	32.33	35.08	34.40	34.09	39.26	438.28
	Sub Total CGS	675.88	746.59	713.33	614.21	639.30	554.76	565.18	632.94	726.25	801.82	777.06	842.68	8289.99
F	UI Import	47.88	63.09	70.04	65.22	58.99	-29.89	35.30	16.14	42.39	46.80	61.69	55.79	533.43
G	IPPs													
1	NTPC Kayamkulam	104.34	67.85	30.62	5.45	0.00	0.00	69.43	53.54	0.00	30.28	29.95	94.90	486.36
2	BSES	46.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.61
3	KPCL	1.40	1.47	0.21	0.64	0.72	0.25	1.06	0.66	0.74	0.21	1.67	1.01	10.05
4	Ramakalmedu Wind	0.61	2.27	5.43	6.43	5.15	4.24	1.05	1.20	1.44	1.22	1.56	0.68	31.27
5	Agali Wind	1.30	4.22	6.40	7.16	5.44	6.34	1.39	0.87	0.60	0.23	0.91	0.85	35.71
6	Ullunkal	1.98	1.84	2.84	2.50	2.87	2.83	1.88	1.52	1.38	0.86	0.95	1.72	23.16
7	Irukkukanam	0.62	0.52	2.41	2.57	2.59	2.47	2.40	2.09	1.00	0.51	0.26	0.19	17.62
8	MP Steel	1.59	2.55	1.45	1.91	0.00	0.00	0.55	1.90	2.98	3.10	2.75	1.73	20.51
9	Philips Carbon	1.47	1.96	3.39	4.21	4.61	4.18	3.37	2.17	2.69	2.84	2.51	3.45	36.85
	Sub Total IPPs	159.91	82.69	52.75	30.86	21.38	20.29	81.13	63.95	10.83	39.27	40.56	104.53	708.14
H	Power purchase through traders (KSEB bus)	3.12	30.40	21.52	245.70	194.15	154.28	148.41	226.90	242.86	254.70	104.78	55.81	1682.62
I	SWAP Return	5.29	0.75									12.13	30.86	49.02
J	Total power purchase (E+F+G+H+I)	892.07	923.51	857.64	955.99	913.82	699.44	830.01	939.94	1022.33	1142.59	996.21	1089.66	11263.21
K	External PGCIL loss	39.91	43.32	38.45	26.28	31.83	18.81	28.53	26.63	36.31	40.71	40.75	41.67	413.21
L	Net power purchase at KSEB bus	852.16	880.19	819.19	929.70	881.99	680.63	801.48	913.31	986.01	1101.88	955.46	1047.99	10850.00
M	Total Generation & Purchase (D+L)	1596.48	1686.90	1464.83	1546.39	1529.80	1517.58	1588.88	1536.14	1626.95	1627.54	1593.86	1838.09	19153.44
N	Auxiliary consumption in substations	1.13	1.19	1.04	1.09	1.08	1.07	1.12	1.09	1.15	1.15	1.13	1.30	13.54
O	Net energy available for sale	1595.35	1685.70	1463.80	1545.30	1528.72	1516.50	1587.76	1535.05	1625.80	1626.39	1592.73	1836.79	19139.90
P	Energy sale outside the State	53.26	0.00	27.00	73.92	21.11	25.77	0.00	0.00	0.00	0.00	0.00	0.03	201.10
Q	Net energy available for sale within the State	1542.10	1685.70	1436.80	1471.38	1507.61	1490.73	1587.76	1535.05	1625.80	1626.39	1592.73	1836.76	18938.81

TABLE 12
STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS & SYSTEM LOSSES FOR 2012-13

(in Million Units)														
	Name of Station / Source	04/12	05/12	06/12	07/12	08/12	09/12	10/12	11/12	12/12	01/13	02/13	03/13	Total
A	Hydro													
1	Idukki	230.13	248.12	201.22	167.35	106.79	117.07	89.21	80.74	95.12	64.25	55.26	119.77	1575.01
2	Sabarigiri	144.57	179.25	103.72	25.07	27.97	46.62	31.06	19.66	75.34	43.68	43.09	124.70	864.71
3	Idamalayar	40.36	39.64	31.06	23.41	10.77	13.38	8.52	7.19	15.99	12.71	14.51	32.37	249.92
4	Kuttiadi + KES + KAES	35.76	37.17	19.44	38.66	71.69	94.93	39.78	24.73	28.91	27.03	29.50	58.07	505.67
5	Poringalkuthu	3.07	5.74	10.54	17.87	20.15	21.55	14.40	9.27	8.34	5.89	9.58	4.04	130.44
6	Poringalkuthu LBE	7.20	9.40	9.46	11.74	11.72	10.71	9.11	7.05	9.38	8.07	0.12	5.91	99.86
7	Sholayar	23.19	25.63	16.68	2.67	1.40	7.89	22.50	22.85	26.49	22.52	19.39	18.99	210.20
8	Pallivasal	12.01	18.48	18.28	19.76	20.03	19.62	18.45	14.32	8.66	5.76	5.04	16.48	176.89
9	Sengulam	6.79	9.68	11.37	11.40	16.34	15.00	12.32	8.64	3.46	1.69	2.10	8.92	107.69
10	Panniar	4.23	16.24	6.19	4.12	3.87	15.51	11.15	7.85	9.50	4.69	2.34	5.01	90.69
11	Neriamangalam + NES	8.76	22.21	20.89	26.42	37.66	41.35	25.47	16.41	12.50	6.51	4.05	10.09	232.32
12	Lower Periyar	8.93	20.91	28.34	53.18	74.35	73.00	37.96	24.71	14.30	6.42	3.94	10.78	356.82
13	Kakkad	20.61	25.55	17.14	7.11	8.78	9.16	5.72	3.75	11.24	6.87	6.97	18.26	141.17
14	Kallada	4.74	2.53	0.14	2.97	2.68	3.04	1.67	0.74	1.65	1.25	3.04	1.10	25.54
15	Peppara	0.24	0.27	0.29	0.39	0.30	0.25	0.20	0.09	0.47	0.46	0.35	0.39	3.69
16	Malankara	1.42	3.62	3.69	3.70	3.05	2.97	1.86	1.66	1.45	0.89	0.73	1.65	26.69
17	Madupetty	0.51	0.77	0.39	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.07	0.72	2.49
18	Chembukadavu	0.00	0.00	0.90	2.64	2.81	2.23	0.57	0.38	0.00	0.00	0.00	0.00	9.52
19	Urumi	0.00	0.00	1.78	2.92	2.47	2.09	1.12	0.42	0.00	0.00	0.00	0.00	10.79
20	Malampuzha	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.91	0.66	0.00	0.00	1.94
21	Lower Meenmutty	0.56	0.11	0.35	0.61	1.00	1.25	0.67	0.42	0.62	0.64	0.77	1.01	8.01
22	Kuttiady Tailrace	0.56	0.11	0.35	0.61	1.00	1.25	0.67	0.42	0.62	0.64	0.77	1.01	8.00
23	Poozhithode	0.02	0.02	1.54	2.74	2.79	2.09	0.77	0.55	0.10	0.05	0.00	0.01	10.67
24	Ranni-Perinad	0.43	0.79	0.71	0.75	0.86	0.62	0.62	0.30	0.28	0.11	0.06	0.61	6.15
25	Peechi											0.16	0.10	0.26
	Sub Total Hydro	554.11	666.23	504.46	426.12	428.48	501.55	333.79	252.50	325.32	220.78	201.84	439.98	4855.15
	Auxiliary consumption	2.47	2.89	2.59	2.43	2.75	2.77	2.47	2.04	1.94	1.55	1.60	2.34	27.83
	Net Hydro Generation	551.63	663.33	501.87	423.69	425.73	498.78	331.32	250.46	323.38	219.23	200.24	437.65	4827.32
B	Wind	0.09	0.27	0.22	0.22	0.23	0.14	0.08	0.06	0.15	0.11	0.10	0.08	1.76
C	Thermal													
1	BDPP	5.67	1.09	1.20	1.25	3.93	7.47	7.45	9.69	16.03	10.42	4.31	15.07	83.59
2	KDPP	45.13	28.07	21.20	25.43	37.01	32.78	43.21	35.39	45.93	42.89	38.93	53.14	449.11
	Sub Total Thermal	50.80	29.16	22.40	26.68	40.94	40.24	50.66	45.08	61.96	53.31	43.25	68.21	532.70
	Auxiliary consumption	1.24	0.83	0.64	0.70	0.99	1.08	1.29	1.20	1.59	1.35	1.05	1.70	13.65
	Net Thermal Generation	49.56	28.33	21.76	25.98	39.96	39.17	49.37	43.88	60.37	51.96	42.20	66.51	519.05
	Total Internal Generation	601.29	691.93	523.84	449.89	465.91	538.09	380.77	294.41	383.91	271.31	242.54	504.24	5348.14
	Auxiliary consumption in substations	1.16	1.25	1.14	1.16	1.14	1.13	1.15	1.12	1.16	1.16	1.05	1.26	13.87
D	Total Internal Generation excluding auxiliary consumption	600.12	690.69	522.71	448.73	464.77	536.96	379.62	293.29	382.75	270.15	241.49	502.98	5334.27
E	Central Generating Stations													
1	NTPC-RSTPS	208.85	223.99	193.56	196.04	170.62	174.67	185.12	187.53	224.12	225.59	196.09	219.79	2405.97
2	Eastern Region	81.42	83.66	78.46	62.24	13.84	13.60	15.96	19.51	23.12	20.06	18.40	20.30	450.58
3	Talcher Stage-II	293.59	293.33	232.03	199.91	175.55	149.19	283.26	248.91	272.10	278.11	264.12	226.27	2916.39
4	Simhadri	27.73	30.30	14.64	11.42	28.46	25.55	46.76	40.26	44.27	62.20	43.79	46.67	422.07

Table 12 contd..

	Name of Station / Source	04/12	05/12	06/12	07/12	08/12	09/12	10/12	11/12	12/12	01/13	02/13	03/13	Total
5	NLC-Stage-1	40.76	39.59	40.24	32.62	42.06	38.13	27.38	32.44	30.87	43.75	40.02	42.12	449.99
7	NLC Expansion	43.47	44.68	43.31	46.00	45.88	44.09	25.50	24.39	40.17	47.38	42.77	47.34	494.99
8	MAPS	8.83	10.64	10.95	11.63	9.91	11.74	12.14	11.49	10.91	11.86	10.80	5.94	126.84
9	KAIGA	38.12	39.34	37.54	31.95	33.80	36.45	38.34	32.29	37.02	37.28	35.36	31.77	429.26
10	IGSTPS(Jhajjar)	37.99	49.19	130.17	50.53	42.00	80.29	93.63	76.30	36.19	33.01	33.88	36.91	700.08
11	Vallur STPS							0.00	0.34	3.05	6.65	5.72	7.62	23.37
	Sub Total CGS	780.76	814.72	780.92	642.33	562.13	573.71	728.10	673.46	721.83	765.90	690.95	684.73	8419.53
F	UI Import	117.54	122.57	86.60	106.19	86.21	72.53	59.01	54.34	72.99	60.27	57.13	62.83	958.21
G	IPPs													
1	NTPC Kayamkulam	69.44	8.02	0.00	63.71	180.47	160.43	177.82	199.46	232.05	217.50	121.58	87.11	1517.59
2	BSES	0.00	0.00	0.00	0.00	0.00	21.68	0.00	0.00	0.00	0.00	0.00	109.67	131.34
3	KPCL	0.79	0.21	0.00	0.03	0.57	0.00	0.00	0.73	0.01	0.00	0.00	0.26	2.60
4	Ramakkalmedu Wind	0.64	2.85	5.86	4.61	5.06	4.08	1.50	0.71	2.28	1.50	0.97	0.85	30.91
5	Agali Wind	1.65	5.05	7.32	6.88	6.81	5.69	1.45	0.52	0.88	0.41	0.64	0.76	38.06
6	Ullunkal	1.65	2.14	1.52	1.27	1.77	1.17	1.05	0.49	0.89	0.49	0.50	1.43	14.37
7	Iruttukkanam	0.12	0.02	1.40	4.76	3.51	3.20	2.46	1.49	0.72	0.40	0.27	0.22	18.56
8	MP Steel	0.88	1.31	1.70	0.46	1.88	0.00	0.00	0.00	0.00	1.19	0.00	0.00	7.43
9	Philips Carbon	2.44	2.16	4.31	2.59	1.42	2.58	3.35	3.03	2.31	2.22	2.22	2.73	31.35
	Sub Total IPPs	77.61	21.76	22.10	84.30	201.50	198.82	187.63	206.43	239.13	223.71	126.18	203.02	1792.21
H	Power purchase through traders (KSEB bus)	59.00	99.06	190.11	359.32	310.08	217.67	269.66	358.46	216.26	309.27	368.09	318.55	3075.55
I	SWAP Return	2.46	2.84	2.12	0.24							0.35	5.22	13.22
J	Total power purchase (E+F+G+H+I)	1037.37	1060.94	1081.85	1192.39	1159.92	1062.74	1244.40	1292.68	1250.21	1359.15	1242.71	1274.35	14258.71
K	External PGCIL loss	26.83	27.47	27.79	30.64	29.28	27.00	31.85	32.78	32.08	34.85	31.73	32.66	364.96
L	Net power purchase at KSEB bus (J-K)	1010.54	1033.47	1054.06	1161.76	1130.64	1035.74	1212.55	1259.90	1218.13	1324.30	1210.98	1241.69	13893.75
M	Net Generation & Purchase (D+L)	1610.66	1724.16	1576.77	1610.48	1595.41	1572.70	1592.18	1553.19	1600.88	1594.45	1452.47	1744.67	19228.02
N	Energy injected by private developers at Generator end for sale outside state through open access through OA													0.00
O	Energy purchased by consumers through open access at Kerala periphery													0.05
P	Energy sale outside the State by KSEBL													0.97
Q	Energy injected by private developers at Kerala periphery for sale outside state through open access through OA													0.00
R	Net energy available for sale (M+N+O-P-Q)	1610.66	1724.16	1576.77	1610.48	1595.41	1572.70	1592.18	1553.19	1600.88	1594.45	1452.47	1744.67	19877.21
S	Energy purchased by consumers through open access at consumer end													0.05
T	Energy sale inside the state by KSEBL													16838.24
U	Energy sale with in the state including open access consumers (S+T)													16838.29
V	Loss in KSEBL system (R-U)													3038.92

TABLE 13
STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS & SYSTEM LOSSES FOR 2013-14

	Name of Station / Source	04/13	05/13	06/13	07/13	08/13	09/13	10/13	11/13	12/13	01/14	02/14	03/14	Total
A	Hydro													
1	Idukki	101.74	75.27	82.49	120.94	370.81	390.97	398.64	249.42	196.08	281.97	228.57	241.85	2738.72
2	Sabarigiri	120.59	82.49	65.01	109.99	180.42	184.72	196.07	160.89	157.60	114.91	98.24	164.28	1635.21
3	Idamalayar	18.86	9.52	6.36	35.77	53.30	51.02	54.13	41.90	23.65	26.56	29.35	35.64	386.07
4	Kuttiadi + KES + KAES	47.83	40.99	80.07	132.84	120.86	102.38	90.37	56.68	44.11	44.46	40.90	40.93	842.42
5	Poringalkuthu + PLBE	10.03	12.19	27.25	29.89	28.77	28.47	28.15	18.40	12.80	13.43	12.63	14.71	236.72
6	Sholayar	21.87	23.62	8.56	0.55	24.82	28.85	13.49	15.21	25.00	13.42	26.17	31.77	233.31
7	Pallivasal	18.68	17.77	18.46	19.98	19.48	19.02	19.96	17.68	13.97	16.16	16.77	17.62	215.53
8	Sengulam	8.12	9.29	9.90	11.00	18.29	18.88	19.68	10.74	7.83	9.22	8.90	10.01	141.85
9	Panniar	3.96	5.10	9.51	23.69	23.48	22.19	23.48	17.27	10.34	10.65	6.69	13.97	170.32
10	Neriamangalam + NES	9.29	10.79	41.26	57.13	56.16	53.62	44.24	28.77	16.21	16.83	12.28	19.18	365.75
11	Lower Periyar	9.91	11.74	82.18	126.77	99.58	95.03	65.84	40.44	20.69	17.68	12.04	19.11	601.00
12	Kakkad	17.26	12.60	16.44	23.64	26.08	26.04	25.96	22.74	21.93	17.43	15.34	22.20	247.66
13	Kallada	0.79	0.00	0.00	3.06	8.41	5.25	10.19	10.13	11.11	5.66	5.27	7.68	67.55
14	Peppara	0.34	0.25	0.00	1.55	0.98	1.17	0.74	1.16	0.39	0.37	0.36	0.33	7.63
15	Malankara	1.49	1.15	2.54	3.19	2.40	1.69	2.49	3.46	3.07	3.21	2.81	2.88	30.38
16	Madupetty	0.78	0.62	0.09	0.00	0.09	0.96	1.27	0.06	0.14	0.47	0.65	0.64	5.75
17	Chembukadavu - I & II	0.00	0.00	2.91	3.71	1.97	2.18	1.24	0.35	0.07	0.00	0.00	0.00	12.42
18	Urumi - I & II	0.00	0.06	2.82	3.82	2.52	2.77	1.42	0.25	0.01	0.00	0.00	0.00	13.67
19	Malampuzha	0.00	0.00	0.00	0.00	0.01	0.58	0.56	0.83	1.56	1.14	0.29	0.00	4.96
20	Lower Meenmutty	0.03	0.05	0.88	1.27	0.96	0.57	0.61	0.78	0.31	0.09	0.03	0.05	5.62
21	Kuttiady tail race	0.72	0.61	1.11	1.13	0.92	0.81	0.77	0.58	0.49	0.27	0.02	0.53	7.96
22	Poozhithode	0.00	0.05	2.63	3.05	2.52	1.89	1.49	0.33	0.10	0.04	0.00	0.00	12.10
23	Ranni-Perinad	0.53	0.40	1.09	1.27	1.72	1.25	1.40	1.14	0.04	0.00	0.00	0.69	9.52
24	Peechi	0.00	0.00	0.00	0.04	0.44	0.62	0.53	0.36	0.51	0.39	0.20	0.22	3.29
	Sub Total Hydro	392.81	314.56	461.53	714.27	1044.96	1040.92	1002.70	699.56	567.99	594.36	517.51	644.26	7995.43
	Auxiliary consumption	1.64	1.31	1.92	2.98	4.36	4.34	4.18	2.92	2.37	2.48	2.16	2.69	33.34
	Net Hydro Generation	391.17	313.25	459.60	711.29	1040.60	1036.58	998.52	696.64	565.62	591.88	515.35	641.58	7962.08
B	Wind	0.14	0.29	0.16	0.21	0.19	0.16	0.11	0.06	0.13	0.16	0.09	0.10	1.80
C	Thermal													
1	Brahmapuram Diesel Power Plant	10.81	9.67	1.38	0.00	0.01	0.00	0.00	3.51	3.21	0.46	0.00	0.00	29.04
2	Kozhikode Diesel Power Plant	57.38	42.37	9.52	5.66	5.37	4.34	6.84	7.21	6.71	7.50	10.01	28.92	191.83
	Sub Total Thermal	68.19	52.03	10.90	5.66	5.37	4.34	6.84	10.72	9.92	7.97	10.01	28.92	220.88
	Auxiliary consumption	1.63	1.30	0.42	0.28	0.29	0.25	0.31	0.49	0.46	0.33	0.34	0.72	6.82
	Net Thermal Generation	66.56	50.73	10.48	5.39	5.08	4.09	6.53	10.23	9.46	7.64	9.67	28.19	214.06
	Total Internal Generation	457.87	364.27	470.24	716.89	1045.88	1040.83	1005.16	706.93	575.21	599.68	525.11	669.87	8177.94
	Auxiliary consumption in substations	1.19	1.19	1.00	1.09	1.19	1.24	1.31	1.17	1.21	1.42	1.34	1.56	14.91
D	Total Internal Generation (excl. aux. cons.)	456.68	363.08	469.24	715.80	1044.69	1039.59	1003.85	705.76	574.00	598.26	523.77	668.31	8163.03
E	Central Generating Stations													
1	NTPC-RSTPS (Unit 1 to 6 & Unit 7)	214.74	221.77	176.06	180.02	141.71	165.11	174.14	217.50	224.22	233.83	213.48	226.82	2389.40
2	Eastern Region	14.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.98
3	Talcher Stage-II	188.70	176.50	217.71	237.00	240.06	252.42	242.22	276.86	282.37	296.50	263.00	303.75	2977.09
4	Simhadri STPS Stg II Unit 1	57.39	51.62	61.06	45.42	27.00	44.73	39.62	59.70	66.44	75.15	65.37	72.00	665.50
5	NLC-Stage-I	41.26	41.66	36.96	38.93	31.84	34.96	32.56	35.02	31.69	51.62	38.34	49.37	464.21
6	NLC-Stage-II	58.72	57.41	59.65	50.58	29.67	39.92	64.26	47.78	64.47	71.45	54.58	66.45	664.94
7	NLC Expansion	45.62	47.00	45.25	45.78	41.69	44.12	23.99	27.33	41.50	47.78	40.27	43.19	493.52

Table 13 contd..

	Name of Station / Source	04/13	05/13	06/13	07/13	08/13	09/13	10/13	11/13	12/13	01/14	02/14	03/14	Total
8	MAPS	5.22	5.26	5.24	5.53	5.47	5.26	10.83	7.35	11.46	11.37	9.31	11.42	93.72
9	KAIGA	40.41	47.23	46.44	50.39	50.70	42.60	42.13	32.47	40.91	43.77	40.19	35.36	512.60
10	IGSTPS (Jhajjar) NR	41.19	44.21	36.27	54.81	53.55	54.46	77.05	68.07	65.97	66.91	61.09	67.09	690.67
11	Vallur STPS	8.55	5.82	4.22	10.75	3.30	9.29	13.30	11.93	11.19	24.01	17.34	15.43	135.13
12	Kudamkulam (KKNPP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.88	55.43	73.31
	Sub Total CGS	716.78	698.48	688.86	719.21	624.99	692.87	720.10	784.01	840.22	922.39	820.85	946.31	9175.07
F	UI Import	65.91	49.36	61.91	35.21	0.78	-5.75	33.66	39.32	50.72	61.60	69.81	50.37	512.90
G	IPPs													
1	RGCCP (NTPC Kayamkulam)	212.46	106.03	0.00	0.00	0.00	0.00	0.00	0.02	35.81	192.62	194.66	205.55	947.15
2	BSES	44.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.45	94.08	90.07	97.99	337.92
3	KPCL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Ramakalmedu Wind	0.49	2.87	6.77	6.31	4.23	4.08	2.20	1.04	1.56	1.78	0.66	1.21	33.21
5	Agali Wind	2.38	5.79	7.29	5.87	5.10	6.59	4.34	0.43	0.70	0.80	0.51	1.05	40.86
6	Ullunkal	1.42	0.98	1.97	2.58	2.91	3.18	2.73	2.22	1.77	1.18	0.95	1.73	23.62
7	Iruttukkanam I	0.25	0.12	2.22	2.63	2.61	2.53	2.12	1.11	0.05	0.08	0.18	0.06	13.96
8	Iruttukkanam II	0.00	0.13	1.07	1.39	1.37	1.35	1.19	0.94	0.97	0.42	0.11	0.18	9.10
9	MP Steel	0.00	2.13	2.13	1.93	2.52	2.87	2.56	0.85	3.14	3.01	2.48	2.58	26.18
10	Philips Carbon	2.24	1.18	0.85	1.78	2.26	2.31	2.35	1.87	2.96	1.50	1.68	2.20	23.17
11	Karikkayam	-	-	-	-	0.08	3.98	3.66	2.88	2.18	1.31	1.05	2.04	17.18
	Sub Total IPPs	263.57	119.24	22.30	22.49	21.00	22.90	17.48	8.47	60.58	296.78	292.35	314.59	1461.76
H	Power purchase through traders (KSEB bus)	284.23	546.77	239.25	137.56	66.30	99.50	170.86	195.91	279.57	240.12	314.57	346.06	2920.69
I	Total power purchase (E+F+G+H)	1330.49	1413.85	1012.32	914.47	713.07	809.53	942.10	1027.71	1231.09	1520.88	1497.58	1657.33	14070.42
J	External PGCIL loss	32.82	18.70	14.24	24.18	10.71	31.53	23.52	19.00	19.15	23.56	46.16	30.12	293.69
K	Net power purchase at KSEB bus (I-J)	1297.67	1395.15	998.08	890.29	702.36	778.00	918.58	1008.71	1211.94	1497.32	1451.42	1627.21	13776.73
L	Net Generation & Purchase (D+K)	1754.35	1758.22	1467.33	1606.09	1747.05	1817.58	1922.43	1714.47	1785.94	2095.58	1975.19	2295.52	21939.76
M	Energy injected by private developers at Generator end for sale outside state through open access through OA													0.00
N	Energy purchased by consumers through open access at Kerala periphery													17.33
O	Energy sale outside the State by KSEBL													1414.60
P	Energy injected by private developers at Kerala periphery for sale outside state through open access													0.00
Q	Net energy available for sale (L+M+N-O-P)													20542.49
R	Energy purchased by consumers through open access at consumer end													16.81
S	Energy sale inside the state by KSEBL													17454.05
T	Energy sale with in the state including open access consumers (R+S)													17470.86
U	Loss in KSEBL system (Q-T)													3071.63

TABLE 14
STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS & SYSTEM LOSSES FOR 2014-15

(in Million Units)

Sl. No.	Name of Station / Source	04/14	05/14	06/14	07/14	08/14	09/14	10/14	11/14	12/14	01/15	02/15	03/15	Total
1	Idukki	277.90	335.76	289.00	196.88	149.85	133.01	210.12	172.30	149.41	153.52	186.34	238.49	2492.58
2	Sabarigiri	168.40	118.21	22.24	101.77	75.74	126.87	150.37	100.80	68.82	46.98	82.66	162.00	1224.84
3	Idamalayar	33.90	31.46	24.33	12.04	28.77	44.24	44.33	24.73	27.63	32.25	25.61	43.29	372.57
4	Kuttiadi + KES + KAES	38.96	40.34	38.57	94.03	119.38	120.90	81.52	32.59	25.58	36.24	48.25	61.94	738.32
5	Poringalkuthu	9.00	14.54	9.93	17.53	19.98	18.80	19.33	10.50	10.18	9.35	5.69	6.20	151.03
6	PLBE	6.38	2.48	5.90	11.21	11.75	10.25	11.40	9.65	9.96	10.44	8.57	9.46	107.45
7	Sholayar	33.33	25.16	4.67	3.99	5.00	15.64	14.63	17.95	33.70	27.89	23.31	32.65	237.93
8	Pallivasal	17.35	15.37	17.43	18.98	20.38	19.75	20.45	18.99	14.81	13.56	16.56	18.06	211.69
9	Sengulam	9.61	9.42	11.80	17.30	21.05	14.62	16.48	15.19	10.62	7.23	8.38	9.65	151.35
10	Panniar	6.52	5.59	2.93	10.98	23.62	22.85	23.64	21.14	8.58	8.58	6.54	13.99	154.95
11	Neriamangalam + NES	12.46	12.53	18.44	45.78	56.21	49.32	48.62	37.62	17.51	14.20	11.54	22.07	346.30
12	Lower Periyar	12.25	13.62	32.81	102.37	124.41	89.40	79.42	55.98	21.93	15.54	11.02	18.77	577.50
13	Kakkad	23.00	16.97	4.98	19.51	17.71	20.10	23.20	15.96	9.97	7.41	12.77	21.34	192.93
14	Kallada	7.73	2.48	1.91	0.95	2.32	10.55	9.47	9.97	5.79	5.56	4.48	7.79	68.99
15	Peppara	0.25	0.13	0.00	0.00	1.29	1.03	0.47	0.31	0.46	0.36	0.40	0.41	5.13
16	Malankara	2.97	2.84	3.08	3.14	3.01	2.47	3.26	3.26	2.34	2.24	2.44	3.09	34.15
17	Madupetty	0.62	0.44	0.00	0.00	0.00	0.00	0.05	0.32	0.34	0.35	0.72	0.72	3.57
18	Chembukadavu - I & II	0.00	0.00	1.79	2.95	2.67	1.96	1.36	0.21	0.00	0.00	0.00	0.00	10.95
19	Urumi - I & II	0.00	0.00	2.26	3.30	3.18	2.10	2.01	0.12	0.01	0.00	0.00	0.00	12.98
20	Malampuzha	0.00	0.00	0.00	0.00	0.00	0.00	1.07	1.18	1.39	1.25	0.30	0.00	5.19
21	Lower Meenmutty	0.08	0.38	0.00	0.00	1.16	0.76	0.89	0.81	0.37	0.15	0.03	0.11	4.74
22	Kuttiady tail race	0.49	0.45	0.55	1.11	1.38	1.07	0.11	0.29	0.44	0.60	0.51	0.92	7.92
23	Poozhithode	0.01	0.20	1.61	3.13	2.38	2.15	1.33	0.32	0.14	0.05	0.00	0.00	11.33
24	Ranni-Perinad	0.67	0.53	0.47	0.75	0.20	0.97	1.31	0.91	0.40	0.09	0.24	0.82	7.35
25	Peechi	0.00	0.00	0.00	0.00	0.00	0.28	0.25	0.27	0.46	0.22	0.07	0.36	1.92
26	Vilangad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.14	0.04	0.01	0.45
	Sub Total Hydro	661.87	648.90	494.69	667.69	691.45	709.08	765.11	551.37	421.12	394.22	456.47	672.13	7134.11
	Auxiliary consumption	2.58	2.77	2.61	3.21	3.35	2.99	3.35	4.01	2.40	2.22	2.84	2.85	35.16
	Net Hydro Generation	659.29	646.13	492.08	664.49	688.10	706.09	761.76	547.36	418.72	392.00	453.64	669.29	7098.95
B	Wind	0.08	0.15	0.00	0.00	0.16	0.16	0.06	0.08	0.10	0.09	0.10	0.06	1.06
	Auxiliary consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.10
	Net Wind Generation	0.08	0.15	0.00	0.00	0.16	0.16	0.06	0.08	0.10	0.09	0.00	0.06	0.96
C	Thermal													
1	Brahmapuram Diesel Power Plant	0.00	0.28	0.00	0.00	1.14	0.00	0.00	3.33	2.39	0.10	0.03	1.17	8.43
2	Kozhikode Diesel Power Plant	33.29	34.21	22.87	8.20	9.75	6.91	10.47	16.37	22.02	13.41	10.89	10.88	199.27
	Sub Total Thermal	33.29	34.49	22.87	8.20	10.89	6.91	10.47	19.70	24.41	13.51	10.91	12.05	207.70
	Auxiliary consumption	0.77	0.80	1.04	0.32	0.41	0.30	0.37	0.60	0.71	0.47	0.36	0.45	6.61
	Net Thermal Generation	32.52	33.69	21.83	7.88	10.48	6.61	10.10	19.10	23.70	13.04	10.55	11.60	201.09
	Total Internal Generation	691.90	679.98	513.91	672.37	698.74	712.86	771.91	566.54	442.52	405.13	464.19	680.95	7301.00
	Auxiliary consumption in substations	1.42	1.26	1.10	1.10	1.09	1.11	1.14	1.12	1.16	1.18	1.12	1.29	14.10
D	Total Internal Generation (excl. aux. cons.)	690.48	678.72	512.81	671.27	697.65	711.75	770.77	565.42	441.36	403.95	463.07	679.66	7286.90

Table 14 contd..

Sl. No.	Name of Station / Source	04/14	05/14	06/14	07/14	08/14	09/14	10/14	11/14	12/14	01/15	02/15	03/15	Total
E	Central Generating Stations	899.084883	889.968934	821.49	848.88	802.03	786.90	795.33	872.22	1009.99	1063.00	988.55	1064.10	10841.54
F	UI Import / Deviation settlement	39.85	50.09	66.98	62.96	53.28	65.63	64.84	64.39	79.14	66.02	57.51	51.85	722.54
G	IPPs													
1	RGCCPP (NTPC Kayamkulam)	213.36	82.06	110.32	102.16	48.02	0	86.47	96.68	59.76	0	0	0.00	798.81
2	BSES	97.98	12.66	0.00	0.00	0.00	0	0.00	36.27	0.00	0	0	0.00	146.91
3	KPCL	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0	0	0.00	0.00
4	Ramakalmedu Wind	0.39	1.55	5.36	6.46	4.28	3.4	0.88	1.17	0.79	1.24	0.7	0.51	26.73
5	Agali Wind	1.47	4.17	7.99	8.60	7.92	5.84	1.51	0.84	0.58	0.30	0.64	0.56	40.41
6	Ullunkal	1.81	1.61	1.05	2.75	2.88	2.41	2.69	1.63	0.84	0.54	0.90	1.70	20.80
7	Iruttukkanam I	0.11	0.35	1.16	2.54	2.63	2.54	2.50	1.48	1.09	0.62	0.29	0.31	15.61
8	Iruttukkanam II	0.12	0.21	0.80	1.25	1.37	1.27	1.29	1.02	0.19	0.00	0.03	0.04	7.57
9	MP Steel	2.24	1.99	2.97	1.30	2.87	2.10	3.73	2.04	0.40	1.42	0.00	0.00	21.05
10	Philips Carbon	2.17	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48
11	Karikkayam	2.26	2.27	1.43	3.96	4.20	2.70	3.80	2.03	1.01	0.56	0.87	2.09	27.17
12	Meenvallom	0.00	0.00	0.00	0.00	0.16	0.82	0.29	0.50	0.25	0.15	0.11	0.08	2.37
	Sub Total IPPs	321.90	108.16	131.08	129.01	74.33	21.07	103.16	143.65	64.90	4.81	3.55	5.29	1110.91
H	Power purchase through traders (KSEB bus)													
	Power purchase through exchange	0.00	0.00	11.21	21.03	87.86	112.79	67.42	108.56	158.10	100.31	54.67	7.87	729.80
	Power purchase from MT & ST at traders end	280.60	260.09	200.88	5.78	5.98	54.55	4.21	29.20	95.14	227.93	212.83	249.74	1626.92
I	Total power purchase (E+F+G+H)	1541.43	1308.31	1231.63	1067.65	1023.47	1040.94	1034.96	1218.01	1407.27	1462.07	1317.10	1378.86	15031.71
J	External PGCIL loss													393.00
K	Net power purchase at KSEB bus (I-J)													14638.71
J	Net Generation & Purchase (D+K)	2231.91	1987.03	1744.44	1738.92	1721.12	1752.69	1805.74	1783.43	1848.64	1866.02	1780.17	2058.51	21925.61
K	Energy injected by private developers at Generator end for sale outside state through open access													26.41
L	Energy purchased by consumers through open access at Kerala periphery													4.66
M	Energy sale outside the State by KSEBL													358.09
N	Energy injected by private developers at Kerala periphery for sale outside state through open access													25.43
O	Net energy available for sale (J +K+L-M-N)													21573.16
P	Energy purchased by consumers through open access at consumer end													4.46
Q	Energy sale inside the state by KSEBL													18426.27
R	Energy sale with in the state including open access consumers (P+Q)													18430.73
S	Loss in KSEBL system (O-R)													3142.43

TABLE 15
STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS & SYSTEM LOSSES FOR 2015-16

(in Million Units)														
Sl. No	Stations	04/15	05/15	06/15	07/15	08/15	09/15	10/15	11/15	12/15	01/16	02/16	03/16	TOTAL
1	Idukki	217.30	342.80	151.83	204.30	220.40	230.72	194.23	115.01	118.25	149.92	178.72	249.80	2373.27
2	Sabarigiri	162.82	143.39	96.34	108.81	120.22	84.49	71.94	42.71	69.77	82.76	82.89	102.81	1168.95
3	Idamalayar	39.54	39.01	15.53	25.68	30.40	23.21	17.69	5.44	11.36	14.57	23.96	29.37	275.76
4	Kuttiady (Units 1 to 6)	37.45	53.36	53.68	89.53	55.74	48.05	41.38	20.57	30.09	37.73	51.65	56.66	575.89
5	Poringalkuthu	8.52	14.57	13.25	25.14	23.61	24.03	21.88	18.62	11.02	4.27	2.23	3.62	170.77
6	PLBE	6.41	3.86	8.24	11.90	11.91	11.07	10.96	10.29	2.93	10.06	9.62	9.17	106.43
7	Sholayar	30.16	21.32	12.32	2.39	2.81	11.88	25.18	28.01	9.61	20.34	21.77	24.43	210.22
8	Pallivasal	17.92	17.13	18.67	19.76	19.99	19.43	19.02	19.23	15.57	16.60	17.22	18.05	218.60
9	Sengulam	10.52	10.78	14.87	19.37	17.96	14.77	14.91	14.48	13.43	10.49	8.81	10.52	160.91
10	Panniar	11.74	20.28	11.81	18.54	18.43	9.89	10.89	20.34	18.40	7.79	9.75	16.08	173.93
11	Neriamangalam+NES	18.81	26.57	32.27	50.87	42.45	31.74	31.22	36.63	30.11	14.70	14.80	21.89	352.07
12	Lower Periyar	20.33	28.68	58.61	90.63	70.42	48.52	45.90	53.31	42.51	16.78	14.75	20.52	510.97
13	Kakkad	21.80	19.48	16.67	18.97	19.69	13.76	12.88	7.93	10.34	13.01	12.97	16.12	183.64
14	Kallada	7.40	5.17	2.83	3.07	3.32	0.08	0.11	1.89	9.59	0.98	3.03	7.33	44.81
15	Peppara	0.17	0.12	0.00	0.00	0.00	0.03	1.36	0.99	0.82	0.29	0.50	0.43	4.71
16	Malankara	3.12	3.61	2.95	3.55	3.46	2.37	2.06	2.19	1.54	2.12	2.30	3.17	32.43
17	Madupetty	0.66	0.53	0.34	0.00	0.00	0.00	0.00	0.26	0.60	0.45	0.65	0.80	4.29
18	Chembukadavu	0.00	0.00	1.17	2.47	1.62	1.49	1.52	0.65	0.12	0.00	0.00	0.00	9.04
19	Urumi	0.00	0.00	1.69	2.59	1.77	1.16	1.39	0.40	0.30	0.00	0.00	0.00	9.30
20	Malampuzha	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.96	0.68	0.08	0.00	2.03
21	Lower Meenmutty	0.25	0.47	0.56	0.56	0.31	0.82	0.90	0.99	0.50	0.13	0.05	0.03	5.56
22	Kuttiady Tail Race	0.67	0.88	0.76	1.13	0.85	0.61	0.61	0.32	0.26	0.50	0.66	0.80	8.05
23	Poozhithode	0.02	0.16	1.12	1.79	1.94	1.32	1.15	0.88	0.17	0.07	0.00	0.00	8.62
24	Ranni-Perinad	0.79	0.93	0.93	0.88	0.27	0.84	0.90	0.67	0.53	0.25	0.23	0.44	7.66
25	Peechi	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.28	0.29	0.33	0.23	1.43
26	Vilangad	0.00	0.00	1.21	3.45	3.44	1.80	1.92	0.56	0.24	0.11	0.02	0.00	12.75
27	Chimony	0.00	0.00	0.00	0.00	0.62	0.90	0.43	1.04	0.54	1.05	0.00	0.00	4.59
28	Adyanpara	0.00	0.00	0.00	0.00	0.13	0.55	0.94	0.49	0.25	0.00	0.00	0.00	2.36
29	Barapole												0.0008	0.0008
	Sub Total Hydro	616.51	753.10	517.63	705.37	671.81	583.54	531.39	404.43	400.06	405.92	457.01	592.26	6639.02
A	Auxiliary Consumption	2.66	2.90	3.17	3.12	3.19	2.92	2.85	2.58	2.57	2.31	2.29	2.77	33.35
	Net Hydro Generation	613.85	750.20	514.46	702.24	668.62	580.61	528.53	401.85	397.49	403.61	454.72	589.49	6605.67
B	Wind	0.05	0.13	0.15	0.21	0.18	0.09	0.06	0.07	0.15	0.13	0.09	0.07	1.38
	Auxiliary Consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Net Wind Generation	0.05	0.13	0.15	0.21	0.18	0.09	0.06	0.07	0.15	0.13	0.09	0.07	1.38
C	Solar	0.00	0.00	0.00	0.00	0.08	0.11	0.13	0.04	0.10	0.12	0.13	0.11	0.81
	Auxiliary Consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Net Solar Generation	0.00	0.00	0.00	0.00	0.08	0.11	0.13	0.04	0.10	0.12	0.13	0.11	0.81
D	Thermal													
1	BDPP,Brahmapuram	2.95	2.29	0.22	1.00	0.08	0.00	1.48	1.05	0.35	1.00	0.00	2.83	13.25
2	KDPP, Nallalam	20.46	14.98	15.14	8.89	9.62	32.98	9.54	4.62	2.30	1.74	0.10	17.00	137.38
	Sub Total Thermal	23.42	17.27	15.36	9.90	9.70	32.98	11.02	5.67	2.64	2.74	0.10	19.83	150.63
	Auxiliary Consumption	0.69	0.56	0.49	0.38	0.37	0.75	0.43	0.30	0.21	0.23	0.13	0.59	5.13
	Net Thermal Generation	22.73	16.71	14.87	9.52	9.33	32.23	10.59	5.37	2.43	2.51	-0.03	19.24	145.50
	Total Internal Generation	636.63	767.04	529.48	711.97	678.20	613.04	539.31	407.33	400.17	406.36	454.91	608.91	6753.36

Table 15 contd..

Sl. No	Stations	04/15	05/15	06/15	07/15	08/15	09/15	10/15	11/15	12/15	01/16	02/16	03/16	TOTAL
	Auxiliary Consumption of Substations	1.43	1.26	1.10	1.10	1.09	1.11	1.14	1.13	1.16	1.19	1.12	1.31	14.14
E	Total Internal Generation (excl. aux. cons.)	635.20	765.78	528.38	710.87	677.12	611.94	538.17	406.21	399.02	405.17	453.79	607.60	6739.25
F	Central Generating Stations at Kerala periphery	984.76	961.54	927.79	866.35	873.36	833.73	966.29	934.02	927.14	947.14	922.30	904.27	11048.70
G	UI Import/ Deviation Settlement	45.86	47.95	43.53	52.97	59.31	66.10	74.41	72.10	57.97	47.06	48.16	77.92	693.34
H	IPP's													
	RGCCPP (NPTC Kayamkulam)	-0.90	-0.80	3.08	-0.85	17.76	100.65	14.33	-0.71	-0.39	-0.86	-0.78	-0.71	129.80
	BSES	-0.16	5.04	-0.12	-0.15	-0.17	-0.16	-0.11	-0.15	-0.16	-0.15	0.15	-0.16	3.71
	KPCL	0.00	0.00	0.00	0.00	7.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.21
	Wind	1.40	4.30	6.93	13.53	10.88	7.31	2.93	1.18	3.23	2.35	1.86	1.50	57.40
	Ullunkal	1.84	1.76	1.95	2.24	2.21	1.59	1.73	1.13	1.08	0.87	0.84	1.02	18.26
	Iruttukkanam I	0.34	0.44	1.53	2.64	2.56	2.34	2.35	1.39	1.19	0.57	0.20	0.16	15.69
	Iruttukkanam II	0.27	0.45	0.77	1.36	1.30	1.22	1.26	1.11	0.78	0.24	0.21	0.15	9.14
	MP Steel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Karikkayam	2.24	2.19	2.77	3.15	3.30	2.32	2.98	2.05	1.76	1.30	1.31	1.61	26.99
	Meenvallom	0.09	0.23	0.50	1.12	0.87	0.73	0.80	0.58	0.29	0.15	0.11	0.08	5.56
	INDSIL	0.00	0.00	4.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.25
	Kallar	0.05	0.02	0.01	0.01	0.02	0.01	0.01	0.01	0.03	0.02	0.02	0.02	0.22
	Pampunkayam (Mankulam)	0.01	0.01	0.0049	0.01	0.01	0.01	0.0047	0.0032	0.0006	0.0031	0.00	0.00	0.06
	Sub Total IPPs	5.19	13.65	21.66	23.06	45.96	116.01	26.29	6.58	7.79	4.50	3.91	3.67	278.28
I	Power purchase through traders (KSEB bus)													
	Power purchase through exchanges	0.94	0.94	108.05	56.86	108.73	87.12	139.02	114.91	32.75	4.11	10.90	50.87	715.21
	Power purchase through MTOA & STOA	199.06	138.97	103.92	111.96	105.30	128.44	148.57	243.72	358.63	396.86	364.08	478.52	2778.03
	Power purchase through LTOA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.60	82.33	79.05	98.82	308.80
	Swap Return	0.35	0.00	0.14	0.10	1.18	2.00	1.44	5.89	38.85	9.46	11.30	4.68	75.40
	Sub Total Power Purchase excluding PGCIL losses	200.36	139.91	212.11	168.92	215.21	217.56	289.03	364.53	478.83	492.77	465.34	632.89	3877.45
J	Total power purchase (F+G+H+I)	1236.17	1163.05	1205.09	1111.30	1193.84	1233.40	1356.02	1377.23	1471.73	1491.47	1439.71	1618.75	15897.76
K	Net Generation & Purchase (E+J)	1871.37	1928.83	1733.47	1822.17	1870.96	1845.34	1894.19	1783.44	1870.75	1896.64	1893.50	2226.35	22637.01
L	Energy injected by private developers at Generator end for sale outside state through open access													40.44
M	Energy purchased by consumers through open access at Kerala periphery													142.00
N	Energy sale outside the State by KSEBL													53.48
O	Energy injected by private developers at Kerala periphery for sale outside state through open access													38.63
P	Net energy available for sale (K+L+M-N-O)													22727.34
Q	Energy purchased by consumers through open access at consumer end													135.25
R	Energy sale inside the state by KSEBL													19325.07
S	Energy sale with in the state including open access transactions (Q+R)													19460.32
T	Loss in KSEBL system (P-S)													3267.02

TABLE 16
STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS & SYSTEM LOSSES FOR 2016-17

(in Million Units)														
Sl. No	Stations	04/16	05/16	06/16	07/16	08/16	09/16	10/16	11/16	12/16	01/17	02/17	03/17	TOTAL
1	Idukki	238.62	149.52	96.94	57.21	93.77	128.19	144.27	82.00	73.86	76.24	84.53	153.92	1379.05
2	Sabarigiri	129.61	73.23	55.23	40.06	61.37	78.49	59.55	62.30	59.90	40.82	42.33	94.94	797.83
3	Idamalayar	26.48	17.77	11.12	4.36	12.99	13.05	7.94	4.97	12.21	15.10	20.71	25.25	171.96
4	Kuttiady (Units 1 to 6)	46.37	33.71	36.43	64.30	48.32	34.16	38.10	20.64	24.11	29.99	40.09	49.24	465.44
5	Poringalkuthu	2.19	1.70	8.52	26.07	20.78	15.19	5.26	4.22	1.15	5.73	5.34	4.38	100.52
6	PLBE	10.93	9.53	5.28	11.98	10.89	10.67	8.65	6.60	4.88	2.54	3.62	8.81	94.38
7	Sholayar	25.15	23.45	12.64	0.87	4.24	16.34	11.61	9.95	7.22	15.11	16.99	23.54	167.11
8	Pallivasal	14.67	16.61	16.40	20.03	20.06	18.04	15.51	9.67	7.49	6.17	4.84	16.53	166.01
9	Sengulam	8.23	10.88	11.18	19.96	19.22	12.53	9.72	5.24	3.31	2.60	2.33	10.38	115.58
10	Panniar	9.26	3.95	0.05	15.23	8.53	9.68	5.23	3.63	3.33	1.63	1.09	0.57	62.17
11	Neriamangalam+NES	14.33	11.15	19.32	48.81	34.66	24.14	14.53	9.18	6.14	3.62	2.75	7.60	196.25
12	Lower Periyar	13.16	11.46	39.37	87.70	63.41	35.60	21.54	12.50	7.71	3.63	3.18	8.95	308.22
13	Kakkad	18.66	11.90	11.62	11.02	12.03	12.31	9.01	9.11	8.47	6.15	6.66	13.70	130.63
14	Kallada	5.40	6.51	3.06	6.79	9.21	5.35	0.71	0.72	0.61	0.37	2.65	2.98	44.36
15	Peppara	0.44	0.16	0.00	0.12	0.05	0.61	0.52	0.31	0.60	0.52	0.40	0.21	3.95
16	Malankara	3.08	2.27	2.59	2.80	2.43	1.84	2.35	1.47	1.12	1.21	1.26	2.31	24.74
17	Madupetty	0.55	0.79	0.20	0.00	0.00	0.00	0.05	0.01	0.00	0.03	0.06	0.60	2.30
18	Chembukadavu	0.00	0.00	1.49	2.87	2.30	1.12	0.65	0.19	0.02	0.00	0.00	0.00	8.64
19	Urumi	0.00	0.00	2.23	3.14	2.35	1.03	0.26	0.04	0.00	0.00	0.00	0.00	9.03
20	Malampuzha	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.21	0.00	0.00	0.63
21	Lower Meenmutty	0.02	0.32	0.68	0.50	0.25	0.11	0.19	0.32	0.07	0.02	0.00	0.00	2.48
22	Kuttiady Tail Race	0.74	0.56	0.46	0.71	0.71	0.55	0.57	0.10	0.29	0.43	0.47	0.74	6.35
23	Poozhithode	0.00	0.01	1.65	2.96	2.94	1.97	0.65	0.16	0.08	0.03	0.00	0.00	10.45
24	Ranni-Perinad	0.42	0.49	0.80	0.81	0.77	0.58	0.39	0.35	0.30	0.22	0.21	0.50	5.85
25	Peechi	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.40
26	Vilangad	0.00	0.00	1.87	4.68	4.81	2.72	0.97	0.49	0.16	0.08	0.01	0.00	15.78
27	Chimony	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.58	0.43	0.25	0.01	1.56
28	Adyanpara	0.00	0.00	0.45	1.36	1.44	1.02	0.49	0.17	0.08	0.00	0.00	0.00	5.01
29	Barapole	0.00	0.00	0.01	1.33	4.42	6.52	4.00	1.54	0.90	0.42	0.17	0.0124	19.32
30	Vellathooval SHEP	0.00	0.00	0.00	0.41	0.89	0.49	0.32	0.21	0.14	0.11	0.09	0.3782	3.05
	Sub Total Hydro	568.45	385.97	339.57	434.33	437.53	425.28	358.74	244.60	224.12	212.88	240.05	425.15	4319.04
A	Auxiliary Consumption	2.57	2.32	2.25	2.92	2.90	2.38	2.24	1.77	2.24	1.51	1.52	2.36	26.97
	Net Hydro Generation	565.88	383.65	337.32	431.41	434.63	422.90	356.50	242.83	221.88	211.37	238.53	422.80	4292.06
B	Wind	0.12	0.16	0.17	0.21	0.26	0.24	0.13	0.05	0.08	0.12	0.11	0.07	1.71
	Auxiliary Consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Net Wind Generation	0.11	0.16	0.17	0.21	0.26	0.24	0.13	0.05	0.08	0.12	0.11	0.07	1.71
C	Solar	0.12	0.08	0.10	0.04	0.19	0.32	0.47	0.41	0.73	0.75	0.86	1.12	5.20
	Auxiliary Consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.03
	Net Solar Generation	0.12	0.08	0.10	0.04	0.19	0.31	0.47	0.41	0.73	0.74	0.85	1.11	5.17
D	Thermal													
1	BDPP,Brahmapuram	4.30	1.19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	5.54
2	KDPP, Nallalam	27.98	7.30	0.00	0.22	0.35	0.00	0.50	0.47	0.37	0.00	0.07	0.75	38.01
	Sub Total Thermal	32.27	8.49	0.01	0.22	0.35	0.00	0.50	0.47	0.37	0.00	0.07	0.79	43.55
	Auxiliary Consumption	0.85	0.35	0.15	0.15	0.14	0.13	0.14	0.14	0.15	0.12	0.12	0.17	2.61
	Net Thermal Generation	31.42	8.14	-0.14	0.07	0.21	-0.13	0.36	0.32	0.22	-0.12	-0.05	0.62	40.93
	Total Internal Generation	597.54	392.03	337.45	431.74	435.29	423.32	357.46	243.62	222.91	212.11	239.45	424.60	4317.51
	Auxiliary Consumption of Substations	1.35	1.34	1.30	1.13	1.20	1.18	1.23	1.19	1.24	1.19	1.19	1.29	14.84
E	Total Internal Generation (excl. aux. cons.)	596.19	390.69	336.15	430.61	434.09	422.14	356.22	242.43	221.68	210.92	238.25	423.31	4325.04
F	Central Generating Stations at Kerala periphery	904.68	913.31	779.98	799.80	818.03	821.50	845.81	801.42	847.16	906.35	850.40	917.37	10205.80

Table 16 contd..

Sl. No	Stations	04/16	05/16	06/16	07/16	08/16	09/16	10/16	11/16	12/16	01/17	02/17	03/17	TOTAL
G	IPPs													
	RGCCPP (NPTC Kayamkulam)	14.30	-0.79	-0.65	-0.63	-0.68	-0.71	-0.72	-0.65	-0.66	-0.72	-0.63	-0.70	6.77
	Wind	4.11	6.80	13.02	13.87	17.29	13.76	7.44	2.23	3.50	3.45	3.76	3.09	92.32
	Ullunkal	1.40	1.08	1.68	1.76	1.51	1.17	0.84	0.89	0.68	0.42	0.44	1.11	12.98
	Irukkukanam I & II	0.29	0.47	2.93	4.17	4.16	3.49	2.02	0.99	0.60	0.31	0.17	0.40	19.98
	Karikkayam	2.09	1.83	3.05	3.34	2.56	1.85	1.30	1.41	1.01	0.62	0.71	2.04	21.80
	Meenvallom	0.06	0.08	0.72	1.86	1.04	0.72	0.52	0.46	0.22	0.12	0.08	0.10	5.98
	Kallar													0.03
	Mankulam Grama (No Suggestions)													0.08
	Injection to grid by PCBL for open access	0.01	-0.02	0.02	-0.01	-0.02	0.07	0.08	0.20	0.15	0.21	-0.36	0.07	0.41
	Sub Total IPPs	22.27	9.47	20.77	24.36	25.85	20.35	11.47	5.53	5.51	4.41	4.18	6.11	160.36
	Hydro Captive Power Plants (Net injection)													
	Maniyar	1.49	0.14	2.88	1.97	-0.33	1.30	-1.74	-0.39	0.89	0.55	0.52	-0.66	6.62
	Kuthungal	0.96	-0.09	-0.35	0.28	0.38	0.25	0.39	0.31	-0.01	-0.15	-0.11	-0.10	1.76
	Sub total	2.45	0.06	2.53	2.25	0.05	1.55	-1.35	-0.08	0.88	0.40	0.41	-0.76	8.37
	Solar IPPs													
	Hindalco	0.15	0.13	0.09	0.12	0.14	0.14	0.14	0.13	0.14	0.15	0.13	0.16	1.61
	Anert, Kuzhalmandam	0.00	Deviation in	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.26	0.28	0.28	0.93
	Ambalathara -Solar Park IPP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	1.72	2.50	3.12	7.55
	Sub total	0.15	0.13	0.09	0.12	0.14	0.14	0.14	0.13	0.46	2.13	2.91	3.56	10.09
	Sub total IPPs/CPPs	24.87	9.65	23.39	26.72	26.04	22.04	10.26	5.58	6.84	6.94	7.49	8.91	178.83
	Power purchase through traders (KSEB bus)													
	Power purchase through exchanges	64.79	57.78	2.40	0.00	1.31	8.04	63.06	111.12	99.25	71.46	49.25	73.46	601.93
	Power purchase through MTOA & STOA	461.03	479.76	202.22	177.33	254.01	261.69	249.06	273.21	261.20	267.63	233.62	191.02	3311.78
	Power purchase through LTOA	151.95	177.73	355.45	368.71	354.98	267.31	350.28	372.59	385.17	381.25	392.95	446.08	4004.45
	Swap Return	0.31	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.10	6.68
	Deviation settlement mechanism(Net)	63.03	60.73	49.81	43.06	31.02	34.41	73.60	89.97	86.52	80.31	62.68	65.58	740.70
	Sub Total Power Purchase excluding PGCIL losses	741.11	776.28	609.87	589.10	641.32	571.45	735.99	846.89	832.13	800.65	738.50	782.24	8665.54
	Total power purchase (F+H+I)	1670.65	1699.23	1413.25	1415.63	1485.38	1414.98	1592.06	1653.89	1686.13	1713.94	1596.39	1708.52	19050.16
	Net Generation & Purchase at Kerala Periphery	2266.84	2089.92	1749.40	1846.23	1919.48	1837.12	1948.28	1896.32	1907.81	1924.86	1834.65	2131.83	23375.20
	Energy injected by private developers at Generator end for sale outside state through open access	3.95	4.05	4.03	4.02	3.79	3.75	4.05	3.66	3.90	3.62	2.47	3.79	45.08
	Energy purchased by consumers through open access at Kerala periphery	11.33	31.90	38.80	37.42	35.75	38.06	39.63	36.62	39.65	44.79	40.20	41.45	435.60
	Energy sale outside the State by KSEBL	0.07	0.00	9.47	37.12	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-49.30
	Energy injected by private developers at Kerala periphery for sale outside state through open access	-3.78	-3.87	-3.85	-3.84	-3.62	-3.58	-3.87	-3.50	-3.73	-3.46	-2.36	-3.62	-43.06
	Net energy available for sale (K+L+M+N+O)	2278.41	2122.01	1797.85	1920.95	1958.04	1875.35	1988.09	1933.10	1947.63	1969.81	1874.96	2173.45	23763.53
	Energy purchased by consumers through open access at consumer end	10.79	30.38	36.92	35.59	34.00	36.21	37.74	34.87	37.75	42.67	38.29	39.46	414.66
	Energy sale inside the state by KSEBL	1890.16	1770.29	1650.52	1567.17	1674.54	1619.98	1641.48	1539.37	1667.91	1643.73	1599.57	1773.52	20038.25
	Energy sale with in the state including open access transactions (Q+R)	1900.95	1800.67	1687.44	1602.76	1708.55	1656.18	1679.22	1574.25	1705.65	1686.40	1637.86	1812.98	20452.91
	Loss in KSEBL system (P-S)	377.46	321.34	110.40	318.19	249.49	219.17	308.87	358.85	241.98	283.42	237.10	360.47	3386.76

TABLE 17
STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS & SYSTEM LOSSES FOR 2017-18

		(in Million Units)												
Sl. No	Stations	04/17	05/17	06/17	07/17	08/17	09/17	10/17	11/17	12/17	01/18	02/18	03/18	TOTAL
A	KSEBL Internal Generation													
1	Idukki	205.73	158.37	82.65	88.05	80.33	103.44	110.71	96.85	110.3	152.4	175.35	244.94	1609.11
2	Sabarigiri	116.77	91.46	47.59	66.74	50.57	78.12	68.22	69.41	84.7	70.13	58.61	145.01	947.34
3	Idamalayar	29.1	22.72	15.58	9.49	8.27	24.9	20.25	16.45	18.58	26.57	22.17	42.52	256.6
4	Kuttiady	48.82	37.36	34.86	69.85	61.59	88.6	74.75	42.59	31.01	26	37.92	47.02	600.37
5	Poringalkuthu + PLBE	11.82	10.72	15.61	31.24	32.43	31.64	28.87	20.54	15.21	13.19	10.29	12.14	233.7
6	Sholayar	21.91	17.09	6.48	0.4	0.02	16.16	25.76	24.33	25.17	24.75	19.06	23.11	204.25
7	Pallivasal	14.78	17.24	13.93	18.26	19.19	18.99	19.86	13.1	13.59	12.75	11.37	15.39	188.45
8	Sengulam	9.22	10.53	10.06	14.92	20.33	19.72	19.66	11.04	9.97	8.15	7.55	3.76	144.91
9	Panniar	4.86	4.56	3.61	3.6	9.28	22.5	21.57	16.71	13.79	2.57	7.03	19.58	129.65
10	Neriamangalam+NES	10.17	10.98	20.15	24.4	48.06	52.72	47.54	29.29	22.96	8.59	11.03	22.38	308.28
11	Lower Periyar	10.16	11.67	36.8	44.29	105.67	105.65	74.44	45.05	28.44	11.79	12.39	21.66	508.01
12	Kakkad	16.41	13.74	10.18	11.75	13.79	17.5	11.7	10.76	12.34	10.54	8.95	22.33	159.97
13	Kallada	2.4	0.32	0	0.36	0.29	2.16	5.6	5.19	5.84	1.54	2.35	6.5	32.55
14	Peppara	0.18	0	0.02	0.29	0.23	0.7	1.46	1.22	0.54	0.45	0.1	0.1	5.29
15	Malankara	2.85	2.41	2.37	2.52	2.99	3.12	2.79	2.22	1.95	2.19	2.4	3.35	31.17
16	Madupetty	0.5	0.55	0.12	0.01	0	0	0	0.15	0.28	0.94	0.6	0.6	3.15
17	Chembukadavu I & II	0	0	1.58	2.73	2.74	2.03	1.3	0.26	0.01	0	0	0	10.64
18	Urumi	0	0	1.55	2.8	3.09	2.39	1.33	0.17	0.01	0	0	0	11.34
19	Malampuzha	0	0	0	0	0	0	0	0.27	0.53	0.51	0	0	1.31
20	Lower Meenmutty	0	0.17	0.54	0.26	0.44	1.11	0.9	0.84	0.58	0.12	0.05	0.03	5.04
21	Kuttiady Tail Race	0.83	0.61	0.49	0.93	0.87	0.98	0.86	0.68	0.42	0.42	0.51	0.66	8.26
22	Poozhithode	0	0.01	1.92	2.79	3.04	1.99	1.55	0.21	0.1	0.04	0	0	11.64
23	Ranni-Perinad	0.51	0.48	0.36	0.69	0.82	0.83	0.7	0.59	0.41	0.22	0.13	0.58	6.31
24	Peechi	0	0	0	0	0	0	0	0.52	0.17	0.21	0.22	1.13	
25	Vilangad	0	0.04	1.97	4.29	4.6	2.49	1.39	0.36	0.14	0.04	0	0	15.32
26	Chimony	0	0	0	0	0	0	0	0	0.4	1.32	0.97	0.72	3.41
27	Adyanpara	0	0.01	0.34	0.65	1.57	0.74	0	0.27	0.11	0.03	0	0	3.74
28	Barapole	0.01	0.01	3.11	8.65	9.8	9.36	5.88	1.91	1.04	0.37	0.11	0.03	40.29
29	Vellathooval SHEP	0.34	0.33	0.31	0.53	1.21	1.09	0.52	0.13	0.07	0	0	0	4.53
30	Perunthenaruvi	0	0	0	0	0	0	0	1.88	0.92	0.14	0.16	0.03	3.14
31	Poringalkuthu Micro	0.01	0	0.01	0.01	0.01	0	0	0.01	0	0	0.01	0.01	0.05
Ia	KSEBL Hydro Gross	155.78	411.39	312.19	410.49	481.23	608.91	547.61	412.32	399.8	375.28	389.66	632.69	5488.94
	Auxiliary Consumption (Hydro Generating station)	2.43	2.43	2.04	2.56	3.02	3.21	3.15	2.24	2.28	2.15	2.03	2.39	29.93
Ib	KSEBL Net Hydro	504.95	408.96	310.15	407.92	478.21	605.7	544.45	410.08	397.52	373.13	387.63	630.3	5458.99
IIa	KSEBL Wind													
1	Kanjikode	0.17	0.17	0.16	0.19	0.16	0.09	0.08	0.06	0.1	0.09	0.12	0.09	1.48
	Auxiliary consumption wind	0	0	0	0	0	0	0	0	0	0	0	0	0
IIb	Net Generation wind (KSEBL)	0.17	0.17	0.16	0.19	0.16	0.09	0.08	0.06	0.1	0.09	0.12	0.09	1.48
IIIa	KSEBL Solar													
1	Total solar	1.17	1.04	0.78	0.87	0.85	0.93	1.10	1.12	1.69	1.22	1.25	1.43	13.45
	Auxiliary Consumption Solar	0	0	0	0	0	0	0	0	0	0	0	0	0
IIIb	KSEBL Net Solar	1.17	1.04	0.78	0.87	0.85	0.93	1.10	1.12	1.69	1.22	1.25	1.43	13.45
IV a	KSEBL Thermal													
1	BDPP,Brahmapuram	0	0	0	0	0.31	0	0	0	0	0	0	0.15	0.46
2	KDPP, Nallalam	0.13	0.18	0	0	0.09	0	0	0	0	0	0.09	0.92	1.4

Table 17 Contd..

STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS & SYSTEM LOSSES FOR 2017-18

(in Million Units)														
Sl. No	Stations	04/17	05/17	06/17	07/17	08/17	09/17	10/17	11/17	12/17	01/18	02/18	03/18	TOTAL
	Auxiliary Thermal	0.13	0.12	0.1	0.11	0.13	0.1	0.11	0.11	0.1	0.11	0.09	0.12	1.31
IVb	KSEBL Net Thermal Generation	0	0.06	-0.1	-0.11	0.28	-0.1	-0.11	-0.11	-0.1	-0.11	0	0.95	0.55
A	Net Generation- KSEBL (Ib+IIb+IIIb+IVb)	506.29	410.23	310.99	408.87	479.50	606.62	545.52	411.15	399.21	374.33	389.00	632.77	5474.48
B	Power Purchase													
Va	Central Generating Stations at Kerala periphery (KSEB end)													
1	RSTPS (Unit 1 to 6)	136.64	151.81	133.03	158.57	166.71	145.99	154.46	142.72	126.47	96.19	138.3	156.01	1706.9
2	RSTPS (Unit 7)	39.52	41.02	33.38	37.37	39.15	37.4	40.87	38.7	38.65	31.36	31.09	40.88	449.39
3	EASTERN REGION	0	0	0	0	0	0	0	0	0	0	0	0	0
4	IGSTPS(JHAJJAR)	0	0	0	0	0	0	0	0	0	0	0	0	0
5	TALCHER STAGE II	253.35	242.69	254.65	242.1	213.59	225.74	238.66	264.18	283.64	279.63	246.77	284.52	3029.52
6	Simhadri TPS Stage II	43.83	62.38	53.09	60.24	50.3	24.97	34.14	47.49	52.15	54.8	49.62	52.23	585.24
7	Kudgi STPS	0	0	0	0	29.36	18.19	19.35	17.81	17.91	19.03	33.88	47.15	202.68
8	NLC II STAGE 1	38.71	47.64	31.41	32.08	47.16	30.65	31.64	22.69	23.76	25.56	29.73	40.84	401.85
9	NLC II STAGE 2	55.29	61.42	36.42	59.53	48.91	53.43	51.11	47.97	48.64	47.26	43.75	59.33	613.06
10	NLC I EXPANSION	42.4	25.62	36.75	43	42.56	40.13	42.92	37.78	34.63	27.75	35.97	43.48	452.98
11	NLC II EXPANSION	35.16	26.34	28.82	28.99	12.08	24.27	20.93	30.85	13.07	35.14	19.94	16.21	291.81
12	NTPL	44.08	40.9	23.28	47.47	49.9	16.87	28.54	37.89	39.27	28.45	34.58	47.49	438.71
13	VALLUR STPS	30.49	33.02	20.66	24.94	23.01	16.02	17.24	20.23	20.49	16.28	15.61	24.74	262.73
14	MAPS	5.22	6.48	9.18	12.73	13.67	13.48	13.93	13.31	14.53	10.07	6.06	6.66	125.32
15	KAPS I & II	20.93	24.43	23.84	24.82	24.79	23.96	24.73	24.08	24.94	24.97	22.41	24.81	288.72
16	KAPS III& IV	22.26	22.83	22.27	23.21	23.23	22.48	23.15	20.42	11.15	20.81	20.99	23.11	255.92
17	KKNPP	27.59	0	0	0	0	74.58	61.2	88.73	52.33	77.64	84.26	78.22	544.56
18	KKNPP unit 2	53.88	37.24	77.45	89.18	7.33	0	0	10.24	84.96	89.43	51.88	0	501.59
Vb	TOTAL CGS	849.35	823.82	784.22	884.22	791.76	768.15	802.86	865.1	886.61	884.35	864.85	945.69	10150.98
VI.a	Thermal IPPs/Co-Gen													
1	RGCCPP actual Gen	0	0	0	0	4.05	0	0	0	0	0	0	0	4.05
2	BSES	0	19.47	42.65	0	0	0	0	0	0	0	0	0	62.12
3	MPS Steel(Co-Gen Plant)Net injection to Grid	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PCBL (Co-Gen Plant)Net injection to grid	0.13	0.19	0.2	0.15	0.21	0.12	0.18	0.17	0.18	0.22	0.18	0.2	2.14
VI.b	Thermal IPPs /Co-Gen total	0.13	19.66	42.85	0.15	4.26	0.12	0.18	0.17	0.18	0.22	0.18	0.2	68.31
VII.a	IPPs-Small hydro(net)													
1	Ullunkal (EDCL)	1.32	1.15	1.36	1.34	2.31	2.49	1.73	1.49	1.17	0.81	0.68	1.92	17.79
2	Irukkukanam(VIYYAT)	0.24	0.37	2.14	4.08	4.22	4.06	3.97	2.93	1.35	0.61	0.4	0.32	24.69
3	Kaarikkayam (AHPPL)	2.42	2.24	3.32	3	5.4	6.46	3.71	2.87	2.07	1.43	1.22	3.42	37.56
4	Meenvallam (PSHCL)	0.06	0.08	0.61	1.03	1.78	1.77	1.99	0.5	0.31	0.16	0.11	0.04	8.44
5	Pathankayam (MREPL)	0	0	0	2	3.73	2.74	2.03	0.46	0.12	0	0	0	11.09
6	Mankulam GP	0	0.09	0	0	0	0	0	0	0	0	0	0	0.09
7	Kallar	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.08
VII.b	IPPs-Small hydro Total	4.04	3.93	7.43	11.45	17.44	17.53	13.44	8.26	5.03	3.02	2.43	5.71	99.74
VIII.a	Captive Power plants													
1	Maniyar IPP hydel net	-2.72	-4.44	-0.09	-0.65	0.49	-1.3	-4.12	0.32	0.14	0.08	0.04	0.27	-11.98
2	Kuthungal IPP hydel net	1.06	-0.87	0.1	0.06	0.52	1.56	0.01	0.27	0.91	0.27	0.11	0.65	4.65
VIII.b	CPP -Total	-1.66	-5.31	0.01	-0.59	1.01	0.26	-4.11	0.59	1.05	0.35	0.15	0.92	-7.33

Table 17 Contd..

STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS & SYSTEM LOSSES FOR 2017-18

(in Million Units)

Sl. No	Stations	04/17	05/17	06/17	07/17	08/17	09/17	10/17	11/17	12/17	01/18	02/18	03/18	TOTAL
IX.a	Wind IPPs													
1	Ramakkalmedu, Wind	1.05	2	5.39	5.71	4.17	2.69	1.41	0.89	1.43	1	1.2	0.95	27.87
2	Agali, Wind	2.68	3.46	6.79	5.49	4.86	3.26	0.78	0.38	0.53	0.25	0.31	0.96	29.72
3	Koundikkal	1.01	1.21	2.26	1.85	1.51	1.15	2.27	0.2	0.36	0.16	0.2	0.38	12.56
4	Ahalya Wind	2.23	2.43	2.36	2.75	2.5	1.63	1.49	0.92	1.21	1.01	1.22	1.22	20.98
5	INOX	4.03	0	0	0	0.81	1.74	1.71	1.27	1.75	1.61	1.86	1.55	16.33
6	Kosamattam	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01
IX.b	Wind IPPs Total	11	9.1	16.8	15.8	13.85	10.47	7.66	3.66	5.28	4.03	4.79	5.07	107.47
Xa	Solar IPPs /Prosumer													
1	Anert, Kuzhalmandam	0.25	0.24	0.18	0.19	0.18	0.22	0.23	0.22	0.25	0.33	0.23	0.28	2.79
2	Ambalathara -Solar Park IPP	3.76	4.25	1.62	2.16	1.63	3.27	4.95	4.46	5.88	5.8	4.95	6.97	49.69
3	CIAL net injection-solar prosumer	0.22	0.16	0.03	0.06	0.17	0.28	0.27	0.18	0.05	0.36	0.66	0.17	2.6
4	Grid connected consumers net injection	0.13	0.11	0.08	0.09	0.09	0.10	0.12	0.12	0.18	0.13	0.14	0.15	1.46
Xb	Solar IPPs Total	4.36	4.76	1.91	2.50	2.07	3.87	5.57	4.98	6.36	6.62	5.98	7.57	56.54
	Total IPPS, CPP and Co-gen (VIb+VIIB+VIIB+IXb+Xb)	17.87	32.14	69.00	29.31	38.63	32.25	22.74	17.66	17.90	14.24	13.53	19.47	324.73
	Traders													
XI.a	LTOA contracts													
1	Maithon I	87.19	93.50	93.77	95.25	101.08	98.04	81.92	45.01	50.88	91.14	89.34	95.14	1022.25
2	Maithon-II	74.99	93.51	93.77	95.25	101.08	98.04	81.92	45.01	50.88	91.03	89.35	95.15	1009.96
3	DVC Mejia	65.92	59.09	62.11	43.94	34.32	30.27	22.53	28.25	34.34	42.74	57.41	64.51	545.43
4	DVC RTPS	5.96	33.03	14.12	11.40	9.96	8.70	1.68	9.42	10.18	7.96	8.30	8.49	129.20
5	Jindal-I	123.58	125.43	124.30	130.98	114.43	115.33	116.73	126.91	128.74	123.44	101.58	68.62	1400.07
6	Jhabua-I	74.64	76.05	75.65	56.05	54.50	39.44	37.06	58.92	73.09	77.76	52.54	62.11	737.79
7	Balco	0.00	0.00	0.00	0.00	0.00	0.00	54.77	65.75	55.37	59.54	53.17	27.89	316.49
8	Jindal-II	0.00	0.00	0.00	0.00	0.00	0.00	91.32	95.18	94.09	92.51	76.07	53.38	502.57
9	Jhabua-II	0.00	0.00	0.00	0.00	0.00	0.00	22.06	50.16	44.33	67.62	45.77	54.04	283.97
10	JITPL	0.00	0.00	0.00	0.00	0.00	0.00	68.80	63.29	68.18	68.08	57.41	64.25	390.01
XI.b	Sub Total LTOA	432.27	480.61	463.72	432.87	415.36	389.80	578.79	587.88	610.08	721.82	630.95	593.58	6337.72
XII.a	Short Term Contracts													
1	PTC-Jindal	135.11	140.58	136.6	0	0	0	0	0	0	0	0	0	412.28
2	Tata-JITPL	72.99	73.56	0	0	0	0	0	0	0	0	0	0	146.55
XII.b	Sub Total STOA	208.1	214.13	136.6	0	0	0	0	0	0	0	0	0	558.83
	Power Exchanges													
XIII.a	TAM													
1	IEX	0	6.99	0	0	2	1.39	0	0.41	0	0	0.21	0	11.00
2	PXIL	0.19	0	0	3.81	10.86	0.85	0	0	0	0	0	2.25	17.96
XIII.b	TAM Sub Total	0.19	6.99	0	3.81	12.86	2.24	0	0.41	0	0	0.21	2.25	28.96
XIV.a	DAM													
1	IEX	90.88	114.14	35.45	86.41	141.47	47.52	13.66	0.61	1.62	0	0.02	11.29	543.07
2	PXIL	25.09	3.51	2.3	3.98	33.47	0.85	0	0	0	0	0	0	69.2
XIV.b	DAM Sub Total	115.97	117.65	37.75	90.39	174.94	48.37	13.66	0.61	1.62	0	0.02	11.29	612.27
XV	KPTCL-Overarching	0	0	0	0	0	0	0	0	0	0	0.37	0.78	1.15
XVI	GMRETL-Swap	0	0	0	0	0	0	0	26.5	27.33	27.27	24.58	27.22	132.9
XVII	Deviation Settlement Mechanism (Net)	64.08	62.08	52.93	56.89	67.18	50.51	41.57	40.9	35.99	19.81	32.64	45.07	569.7
B	Total Power Purchase at Kerala Periphery ((Sum(Vb to XIVb)+XV +XVI+XVII))	1687.82	1737.42	1544.22	1497.49	1500.73	1291.32	1459.62	1539.06	1579.54	1667.49	1567.14	1645.36	18717.22

Table 17 Contd..

STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS & SYSTEM LOSSES FOR 2017-18

		(in Million Units)												
Sl. No	Stations	04/17	05/17	06/17	07/17	08/17	09/17	10/17	11/17	12/17	01/18	02/18	03/18	TOTAL
C	Total KSEBL Generation & Power Purchase (A+B)	2194.12	2147.66	1855.21	1906.36	1980.23	1897.94	2005.15	1950.21	1978.74	2041.82	1956.14	2278.12	24191.70
D	Substation Auxiliary consumption	1.37	1.28	1.1	1.11	1.11	1.13	1.16	1.18	1.16	1.14	1.1	1.28	14.12
E	Net Generation and Power Purchase (C-D)	2192.75	2146.38	1854.11	1905.25	1979.12	1896.81	2003.99	1949.03	1977.58	2040.68	1955.04	2276.84	24177.57
F	Energy injected by private developers at Generator end for sale outside the state through open access	3.75	3.73	3.77	4.14	4.13	4.12	2.52	3.92	4.10	3.62	3.43	3.91	45.15
G	Energy purchased by consumers through open access at Kerala periphery	29.76	26.59	34.35	40.54	29.31	12.06	12.68	14.69	28.89	24.03	19.98	12.08	284.96
	Out side State Sale by KSEBL													
a	IEX Sale - DAM(Kerala Periphery)	0.00	0.00	-0.37	-0.20	0.00	-0.06	-18.68	-0.97	-8.40	-36.85	-33.84	-17.12	-116.49
b	PXIL sale TAM (Kerala Periphery)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.23	-0.79	0.00	-1.02
c	Total Sale outside the state(a+b)	0.00	0.00	-0.37	-0.20	0.00	-0.06	-18.68	-0.97	-8.40	-37.08	-34.63	-17.12	-117.51
d	GMRETL-Swap sale	0.00	0.00	0.00	-6.06	0.00	-0.24	0.00	0.00	0.00	0.00	0.00	0.00	-6.31
H	Energy sale outside the State by KSEBL and Swap return(c+d)	0.00	0.00	-0.37	-6.27	0.00	-0.30	-18.68	-0.97	-8.40	-37.08	-34.63	-17.12	-123.82
I	Energy injected by private developers at Kerala periphery for sale outside state through open access	-3.58	-3.56	-3.60	-3.95	-3.90	-3.93	-2.41	-3.75	-3.92	-3.46	-3.27	-3.73	-43.07
J	Net energy available for sale inside the state (E+F+G+H+I)	2222.68	2173.14	1888.26	1939.72	2008.66	1908.76	1998.10	1962.92	1998.25	2027.79	1940.54	2271.98	24340.79
K	Energy purchased by consumers through open access at consumer end	28.31	25.3	32.67	38.5	27.15	11.44	12.02	13.93	27.38	22.79	18.94	11.44	269.86
L	Energy sale inside the state by KSEBL	1846.04	1790.38	1666.44	1640.51	1742.87	1697.51	1684.21	1711.31	1715.71	1749.25	1729.32	1907.15	20880.70
M	Energy given to RGCCPP for meeting auxiliary consumption during non operational period													8.63
N	Energy sale with in the state including open access and aux power to RGCCPP. (K+L+M)	1874.35	1815.68	1699.11	1679.01	1770.02	1708.95	1696.23	1725.24	1743.09	1772.04	1748.26	1918.59	21159.19
O	Loss in KSEBL system (J-N)	348.33	357.46	189.16	260.71	238.64	199.80	301.86	237.68	255.16	255.76	192.28	353.39	3181.61

TABLE 18														
STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS & SYSTEM LOSSES FOR 2018-19														
(in Million Units)														
Sl. No	Stations	04/18	05/18	06/18	07/18	08/18	09/18	10/18	11/18	12/18	01/19	02/19	03/19	TOTAL
A	KSEBL Internal Generation													
1	Idukki	261.20	234.62	105.68	223.67	456.18	323.37	321.41	190.30	134.96	159.63	233.60	276.87	2921.48
2	Sabarigiri	163.01	155.13	110.56	151.11	180.01	180.61	164.56	118.93	67.96	61.24	40.57	119.50	1513.19
3	Idamalayar	36.47	31.50	11.23	20.35	45.67	49.54	33.66	17.18	17.47	21.15	27.91	33.35	345.47
4	Kuttiyadi+KES+KAES	51.38	39.42	70.42	123.52	133.29	70.26	66.60	34.70	19.31	18.97	24.64	40.22	692.75
5	Poringalkuthu & PLBE	12.37	6.72	33.32	40.65	20.92	11.62	15.06	11.14	6.94	10.18	10.76	13.07	192.74
6	Sholayar	21.91	16.40	17.59	4.11	24.79	23.83	17.88	7.88	7.85	16.04	20.72	23.62	202.63
7	Pallivasal	17.06	17.30	18.55	19.24	13.65	17.48	19.17	15.64	13.39	9.83	10.65	13.29	185.25
8	Sengualm	0.00	9.37	10.44	13.22	14.22	11.28	11.51	12.55	11.64	8.99	9.03	10.78	123.03
9	Panniyar	10.62	12.74	16.75	23.03	10.93	0.00	0.00	2.55	11.21	7.12	8.48	11.52	114.95
10	Neriamangalam+ NES	12.65	22.00	43.21	54.28	45.66	41.81	54.42	35.64	23.38	13.93	13.72	17.14	377.84
11	Lower Periyar	13.75	24.63	81.78	109.48	40.08	23.85	104.17	50.55	28.80	15.90	14.50	16.77	524.26
12	Kakkad	22.00	22.30	20.35	26.40	26.90	24.25	23.54	16.58	9.57	9.37	4.48	15.84	221.57
13	Kallada	5.21	3.54	6.25	10.56	11.05	6.71	4.25	5.96	1.75	1.66	5.42	5.98	68.34
14	Peppara	0.10	0.16	0.85	1.38	1.33	0.53	0.80	1.22	0.42	0.49	0.48	0.48	8.23
15	Malankara	3.34	3.47	2.97	2.56	1.95	2.40	3.15	2.68	1.96	2.20	2.90	3.68	33.25
16	Maduppatty	0.67	0.39	0.07	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.40	1.63
17	Chembukadavu I&II	0.00	0.00	2.34	3.10	1.18	0.12	0.32	0.04	0.00	0.00	0.00	0.00	7.11
18	Urumi I&II	0.00	0.00	1.70	2.87	1.39	0.29	0.55	0.06	0.00	0.00	0.00	0.00	6.86
19	Malampuzha	0.00	0.00	0.00	0.00	1.08	0.36	0.11	0.82	1.08	0.59	0.27	0.00	4.32
20	Lower Meenmutty	0.04	0.58	1.23	0.99	0.99	0.32	0.72	0.86	0.26	0.07	0.04	0.01	6.11
21	KuttiyadiTail Race	0.49	0.58	0.99	1.42	1.45	0.83	0.89	0.52	0.21	0.28	0.32	0.46	8.45
22	Vellathhoval SHEP	0.04	0.37	0.85	0.99	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.74
23	Poozhithode	0.00	0.09	2.25	2.94	0.77	0.59	0.65	0.16	0.07	0.03	0.00	0.00	7.56
24	Ranni-Perinadu	0.43	0.79	0.95	0.78	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.47	3.73
25	Peechi	0.17	0.00	0.00	0.10	0.61	0.10	0.12	0.00	0.46	0.28	0.23	0.40	2.48
26	Vilangadu	0.00	0.01	1.96	2.12	1.85	0.94	0.65	0.22	0.07	0.02	0.00	0.00	7.82
27	Chimmony	0.30	0.04	0.00	0.00	0.56	0.79	0.56	0.81	1.14	0.93	0.77	0.78	6.69
28	Addyanpara	0.01	0.13	0.08	0.00	0.00	0.00	0.00	0.00	0.03	0.04	0.02	0.01	0.32
29	Barapole	0.02	0.22	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20
30	Perunthenaruvi	0.05	1.49	2.65	2.88	0.61	0.00	0.00	0.00	0.00	0.00	0.04	0.01	7.72
31	Kakkayam					0.60	0.33	0.37	0.22	0.21	0.15	0.25	0.49	2.63
32	Poringalkuthu screw	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.01	0.06
Ia	KSEBL Hydro Gross	633.30	604.00	565.95	841.76	1038.63	792.24	845.12	527.19	360.15	359.12	429.79	605.15	7602.41
	Auxiliary Consumption (Hydro Generating station)	2.29	2.84	2.60	3.26	2.99	2.80	2.99	2.54	2.24	2.08	2.25	2.92	31.81
Ib	KSEBL Net Hydro	631.01	601.15	563.35	838.49	1035.64	789.43	842.14	524.65	357.91	357.04	427.54	602.23	7570.60

Table 18 Contd..

Sl. No	Stations	04/18	05/18	06/18	07/18	08/18	09/18	10/18	11/18	12/18	01/19	02/19	03/19	TOTAL
IIa	KSEBL Wind													
33	Kanjikode	0.07	0.08	0.13	0.22	0.26	0.13	0.04	0.07	0.06	0.12	0.09	0.07	1.33
	Auxiliary consumption wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IIb	Net Generation wind (KSEBL)	0.07	0.08	0.13	0.22	0.26	0.13	0.04	0.07	0.06	0.12	0.09	0.07	1.33
IIIa	KSEBL Solar													
34	Total solar	1.57	2.58	1.04	1.14	0.99	1.70	1.47	1.44	1.47	1.81	1.48	1.84	18.54
	Auxiliary Consumption Solar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IIIb	KSEBL Net Solar	1.57	2.58	1.04	1.14	0.99	1.70	1.47	1.44	1.47	1.81	1.48	1.84	18.54
IV a	KSEBL Thermal													
35	BDPP,Brahmapuram	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.17	0.00	0.29
36	KDPP, Nallalam	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	2.68	3.80
	Aux. cons.- BDPP (Thermal)	0.05	0.06	0.04	0.04	0.05	0.05	0.06	0.05	0.05	0.05	0.05	0.05	0.62
	Aux cons.-KDPP (Thermal)	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.13	0.82
IVb	KSEBL Net Thermal Generation	0.92	-0.11	-0.11	-0.10	-0.11	-0.11	0.00	-0.05	-0.12	-0.12	0.05	2.50	2.66
A	Net Generation- KSEBL (Ib+IIb+IIIb+IVb)	633.57	603.71	564.42	839.75	1036.78	791.15	843.65	526.11	359.33	358.85	429.16	606.64	7593.12
B	Power Purchase													
Va	Central Generating Stations at Kerala periphery (KSEB end)													
1	RSTPS (Unit 1 to 6)	157.43	146.26	135.21	105.38	71.21	118.44	118.20	147.26	152.79	121.11	135.69	132.30	1541.29
2	RSTPS (Unit 7)	35.91	37.71	38.24	38.50	25.14	32.43	40.33	16.76	7.55	36.58	34.06	40.99	384.20
3	TALCHER STAGE II	260.38	268.10	233.20	169.70	176.45	184.65	188.73	240.32	272.37	261.29	231.20	282.21	2768.59
4	Simhadri TPS Stage II	55.92	32.97	20.19	35.66	18.65	36.33	51.28	50.86	55.77	55.80	51.97	54.12	519.53
5	Kudgi STPS	50.45	50.06	14.20	8.29	0.00	42.41	27.81	32.41	44.30	47.21	51.73	70.58	439.47
6	NLC II STAGE 1	35.05	36.75	28.98	23.97	22.59	33.66	32.10	25.62	37.06	36.87	32.84	33.98	379.46
7	NLC II STAGE 2	56.28	44.90	39.75	36.30	39.52	48.99	49.78	49.89	54.22	44.65	46.56	50.88	561.72
8	NLC I EXPANSION	42.20	18.74	29.61	26.32	16.93	20.94	43.49	41.29	44.35	43.95	39.84	44.36	412.02
9	NLC II EXPANSION	12.87	15.83	8.24	23.55	11.62	18.43	31.84	22.02	32.12	35.36	32.75	24.87	269.50
10	NTPL	41.26	44.43	37.16	29.26	15.76	34.66	43.36	43.43	40.24	27.48	20.72	25.16	402.93
11	VALLUR STPS	33.72	27.31	15.63	16.80	9.15	17.99	16.92	19.72	22.48	17.66	26.14	33.08	256.60
12	MAPS	6.26	6.36	6.29	6.20	6.48	6.19	5.60	3.29	0.00	0.00	5.66	5.86	58.20
13	KAPS I & II	23.91	24.60	24.14	25.39	25.07	24.35	24.75	23.44	24.09	12.47	11.79	22.45	266.45
14	KAPS III& IV	22.29	22.80	22.25	19.50	23.09	11.80	22.06	22.59	23.26	23.30	21.10	18.63	252.67
15	KKNPP	82.28	86.01	89.18	88.42	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	347.04
16	KKNPP unit 2	0.00	0.00	0.00	16.01	1.09	17.06	48.08	65.18	65.83	65.62	52.27	50.28	381.42
Vb	TOTAL CGS	916.20	862.84	742.29	669.25	463.90	648.32	744.33	804.04	876.45	829.37	794.34	889.75	9241.09
VI.a	Thermal IPPs/Co-Gen													
1	RGCCPP actual Gen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.81
2	BSES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	MPS Steel(Co-Gen Plant)Net injection to Grid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 18 Contd..

Sl. No	Stations	04/18	05/18	06/18	07/18	08/18	09/18	10/18	11/18	12/18	01/19	02/19	03/19	TOTAL
4	PCBL (Co-Gen Plant)Net injection to grid	0.15	0.03	0.14	0.15	0.25	0.10	0.07	0.05	0.32	0.43	0.03	0.34	2.05
VI.b	Thermal IPPs /Co-Gen total	0.15	0.03	0.14	0.15	0.25	0.10	0.07	0.05	0.32	0.43	0.84	0.34	2.86
VII.a	IPPs-Small hydro(net)													
1	Ullunkal (EDCL)	1.46	1.44	1.32	2.38	1.11	0.00	0.00	0.00	0.75	0.61	0.40	1.27	10.75
2	Iruttukanam(VIYYAT)	0.33	1.37	3.57	4.16	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.51
3	Kaarikkayam (AHPL)	3.42	4.44	6.53	8.91	5.95	3.40	5.31	2.64	1.03	1.16	0.76	2.23	45.78
4	Meenvallam (PSHCL)	0.06	0.14	1.27	1.96	1.78	0.61	0.80	0.36	0.19	0.10	0.08	0.06	7.41
5	Pathankayam (MREPLL)	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
6	Mankulam GP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	Kallar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VII.b	IPPs-Small hydro Total	5.28	7.39	12.76	17.41	9.91	4.00	6.11	3.00	1.97	1.87	1.25	3.56	74.51
VIII.a	Captive Power plants													
1	Maniyar IPP hydel net	0.24	0.43	5.19	0.75	2.52	-6.72	0.00	0.15	0.10	0.01	0.03	0.16	2.86
2	Kuthungal IPP hydel net	1.72	-1.03	0.49	4.50	0.04	-1.31	6.51	2.29	-2.40	-3.29	-0.49	0.80	7.82
VIII.b	CPP -Total	1.96	-0.60	5.68	5.25	2.56	-8.02	6.51	2.44	-2.31	-3.28	-0.46	0.96	10.68
IX.a	Wind IPPs													
1	Ramakalmedu, Wind	0.42	1.09	3.88	5.47	4.65	2.12	0.71	0.97	0.89	1.63	1.24	0.61	23.68
2	Agali, Wind	0.82	1.43	6.10	6.55	5.11	2.87	0.53	0.30	0.20	0.44	0.87	0.81	26.04
3	Koundikkal													0.00
4	Ahalya Wind	0.96	1.32	2.27	3.05	3.01	1.96	0.73	0.81	0.79	1.28	1.04	0.94	18.15
5	INOX	1.99	2.76	4.13	6.27	6.64	3.75	1.40	2.14	2.04	3.23	2.47	2.08	38.90
6	Kosamattam	0.00	0.01	0.21	0.37	0.35	0.15	0.01	0.00	0.00	0.02	0.00	0.00	1.13
IX.b	Wind IPPs Total	4.20	6.61	16.59	21.70	19.76	10.86	3.38	4.21	3.91	6.61	5.62	4.45	107.90
X.a	Solar IPPs /Prosumer													
1	Anert, Kuzhalmandam	0.24	0.21	0.15	0.14	0.12	0.24	0.23	0.17	0.23	0.25	0.26	0.30	2.54
2	Ambalathara -Solar Park IPP	7.16	5.79	3.81	4.28	4.93	7.25	6.76	6.72	6.37	7.74	7.37	8.37	76.53
3	CIAL net injection-solar prosumer	0.09	-0.34	-0.63	0.29	0.09	0.16	0.06	0.14	0.21	0.54	0.80	0.53	1.95
4	Grid connected consumers net injection	2.70	0.02	0.00	0.30	0.41	0.04	0.01	0.23	0.10	0.44	0.00	0.00	4.24
X.b	Solar IPPs Total	10.19	5.68	3.34	5.00	5.54	7.70	7.04	7.26	6.91	8.96	8.43	9.20	85.26
	Total IPP, CPP and Co-gen (VIb+VIIb+VIIIb+IXb+Xb)	21.78	19.11	38.51	49.52	38.01	14.64	23.10	16.96	10.80	14.60	15.68	18.50	281.22
	Traders													
XI.a	LTOA contracts													
1	MAITHON (MPL)	85.74	90.45	87.07	72.28	74.61	63.52	79.59	81.60	98.74	83.40	91.55	102.00	1010.56
2	MAITHON (MPL)	85.74	90.45	87.07	72.28	74.63	63.52	79.59	81.60	98.74	83.40	91.55	102.00	1010.58
3	DVC-MEJIA	58.98	52.51	57.79	38.28	39.91	28.43	22.31	47.69	33.76	62.88	61.66	66.21	570.42
4	DVC RAGHUNATHPUR	15.07	11.11	5.72	10.39	6.89	7.55	6.69	7.54	9.94	10.80	15.48	19.94	127.14
5	Jindal Power Limited ((Bid I)	110.99	113.61	99.11	105.16	102.11	104.41	122.48	113.37	120.92	121.93	106.00	123.51	1343.61
6	Jindal Power Limited ((Bid II)	83.18	85.16	74.40	78.92	78.33	80.18	91.88	85.02	90.63	91.45	79.53	92.62	1011.31

Table 18 Contd..

Sl. No	Stations	04/18	05/18	06/18	07/18	08/18	09/18	10/18	11/18	12/18	01/19	02/19	03/19	TOTAL
7	Jhabua Power Limited ((Bid I)	34.75	52.48	64.44	33.86	21.97	74.86	56.88	56.59	61.62	74.59	52.20	70.97	655.21
8	Jhabua Power Limited ((Bid II)	30.26	45.63	57.86	27.77	17.48	65.10	49.46	49.20	53.59	64.86	45.41	61.87	568.48
9	BALCO	62.93	64.94	59.28	54.02	67.15	52.18	23.17	62.88	67.04	63.90	59.97	63.30	700.75
10	JITPL	61.10	56.38	59.07	48.08	23.37	47.75	61.18	57.59	63.10	60.31	54.28	61.77	653.99
XI.b	Sub Total LTOA	628.75	662.72	651.82	541.06	506.45	587.50	593.21	643.08	698.09	717.53	657.63	764.20	7652.05
	Short Term Contracts													
	Sub Total STO A	0	0	0	0	0	0	0	0	0	0	0	0	0
	Power Exchanges													
XII.a	TAM													
1	IEX	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.41	0.00	0.93
2	PXIL	0.00	0.78	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	0.00	0.31	1.97
XII.b	TAM Sub Total	0.00	0.78	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00	0.41	0.31	2.90
XIII.a	DAM													
1	IEX	1.27	3.76	0.00	0.00	0.81	10.75	3.87	84.90	168.14	65.22	107.19	21.15	467.06
2	PXIL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.03	7.03
XIII.b	DAM Sub Total	1.27	3.76	0.00	0.00	0.81	10.75	3.87	84.90	168.14	65.22	107.19	28.18	474.09
XIV	KPTCL-Overarching	0	0	0	0	0	0	0	0	0	0	0	0	0.00
XV	Swap-inwards	0	0	0	0	0	0	0	0	0	0	7.60964	135.1636	142.77
XVI	Deviation Settlement Mechanism (Net)	36.52	30.78	27.25	21.39	-5.89	23.11	20.55	26.79	25.55	8.24	20.52	17.65	252.45
B	Total Power Purchase at Kerala Periphery ((Sum(Vb to XIIIb)+XIV+XV+XVI)	1604.51	1580.00	1459.86	1281.22	1003.28	1285.72	1385.06	1575.77	1779.03	1634.96	1603.38	1853.77	18046.57
C	Total KSEBL Generation & Power Purchase (A+B)	2238.09	2183.71	2024.28	2120.97	2040.06	2076.87	2228.71	2101.89	2138.36	1993.81	2032.54	2460.41	25639.69
D	Substation Auxiliary consumption	1.44	1.33	1.21	1.21	1.23	1.29	1.32	1.36	1.44	1.41	1.32	1.55	16.11
E	Net Generation and Power Purchase (C-D)	2236.65	2182.38	2023.07	2119.76	2038.83	2075.58	2227.39	2100.53	2136.92	1992.40	2031.22	2458.86	25623.58
F	Energy injected by private developers at Generator end for sale outside the state through open access	3.73	3.91	3.60	3.27	3.23	3.55	3.42	3.32	3.18	3.19	0.95	3.82	39.17
G	Energy purchased by consumers through open access at Kerala periphery	15.16	12.69	30.61	27.01	25.29	14.54	3.24	17.23	16.14	18.26	15.46	20.95	216.60
	Out side State Sale by KSEBL													
a	DAM(Kerala Periphery)-IEX	-6.52	-29.08	-113.56	-189.72	-189.26	-22.33	-91.97	-0.91	-0.13	-4.88	-0.77	-0.38	-649.48
b	DAM(Kerala Periphery)-PXIL	0.00	0.00	-1.35	-2.01	-5.02	-1.37	0.00	0.00	0.00	0.00	0.00	0.00	-9.76
c	TAM (Kerala Periphery)-IEX	0.00	-0.20	-0.46	0.00	0.00	0.00	-6.25	-0.05	0.00	0.00	0.00	0.00	-6.96
d	TAM (Kerala Periphery)-PXIL	0.00	-2.95	-1.02	-0.20	-1.42	-0.20	-2.31	0.00	0.00	-6.32	0.00	0.00	-14.43

Table 18 Contd..

Sl. No	Stations	04/18	05/18	06/18	07/18	08/18	09/18	10/18	11/18	12/18	01/19	02/19	03/19	TOTAL
e	Sale through BSHPCL	0.00	0.00	-7.62	0.00	-34.62	-15.23	-17.63	0.00	0.00	0.00	0.00	0.00	-75.10
f	Sale through CSPDCL	0	0	0	0	0	0	-32.98596	-36.0705	0	0	0	0	-69.06
i	Total Sale outside the state(a+b)	-6.52	-32.23	-123.99	-191.93	-230.32	-39.14	-151.15	-37.03	-0.13	-11.20	-0.77	-0.38	-824.78
a	SWAP return through GMRETL	0.00	0.00	-19.12	-41.23	-39.73	-39.03	0.00	0.00	0.00	0.00	0.00	0.00	-139.12
b	SWAP return through NVVN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-11.42	-5.90	0.00	0.00	0.00	-17.32
c	SWAP return through TATA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-7.61	-3.97	0.00	0.00	0.00	-11.58
ii	Total SWAP return	0.00	0.00	-19.12	-41.23	-39.73	-39.03	0.00	-19.03	-9.86	0.00	0.00	0.00	-168.02
H	Energy sale outside the State by KSEBL and Swap return(i+ii)	-6.52	-32.23	-143.12	-233.17	-270.05	-78.17	-151.15	-56.06	-9.99	-11.20	-0.77	-0.38	-992.80
I	Energy injected by private developers at Kerala periphery for sale outside state through open access	-3.56	-3.73	-3.44	-3.12	-3.08	-3.39	-3.27	-3.17	-3.03	-3.04	-0.91	-3.65	-37.40
J	Net energy available for sale inside the state (E+F+G+H+I)	2245.46	2163.02	1910.72	1913.75	1794.22	2012.11	2079.64	2061.85	2143.21	1999.61	2045.96	2479.60	24849.14
K	Energy purchased by consumers through open access at consumer end	14.365163	12.044713	29.007383	25.606145	24.032133	13.824305	3.075685	16.34134	15.287105	17.326888	14.658995	19.87094	205.44
L	Energy sale inside the state by KSEBL	1938.30	1854.13	1708.88	1618.67	1573.64	1738.24	1847.22	1797.29	1827.85	1797.09	1816.31	2019.14	21536.77
M	Energy given to RGCCPP for meeting auxiliary consumption during non operational period													8.04
N	Energy sale with in the state including open access and aux power to RGCCPP. (K+L+M)	1952.66	1866.17	1737.89	1644.28	1597.67	1752.06	1850.30	1813.63	1843.14	1814.42	1830.97	2039.01	21750.25
O	Loss in KSEBL system (J-N)	292.80	296.85	172.83	269.47	196.55	260.05	229.34	248.22	300.07	185.18	214.99	440.59	3098.90
P	% Loss within Kerala	13.04%	13.72%	9.05%	14.08%	10.95%	12.92%	11.03%	12.04%	14.00%	9.26%	10.51%	17.77%	12.47%

TABLE-19
ANNUAL GENERATION FROM RENEWABLE SOURCES

Sl. No.	Stations	Installed capacity (MW)	Annual Generation in MU									
			2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
I Small Hydro (KSEB)												
1	Kallada	15	60.42	72.25	65.63	25.54	67.55	68.99	44.81	44.36	36.56	68.38
2	Peppara	3	6.05	9.75	8.20	3.69	7.63	5.13	4.71	3.94	5.77	8.23
3	Malankara	10.5	32.46	36.90	31.94	26.69	30.38	34.15	32.43	24.74	29.49	33.25
4	Madupetty	2	1.91	2.28	1.22	2.49	5.75	3.57	4.29	3.94	2.55	1.72
5	Chembukadavu	6.45	8.46	13.54	11.99	9.52	12.42	10.95	9.04	8.64	10.65	7.52
6	Urumi	6.15	11.58	15.94	13.27	10.79	13.67	12.98	9.30	9.03	11.20	6.91
7	Malampuzha	2.5	0.00	0.00	2.77	1.94	4.96	5.19	2.03	0.63	1.95	4.51
8	Lower Meenmutty	3.5	3.43	7.20	4.86	8.01	5.62	4.74	5.56	2.48	6.08	6.33
9	Kuttiyadi Tailrace	3.75	4.62	4.35	8.57	8.00	7.96	7.92	8.05	6.35	8.00	8.44
10	Poringalkuthu LBE	16	108.82	120.69	102.15	99.86	114.03	107.45	106.43	94.37	124.73	98.04
11	Neriamangalam Extension	25	92.60	95.48	63.03	94.52	143.66	120.20	133.33	102.08	158.60	167.66
12	Poozhithode	4.8			9.36	10.67	12.10	11.33	8.62	10.44	11.78	7.56
13	Ranni Perunad	4			0.21	6.15	9.52	7.35	7.66	5.85	6.32	3.83
14	Peechi	1.25				0.26	3.29	1.92	1.43	0.40	1.78	2.46
15	Vilangad	7.5						0.45	12.75	15.77	15.56	7.83
16	Chimmony	2.5							4.59	1.55	2.09	6.65
17	Adyanpara	3.5							2.36	5.01	3.88	0.33
18	Barapole	15							0.00	19.32	42.69	1.21
19	Vellathooval	3.6								3.05	4.69	2.72
20	Poringalkuthu Micro	0.011									0.05	0.06
21	Perunthenaruvi	6									3.12	7.76
22	Kakkayam	3										2.62
II Small Hydro (CPP)												
1	Maniyar	12	33.79	41.24	36.91	21.49	39.72	33.93	30.30	1.66	28.67	22.86
2	Kuthungal	21	34.25	47.05	44.16	22.95	42.48	45.26	49.31	14.03	37.13	62.14
III Small Hydro (IPP)												
1	Ullunkal	7	19.83	24.29	23.16	14.37	23.62	20.80	18.26	13.10	15.03	10.75
2	Iruttukkanam	4.5		8.87	17.62	18.56	23.06	23.18	24.83	20.08	24.83	10.51

Table-19 contd..

Sl. No.	Stations	Installed capacity (MW)	Annual Generation in MU									
			2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
3	Kaarikkayam	15					17.18	27.17	26.99	21.93	37.14	45.78
4	Meenvallom	3						2.37	5.56	5.99	10.48	7.41
5	Kallar	0.05									0.08	
6	Pathankayam	8									11.40	0.07
IV	Wind (KSEB)											
1	Kanjikode	2.025	1.84	1.51	2.03	1.76	1.80	1.06	1.38	1.71	1.41	1.33
V	Wind (IPP)											
1	Ramakalmedu	14.25	32.54	29.39	31.27	30.91	33.21	26.73	23.65	28.75	29.01	23.68
2	Agali	18.6	35.07	33.48	35.71	38.06	40.86	40.41	23.79	46.47	31.07	26.04
3	Ahalia Alternate Energy Ltd	8.4							0.00	17.39	21.07	18.15
4	INOX	16									12.31	38.90
5	Kosamattom	1										1.13
	Total Non Solar	275.84	487.66	564.21	514.06	456.24	660.49	623.23	601.44	533.06	747.16	722.77
VI	Solar (KSEB)											
1	Kanjikode	1	-	-	-	-	-	-	0.81	0.87	1.13	0.82
2	Poringalkuthu Powerhouse	0.05	-	-	-	-	-	-	0.04		0.06	0.06
3	Floating solar RT- Banasurasagar	0.01									0.01	0.13
4	Meencut RT	0.03									0.01	0.01
5	Kothamangalam RT	0.13									0.14	0.13
6	Moolamattom RT	0.05									0.05	0.05
7	Thrissur RT	0.35									0.31	0.25

Table-19 contd..

Sl. No.	Stations	Installed capacity (MW)	Annual Generation in MU										
			2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	
8	Kollengode	1										1.47	1.26
9	Padinjarethara DT	0.44										0.50	0.50
10	Moozhiyar RT	0.13										0.54	0.12
11	Edayar Substation Premise	1.25										1.65	1.08
12	Barapole Canal Bank	1										1.02	1.28
13	Barapole Canal Top	3										2.68	2.23
14	KDPP,Kozhikode	0.035										0.04	0.04
15	Thalakulathoor	0.65										0.88	0.93
16	Vydyuthi bhavan RT	0.03										0.04	0.05
17	Manjeswaram	0.5										0.65	0.81
18	Moovattupuzha	1.25										0.39	1.55
19	Pothencode	2										0.48	2.72
20	Kuttippuram	0.5											0.71
21	220kV S/Sn Kundara RT	0.03											0.08
22	110kV S/Sn Kanjikode RT	0.025											0.06
23	220kV S/Sn Palakkad RT	0.035											0.08
24	220kV S/Sn Edappon RT	0.03											0.07
25	220kV S/Sn Edappon RT	0.045											0.09
26	110kV S/Sn Kunnamangalam RT	0.02											0.11
27	220kV S/Sn Orkattery RT	0.035											0.08
28	220kV S/Sn Nallalam RT	0.035											0.09
29	220kV S/Sn Brahmapuram RT	0.055											0.13

Table-19 contd..

Sl. No.	Stations	Installed capacity (MW)	Annual Generation in MU									
			2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
30	110kV S/Sn Thycattussery RT	0.02										0.09
31	220kV S/Sn Kattakkada RT	0.02										0.03
32	110kV S/Sn Paruthippara RT	0.03										0.08
33	220kV S/Sn Pothencode RT	0.035										0.53
34	66kV S/Sn GIS LA Complex RT	0.025										0.06
35	66kV S/Sn GIS Power house RT	0.025										0.06
36	66KV S/SnVeli RT	0.02										0.06
37	TMR Thirumala RT	0.035										0.08
38	VB Pathanamthita RT	0.045										0.08
39	220kV S/Sn Malaparamba RT	0.02										0.03
40	VB Manjeri RT	0.03										0.05
41	220kV S/Sn Areacode RT	0.03										0.05
42	PTRU-Kalamassery RT	0.04										0.06
43	220kV S/Sn Mylatty RT	0.03										0.05
44	220kV S/Sn Kanhirode RT	0.035										0.07
45	110kV S/Sn Viyyur RT	0.02										0.03
46	110kV S/Sn Pathanamthitta RT	0.025										0.21
47	MCR& W Madakkathara RT	0.045										0.12
48	MCM& W Madakkathara RT	0.15										0.15
49	Ele Dvn Kollam RT	0.035										0.05
50	Ele Dvn Kundara RT	0.025										0.04
51	Vaidyuthi bhavanam Chathnnoor RT	0.025										0.03
52	VB, Kottarakkara RT	0.08										0.08
53	220kV S/Sn New pallom RT	0.02										0.06
54	220kV S/Sn Ambalamughal RT	0.02										0.04
55	Vaidyuthi bhavanam Thodupuzha-50KW COD(25.02.2017)	0.05										0.12
56	Ele Sn.Beach RT	0.02										0.08
57	Vaidyuthi bhavanam Thrissur RT	0.045										0.16
58	SLDC Building RT	0.035										0.10
59	ES Kesavadasapuram RT	0.025										0.03
60	110kV S/S Ponnani RT	0.5										0.15
61	Peerumedu RT	0.5										0.69
62	Various IPDS projects	0.45									1.31	
	Solar (IPP)											
1	Cochin International Airport Ltd	38.44							11.42	10.99	33.29	37.38
2	Anert, Kuzhalmandam	2.00								0.93	2.79	2.54
3	Ambalathara -Solar Park	50.00								7.55	49.62	76.54
4	Net Metered Solar Prosumer	130.26									25.72	38.42
5	Chaliyoor Colony, Agali	0.096							0.05		0.07	0.07
6	Solar Off Grid with Gen Based Incentives										0.80	2.67
	Total Solar	237.00	0.00	0.00	0.00	0.00	0.00	0.00	12.27	20.34	125.63	176.70
	Total Renewable	512.83	487.66	564.21	514.06	456.24	660.49	623.23	613.71	553.41	872.79	899.47

2017-18 RPO achievement:- Non-solar- 4.84%(Target -6%) ; Solar - 0.81%(Target-1.5%)

2018-19 RPO achievement:- Non-solar-5.24 % (Target -7%) ; Solar -1.28 % (Target-2.75%)

TABLE 20
GENERATION, PURCHASE, SALES AND LOSSES

Sl. No.	Year	Total internal Generation excluding auxillary consumption (MU)	Power purchase (CGS, IPPs, Traders) (MU)	External PGCIL Line Losses (MU)	Net generation & purchase (MU)	Energy injected at gen.end by open access consumers for sale outside state (MU)	Energy purchased by open access consumers at Kerala periphery (MU)	Energy Sale by KSEBL to outside State (MU)	Swap Return (MU)	Energy injected at Kerala periphery by IPPs for sale outside state (MU)	Energy available for sale within the State (MU)	Energy purchased by consumers through open access at consumer end (MU)	Energy sale inside the state by KSEBL (MU)	Energy sale with in the state including sale by open access consumers (MU)	T&D loss within Kerala system		AT&C Loss (%)	Discom AT&C loss
															(MU)	(%)		
		(1)	(2)	(3)	(4)=(1)+(2)-(3)	(5)	(6)	(7)	(7a)	(8)	(9)=(4+5+6-7-7a-8)	(10)	(11)	(12)=(10+11)	(13)=(9-12)	14=(13/9)%	15	16
1	2008-09	6440.44	9628.87	312.57	15756.74			463.33			15293.41		12414.32	12414.32	2879.09	18.83	21.09	
2	2009-10	7189.51	10204.21	357.53	17036.19			53.90			16982.29		13971.09	13971.09	3011.20	17.73	19.62	
3	2010-11	7359.97	10512.27	401.73	17470.51			130.24			17340.27		14547.90	14547.90	2792.37	16.10%	17.63	
4	2011-12	8289.91	11263.21	413.21	19139.91			201.10			18938.81		15980.53	15980.53	2958.28	15.62%	17.16	
5	2012-13	5334.27	14908.82	364.96	19878.13	0	0.05	0.97		0.00	19877.21	0.05	16838.24	16838.29	3038.92	15.29%	16.83	
6	2013-14	8163.03	14070.42	293.69	21939.76	0	17.33	1414.60		0.00	20542.49	16.81	17454.05	17470.86	3071.63	14.95%	16.50	
7	2014-15	7286.90	15031.71	393.00	21925.61	26.41	4.66	358.09		25.43	21573.16	4.46	18426.27	18430.73	3142.43	14.57%	16.12	
8	2015-16	6739.25	16448.36	550.6	22637.01	40.44	142.00	53.48		38.63	22727.34	135.25	19325.07	19460.32	3267.02	14.37%		11.32
9	2016-17	4325.08	19734.93	684.75	23375.26	45.08	435.60	49.30		43.06	23763.58	414.66	20038.25	20452.91	3310.67	13.93%		12.48
10	2017-18	5460.34	19426.74	709.51	24177.57	45.15	284.96	117.51	6.31	43.07	24340.79	269.86	20880.70	21159.19	3181.60	13.07%		11.93
11	2018-19	7577.02	18761.47	714.9	25623.59	39.17	216.60	824.78	168.02	37.40	24849.16	205.44	21536.77	21750.25	3098.91	12.47%		10.71

NB: Column 12 value includes auxiliary supply to RGCCP viz. 8.63 MU for 2017-18 & 8.04 MU for 2018-19

TABLE 21**SALES, REVENUE AND PER CAPITA CONSUMPTION**

Sl. No.	Year	Energy sales within the State (MU)	Total energy sales by KSEBL (Excluding SWAP) (MU)	Energy sales within the State including open access (MU)	Revenue from sale of electricity (Rs. Crore)	Per capita consumption (kWh)
1	1996-97	7020.77	7022.74		691.88	224
2	1997-98	7715.50	7716.23		977.29	243
3	1998-99	9183.00	9183.00		1205.28	278
4	1999-00	9813.00	9813.00		1624.09	301
5	2000-01	10319.00	10319.00		1746.79	312
6	2001-02	8667.31	8679.21		1946.00	271
7	2002-03	8752.10	8873.30		2480.69	272
8	2003-04	8910.84	8910.84		2756.09	275
9	2004-05	9384.40	9384.40		2917.36	289
10	2005-06	10269.80	10905.71		3367.30	314
11	2006-07	11331.00	12377.89		4009.71	345
12	2007-08	12049.85	13396.61		4696.95	366
13	2008-09	12414.32	12877.65		4893.02	375
14	2009-10	13971.09	14024.99		4747.17	420
15	2010-11	14547.90	14678.14		5198.52	436
16	2011-12	15980.53	16181.63		5593.02	478
17	2012-13	16838.24	16839.21	16838.29	7223.39	499
18	2013-14	17454.05	18868.65	17470.86	9974.18	516
19	2014-15	18426.27	18784.36	18430.73	9879.34	541
20	2015-16	19325.07	19378.55	19460.32	10487.71	569
21	2016-17	20038.25	20087.55	20452.91	11035.88	592
22	2017-18	20880.70	20998.21	21159.19	12057.27	613
23	2018-19	21536.77	22361.55	21750.25	13053.08	626

TABLE 22

ALLOCATION FROM CENTRAL GENERATING STATIONS TO KERALA

Name of ISGS		NTPC										NLC							
		Ramagundam Stage I&II		Ramagundam Stage III		Talcher Stage II		Simhadri Stage II		Kudgi		NLC TPS-II Stage I		NLC TPS-II Stage II		NLC TPS-I Expn.		NLC TPS-II Expn.	
Installed Capacity (MW)		2100		500		2000		1000		1600		630		840		420		500	
Firm allocation (% and MW)		11.67	245.07	12.20	61.00	21.35	427.00	8.98	89.80	0	0	10	63	10.71	89.96	15.99	67.15	15.99	79.94
Total allocation (firm + unallocated)																			
Period	Time Slot	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)
w.e.f. 1.04.18	18.00-22.00	11.67	245.07	12.20	61.00	21.35	427	8.98	89.80			10	63	10.71	89.96	16.13	67.75	16.13	80.65
	02.00- 06.00	11.67	245.07	12.20	61.00	21.35	427	8.98	89.80			10	63	10.71	89.96	16.04	67.37	16.04	80.20
	Rest of the day	11.67	245.07	12.20	61.00	21.35	427	8.98	89.80			10	63	10.71	89.96	15.94	66.95	15.94	79.70

Kudgi stage 1- first unit operational date 31-7-2017 & second unit operational date 31-12-2017

TABLE 22**ALLOCATION FROM CENTRAL GENERATING STATIONS TO KERALA**

Name of ISGS		NTECL		NTPL		NPCL								Total Allocation from SR	Allocation from Northern Region	Grand Total Allocation		
		Vallur		Tutucorin		MAPS		Kaiga 1&2		Kaiga 3&4		Koodankulam U1					Koodankulam U2	
Installed Capacity (MW)		1500		1000		440		440		440		1000		1000				
Firm allocation (% and MW)		3.33	49.95	7.25	72.50	5.23	23.01	8.64	38.02	7.96	35.02	13.93	139.33	13.30	133.00	1613.75	0.00	1613.75
Total allocation (firm + unallocated)																		
Period	Time Slot	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(MW)	(MW)	(MW)
w.e.f. 1.04.18	18.00-22.00	3.33	49.95	7.25	72.50	5.23	23.01	8.64	38.02	7.95	34.98	13.98	139.80	13.30	133.00	1615.49	0.00	1615.49
	02.00- 06.00	3.33	49.95	7.25	72.50	5.23	23.01	8.64	38.02	7.96	35.02	13.94	139.40	13.30	133.00	1614.30	0.00	1614.30
	Rest of the day	3.33	49.95	7.25	72.50	5.23	23.01	8.64	38.02	7.96	35.02	13.92	139.20	13.30	133.00	1613.18	0.00	1613.18

TABLE 23**CONSUMERS AND CONNECTED LOAD**

Sl. No	Year	No. of Consumers at the end of the year	Connected Load at the end of the year (MW)
1	2000-01	64,46,298	8,552.00
2	2001-02	66,62,528	8,917.08
3	2002-03	69,48,571	9,394.50
4	2003-04	73,00,078	9,910.15
5	2004-05	77,99,276	10,333.51
6	2005-06	82,95,081	10,907.20
7	2006-07	87,13,870	11,465.69
8	2007-08	90,33,756	12,378.00
9	2008-09	93,63,461	15,267.44
10	2009-10	97,43,476	15,866.55
11	2010-11	1,01,27,946	16,681.85
12	2011-12	1,04,57,637	17,518.42
13	2012-13	1,08,06,890	18,523.51
14	2013-14	1,11,92,890	19,684.15
15	2014-15	1,14,30,895	20,391.53
16	2015-16	1,16,68,031	20,980.82
17	2016-17	11,994,816	22,040.62
18	2017-18	12,276,321	23,352.03
19	2018-19	12,552,206	24,939.97

TABLE 24
TRANSMISSION AND DISTRIBUTION LINES-ABSTRACT

Sl.No.	Year	Particulars in kilometers							
		400kV	220 kV	110 kV	66 kV	33 kV	22 kV	11 kV	LT
1	1994-95		1067.55	2684.03	1842.73	-	118.97	24,549	1,54,219
2	1995-96		1175.99	2731.15	1842.73	-	120.52	25,969	1,59,690
3	1996-97		1175.99	2735.43	1842.73	-	120.94	26,606	1,62,661
4	1997-98		1742.10	2964.93	1998.43	-	120.94	27,189	1,68,210
5	1998-99		1897.47	3115.69	1999.05	-	120.94	28,195	1,74,167
6	1999-00		2056.00	3174.99	1999.05	-	99.94	28,785	1,80,470
1	2000-01		2577.89	3558.09	1999.05	185.12	99.94	29,334	1,89,917
2	2001-02		2577.89	3610.72	2012.37	305.42	102.94	30,269	1,94,678
3	2002-03		2577.89	3647.11	2056.77	408.17	102.94	31,352	1,99,721
4	2003-04		2582.15	3822.81	2067.02	514.24	156.59	32,578	2,04,385
5	2004-05		2594.35	3894.67	2072.06	686.01	156.59	33,534	2,10,458
6	2005-06		2640.85	3965.97	2120.51	778.72	156.59	34,596	2,17,899
7	2006-07		2640.85	3993.71	2150.78	909.77	156.59	36,419	2,26,128
8	2007-08		2641.86	4050.09	2161.91	1015.21	156.59	38,235	2,34,286
9	2008-09		2641.86	4067.59	2161.91	1184.78	156.59	41,283	2,41,849
10	2009-10		2734.70	4115.89	2161.91	1390.20	156.59	44,682	2,49,687
11	2010-11		2734.70	4150.11	2161.91	1453.80	160.59	48,342	2,56,449
12	2011-12		2734.70	4151.00	2161.91	1534.80	160.59	51,328	2,60,554
13	2012-13		2761.57	4178.55	2166.51	1599.70	160.59	52,907	2,63,620
14	2013-14		2765.00	4260.27	2202.81	1719.28	160.59	53,579	2,64,117
15	2014-15		2801.20	4299.67	2202.81	1761.57	160.59	55,386	2,68,753
16	2015-16		2801.88	4345.52	2220.56	1826.66	160.59	57,489	2,78,574
17	2016-17		2801.88	4460.75	2154.75	1902.43	160.59	59,335	2,83,811
18	2017-18		2856.88	4521.50	2151.12	1943.51	160.59	60,892	286,784
19	2018-19#	855.96*	2952.34	4745.08	2145.33	1957.43	147.21	60,867	289,804

* PGCIL owned lines

2018-19- 22 kv,11 kv & LT line details as per SCM

TABLE 25
PUMPSETS, STREET LIGHTS AND DISTRIBUTION
TRANSFORMERS

Sl. No	Year	No. of Pumpsets energised	No. of Street lights installed	No. of Distribution transformers
1	2000-01	3,86,416	7,63,912	30,511
2	2001-02	3,88,913	7,97,053	31,767
3	2002-03	3,90,476	8,20,201	32,637
4	2003-04	3,98,996	8,54,584	33,940
5	2004-05	4,12,602	9,08,016	35,822
6	2005-06	4,23,571	9,60,839	37,573
7	2006-07	4,35,673	9,99,599	39,697
8	2007-08	4,40,958	10,49,047	42,250
9	2008-09	4,31,745	10,86,688	46,359
10	2009-10	4,37,877	11,48,220	52,149
11	2010-11	4,46,460	12,02,988	57,954
12	2011-12	4,55,078	12,18,610	62,329
13	2012-13	4,66,289	12,57,285	64,972
14	2013-14	4,78,449	12,97,480	67,546
15	2014-15	4,90,056	13,49,101	71,195
16	2015-16	5,00,082	14,07,024	73,460
17	2016-17	512,339	1,412,689	75,580
18	2017-18	525,367	1,417,639	77,724
19	2018-19	538,918	1,422,764	79,876

TABLE 26
CONSUMERS AND CONNECTED LOAD - CATEGORY WISE

(Connected load in MW)

Sl.No	Category	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
1	Domestic LT											
	No. of Consumers	7,481,601	7,790,132	8,092,072	8,324,961	8,573,938	8,788,916	8,987,947	9,124,747	9384957	9562253	9705347
	Connected Load	9,521.74	9,918.76	10,497.71	11,096.17	11,842.34	12,428.24	12,916.83	13349.76	14206.25	15136.02	16250.73
2	Commercial LT*											
	No. of Consumers	1,325,109	1,388,981	1,457,682	1,539,025	1,633,952	1,795,160	1,832,048	1,923,402	1994916	2081567	2196919
	Connected Load	2,341.44	2,413.56	2,778.91	2,635.81	2,790.58	3,109.57	3,393.70	3309.08	3492.07	3683.98	4027.78
3	Industrial LT											
	No. of Consumers	119,871	122,325	127,354	132,051	131,583	137,744	142,001	136,693	141683	136964	138834
	Connected Load	1,425.26	1,472.69	1,516.56	1,560.32	1,539.24	1,620.52	1,656.73	1,647.07	1,688.59	1,698.11	1,736.48
4	HT & EHT											
	No. of Consumers	2,387	1,166	1,269	3,341	3,631	4,256	3,475	5,005	5335	5620	5911
	Connected Load	891.21	920.86	724.11	1,057.38	1,140.19	1,316.68	1,182.90	1,445.81	1,436.42	1,581.579	1,639.06
5	Public lighting											
	No. of Consumers	2,729	2,927	3,038	3,160	3,505	3,789	4,072	4,281	20350	27131	34653
	Connected Load	82.66	93.80	91.09	93.12	105.70	110.99	118.55	124.13	140.95	149.79	157.34
6	Agricultural LT											
	No. of Consumers	431,745	437,925	446,510	455,078	460,263	463,006	461,333	473,882	447551	462763	470517
	Connected Load	887.90	899.38	924.49	926.68	956.77	952.77	949.82	950.19	874.17	915.15	934.74
7	Licensees											
	No. of Consumers	11	12	13	13	10	11	11	12	12	11	11
	Connected Load	60.88	83.31	83.71	83.67	83.42	79.13	106.75	88.99	111.17	95.15	96.19
8	Railway Traction*											
	No. of Consumers	8	8	8	8	8	8	8	9	12	12	14
	Connected Load	56.35	64.19	65.27	65.27	65.27	66.25	66.25	65.79	91	92.25	97.65
9	Total											
	No. of Consumers	9,363,461	9,743,476	10,127,946	10,457,637	10,806,890	11,192,890	11,430,895	11,668,031	11,994,816	12,276,321	12,552,206
	Connected Load	15,267.44	15,866.55	16,681.85	17,518	18,524	19,684	20,392	20,981	22,041	23,352	24,940

NB: Commercial LT includes General LT VI

* Railway Traction includes KMRL also

TABLE 27**SALES AND REVENUE - CATEGORY WISE**

(Sales in MU, Revenue in Rs. Crore)

Sl.No	Category	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
1	Domestic LT											
	A. Sales	5931.27	6559	6877.83	7705.86	8313.36	8739.52	9367.26	9943.5	10280.74	10574.84	10864.35
	B. Revenue	1,135.91	1,254.98	1,363.44	1,531.84	2,154.16	2699.20	3176.56	3744.1	3953.34	4316.99	4621.04
2	Commercial LT*											
	A. Sales	1501.6	1793	1951.74	2141.22	2224.06	2229.33	2418.28	2735.36	2957.96	3063.48	3221.43
	B. Revenue	1,116.66	1,259.39	1,410.83	1,592.83	1,855.38	2102.15	2172.38	2448.5	2709.05	2876.69	3062.80
3	Industrial LT											
	A. Sales	1015.4	1064	1053.45	1097.04	1101.96	1096.57	1096.93	1103.23	1131.906	1112.33	1111.67
	B. Revenue	466.89	453.70	460.54	461.39	587.11	682.52	704.89	746.63	754.72	809.19	792.76
4	HT & EHT											
	A. Sales	2986.97	3417.09	3563.14	3829.39	3905.15	4035.48	4139.71	4106	4128.21	4535.98	4723.73
	B. Revenue	1,433.06	1,416.30	1,512.83	1,600.75	2,146.40	2576.37	2581.31	2816.9	2854.08	3225.46	3422.07
5	Public Lighting											
	A. Sales	294.32	303	265.68	294.26	313.2	319.06	346.43	366.62	375.76	373.48	377.78
	B. Revenue	58.96	58.07	56.28	63.86	94.32	118.99	137.81	156.36	156.64	169.86	172.77
6	Agricultural LT											
	A. Sales	225.22	257	231.56	286.18	306.08	310.25	298.28	279.48	321.98	346.03	337.65
	B. Revenue	30.48	28.24	26.65	30.77	47.28	56.57	60.44	65.62	102.01	63.29	86.78
7	Licencees											
	A. Sales	317.47	413	448.11	472.09	500.76	523.15	554.06	578.08	612.1	608.77	597.04
	B. Revenue	144.68	143.33	163.46	183.27	255.31	293.64	313.29	347.04	363.25	384.59	369.13
8	Railway Traction**											
	A. Sales	142.07	165	156.39	154.49	173.67	200.69	205.31	212.83	229.58	265.8	303.13
	B. Revenue	67.60	65.65	64.46	61.68	82.5	107.77	113.1	120.86	130.52	160.02	186.38
9	Export											
	A. Sales	463.33	53.9	130.24	201.1	0.97	1414.60	358.09	53.48	49.3	117.51	824.78
	B. Revenue	438.79	67.51	140.03	66.63	0.93	1336.98	619.56	41.7	12.27	51.18	339.35
10	Total											
	A. Sales	12877.65	14024.99	14678.14	16181.63	16839.21	18868.65	18784.35	19378.58	20087.54	20998.22	22361.56
	B. Revenue	4893.02	4747.17	5198.52	5593.02	7223.39	9974.18	9879.34	10487.71	11035.88	12057.27	13053.08

* Commercial LT includes General LT VI

** Railway Traction includes KMRL also

TABLE 28
CAPITAL OUTLAY AND EXPENDITURE

(Amounts in Rs. Crore)

Sl. No	Year	Capital Outlay										Capital Expenditure				
		Generation		Transmission		Distribution		Others		Total		Gen.	Tran.	Dist.	Oth.	Total
		BE	RE	BE	RE	BE	RE	BE	RE	BE	RE					
1	2000-01	174.28	192.00	272.15	190.00	200.03	170.13	72.04	48.57	718.50	600.70	103.55	259.73	243.05	144.16	750.49
2	2001-02	125.7	70.23	275.00	298.00	205.03	287.14	43.27	56.09	649.00	711.46	243.61	62.77	223.67	51.19	581.24
3	2002-03	99.5	71.24	250.42	216.00	256.50	254.00	62.58	29.98	669.00	571.22	101.27	250.17	60.60	29.88	441.92
4	2003-04	148.25	117.59	262.28	250.00	304.82	300.00	49.65	20.76	765.00	688.35	426.50	204.86	154.36	0.00	785.72
5	2004-05	119.11	181.31	256.00	275.54	304.00	257.50	19.16	1.50	698.27	715.85	55.47	253.23	124.50	0.00	433.20
6	2005-06	260.68	160.92	297.53	230.20	393.00	256.87	2.10	2.01	953.31	650.00	125.99	163.19	174.41	0.00	463.59
7	2006-07	250	202.45	218.50	200.18	429.09	378.09	1.50	1.50	899.09	782.22	155.25	137.17	222.03	0.00	514.45
8	2007-08	334.52	344.53	221.80	221.50	464.36	388.59	1.70	4.05	1,022.38	958.67	56.45	125.59	182.84	0.00	364.88
9	2008-09	540.52	310.37	181.00	276.88	422.02	456.24	5.05	4.10	1,148.59	1,047.59	116.88	242.61	285.01	0.00	644.50
10	2009-10	403.33	262.81	366.73	240.66	600.64	436.40	6.40	7.78	1,377.10	947.65	304.86	217.85	346.99	5.83	875.53
11	2010-11	290.32	315.03	270.00	279.12	425.00	450.00	9.84	10.17	995.16	1,054.32	177.04	165.22	637.70	3.66	983.62
12	2011-12	308.28	383.67	254.85	253.00	444.00	540.00	28.87	12.60	1,036.00	1,189.27	159.83	316.17	543.13	2.33	1,021.46
13	2012-13	375.62	274.27	305.00	234.85	710.00	607.30	6.50	5.50	1,397.12	1,121.92	256.71	183.66	403.81	0	844.18
14	2013-14	419.45	256.48	293.00	192.47	800.00	700.00	9.00	9.00	1,521.45	1,157.95	229.82	191.12	566.33	0	987.27
15	2014-15	332.00	338.85	241.00	225.00	700.00	550.00	27.00	15.35	1,300.00	1,129.20	293.86	224.15	643.73	6.35	1,168.09
16	2015-16	385.65	383.30	240.00	185.00	710.00	615.00	17.35	21.70	1,353.00	1,205.00	183.98	328.14	741.53	7.21	1,260.86
17	2016-17	390.00	291.50	260.00	310.00	705.00	725.00	25.00	18.50	1,380.00	1,345.00	341.93	374.81	810.09	12.33	1,539.16
18	2017-18	371.00	455.13	360.00	430.00	750.00	1,203.04	19.00	41.60	1,500.00	2,129.77	286.71	443.74	898.11	23.56	1,652.12
19	2018-19	720.43	654.76	1794.23	883.16	1079.56	1393.9	45.43	125.50	3,639.65	3,057.32	303.31	502.35	810.18	18.63	1,634.47

TABLE 29
AVERAGE REALISATION - CATEGORY WISE#

(All figures in Ps./kWh)

Sl. No	Year	Domestic	Commercial LT	Industrial LT	HT & EHT	Public Lighting	Agriculture	Public Water works	Licensee	Export	Traction	Overall #
1	2000-01	81.24	440.95	265.72	221.79	120.95	67.22	196.76	151.93	-	198.48	169.41
2	2001-02	109.42	586.1	362.37	261.65	152.99	92.26	206.35	182.21	-	198.66	223.94
3	2002-03	146.57	623.41	398.01	344.59	163.44	96.74		206.27	391.97	314.55	279.81
4	2003-04	176.13	658.54	407.07	390.8	170	97.43		307.72	-	364.22	309.59
5	2004-05	176.71	668.7	414.76	391.44	182.74	98.68		272.38	-	367.53	311.17
6	2005-06	171.15	663	414.71	391.43	183.24	99.61		273.23	309.03	340.43	308.98
7	2006-07	166.96	660.68	414.73	394.14	187.16	102.32		276.35	563.85*	334.73	324.13
8										498.58**		
9	2007-08	172.1	668.2	414.75	401.24	190.15	105.45		286.65	397.67*	359.04	350.81
10										966.36**		
11	2008-09	191.71	743.65	459.81	479.77	200.31	135.35		455.72	947.03	475.84	380.14
12	2009-10	191.46	702.39	426.41	414.47	191.64	109.9		347.05	851.50*	397.87	338.03
13										715.96**		
14	2010-11	198.32	722.86	437.17	424.58	211.82	115.11		364.77	1207.34*	412.16	354.24
15										1071.85**		
16	2011-12	201.54	745.97	421.87	418.02	217.01	110.3		388.2	1144*	399.25	347.39
17										1075.78**		
18	2012-13	259.18	834.23	533.35	549.63	301.15	152.47		509.84	958.76	475.04	428.98
19	2013-14	308.85	942.95	622.41	638.43	372.95	182.34		561.29	945.13	536.99	528.61
20	2014-15	339.11	898.32	642.60	623.55	397.80	202.63		565.44	1730.18	550.87	525.93
21	2015-16	376.54	895.13	676.77	686.04	426.49	234.79		600.33	779.73	567.87	541.20
22	2016-17	384.54	915.85	666.77	691.36	416.86	316.82		593.45	248.88	568.52	549.39
23	2017-18	408.23	939.03	727.47	711.08	454.80	182.90		631.75	435.54	602.03	574.20
24	2018-19	425.34	950.76	713.13	724.44	457.33	257.01		618.27	411.44	614.85	583.73

* interstate sale to TNEB

** Sale through traders/ power exchanges

Revenue from tariff

TABLE 30
AVERAGE ENERGY SALES AND REVENUE PER CONSUMER

(Sales in kWh, Revenue in Rs.)

Sl. No	Year	Particulars	Domestic	Commercial LT **	Industrial LT	HT & EHT	Agriculture	Public Water works*	Public Lighting	Bulk Supply	Traction
1	2001-02	a. Sales/Consumer	709	848	5,674	1,636,878	477	161,492	64,766	25,014,285	15,570,000
		b. Revenue/Consumer	776	4,972	20,561	4,281,384	440	333,232	99,088	45,977,143	30,931,333
2	2002-03	a. Sales/Consumer	727	889	6,511	1,742,136	452		66,933	26,092,857	15,466,667
		b. Revenue/Consumer	1,063	5,542	25,914	6,003,184	437		109,396	53,560,000	48,650,667
3	2003-04	a. Sales/Consumer	696	847	6,965	2,646,558	506		71,260	20,930,000	11,530,000
		b. Revenue/Consumer	1,223	451,871	28,352	10,342,697	493		121,142	64,405,000	41,995,000
4	2004-05	a. Sales/Consumer	694	842	6,805	1,618,126	462		78,581	23,500,000	10,900,000
		b. Revenue/Consumer	1,223	5,633	28,222	6,333,886	456		143,600	64,008,444	40,060,750
5	2005-06	a. Sales/Consumer	713	909	7,342	1,618,126	448		89,368	26,917,273	26,917,273
		b. Revenue/Consumer	1,219	6,024	30,449	6,333,886	446		163,756	73,546,727	73,546,727
6	2006-07	a. Sales/Consumer	758	980	7,632	1,624,143	506		102,804	30,486,364	12,026,667
		b. Revenue/Consumer	1,263	6,475	31,668	6,402,706	517		192,409	84,249,066	40,257,272
7	2007-08	a. Sales/Consumer	785	1,037	8,037	3,096,154	523		106,908	32,420,000	15,608,571
		b. Revenue/Consumer	1,349	6,929	33,335	12,423,007	551		203,285	92,931,909	56,041,757
8	2008-09	a. Sales/Consumer	793	1,133	8,471	1,251,349	522		107,849	28,860,909	17,758,750
		b. Revenue/Consumer	1,518	8,427	38,949	6,003,584	706		216,036	131,524,188	84,503,653
9	2009-10	a. Sales/Consumer	842	2,010	8,698	1,198,979	587		103,519	34,416,667	20,625,000
		b. Revenue/Consumer	1,611	9,078	37,090	4,969,464	645		198,384	119,443,056	82,061,187
10	2010-11	a. Sales/Consumer	850	1,339	8,272	2,125,398	537		87,452	34,470,000	19,548,750
		b. Revenue/Consumer	1,685	9,679	36,162	11,921,432	597		185,244	125,736,615	80,571,875
11	2011-12	a. Sales/Consumer	926	1,391	8,308	1,146,181	629		93,120	36,314,615	19,311,250
		b. Revenue/Consumer	1,840	10,350	34,940	4,791,231	676		202,084	140,974,538	77,101,125
12	2012-13	a. Sales/Consumer	970	1,361	8,375	1,075,503	665		89,358	50,076,000	21,708,750
		b. Revenue/Consumer	2,512	11,355	44,619	5,911,319	1,027		269,101	255,310,000	103,125,000
13	2013-14	a. Sales/Consumer	994	1,251	7,961	948,186	670		84,207	47,559,091	25,086,250
		b. Revenue/Consumer	3,071	1,795	49,550	6,053,505	1,222		314,048	266,944,500	134,710,698
14	2014-15	a. Sales/Consumer	1,042	1,321	7,725	1,191,283	647		85,076	50,369,091	25,663,750
		b. Revenue/Consumer	3,534	11,865	49,640	7,428,230	1,310		338,433	284,809,091	141,375,000
15	2015-16	a. Sales/Consumer	1,090	1,422	8,071	820,380	590		85,639	48,173,333	23,647,778
		b. Revenue/Consumer	4,103	14,221	54,621	5,628,172	1,385		365,242	289,200,000	134,288,889
16	2016-17	a. Sales/Consumer	1,095	1,054	7,989	773,798	719		18,465	51,008,333	19,131,667
		b. Revenue/Consumer	4,212	19,817	53,268	5,349,728	2,279		76,973	302,708,333	108,766,667
17	2017-18	a. Sales/Consumer	1,106	1,472	8,121	807,114	748		13,766	55,342,727	22,150,000
		b. Revenue/Consumer	4,515	13,820	59,080	5,739,253	1,368		62,607	349,627,273	133,350,000
18	2018-19	a. Sales/Consumer	1,119	1,466	8,007	799,142	718		10,902	54,276,364	21,652,143
		b. Revenue/Consumer	4,761	13,941	57,101	7,991,423	1,844		49,857	335,572,727	133,128,571

* included in Industrial LT from 2002-03

** Commercial LT includes General LT VI

*** Railway Traction includes KMRL also

TABLE 31
DEMAND AND CONSUMPTION

Day	04/18						05/18						06/18					
	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)
Day 1	3030	2860	2040	66.34	91.22	3030	3721	2481	2289	71.66	80.23	3721	3547	2727	2422	71.46	83.94	3547
Day 2	3355	2392	2274	64.45	80.04	3355	3894	2780	2446	76.85	82.24	3994	3459	2715	2495	70.79	85.29	3459
Day 3	3598	2745	2434	73.83	85.50	3723	4011	2602	2380	74.71	77.61	4011	3072	2500	2188	62.03	84.13	3072
Day 4	3835	2889	2601	77.11	83.79	3885	3801	2608	2141	72.88	79.89	3801	3402	2536	2106	65.76	80.53	3402
Day 5	3950	3024	2748	79.79	84.16	3950	3334	2938	2589	73.77	92.20	3354	3440	2617	2174	67.52	81.80	3440
Day 6	3808	3066	2823	79.37	86.84	3908	3386	2589	2365	66.41	81.72	3386	3528	2697	2295	69.26	81.81	6952
Day 7	3660	3027	2782	77.39	88.10	3660	3774	2717	2552	75.09	82.91	3774	3277	2669	2363	66.47	84.52	6594
Day 8	3595	2928	2586	71.66	83.05	3595	3327	2876	2642	72.56	90.87	3327	3204	2393	2010	62.44	81.21	3204
Day 9	3740	2845	2708	75.73	84.35	3740	3599	2640	2349	69.45	80.39	3599	2651	2084	1799	52.72	82.88	2651
Day 10	3834	2996	2790	78.68	85.50	3884	3482	2566	2291	69.37	83.02	3482	3100	2047	1655	53.27	71.59	3100
Day 11	3860	2970	2542	77.31	83.45	3860	3193	2740	2441	70.68	92.24	3193	3389	2243	1962	62.72	77.12	3389
Day 12	3712	2874	2656	76.41	85.77	3762	3271	2613	2325	68.72	87.54	3271	3482	2591	1808	66.76	79.90	3607
Day 13	3510	2822	2400	74.22	88.10	3510	2802	2631	2324	62.11	92.35	2802	3265	2614	2298	66.42	84.77	3265
Day 14	3650	2850	2639	73.83	84.28	3650	3687	2602	2249	70.11	79.23	3687	3271	2514	2033	64.29	81.89	3271
Day 15	3411	2746	2309	67.04	81.88	3411	3711	2753	2496	73.69	82.74	3711	3094	2564	2163	62.38	84.01	3094
Day 16	3604	2740	2499	73.38	84.84	3604	3545	2777	2422	71.45	83.99	3545	3242	2569	2109	64.89	83.39	3242
Day 17	3538	2790	2561	74.46	87.68	3713	3426	2732	2524	71.73	87.23	3426	3098	2339	2114	60.22	81.00	3098
Day 18	3723	3015	2702	77.28	86.50	3923	3636	2689	2386	72.15	82.68	3686	3466	2613	2083	66.62	80.09	3566
Day 19	3680	2984	2774	77.57	87.84	3765	3636	2753	2591	72.75	83.37	3716	3254	2697	2159	65.13	83.39	3254
Day 20	3747	2928	2742	77.46	86.14	3897	3292	2505	2216	63.48	80.34	3292	3215	2633	2016	63.94	82.86	3215
Day 21	3595	3044	2698	77.21	89.48	3595	3685	2628	2428	72.40	81.87	3835	3296	2680	2017	64.48	81.52	3296
Day 22	3527	2839	2485	70.18	82.90	3527	3634	2756	2481	72.02	82.56	3784	3242	2684	2028	63.77	81.95	3242
Day 23	3652	2861	2649	76.87	87.71	3752	3567	2829	2701	73.97	86.40	3567	3308	2472	2009	63.06	79.43	3308
Day 24	3652	2942	2649	76.61	87.41	3652	3661	2727	2540	72.28	82.27	3661	3134	2411	2072	59.75	79.44	3134
Day 25	3689	2920	2721	76.28	86.16	3739	3129	2459	2155	65.53	87.25	3129	3199	2655	2051	63.55	82.76	3199
Day 26	3490	2963	2731	76.38	91.20	3490	3246	2506	2253	66.15	84.75	3246	3320	2556	1987	67.00	84.09	3420
Day 27	3640	2851	2672	75.72	86.66	3715	3009	2480	2171	60.94	84.38	3009	3206	2620	2076	64.05	83.23	3206
Day 28	3739	2991	2773	77.71	86.59	3839	3062	2586	2097	63.32	86.18	3062	3230	2562	1925	63.13	81.44	3230
Day 29	3721	2958	2336	71.69	80.28	3781	3267	2354	2062	63.08	80.46	3267	3299	2651	2016	63.52	80.23	3299
Day 30	3912	3019	2809	80.94	86.20	3912	3469	2503	2108	67.01	80.48	3469	3294	2565	1990	64.70	81.83	3294
Day 31							3535	2652	2350	69.84	82.33	3535						

Table 31 contd..

TABLE31
DEMAND AND CONSUMPTION

Day	07/18						08/18						09/18					
	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)
Day 1	3136	2415	2118	60.53	80.43	3136	0	2695	1956	63.92	81.40	3272	3293	2662	2202	65.57	82.95	6681
Day 2	3392	2667	2143	66.61	81.84	3392	3327	2642	2079	65.68	82.26	3477	3179	2474	2204	61.45	80.53	6352
Day 3	3476	2688	2158	67.73	81.19	3601	3358	2719	2159	66.54	82.57	3558	3339	2731	2224	66.04	82.41	6653
Day 4	3501	2728	2295	69.17	82.31	3676	3232	2635	2078	65.65	84.62	3312	3291	2814	2282	66.53	84.24	6602
Day 5	3493	2849	2314	69.18	82.51	3573	3126	2451	2074	60.97	81.26	3126	3186	2735	2277	66.42	86.86	6568
Day 6	3425	2802	2284	68.06	82.81	3600	3177	2684	2111	64.93	85.15	3377	3297	2804	2265	66.89	84.53	6637
Day 7	3317	2721	2259	66.89	84.03	3417	3190	2492	2097	63.52	82.95	3250	3316	2574	2356	67.85	82.17	6542
Day 8	2972	2366	2064	58.52	82.05	2972	3287	2631	1978	63.09	79.97	3357	3295	2775	2341	68.24	86.29	6471
Day 9	3148	2623	1937	62.12	82.22	3198	3232	2573	1909	62.39	80.43	3332	3192	2574	2293	62.95	82.17	6481
Day 10	3086	2571	1931	61.65	83.25	3136	3200	2649	2009	63.18	82.27	3350	3262	2478	2257	62.72	80.10	6690
Day 11	3027	2494	1837	60.07	82.68	3027	3134	2470	1953	62.14	82.62	3134	3451	2801	2329	68.15	82.28	6650
Day 12	3185	2428	1848	61.31	80.19	3185	2896	2276	1905	57.30	82.44	2896	3469	2912	2336	69.47	83.43	6809
Day 13	3184	2540	1942	62.13	81.32	3234	3084	2515	1819	60.30	81.47	3184	3496	2859	2438	69.37	82.68	6634
Day 14	2877	2346	1873	60.53	87.65	2877	2715	2360	1900	56.44	86.61	2745	3496	2882	2324	69.75	83.13	6629
Day 15	2643	1704	1469	49.36	77.81	2643	2521	1905	1526	47.54	78.56	2521	3449	2820	2372	69.94	84.49	6942
Day 16	2752	1762	1609	51.64	78.20	2752	2151	1479	1155	38.74	75.05	2151	3302	2702	2406	65.32	82.43	6532
Day 17	2983	2040	1470	55.26	77.17	3048	2398	1698	1191	42.09	73.14	2398	3590	2836	2315	69.22	80.34	7109
Day 18	2972	2330	1691	58.29	81.73	3522	2505	1727	1337	44.53	74.07	2505	3632	2822	2367	70.48	80.86	6864
Day 19	3023	2549	1797	60.63	83.57	3173	2537	1886	1447	45.98	75.51	2537	3541	2874	2403	70.09	82.48	6919
Day 20	3150	2515	1834	61.36	81.17	3250	2967	2114	1543	53.53	75.19	3017	3323	2702	2435	69.15	86.70	6685
Day 21	3103	2493	1917	62.20	83.52	3278	3099	2215	1760	57.74	77.63	3099	3396	2615	2222	68.55	84.11	6630
Day 22	3004	2295	1893	57.69	80.02	3004	2972	2318	1902	57.54	80.68	2972	3430	2769	2394	69.30	84.18	6681
Day 23	3233	2595	1926	62.13	80.07	3383	3106	2349	1946	60.07	80.58	3106	3430	2626	2423	66.25	80.49	7040
Day 24	3015	2656	1981	62.49	86.35	3165	3001	2362	2024	4096.80	85.54	3071	3465	2752	2197	68.71	82.63	7124
Day 25	3197	2644	1963	62.80	81.84	3372	2792	2309	1995	55.71	83.14	2792	3603	2814	2291	70.37	81.38	7238
Day 26	3233	2649	1977	63.32	81.61	3433	2870	2257	1959	55.59	80.72	2870	3653	2905	2409	71.80	81.90	7275
Day 27	3224	2661	1981	64.00	82.71	3424	3086	2332	2003	59.09	79.78	3086	3500	2956	2486	70.48	83.90	7107
Day 28	3273	2563	2057	64.83	82.52	3323	3103	2394	1912	60.61	81.39	3103	3388	2878	2391	69.07	84.95	6758
Day 29	3067	2404	2038	60.33	81.98	3067	3195	2619	1942	61.82	80.62	3320	3426	2772	2339	69.12	84.05	6960
Day 30	3247	2638	2088	65.02	83.43	3247	3179	2686	2060	63.62	83.38	3329	3323	2635	2291	64.28	80.59	6731
Day 31	3217	2557	1958	64.26	83.24	3217	3243	2701	2119	64.93	83.42	3318						

Table 31 contd..

TABLE 31
DEMAND AND CONSUMPTION

Day	10/18						11/18						12/18					
	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)
Day 1	3388	2702	1895	67.62	83.16	6972	3584	3005	2421	71.38	82.97	7133	3548	2813	2450	71.30	83.73	6988
Day 2	3173	2571	2129	64.69	84.96	6680	3507	2978	2431	71.00	84.35	6845	3338	2598	2238	64.50	80.52	6750
Day 3	3314	2771	2242	66.46	83.56	6721	3407	2830	2334	69.51	85.01	7043	3636	2800	2367	70.55	80.84	6843
Day 4	3311	2750	2199	66.55	83.75	6685	3374	2547	2091	64.15	79.21	7089	3715	2893	2377	71.66	80.36	7108
Day 5	3382	2881	2239	68.15	83.97	6863	3481	2816	2305	70.23	84.07	7187	3706	2889	2391	72.22	81.20	7024
Day 6	3340	2788	2302	67.96	84.78	6763	3423	2723	2390	69.91	85.11	6934	3511	3037	2486	71.34	84.65	6639
Day 7	3227	2541	2279	62.81	81.11	6854	3628	2806	2360	69.71	80.07	7368	3740	3001	2483	72.85	81.15	7130
Day 8	3175	2744	2197	65.86	86.42	6817	3642	2834	2380	70.41	80.55	7251	3609	2791	2462	71.26	82.27	6789
Day 9	3289	2768	2186	66.35	84.05	6804	3514	2940	2380	70.51	83.60	6839	3324	2626	2182	65.28	81.82	6536
Day 10	3427	2877	2253	68.07	82.75	6939	3511	2705	2269	69.92	82.98	7210	3699	2863	2344	71.11	80.10	7105
Day 11	3199	2900	2263	68.26	88.90	6569	3370	2627	2282	64.46	79.71	7058	3688	2873	2407	71.92	81.25	7221
Day 12	3339	2947	2439	70.39	87.83	6993	3653	2845	2225	70.57	80.49	7272	3619	2961	2416	71.65	82.49	7074
Day 13	3138	2807	2408	69.61	92.42	6831	3692	2916	2379	72.10	81.36	7351	3659	2979	2417	71.06	80.92	6790
Day 14	3133	2652	2313	63.35	84.25	6823	3690	2994	2404	72.31	81.65	7119	3429	2765	2387	67.35	81.84	7001
Day 15	3493	2805	2246	69.17	82.51	7182	3689	2895	2464	72.71	82.12	7225	3536	2803	2333	70.07	82.57	7015
Day 16	3230	2889	2400	66.91	86.31	6261	3031	3043	2432	67.57	92.90	6340	3309	2610	2152	61.85	77.89	6916
Day 17	3519	2605	2092	67.34	79.73	6851	3332	2538	2092	62.39	78.01	7018	3686	2814	2194	68.99	77.99	7150
Day 18	3232	2590	2173	62.70	80.82	6349	3116	2564	2318	62.80	83.97	6617	3500	2856	2267	68.29	81.29	6957
Day 19	3379	2661	2123	66.19	81.63	6799	3421	2817	2168	68.38	83.30	6906	3486	2892	2196	68.54	81.87	6890
Day 20	3362	2668	2188	66.76	82.74	6885	3523	2760	2293	68.98	81.58	7063	3540	2855	2255	69.47	81.76	6557
Day 21	3234	2622	2224	61.95	79.82	6888	3655	2931	2310	70.73	80.64	7221	3567	2944	2329	70.52	82.38	6946
Day 22	3251	2778	2216	66.54	85.27	6797	3546	2964	2366	71.29	83.76	7138	3592	2832	2398	70.58	81.86	6971
Day 23	3610	2839	2253	69.41	80.11	7029	3419	2944	2338	70.15	85.49	6737	3318	2728	2241	65.69	82.50	6730
Day 24	3659	2877	2295	69.79	79.47	7096	3437	2878	2372	69.62	84.40	6860	3423	2575	2403	70.48	82.41	6823
Day 25	3635	2925	2283	70.63	80.95	6969	3334	2554	2310	64.60	80.74	6635	3301	2575	2236	65.29	82.41	6681
Day 26	3622	2878	2428	71.07	81.74	7288	3665	2863	2362	71.53	81.31	7251	3585	2798	2334	70.92	82.42	6812
Day 27	3607	2894	2414	71.50	82.59	7211	3604	2923	2493	70.74	81.78	7251	3647	2916	2513	72.75	83.12	6806
Day 28	3371	2707	2310	64.96	80.31	6976	3606	2857	2347	69.82	80.67	7229	3623	2851	2456	72.91	83.86	7174
Day 29	3534	2834	2290	69.87	82.39	7057	3524	2925	2344	70.38	83.23	6971	3447	2899	2421	70.03	84.64	7159
Day 30	3407	2887	2373	69.65	85.16	7041	3633	2924	2350	70.79	81.18	6889	3255	2580	2307	63.79	81.65	6919
Day 31	3465	2912	2354	70.99	85.37	3465							3632	2828	2262	68.79	78.92	7277

Table 31 contd..

TABLE31
DEMAND AND CONSUMPTION

Day	01/19						02/19						03/19					
	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)
Day 1	3440	2778	2291	67.92	82.27	3440	3541	3002	2357	70.12	82.50	7295	3754	3166	2626	76.81	85.26	3754
Day 2	3412	2580	2165	65.69	80.22	3412	3578	2844	2326	70.00	81.50	7291	3713	3047	2729	77.34	86.79	3713
Day 3	3207	2435	1972	59.35	77.11	3207	3261	2660	2256	63.95	81.71	6812	3551	2939	2578	71.09	83.41	3551
Day 4	3393	2752	1951	63.19	77.59	3393	3578	2864	2293	70.81	82.47	7300	3722	2917	2658	76.08	85.17	3722
Day 5	3318	2728	1955	63.39	79.59	3318	3663	3121	2428	73.51	83.59	7522	3859	3110	2679	78.59	84.86	3859
Day 6	3128	2397	1947	57.70	76.87	3128	3700	3016	2505	74.23	83.59	7590	3890	3112	2733	78.82	84.42	3890
Day 7	3389	2724	1904	63.05	77.50	3389	3740	3048	2554	74.61	83.11	7663	3923	3157	2748	79.24	84.16	3923
Day 8	3180	2446	1947	59.59	78.07	3180	3675	3157	2608	74.42	84.37	7521	3846	3217	2814	79.98	86.66	3846
Day 9	3212	2361	1853	59.65	77.37	3212	3427	2968	2587	72.96	88.71	7064	3637	3095	2716	77.73	89.04	3637
Day 10	3406	2730	1911	64.19	78.52	3406	3263	2698	2436	66.07	84.36	7072	3808	2917	2494	71.91	78.68	3808
Day 11	3533	2867	2055	65.98	77.82	3533	3724	2923	2409	72.49	81.11	7634	3911	3134	2780	80.55	85.82	3911
Day 12	3455	2862	2098	66.67	80.39	3455	3754	3050	2484	73.15	81.19	3754	3965	3197	2780	80.40	84.48	3965
Day 13	3131	2569	2107	60.06	79.93	3131	3794	3005	2553	74.23	81.52	7727	3933	3126	2782	80.27	85.04	3933
Day 14	3572	2771	2053	66.64	77.73	3572	3736	3027	2559	74.55	83.15	7661	3925	3125	2768	80.88	85.86	3925
Day 15	3479	2868	2153	67.52	80.86	3479	3738	3123	2619	75.72	84.41	7718	3980	3139	2797	80.57	84.35	3980
Day 16	3607	2812	2178	66.79	77.16	3607	3763	3023	2573	75.77	83.90	7666	3903	3051	2754	79.44	84.82	3903
Day 17	3464	2803	2126	66.02	79.41	3464	3469	2866	2524	69.77	83.80	7207	3737	2975	2510	73.62	82.07	3737
Day 18	3457	2913	2137	66.18	79.77	3457	3674	2963	2525	72.46	82.17	7563	3889	3088	2697	80.04	85.76	3989
Day 19	3405	2828	2094	65.87	80.61	3405	3797	3033	2570	74.85	82.14	7792	3995	3263	2885	83.09	86.66	3995
Day 20	3017	2476	2091	58.44	80.72	3017	3837	3038	2581	76.32	82.88	7810	3973	3220	2885	83.03	87.07	3973
Day 21	3379	2759	1922	62.45	77.01	3379	3780	3031	2635	76.85	84.72	7773	3993	3144	2848	80.94	84.46	3993
Day 22	3378	2857	1945	63.47	78.28	3378	3710	3062	2636	74.92	84.13	7799	4088	3158	2826	81.87	83.44	4088
Day 23	3412	2904	2003	64.73	79.04	3412	3629	2928	2568	73.60	84.50	7646	4017	3147	2859	82.24	85.30	4017
Day 24	3400	2824	2108	66.22	81.16	3400	3526	2764	2325	67.66	79.94	7527	4001	3053	2665	77.19	80.39	4001
Day 25	3380	2959	2184	67.83	83.63	3380	3806	2947	2476	74.94	82.05	7999	4194	3188	2940	84.22	83.67	4194
Day 26	3227	2692	2182	64.25	82.96	3227	3825	3100	2613	76.74	83.59	8036	4211	3255	3046	85.90	84.98	4211
Day 27	3159	2589	2046	60.85	80.25	3159	3788	3147	2686	77.88	85.66	8030	4242	3260	3013	86.10	84.57	4242
Day 28	3552	2870	2228	68.58	80.46	3552	3845	3164	2660	77.53	84.01	7977	4132	3323	3047	86.40	87.13	4132
Day 29	3712	3007	2308	69.87	78.60	3712							4225	3300	3016	86.08	84.89	4225
Day 30	3664	3000	2343	70.68	80.38	3664							4104	3268	3028	85.53	86.83	4104
Day 31	3645	3004	2369	70.58	80.80	3645							4008	3189	2764	78.94	82.07	4008

TABLE 32

PERCENTAGE SALES AND REVENUE - CATEGORY WISE

(All figures in %)

Year	Domestic		Commercial		Industrial LT		HT & EHT		Agriculture		Public Water Works*		Public Lighting		Licensees		Export		Railway Traction	
	Sales	Revenue	Sales	Revenue	Sales	Revenue	Sales	Revenue	Sales	Revenue	Sales	Revenue	Sales	Revenue	Sales	Revenue	Sales	Revenue	Sales	Revenue
2000-01	45.44	21.78	8.02	20.89	6.28	9.88	30.39	39.80	3.39	1.35	2.57	2.99	1.75	1.25	1.78	1.61	-	-	0.38	0.45
2001-02	42.81	20.80	12.81	23.99	6.83	11.02	27.55	36.41	2.16	0.87	3.55	3.26	1.74	1.18	2.01	1.65	-	-	0.54	0.43
2002-03	43.42	22.41	13.85	20.97	7.76	10.90	28.48	40.00	2.09	0.68			1.78	1.02	2.09	1.51	-	1.92	0.53	0.59
2003-04	44.93	25.53	14.73	20.99	8.42	11.08	25.05	37.94	2.37	0.71			1.86	1.02	2.11	2.10	-	-	0.52	0.61
2004-05	44.43	25.76	13.71	21.72	8.34	11.13	29.44	37.07	2.13	0.63			1.95	1.14	2.25	1.97	-	-	0.46	0.55
2005-06	42.81	23.68	10.02	21.51	8.01	10.76	26.44	33.51	1.74	0.56			1.91	1.13	2.72	2.40	5.82	10.86	0.53	0.58
2006-07	42.12	21.68	10.06	20.53	7.55	9.66	24.90	30.29	1.78	0.56			1.85	1.07	2.71	2.31	8.46	13.30	0.58	0.60
2007-08	41.83	20.50	10.29	19.61	7.35	8.69	23.44	26.82	1.72	0.52			1.86	1.01	2.66	2.17	10.06	19.84	0.82	0.83
2008-09	46.06	23.21	11.66	22.82	7.88	9.54	23.19	29.28	1.75	0.62			2.29	1.20	2.47	2.95	3.60	8.96	1.10	1.38
2009-10	46.70	26.44	12.76	26.53	7.57	9.56	24.32	21.22	1.83	0.59			2.16	1.22	2.94	3.05	0.55	9.54	1.70	1.38
2010-11	46.86	26.23	19.14	27.14	7.18	8.86	18.38	29.10	1.63	0.51			1.81	1.08	3.05	3.14	0.89	2.69	1.07	1.24
2011-12	47.62	27.39	13.23	28.48	6.78	8.25	23.67	28.62	1.77	0.55			1.82	1.14	2.92	3.28	1.24	1.19	0.95	1.10
2012-13	49.37	29.82	13.21	25.69	6.54	8.13	23.19	29.71	1.82	0.65			1.86	1.31	2.97	3.53	0.01	0.01	1.03	1.14
2013-14	46.32	27.06	11.81	21.08	5.81	6.84	21.39	25.83	1.64	0.57			1.69	1.19	2.77	2.94	7.50	13.40	1.06	1.08
2014-15	49.87	32.15	12.87	21.99	5.84	7.13	22.04	26.13	1.59	0.61			1.84	1.39	2.95	3.17	1.91	6.27	1.09	1.14
2015-16	51.31	35.70	14.12	23.35	5.69	7.12	21.19	26.86	1.44	0.63			1.89	1.49	2.98	3.31	0.28	0.40	1.10	1.15
2016-17	51.18	35.82	14.73	24.55	5.63	6.84	20.55	25.86	1.60	0.92			1.87	1.42	3.05	3.29	0.25	0.11	1.14	1.18
2017-18	50.36	35.80	14.59	23.86	5.30	6.71	21.60	26.75	1.65	0.52			1.78	1.41	2.90	3.19	0.56	0.42	1.27	1.33
2018-19	48.58	35.40	14.41	23.46	4.97	6.07	21.12	26.22	1.51	0.66			1.69	1.32	2.67	2.83	3.69	2.60	1.36	1.43

* included in Industrial LT from 2002-03

** Commercial LT includes General LT VI

*** Railway Traction includes KMRL also

TABLE 33

LIST OF EHT CONSUMERS 2018-19

Sl No.	Consumer Code	Name of Consumer	Tariff	Supply Voltage	Contract Demand (kVA)	Recorded MD (Z1) (kVA)	Recorded MD (Z2) (kVA)	Recorded MD (Z3) (kVA)	TOTAL ANNUAL KWH	Product
1	13/1306	APOLLO TYRES LTD	EHT I (66 kV) INDUSTRIAL	66	10000	9540	9014	8962	59078400	Tyre
2	21/1029	ASSISTANT SECRETARY, THRISSUR CORPORATION	Licensee: Thrissur Corporation	66	8000	13523.4	13523.4	10953.4	51543800	Distribution Licensee
3	12/941	AUTOKAST LIMITED	EHT II (110 kV) INDUSTRIAL	110	3000	2470	2370	2260	6236400	Fost Gray Iron, & Cast Iron casting
4	31/3416	BELIEVERS CHURCH	EHT GENERAL (A)	110	2000	1790	1472	1284	10188420	Biblical Seminary & CBSE school
5	15/3809	BHARAT PETROLEUM CORPORATION LTD	EHT II (110 kV) INDUSTRIAL	110	2600	2209.8	2193.66	2190.72	11220720	Nil
6	16/1666	BHARATH PETROLEUM CORPORATION, ERNAKULAM	EHT II (110 kV) INDUSTRIAL	110	850	898.7	933.4	1091.5	3142000	NIL
7	7/701	BINANI ZINC LTD	EHT II (110 kV) INDUSTRIAL	110	18000	0	0	0	0	ZINC, SULPHURIC ACID, CADMIUM
8	8/1234	CARBORUNDUM UNIVERSAL LTD, EDAPPALLY	EHT I (66 kV) INDUSTRIAL	66	18000	18722.67	19218.67	19138.67	97345930.9	BROWN FUSED ALUMINA
9	8/854	CARBORUNDUM UNIVERSAL LTD, KORATTY	EHT II (110 kV) INDUSTRIAL	110	7500	6102	6125	6142	44333575	Abresive grains
10	29/3507	COCHIN INTERNATIONAL AIRPORT	EHT GENERAL (B)	110	9000	6378	6969	6363	3293249.88636	air transport
11	21/1135	COCHIN PORT TRUST	Licensee: CPT	110	6500	5827.5	4485.3	3854.7	26229450	
12	2/201	COCHIN REFINERIES LTD	EHT III (220 kV) INDUSTRIAL	220	40000	67180	64040	55240	119014200.997	Petroleum Products
13	21/845	COCHIN SHIPYARD LIMITED	EHT I (66 kV) INDUSTRIAL	66	8500	8530	5258	5106	32845840	
14	8/4201	COCHIN SPECIAL ECONOMIC ZONE AUTHORITY (CSEZA)	Licensee: CSEZ	110	13000	11172	9206	7932	55919000	LICENSEE
15	5/202	FACT COCHIN DIVISION	EHT II (110 kV) INDUSTRIAL	110	12000	11562	10050	10276	55993450	FACTOMFOS 20:20
16	5/501	FACT, UDYOGAMANDAL	EHT II (110 kV) INDUSTRIAL	110	14000	9898	9998	9660	57929067	
17	8/4208	GOVERNMENT MEDICAL COLLEGE	EHT GENERAL (A)	110	1000	774	558	540	3174942	medical college co.op sector
18	4/437	GRASIM INDUSTRIES LTD	EHT I (66 kV) INDUSTRIAL	66	500	31.5	27.9	38.9	132900	Water supply to colony & power supply to colony % street light
19	1/124	GTN TEXTILES LTD	EHT II (110 kV) INDUSTRIAL	110	4500	3712	3654	3678	28846980	Yarn
20	3/325	HINDALCO INDUSTRIES LTD	EHT II (110 kV) INDUSTRIAL	110	5000	2948	3046	3272	12908680	Aluminium billets & extrusions
21	8/851	HINDUSTAN MACHINE TOOLS LTD	EHT I (66 kV) INDUSTRIAL	66	2900	2339	1414.2	1740.05	2597900	CNC Lathes, Conventional Lathes, Printing Machines
22	11/1141	HINDUSTAN NEWS PRINT LTD	EHT II (110 kV) INDUSTRIAL	110	22000	27680	26360	28620	79431400	Newsprint
23	15/1515	HINDUSTAN ORGANIC CHEMICALS LTD	EHT I (66 kV) INDUSTRIAL	66	8000	8023.9	8009.3	8029.9	48940900	
24	13/1320	INDIAN TELEPHONE INDUSTRIES	EHT I (66 kV) INDUSTRIAL	66	1500	1510	1320	495	3274300	ELECTRONIC TELEPHONE EXCHANGES PRINTED CIRCUIT BOARDS, SIM CARDS
25	1/153	INDSIL ELECTROMELTS LTD	EHT I (66 kV) INDUSTRIAL	66	14000	12042	10323	10251	63464460	SILICO MANGANESE
26	13/1351	INTERNATIONAL AIRPORT AUTHORITY OF INDIA	EHT GENERAL (B)	66	3000	2904	2923.95	2427.6	15678150	AIRPORT
27	18/635	KERALA MINERALS & METALS LTD.	EHT II (110 kV) INDUSTRIAL	110	15000	11604	11548	11540	80167650	Titanium dioxide pigment
28	8/4008	KINESCO POWER & UTILITIES PVT LTD (KPUPL)	Licensee: KPUPL	110	13000	16718	14070	9778	81488350	LICENSEE
29	33/8720	KINFRA MEGA FOOD PARK	Licensee: KPUPL	22	300	79.44	62.32	54.24	24528	
30	26/7876	KOCHI METRO RAIL PROJECT	KMRL (Kochi Metro Rail Ltd)	110	3000	4125	4337.5	3881.2	11166555	
31	2/3737	KOCHI REFINERIES LTD - PUMPING STATION	EHT I (66 kV) INDUSTRIAL	66	1400	1381.5	1383.4	1386.7	7758863	water pumping
32	7/716	MADRAS RUBBER FACTORY LTD (MRF)	EHT II (110 kV) INDUSTRIAL	110	10000	8000	7620	7206	50382450	Tyre, Tube, Tyre Repair Materials, Masticated Rubber
33	15/14/1337	MALABAR CEMENTS, WALAYAR (15/14/1337)	EHT II (110 kV) INDUSTRIAL	110	10000	9383	6702	9316	40324445	CEMENT
34	31/4352	MPS STEEL CASTINGS PVT.LTD	EHT II (110 kV) INDUSTRIAL	110	2000	0	0	0	0	sponge iron and steel
35	19/4025	PARAGON STEELS PVT. LTD.-UNIT II	EHT II (110 kV) INDUSTRIAL	110	7000	6406.1	5981.8	6397.3	12443600	CTD/TMT BARS - STEEL
36	26/7324	PATSPIN INDIA LTD	EHT II (110 kV) INDUSTRIAL	110	4400	4022	3946	3982	30577540	
37	9/333	PHILLIPS CARBON BLACK LTD	EHT I (66 kV) INDUSTRIAL	66	1500	5268	5204	5172	2023250	CARBON BLACK Factamfos Ammonium Sulphate Caprolactam (Final Products)
38	9/731	PRECOT MERIDIAN 'A' UNIT	EHT I (66 kV) INDUSTRIAL	66	4500	3956	3954	3986	29703890	COTTON YARN

Table 33 contd..

Sl No.	Consumer Code	Name of Consumer	Tariff	Supply Voltage	Contract Demand (kVA)	Recorded MD (Z1) (kVA)	Recorded MD (Z2) (kVA)	Recorded MD (Z3) (kVA)	TOTAL ANNUAL KWH	Product
39	9/4487	PRECOT MERIDIAN LTD (C & D UNITS)	EHT II (110 kV) INDUSTRIAL	110	2700	2502	2464	2494	17446240	Cotton yarn(fine),cotton yarn
40	4/438	PREMIER TYRES LTD	EHT I (66 kV) INDUSTRIAL	66	4750	4074	4050	3488	22714500	Automotive Tyres
41	2/3975	RUBBER PARK INDIA PVT. LTD,IRAPURAM,ERNAKULAM	Licensee: RPL	110	6700	6484	5656	5632	31660078	Licensee (Power given to Various Product Manufacturing companies)
42	8/1140	SAINT GOBAIN INDIA (P) LIMITED	EHT II (110 kV) INDUSTRIAL	110	12000	8990	9056	8838	40189800	
43	30/4748	SOUTHERN RAILWAY,TRACTION SUB STATION,CHINGAVANAM	EHT II (110 kV) RT	110	7000	7303	6861.5	6171.5	23753100	RLWY TRACTION
44	30/8080	SOUTHERN RAILWAY,TRACTION SUB STATION,PALAKKAD	EHT II (110 kV) RT	110	8000	7660	6720	6000	17512800	RLWY TRACTION
45	30/8392	SOUTHERN RAILWAY TRACTION UPPALA	EHT II (110 kV) RT	110	5000	5320	5280	6400	8632000	RLWY TRACTION
46	30/7701	SOUTHERN RAILWAY, TRACTION SUB STATION, KANNUR	EHT II (110 kV) RT	110	7000	7241.5	6511.5	6176.5	14388000	RLWY TRACTION
47	30/8629	SOUTHERN RAILWAY,PALAKKAD	EHT II (110 kV) RT	110	8000	4720	4160	4180	5048200	RLWY TRACTION
48	30/4462	SOUTHERN RAILWAY,TRACTION SUB STATION, KAZHAKUTTAM	EHT II (110 kV) RT	110	8500	9220	9390.5	6609	25787350	RLWY TRACTION
49	30/4337	SOUTHERN RAILWAY,TRACTION SUB STATION, PUNNAPRA	EHT II (110 kV) RT	110	5000	4225.25	0	0	12518150	RLWY TRACTION
50	30/3444	SOUTHERN RAILWAY,TRACTION SUB STATION, SHORANUR	EHT II (110 kV) RT	110	12000	13898	14114.5	15394.5	48055000	RLWY TRACTION
51	30/3899	SOUTHERN RAILWAY,TRACTION SUB STATION,KADAVANTHRA	EHT II (110 kV) RT	110	8000	9513	8786.25	8909.25	30276487.5	RLWY TRACTION
52	30/3116	SOUTHERN RAILWAY,TRACTION SUB STATION,KANJIKODE	EHT II (110 kV) RT	110	12500	12219	14870.5	12656	28940000	RLWY TRACTION
53	30/4619	SOUTHERN RAILWAY,TRACTION SUB STATION,PERINAD	EHT II (110 kV) RT	110	10500	10534	10778	10687	31967900	RLWY TRACTION
54	30/3607	SOUTHERN RAILWAY,TRACTION SUB STATION, CHALAKUDY	EHT II (110 kV) RT	110	9500	10881.38	9862.13	11056.13	37875600	RLWY TRACTION
55	30/8000	SOUTHERN RAILWAY,TRACTION SUBSTATION,,ELATHUR	EHT II (110 kV) RT	110	8000	7520	7240	8020	17135000	RLWY TRACTION
56	7/702	STEEL COMPLEX LTD	EHT II (110 kV) INDUSTRIAL	110	3000	122.8	126.6	145	463400	Mild Steel Billet
57	2/256	TECHNO PARK	Licensee: Technopark	110	15000	15499.5	13099.95	6709.2	60840600	IT Software firm
58	2/5163	TECHNOPARK PHASE II&III,THIRUVANANTHAPURAM	Licensee: Technopark	110	5000	6550.88	5682.68	3522.3	26407275	IT Software firm
59	6/602	TRANSFORMERS & ELECTRICALS KERALA LTD	EHT I (66 kV) INDUSTRIAL	66	2000	1704.55	1526.08	1462.18	4640200	Power Transformer
60	1/102	TRAVANCORE COCHIN CHEMICALS LTD(TCC)	EHT II (110 kV) INDUSTRIAL	110	24000	20736	20692	20726	165103673	1)CAUSTIC SODA-LYE& FLAKES. 2)COMMERCIAL HCL ACID 3)LIQUID CHLORINE 4)SODIUM HYDROCHLORITE
61	1/103	TRAVANCORE TITANIUM PRODUCTS LTD	EHT I (66 kV) INDUSTRIAL	66	3500	2775	2061	2562	13344000	Titanium Dioxide (Anatase Grade)
62	7/709	VIKRAM SARABHAI SPACE CENTRE,ISRO,THUMBA	EHT GENERAL (B)	110	12000	11688	4752	3440	33565600	Research Organisation
63	2/502	WESTERN INDIA PLYWOOD LTD	EHT II (110 kV) INDUSTRIAL	110	3500	3259.6	3060	2810	13937050	Hardboard, Plywood, ,Free compressed ,press board

TABLE 34

LIST OF EHV AND 33 kV SUBSTATIONS

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	Total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
I. 400 kV Substation in operation									
1	Madakkathara	Thrissur	400/220	315	3	945	1993 & 1995	8	
			220/110	200	2	400			
			110/11	10	2	20			
Total-400 kV Substations					7	1365		8	
	400 kV	Transmission substations	1	Switch yards	0		HT feeders	8	
II. 220 kV Substations in operation									
1	Areacode	Malappuram	220/110	160	1	160	May-98	7	
			110/11	12.5	1	12.5			
			110/11	10	1	10			
2	Ambalamugal (BPCL)	Kalamassery	220/33	50	2	100	Apr-12, May-13	0	
3	Brahmapuram	Kalamassery	220/110	160	2	320	Nov-99	7	
			110/11	12.5	1	12.5			
			110/11	10	1	10			
4	Edamon	Kottarakara	220/110	200	1	200	23.07.2016	5	
			110/66	40	2	80			
			66/11	10	2	20	1978, May-13		
5	Edappon	Alappuzha	220/110	200	2	400	May-09	10	
			110/66	63	2	126			
			110/33	16	1	16			
			66/11	10	3	30			
6	Kalamassery	Kalamassery	220/110	200	3	600	1965	8	
			220/110	120	1	120			
			110/66	63	2	126			
			110/11	20	2	40	21.08.17 & 16.10.2017		10 MVA replaced with 20
7	Kanhirode	Kannur	220/110	160	2	320	Sep-97	6	
			110/33	16	2	32	Feb-01, Aug-06		
			110/11	10	2	20	Sep-97		
8	Kaniyampetta	Kozhikode	220/66	50	2	100	1994	4	
			66/33	20	2	40			
			66/11	10	1	10			
			66/11	6.3	1	6.3			
9	Kundara	Kottarakara	220/110	200	2	400	Jan-06	16	
			110/11	12.5	3	37.5			
10	Malaparamba	Malappuram	220/110	100	2	200	Nov-07	6	
			110/11	12.5	2	25			
11	Mylatty	Kannur	220/110	100	2	200	Oct-98	9	1x31.5(GTR)
			110/11	10	2	20			
			110/11	12.5	1	12.5			
12	Nallalam	Kozhikode	220/110	100	2	200	1950	15	
			220/110	60	2	120			
			110/66	40	2	80			
			110/11	20	2	40	27.08.17 & 27.10.17		12.5 trfrs replaced with 20
			66/11	10	2	20			
			110/33	16	2	32			
13	New Kattakkada	Thiruvananthapuram	220/110	200	1	200	24.7.2017	0	
14	New Pallom	Poovanthuruthu		-	-	-	Nov-99		Switching Station
				-	-	-			
15	Orkatteri (Vadakara)	Kozhikode	220/110	100	2	200	May-09	5	
			110/11	12.5	2	25	May-09, Feb-14		
16	Pallom	Poovanthuruthu	220/110	200	2	400	1965	8	
			110/66	63	3	189			
			66/11	10	2	20			
17	Palakkad	Palakkad	220/110	160	2	320	May-97	18	All 18 are 22kV feeders
			110/22	25	5	125	May-97, May-12		
18	Pothencode	Thiruvananthapuram	220/110	200	3	600	1989	11	
			110/11	12.5	3	37.5			
			110/11	10	1	10			
19	Punnappa	Alappuzha	220/110	200	1	200		7	
			110/66	63	2	126	1984		
			110/33	16	1	16	2008		
			66/11	10	2	20	1984		
20	Shornur	Palakkad	220/110	100	2	200	Jan-04	7	
			110/11	12.5	2	25			
21	Taliparamba	Kannur	220/110	100	2	200	Mar-05	7	
			110/33	16	2	32	Jul-03		
			110/11	10	2	20	May-98		
22	Solar Park, Ambalathara	Kannur	220/33	100	2	200	30.08.2017	1	
			33/11	5	1	5	15.01.2018		
a	Moolamattom (Switch Yard)	Gen. Circle, Moolamattom	220/66	50	1	50	1976	4	Switch yard
			66/11	6.3	2	12.6			
b	Moozhiar (Switch Yard)	Gen. Circle, Moozhiyar	220/66	50	1	50	1973	2	Switch yard
			66/11	4	1	4			

Table 34- 220 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	Total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
c	Lower Periyar (Switch Yard)	Gen.Circle, Kothamangalam							Switch yard
22+ c	Total-220 kV Substations				118	7585.4		163	
	220 kV	Transmissions substations	22	Switch yards	3		HT feeders	163	
III. 110 kV Substations in operation									
1	Adimali	Thodupuzha	110/11	10	1	10	May-99	3	
2	Agastiamoozhi	Kozhikode	110/33	16	2	32	Jan-04	6	
			110/11	12.5	2	25	Mar-14		
3	Aluva	Kalamassery	110/66	63	2	126	1979	16	
			110/11	12.5	1	12.5			
			66/11	10	3	30			
4	Ambalappuram	Kottarakara	110/33	16	2	32	Mar-03	5	
			110/11	12.5	2	25			
5	Angamally	Thrissur	110/11	20	2	40		12	12.5 replaced with 20 on 27.07.2017
6	Arangottukara	Thrissur	110/11	12.5	1	12.5	Feb-14	4	
7	Aroor	Alappuzha	110/66	63	2	126	1994, Jan-05	10	
			66/11	10	3	30	1994		
8	Aruvikkara	Thiruvananthapuram	110/11	10	2	20	Aug-98	5	
9	Athani	Thrissur	110/33	16	1	16	2001	8	
			110/11	12.5	2	25	1992		
10	Attingal	Thiruvananthapuram	110/66	20	2	40	Mar-05	10	
			110/33	16	2	32	2010, 2012		
			110/11	12.5	1	12.5	Mar-05		
			66/11	10	2	20			
11	Ayarkunnam	Poovanthuruthu	110/11	12.5	2	25	Mar-10	6	
12	Ayathil	Kottarakara	110/11	12.5	3	37.5	Mar-09	12	
13	Ayyampuzha	Thrissur	110/11	12.5	1	12.5	May-11	4	
			110/11	10	1	10			
14	Azhikode	Kannur	110/33	16	2	32	2005/2017	5	
			110/11	12.5	2	25	Apr-00		
15	Chakkittapara	Kozhikode	110/11	12.5	1	12.5	Dec-04	5	
			110/11	10	1	10			
16	Chalakudy	Thrissur	110/66	50	2	100		7	
			110/33	16	2	32	2003, 2009		
			110/11	12.5	2	25			
17	Chavara	Kottarakara	110/11	12.5	2	25	Mar-10	8	
18	Chelari	Malappuram	110/33	16	2	32	2003, 2009	8	
			110/11	12.5	2	25	Feb-03		
19	Chellanam	Alapuzha	110/11	12.5	2	25	Mar-07	6	
20	Chengalam	Poovanthuruthu	110/11	10	2	20	Nov-94, Feb-13	7	
			110/11	12.5	1	12.5			
21	Chengannur	Alapuzha	110/33	16	1	16	03/09	9	
			110/11	12.5	1	12.5	1990		
			110/11	10	1	10			
22	Cherpu	Thrissur	110/33	16	1	16	2002	6	
			110/11	12.5	2	25	Dec-00		
23	Cherpulassery	Palakkad	110/11	12.5	2	25	Mar-04	5	
24	Cherupuzha	Kannur	110/11	10	2	20	Jun-98	4	
25	Cheruvathur	Kannur	110/33	16	2	32	Apr-02	5	
			33/11	5	2	10			
26	Chevayur	Kozhikode	110/66	25	2	50	1996	12	
			110/11	20	2	40			10 MVA replaced with 20
			110/11	10	1	10			
27	Chovva	Kannur	110/11	12.5	1	12.5	Dec-10	8	
			110/11	10	1	10			
28	Edappal	Malappuram	110/11	12.5	2	25	Mar-00	7	
29	Edappally	Kalamassery	110/11	12.5	2	25	Mar-02	9	
			110/33	16	1	16	Nov-13		
30	Edarikode	Malappuram	110/33	16	2	32	May-03, Mar-14	9	
			110/11	12.5	3	37.5	05/03		
31	Edathuva	Alapuzha	110/33	16	1	16	Mar-08	6	
			33/11	5	2	10			
32	Edayar	Kalamassery	110/11	12.5	2	25	Apr-00, Dec-13	12	
			110/11	10	1	10			
			66/11	10	1	10	Apr-00		
33	Eranakulam North	Kalamassery	110/11	12.5	2	25	06/2016 , 03/2017	13	
			66/11	10	1	10			
34	Erattupetta	Poovanthuruthu	110/11	12.5	2	25	Apr-01	6	
35	Erumeli	Poovanthuruthu	110/11	12.5	1	12.5	4.5.2017	4	
			110/11	10	1	10			
36	Ezhimala	Kannur	110/11	12.5	1	12.5	Aug-01	3	
			110/11	10	1	10			
37	Gandhi Road (GIS)	Kozhikode	110/11	20	2	40	8/1/2016	13	
38	GIS, Kollam	Kottarakara	110/11	20	2	40	27.03.2017	6	
39	Guruvayoor	Thrissur	110/33	16	1	16	Dec-04	7	
			110/11	20	2	40	31.08.17 & 22.09.17		Capacity Enhancement
40	Irinjalakuda	Thrissur	110/33	16	2	32	Aug-03, Mar-06	6	
			110/11	10	2	20	Dec-00		

Table 34- 110 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	Total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
41	Iritty	Kannur	110/11	12.5	2	25	Jul-10	6	2nd 16 MVA commssnd on 21.10.17
			110/33	16	2	32	21.10.2017		
42	Kadavanthra	Kalamassery	110/11	10	3	30	Aug-97	9	
						0			
43	Kalladikode	Palakkad	110/11	12.5	1	12.5	Mar-10	6	
			110/11	10	1	10			
44	Kaloor	Kalamassery	110/66	25	2	50	2008	13	
			110/11	12.5	3	37.5	1993		
			110/33	16	2	32	2012		
			66/11	10	1	10	2008		
45	Kandanad	Kalamassery	110/11	12.5	1	12.5	Jan-01	9	
				20	1	20	17.08.2017		12.5 to 20 MVA
46	Kandassankadavu	Thrissur	110/33	16	1	16	Dec-04	7	
			110/11	12.5	2	25			
47	Kanhangad	Kannur	110/33	16	1	16	1993	4	
			110/11	12.5	2	25	1968		
48	Kanjikode	Palakkad	110/66	63	2	126	Jul-10	5	
			66/22	10	2	20	1993		
			66/11	10	2	20			
49	Kanjirappally	Poovanthuruthu	110/11	12.5	2	25	Mar-15/Feb-17	8	Upgraded to 110kV in 25-3-2015
50	Kattakada	Thiruvananthapuram	110/11	10	2	20	1996, Mar-14	8	
			110/11	12.5	1	12.5			
51	Kattoor	Thrissur	110/11	12.5	2	25	Feb-14	6	
52	Kavanadu	Kottarakara	110/11	12.5	2	25	1993	10	
53	Kayamkulam	Alapuzha	110/33	16	1	16	Sep-09	9	
			110/11	12.5	1	12.5	Jun-99		
			110/11	10	2	20			
54	Kilimanoor	Thiruvananthapuram	110/33	16	2	32	2004, 2008	6	
			110/11	10	2	20	Dec-98		
55	Kinaloor	Kozhikode	110/11	12.5	1	12.5	26.11.2017	5	
56	Kizhakkambalam	Kalamassery	110/11	12.5	2	25	Feb-14	12	
			66/11	10	1	10	1985		
57	Kizhissery	Malappuram	110/33	16	2	32	2001, 2004	8	
			110/11	12.5	2	25	1990		
58	Kodakara	Thrissur	110/11	12.5	2	25	Apr-01, Jan-14	4	
59	Kodimatha	Poovanthuruthu	110/11	12.5	1	12.5	20.02.2016	9	
			110/11	10	1	10			
60	Koduvally	Kozhikode	110/11	12.5	2	25	Oct-09	6	
61	Kollengode	Palakkad	110/33	16	2	32	Dec-03	6	
			33/11	5	2	10			
62	Koodal	Pathanamthitta	110/11	12.5	2	25	May-13	6	
63	Koottanad	Palakkad	110/33	16	1	16	Jun-02	8	
			110/11	12.5	2	25	Mar-00		
64	Koppam	Palakkad	110/33	16	2	32	2002	10	
			110/11	12.5	1	12.5	Oct-13, 1995		
			110/11	10	1	10			
65	Kottarakara	Kottarakara	110/11	12.5	2	25	Dec-04	6	
66	Kottiyam	Kottarakara	110/33	16	2	32	2010	7	
			110/11	12.5	2	25	May-98		
67	Kozhenchery	Pathanamthitta	110/11	12.5	1	12.5	Mar-03	8	
			110/11	10	1	10			
68	Kozhinjampara	Palakkad	110/33	16	2	32	2009	6	
			110/11	12.5	2	25	Sep-08		
69	Kubanoor	Kannur	110/11	12.5	1	12.5	1983	3	
			110/11	10	1	10			
70	Kunnamangalam	Kozhikode	110/66	40	2	80	Nov-00	6	
			66/11	10	2	20	1997		
71	Kunnamkulam	Thrissur	110/33	16	1	16	Feb-05	7	
			110/11	12.5	2	25	May-04		
72	Kurumassery	Kalamassery	110/33	16	2	32	Dec-00	0	
73	Kuthungal	Thodupuzha	110/33	16	1	16	Mar-14	2	
			33/11	5	1	5	Mar-14		
74	Kuthuparamba	Kannur	110/11	12.5	2	25	1990	6	
75	Kuttippuram	Malappuram	110/11	12.5	1	12.5	Oct-00, Jan-14	10	Upgraded to 110kV on 08.05.2015
			110/11	10	2	20			
			110/33	16	1	16	Mar-14		
76	Kuttiyadi	Kozhikode	110/33	16	1	16	2012	6	2nd 10MVA TRFR is replaced with 12.5MVA
			110/11	12.5	2	25	1990, 23.11.17		
77	Mahe (Pondicherry Govt)	Kannur	110/11	10	2	20	1989		Pondicherry Government
78	Malampuzha	Palakkad	110/11	10	2	20	1994	8	
79	Malappuram	Malappuram	110/66	40	2	80	1976	8	
			110/33	16	1	16	2001		
			110/11	12.5	3	37.5	1976		
80	Malayattur	Thrissur	110/33	16	2	32	Mar-05	6	
			110/11	10	2	20	Jun-05		
81	Mallappally	Pathanamthitta	110/33	16	1	16	Dec-03	7	
			110/11	12.5	1	12.5	May-00		

Table 34- 110 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	Total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
82	Mangad	Kannur	110/11	12.5	2	25	1976	8	
83	Manjeri	Malappuram	110/11	20	1	20	3.01.2018	6	upgraded from 66
84	Manjeswaram	Kannur	110/11	12.5	1	12.5	May-97	4	
			110/11	10	1	10			
85	Mannarkkad	Palakkad	110/33	16	2	32	Oct-01	5	one 10MVA trfr is replaced with 12.5 MVA
			110/11	10	1	10	1990		
			110/11	12.5	1	12.5	8/9/2015		
						0			
86	Mattanchery	Kalamassery	110/66	25	2	50	Apr-02	11	
			66/11	10	2	20	1972		
			66/11	8	1	8			
87	Mattanur	Kannur	110/33	16	2	32	Jul-10	6	
			110/11	12.5	2	25	Jul-10		
88	Mavelikkara	Alappuzha	110/66	40	2	80	Dec-09	9	
			66/11	10	3	30	Dec-09		
89	Medical College	Thiruvananthapuram	110/11	12.5	2	25	May-98	8	
			110/11	10	1	10			
			110/33	16	1	16	15.05.207		
90	Melattur	Malappuram	110/33	16	1	16	Jan-06	3	
			110/11	12.5	1	12.5			
91	Meppayur	Kozhikode	110/33	16	2	32	Aug-04	4	
			33/11	5	2	10			
92	Mulleria	Kannur	110/33	16	1	16		5	
			110/11	10	2	20	Mar-01		
						0			
93	Mundakkayam	Poovanthuruthu	110/11	12.5	2	25	09.11.2018	6	
			110/66	50	1	50			newly added transfr
			66/33	16	1	16	01/12/2015		newly added transfr
			66/11	8	1	8			newly added transfr
			66/11	10	1	10			
94	Mundayadu	Kannur	110/66	40	2	80	1966	9	
			110/33	16	1	16	2001		
			110/11	12.5	2	25	1966		
			66/11	10	1	10			
95	Muttom	Thodupuzha	110/11	12.5	1	12.5	22.01.2018	3	
96	Muvattupuzha	Thodupuzha	110/33	16	2	32	2004	9	
			110/11	12.5	3	37.5	1989, Dec-13		
97	Myloor (Pothanikad)	Thodupuzha	110/11	12.5	2	25	Mar-10	4	
98	Nadapuram	Kozhikode	110/33	16	1	16	Dec-13	5	
			110/11	12.5	2	25	Feb-01		
99	Nedumangadu	Thiruvananthapuram	110/33	16	2	32	2009	9	
			110/11	10	2	20	Jun-05		
100	New Vyttila	Kalamassery	110/11	12.5	2	25	Dec-09	7	
101	Neyyattinkara	Thiruvananthapuram	66/11	10	0	0	21. May 1905	9	S/ sUpgraded not in service
			66/11	8	0	0			
			110/11	12.5	2	25			newly added trasnfr 2 nos
102	North Paravur	Kalamassery	110/33	16	2	32	2005	7	
			110/11	12.5	1	12.5	1989		
			66/11	10	1	10			
103	Ollur	Thrissur	110/33	16	2	32	2001	9	
			110/11	12.5	3	37.5	Jan-01, Sep-13, Apr-17		12.5 added on 13.04.17
			66/11	10	2	20	Aug-01		
104	Ottapalam	Palakkad	110/11	12.5	1	12.5	1989	5	
			110/11	10	1	10			
105	Pala	Poovanthuruthu	110/66	40	2	80	1985	8	
			110/33	16	2	32	2009		
			66/11	10	2	20	1985		
106	Pampady	Poovanthuruthu	110/11	12.5	2	25	27.01.16 29.04.16	7	Upgraded to 110kV in 27.01.16
107	Panangad	Kalamassery	110/11	12.5	2	25	05/12	4	
108	Panoor	Kannur	110/33	16	1	16	2003	5	
			110/11	10	2	20	1994		
109	Parali	Palakkad	110/33	16	2	32	2005	6	
			110/11	10	2	20	1988		
110	Parappanagadi	Malappuram	110/11	12.5	2	25	30.12.2016	6	
111	Parassala	Thiruvananthapuram	110/66	50	2	100	May-00	6	
			110/33	16	2	32	2008		
			110/11	12.5	2	25	May-00		
112	Parippally	Kottarakara	110/33	16	1	16	Nov-13	8	
			110/11	12.5	2	25	Sep-10		
113	Paruthippara	Thiruvananthapuram	110/66	63	2	126	1978	15	
			110/11	20	3	60			
114	Pathanamthitta	Pathanamthitta	110/33	16	2	32	2003	10	
			110/11	12.5	3	37.5	1999, Aug-14		
115	Pathanapuram	Kottarakara	110/11	12.5	2	25	Sep-09	8	
116	Pathirippala	Palakkad	110/11	12.5	1	12.5	Oct-13	4	
			110/11	10	1	10	Aug-11,		
117	Payyngadi	Kannur	110/11	12.5	2	25	Dec-97	5	
						0			

Table 34- 110 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	Total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
118	Payyannur	Kannur	110/33	16	1	16	2006	9	
			110/11	12.5	2	25	Apr-81		
			110/11	10	1	10			
119	Pazhayannur	Thrissur	110/11	12.5	1	12.5	Apr-97	4	
			110/11	10	1	10			
120	Perinadu	Kottarakara	110/11	12.5	2	25	08-02-16	4	
121	Perinthalmanna	Malappuram	110/11	20	2	40	31.03.2017	7	10MVA replaced with 20 22.01.2018
122	Perumbavoor	Thodupuzha	110/33	16	1	16	Jun-03	10	
						0			
			110/11	12.5	1	12.5			
			66/11	10	2	20			
123	Pinarayi	Kannur	110/33	16	2	32	Mar-01	4	
			33/11	5	2	10			
124	Piravom	Thodupuzha	110/11	12.5	1	12.5	41699	11	
			110/11	10	2	20			
125	Ponnani	Malappuram	110/11	12.5	2	25	Jan-03	6	
126	Pudukkad	Thrissur	110/11	12.5	2	25	18-5-2015 31-7-2015	7	
127	Pullazhy	Thrissur	110/11	20	2	40	Mar-08	7	12.5MVA replaced with 20 on 25.04.17
						0			
128	Punalur	Kottarakara	110/11	12.5	2	25	Jan-03	9	
129	Punnayurkulam	Thrissur	110/11	12.5	2	25	Aug-05	6	
130	Quilandy	Kozhikode	110/33	16	1	16	2002	7	one 10MVA TRFR is replaced with 20MVA
			110/11	10	1	10	1985		
			110/11	20	1	20	10/27/2015		
131	Ranni	Pathanamthitta	110/11	12.5	2	25	Mar-01	6	
132	Rayonpuram	Thodupuzha	110/11	12.5	2	25	Sep-11, Nov-13	3	
133	S.L. Puram (Kanjikuzhi)	Alappuzha	110/11	12.5	2	25	Aug-09	6	
134	Sasthamcotta	Kottarakara	110/66	20	1	20	1993	10	
			110/11	12.5	1	12.5			
			110/11	10	2	20			
			110/66	40	1	40			
135	Technopark (Kazhakuttam)	Thiruvananthapuram	110/11	12.5	2	25	Jun-99	12	
			110/11	10	1	10			
			110/11	20	1	20			
136	TERLS	Thiruvananthapuram	110/66	40	2	80	Nov-04	9	
			110/11	12.5	2	25			
137	Thalassery	Kannur	110/11	12.5	2	25	1990	12	
			110/11	10	1	10			
138	Thirumala	Thiruvananthapuram	110/66	63	1	63	Aug-00	17	
			110/33	16	2	32	01-04- 2012/05.06.2015		
			110/11	20	3	60			
139	Thrikodithanam	Poovanthuruthu	110/11	12.5	2	25	Mar-08	6	
			110/33	16	1	16	Feb-13		
140	Thycattussery	Alappuzha	110/33	16	2	32	2008	6	
			110/11	10	2	20	Dec-03		
141	Tirur	Malappuram	110/11	12.5	3	37.5	Apr-00	12	
142	Udumbannoor	Thodupuzha	110/33	16	2	32	Apr-05	4	
			33/11	5	2	10	Dec-05		
143	Vadakara	Kozhikode	110/33	16	1	16	2008	8	
			110/11	12.5	3	37.5	1970		
144	Vadakkanchery	Palakkad	110/33	16	2	32	2006, 2010	6	
			110/11	12.5	1	12.5	Mar-99		
			110/11	10	1	10			
145	Vaikom	Poovanthuruthu	110/66	40	2	80	1971	7	
			110/33	16	1	16	2009		
			110/11	12.5	1	12.5	41456		
			110/11	10	2	20			
146	Valapad	Thrissur	110/33	16	2	32	Dec-05	7	
			110/11	10	2	20	Dec-00		
147	Valiavelicham	Kannur	110/11	12.5	1	12.5	27.03.2018	1	
148	Varkala	Thiruvananthapuram	110/11	10	2	20	Oct-06, Jun-14	10	
			110/11	12.5	1	12.5			
149	Veli	Thiruvananthapuram	110/11	20	1	20	28.03.2018	9	upgraded from 66
			66/11	10	1	10	1973		
			66/11	8	2	16			
150	Vennakkara	Palakkad	110/66	40	1	40	1971	12	
			110/33	16	1	16			
			110/11	12.5	2	25			
			66/11	10	1	10			
151	Vidhya Nagar	Kannur	110/33	16	2	32	11.08.1974	8	2nd 16 MVA installed on 29.04.17
			110/11	20	2	40			
152	Viyur	Thrissur	110/66	63	2	126	1998	8	
			110/33	16	2	32	2007		
			110/11	12.5	2	25	1998		
153	Vyttila	Kalamassery	110/66	63	1	63	1978	9	
			110/66	40	1	40			

Table 34- 110 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	Total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
			110/11	12.5	2	25			
154	Wadakkanchery	Thrissur	110/33	16	1	16	Dec-05	6	
			110/11	12.5	2	25			
155	Walayar	Palakkad	110/22	25	1	25	Mar-11	0	
156	West Hill	Kozhikode	110/11	12.5	3	37.5	1980	13	
157	Willington Island	Kalamassery	110/11	10	2	20	Nov-97	6	
a	Kakkad (Switching stn.)	Gen. circle, Moozhayar	110/11	12.5	2	25	1999	3	Switch yard
b	Kakkayam (Switching stn.)	Kozhikode	110/11	12.5	2	25	Sep-12, May-14	2	Switch yard
c	Neriamangalam	Gen. circle, Meencut	110/11	10	1	10		4	Switch yard
d	Panniyar	Gen. circle, Meencut	110/11	18	2	36			Switch yard
e	Poringalkuthu	Gen. circle, Thrissur	110/11	10	1	10			Switch yard
f	Sengulam	Gen. circle, Meencut	110/66	40	1	40			Switch yard
			66/11	10	1	10			
g	Sholayar	Gen. circle, Thrissur	110/11	10	1	10	1966	2	Switch yard
157+g	Total-110 kV Substations				514	8024.5		1131	
		Transmission substation		157	Switch yard	7			Mahe in Kannur Circle, Pondichery Govt.
IV. 66 kV Substations in operation									
1	Adoor	Pathanamthitta	66/11	10	2	20	1979	7	
2	Alappuzha	Alappuzha	66/11	10	2	20	Prior to 1st Plan	10	
				16	1	16			
3	Anchal	Kottarakara	66/11	10	2	20	01/02/2011	7	
4	Anchukunnu	Malappuram	66/11	5	1	5	Nov-12	3	
				10	1	10	13.6.17		5 MVA replaced with 10
5	Ayoor	Kottarakara	66/11	10	2	20	1993	7	
6	Balaramapuram	Thiruvananthapuram	66/11	10	2	20	16/01/2014	3	
7	Changanassery	Poovanthuruthu	66/11	10	3	30	1979	9	
8	Cherthala	Alappuzha	66/11	10	3	30	1968	9	
9	Chittoor	Palakkad	66/11	10	2	20	1990	7	
10	Chumathra	Pathanamthitta	66/11	10	1	10	1989	8	
			66/11	6.3	1	6.3			
11	Cyber Park	Kozhikode	66/11	10	1	10	01.06.2017	0	
12	Edakkara	Malappuram	66/11	10	2	20	01/02/2006	4	
13	Edathala	Kalamassery	66/11	10	3	30	1993/2017	9	3rd 10 MVA commssnd on 05.06.2017
14	Ettumanoor	Poovanthuruthu	66/11	10	3	30	1965	9	
15	Fort Kochi (GIS)	Kalamassery	66/11	10	2	20	12/01/2006	6	
16	Gandhinagar	Poovanthuruthu	66/11	10	3	30	1987	7	
17	Kakkanad (CEPZ)	Kalamassery	66/11	16	2	32	1987	14	
18	Kannampully	Palakkad	66/11	4	2	8	1976	4	
19	Karimanal	Thodupuzha	66/11	6.3	1	6.3	1987	2	
			66/11	4	1	4			
20	Karukutty	Thrissur	66/11	10	2	20	1971	8	
21	Karunagappally	Kottarakara	66/11	10	3	30	1994	10	
22	Karuvatta	Alappuzha	66/11	10	2	20	1972	6	
23	Kattanam	Alappuzha	66/11	10	2	20	01/11/2019, 02/2020	4	newly added trasnfr 2 nos, feeders 0 to 4 (Upgraded on 01.11.2019)
			33/11	5	2	10	10/30/2010,		newly added trasnfr 2 nos
24	Kattappana	Thodupuzha	66/11	10	1	10	1992	5	
			66/11	6.3	1	6.3			
25	Kochu pampa	Pathanamthitta	66/11	4	2	8	01/12/1998	4	
26	Kodungallur	Thrissur	66/11	10	2	20	1980	6	
			66/11	6.3	1	6.3			
27	Koothattukulam	Poovanthuruthu	66/11	10	1	10	20.6.14	5	
			66/11	6.3	1	6.3	1973		
28	Kothamangalam	Thodupuzha	66/11	10	3	30	Prior to I plan	10	
29	Kottayam (Kanjikuzhy)	Poovanthuruthu	66/11	10	3	30	1975	9	
30	Kulamavu	Thodupuzha	66/11	4	1	4	1967	3	
31	Kuravilangadu	Poovanthuruthu	66/11	10	2	20	01/01/2005	5	
32	Kuthumunda	Kozhikode	66/11	10	2	20	Prior to 1st plan	6	
33	Kuttanadu	Alappuzha	66/11	10	2	20	1973	8	
34	Kuttikattoor	Kozhikode	66/11	10	2	20	1974	9	
			66/11	8	1	8			
35	LA Complex (GIS)	Thiruvananthapuram	66/11	16	2	32	05/01/2005	8	
36	Madura Coats (Koratty)	Thrissur	66/11	6.3	1	6.3	1982	2	
37	Mala	Thrissur	66/11	10	2	20	1993	6	
38	Mananthavady	Kozhikode	66/11	10	2	20	1955	6	
39	Mankada	Malappuram	66/11	10	1	10	30/09/2015	3	
40	Maradi	Thodupuzha	66/11	10	1	10	29.03.2018	1	
41	Marine Drive GIS	Kalamassery	66/11	16	2	32	01/11/2007	8	
42	Mavoor (Ambalaparamba)	Kozhikode	66/11	6.3	1	6.3	1973	4	
				10	1	10	30.12.17		6.3 MVA replaced with 10
43	Mulavukadu	Kalamassery	66/11	6.3	1	6.3	01/02/2001	3	
			66/11	4	1	4			

Table 34- 66 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	Total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
44	Nangiarkulangara	Alappuzha	66/11	10	2	20	1990, 12.11.14	8	
		Alappuzha	66/11	8	1	8			
		Alappuzha	66/11	8	1	8			
45	Nedumkandom	Thodupuzha	66/33	20	1	20	2006	4	
		Thodupuzha	66/11	8	2	16			
46	Nedumpoil	Kannur	66/11	6.3	2	12.6	1971	3	
47	Nemmara	Palakkad	66/11	8	2	16	1976	5	
48	Nilambur	Malappuram	66/33	16	1	16	Aug-13	6	
		Malappuram	66/11	10	2	20	1979		
49	Njarakkal	Kalamassery	66/11	10	2	20	1973	8	
		Kalamassery	66/11	8	1	8			
50	Odakkali	Thodupuzha	66/11	10	1	10	31.03.2018	3	
51	Palakkad Medical College(Chandranagar)	Palakkad	66/11	10	2	20	28.03.2016	6	
52	Palode	Thiruvananthapuram	66/11	10	1	10	2010	6	
		Thiruvananthapuram	66/11	5	1	5	1980		
53	Panampally Nagar	Kalamassery	66/11	10	2	20	1989	6	
54	Pathirappally	Alappuzha	66/11	10	2	20	1978	8	
55	Peerumedu	Thodupuzha	66/33	16	1	16	2009	6	
		Thodupuzha	66/11	5	1	5	1975		One 5MVA is replaced with 1x6.3MVA
			66/11	6.3	1	6.3			
						0			
56	Perumanoor (Shipyard)	Kalamassery	66/11	10	2	20	1972	11	
		Kalamassery	66/11	12.5	1	12.5			
57	Powerhouse (GIS)	Thiruvananthapuram	66/11	16	2	32	Jan-05	8	
58	Puthencruz	Kalamassery	66/11	10	2	20	1984	9	
59	Puthiyara (GIS)	Kozhikode	66/11	16	2	32	Mar-04	8	
60	Sreekantapuram	Kannur	66/11	10	2	20	Apr-97	8	
61	Sultan Bathery	Kozhikode	66/11	10	1	10	1986	4	
		Kozhikode	66/11	6.3	1	6.3			
62	Thamarassery	Kozhikode	66/11	10	2	20	1965	6	
63	Thenmala	Kottarakara	66/11	6.3	1	6.3	10/4/2015	5	
64	Thiruvalla	Pathanamthitta	66/11	10	2	20	2010	8	
				7.5	1	7.5			
65	Thodupuzha	Thodupuzha	66/11	10	3	30	1980	10	
66	Thrikkakara (NPOL)	Kalamassery	66/11	10	1	10	1990	9	
		Kalamassery	66/11	8	2	16			
67	Thripunithura	Kalamassery	66/11	10	1	10	07.02.2018		
68	Triveni	Pathanamthitta	66/11	4	2	8	Oct-05	3	
69	Vandiperiyar	Thodupuzha	66/11	10	2	20	1990	4	
		Thodupuzha	66/11	6.3	1	6.3			
70	Vattioorkavu	Thiruvananthapuram	66/11	10	2	20	Nov-04	8	
71	Vazhathoppu	Thodupuzha	66/11	10	1	10	Jan-13	5	
		Thodupuzha	66/11	8	1	8	1966		
72	Vizhinjam	Thiruvananthapuram	66/11	10	2	20	1976	8	
		Thiruvananthapuram	66/11	4	1	4			
a	Pallivasal	Gen. circle, Meencut	66/11	10	3	30	1940, Feb-12	9	Switchyard
Total-66 kV Substations						164	1569	456	
		Transmission substation	72	Switch yard	1				
V. 33 kV Substations in operation									
1	Adichanalloor	Kottarakara	33/11	5	2	10	Mar-10	4	
2	Agali	Palakkad	33/11	5	2	10	Dec-02	6	
3	Alakkode	Kannur	33/11	5	2	10	Nov-09	3	
4	Alanallur	Palakkad	33/11	5	2	10	May-04	4	
5	Alangad	Kalamassery	33/11	5	2	10	Aug-09	4	
6	Alathur	Palakkad	33/11	5	2	10	Jul-06	3	
7	Ananthapuram	Kannur	33/11	8	2	16	27.07.17 & 17.08.17	4	5 MVA to 8 MVA
8	Anchangadi	Thrissur	33/11	5	2	10	Mar-05	3	
9	Annamanada	Kozhikode	33/11	5	2	10	Aug 2, 2016	4	
10	Anthikad	Thrissur	33/11	5	1	5	Aug-09	2	
11	Aryanad	Thiruvananthapuram	33/11	5	1	5	31.03.2018	2	
12	Badiyadukka	Kannur	33/11	5	1	5	Mar-09	2	
13	Balussery	Kozhikode	33/11	5	2	10	Apr-02	4	
14	Belur	Kannur	33/11	5	2	10	Mar-08, 17.3.15	2	
15	Blangad	Thrissur	33/11	5	2	10		4	
16	Challisseri	Palakkad	33/11	5	2	10	Mar-03	4	
17	Chavakkad	Thrissur	33/11	5	2	10	Dec-04	4	
18	Chelakkara	Thrissur	33/11	5	1	5	Jan-08	2	
19	Chengamanad	Kottarakara	33/11	5	2	10	May-06, Jan-13	4	
20	Chirakkal	Thrissur	33/11	5	1	5	Dec-05	2	
21	Chittadi	Palakkad	33/11	5	2	10	Nov-10	3	
22	Chullimanoor	Thiruvananthapuram	33/11	5	2	10	Mar-09	3	
23	Dharmadam	Kannur	33/11	5	2	10	2008	3	
24	Edavanna	Malappuram	33/11	5	1	5	May-04	3	
25	Erumapetty	Thrissur	33/11	5	2	10	Sep-01	3	
26	Ezhukone	Kottarakara	33/11	5	2	10	Mar-08	4	
27	Feroke	Kozhikode	33/11	5	2	10	5.10.16	4	
28	Kadackal	Thiruvananthapuram	33/11	5	2	10	Dec-04	3	

Table 34- 33 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	Total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
29	Kadakkavoor	Thiruvananthapuram	33/11	5	2	10	Nov-12	3	
30	Kadapra	TD, Pathanamthitta	33/11	5	2	10	17.06.2016	2	
31	Kaduthurathy	Poovanthuruthu	33/11	5	1	5	Nov-09	2	
32	Kaipamangalam	Thrissur	33/11	5	2	10	May-05	3	
33	Kalady	Thrissur	33/11	5	3	15	Dec-04, Aug-13	4	
34	Kalikavu	Malappuram	33/11	5	1	5	Mar-10	2	
35	Kallambalam	Thiruvananthapuram	33/11	5	2	10	Jul-08	3	
36	Kallara	Poovanthuruthu	33/11	5	1	5	18.3.17		
37	Kalletumkkara	Thrissur	33/11	5	2	10	Nov-05	3	
38	Kalloorkadu	Thodupuzha	33/11	5	2	10	Mar-09	3	
39	Kalpakanchery	Malappuram	33/11	5	2	10	31.3.17	3	
40	Kalpetta	Kozhikode	33/11	5	2	10	Nov-04	4	
41	Kanhangad Town	Kannur	33/11	5	2	10	31.05.2016	3	
42	Kannanalloor	Kottarakara	33/11	5	1	5	Mar-13	4	
43	Kannur Town	Kannur	33/11	5	2	10	Jul-10	2	
44	Karamana	Thiruvananthapuram	33/11	5	2	10	Apr-12, Jan-14	2	
45	Karukachal	Poovanthuruthu	33/11	5	2	10	Sep-11	4	
46	Kasargod Town	Kannur	33/11	5	2	10	27.01.17	4	
						0			
47	Katchery	Thiruvananthapuram	33/11	5	1	5	07.10.2017	4	
48	Kattanam	Alappuzha	33/11	5	2	10	Mar-10	4	
49	Kidangoor	Poovanthuruthu	33/11	5	2	10	Oct-10	3	
50	Kinfra	Malappuram	33/11	5	2	10	Jul-03	2	
51	Kodiyeri	Kannur	33/11	5	2	10	Mar-07	3	
52	Koduvayur	Palakkad	33/11	5	2	10	Dec-03	3	
53	Kongad	Palakkad	33/11	5	2	10	Dec-05	4	commissioned on 12.01.2018
54	Kongannur	Thrissur	33/11	5	2	10	Apr-07	4	
55	Konni	Pathanamthitta	33/11	5	2	10	Mar-08	3	
56	Kooriyad (Kakkad)	Malappuram	33/11	8	2	16	16.11.17 & 06.12.17	3	
57	Koottikkal	Poovanthuruthu	33/11	5	1	5	28.01.2016	2	
58	Koovappady	Thodupuzha	33/11	5	2	10	Mar-09	4	
59	Koratty	Thrissur	33/11	5	2	10	Jan-09	5	
60	Kumbanad	Pathanamthitta	33/11	5	2	10	Feb-14	3	
61	Kumily	Thodupuzha	33/11	5	5	25			
62	Kurumassery	Kalamassery	33/11	5	2	10	Dec-03	3	
63	Kuruppambady	Thodupuzha	33/11	5	2	10	Aug-03	4	
64	Kuthiathode	Alappuzha	33/11	5	3	15	Mar-08	3	
65	Kuttiyattur	Kannur	33/11	5	2	10	Feb-01	4	
66	Makkaraparamba	Malappuram	33/11	5	2	10	May-04	4	
67	Maniampara	Palakkad	33/11	5		0	Jul-06	4	
68	Manimala	Poovanthuruthu	33/11	5	2	10	27.05.17	3	2nd 5MVA commsnd on 29.01.18
69	Mannar	Alappuzha	33/11	5	2	10	Mar-09	4	
70	Mazhuvanoor	Thodupuzha	33/11	5	2	10	Dec-04	3	
71	Meenakshipuram	Palakkad	33/11	5	2	10	Mar-10	2	
72	Meenangady	Kozhikode	33/11	5	2	10	Oct-04	3	
73	Melady	Kozhikode	33/11	5	1	5	Jun-08	3	
				8	1	8	29.08.17		5 MVA to 8 MVA
74	Methala	Thrissur	33/11	5	2	10	Mar-14	2	
75	Mullassery	Thrissur	33/11	5	1	5	Feb-06	3	
76	Mulloorkara	Thrissur	33/11	5	2	10	Jan-08	3	
77	Mundur	Thrissur	33/11	5	2	10	Mar-01	4	
78	Muthalamada	Palakkad	33/11	5	2	10	Dec-03	3	
79	Nadukani	Kannur	33/11	5	2	10	Feb-06	4	
80	Neeleswaram	Kannur	33/11	5	2	10	Mar-07	4	
81	Nelliampathy	Palakkad	33/11	5	1	5	Jun-05	2	
82	Ochira	Kottarakara	33/11	5	2	10	Sep-09	4	
83	Olavakode	Palakkad	33/11	5	2	10		4	
84	Othukkungal	Malappuram	33/11	5	1	5	Mar-09	2	
85	Padinjarethara	Kozhikode	33/11	5	2	10	Nov-04	3	
86	Paika	Poovanthuruthu	33/11	5	2	10	Mar-10	5	
87	Palakkal	Thrissur	33/11	5	2	10	Mar-08	3	
88	Pallassena	Palakkad	33/11	5	2	10	Sep-11	3	
89	Pandalam	Kollam	33/11	5	3	15		6	New Substation commissioned on 28.03.2019
90	Parappukara	Thrissur	33/11	5	2	10	Aug-03	4	
91	Parappur	Thrissur	33/11	5	2	10	Oct-08	4	
92	Paravoor	Kottarakara	33/11	5	2	10	Nov-12	4	
93	Pariyaram	Thrissur	33/11	5	2	10	Jul-03	4	
94	Pariyaram	Kannur	33/11	5	2	10	Mar-07	4	
95	Pattambi	Palakkad	33/11	5	2	10	Jan-02	4	
96	Pattikadu	Thrissur	33/11	5	2	10	Aug-03	2	
97	Pattoor	Thiruvananthapuram	33/11	5	2	10	18.05.17	1	New Substation commissioned on 18.05.2018
98	Payannur Town	Kannur	33/11	5	2	10	Aug-06	3	
99	Pazhassi	Kannur	33/11	5	2	10	Aug-06	4	
100	Perambra	Kozhikode	33/11	5	1	5	27.3.2017		
101	Perla	Kannur	33/11	5	2	10	Mar-09	3	

Table 34- 33 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	Total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
102	Perumthenaruvi	Pathanamthitta	33/11	5	1	5	02.06.2018		
103	Peyad	Thiruvananthapuram	33/11	5	2	10	Mar-13	3	
104	Pookkottumpadam	Malappuram	33/11	5	1	5	Aug-13	2	
105	Poomala	Thrissur	33/11	5	2	10	Mar-07	3	
106	Poovar	Thiruvananthapuram	33/11	5	3	15	Aug-08, 16.7.14	5	
107	Pooyappally	Kottarakara	33/11	5	2	10	Sep-10	4	
108	Pulamanthole	Malappuram	33/11	5	1	5	Nov-04	2	
109	Pulpally	Kozhikode	33/11	5	2	10	Dec-04, 4.3.15	2	
110	Puthenvelikara	Kalamassery	33/11	5	2	10	May-06	4	
111	Puthiyatheruvu	Kannur	33/11	5	2	10	Feb-01	3	
112	Puthur	Thrissur	33/11	5	2	10	Mar-01	4	
113	Puthur	Kottarakara	33/11	5	1	5	Aug-10	3	
114	Puthur	Kannur	33/11	5	2	10	Mar-03	3	
115	Ramanattukara	Kozhikode	33/11	5	2	10	Nov-09	4	
116	Ramapuram	Poovanthuruthu	33/11	5	2	10	Oct-09, 25.6.14	4	
117	Ranni-Perunad	Pathanamthitta	33/11	5	1	5	Jan-11	4	
118	Senapathy	Thodupuzha	33/11	5	1	5	Oct-14	2	
119	Sreekrishnapuram	Palakkad	33/11	5	2	10	Jan-06	4	
120	Tarur	Palakkad	33/11	5	2	10	Apr-10	3	
121	Thakazhy	Alappuzha	33/11	5	2	10	Oct-08	2	
122	Thambalamanna	Kozhikode	33/11	5	2	10	Oct-09	3	
123	Thammanam	Kalamassery	33/11	5	2	10	17.02.2018	3	
124	Thazhekkode	Malappuram	33/11	5	1	5	Nov-02	2	
125	Thirunavaya	Malappuram	33/11	5	2	10	Jul-08	3	
126	Thiruvegappura	Palakkad	33/11	5	1	5	Jan-14	2	
127	Thiruvellur	Kozhikode	33/11	5	2	10	Jun-08, 15.5.14	2	
128	Tholambra	Kannur	33/11	5	2	10	Feb-02	3	
129	Thottada	Kannur	33/11	5	2	10	Apr-02	3	
130	Thrikkannapuram (Thavanur)	Malappuram	33/11	5	1	5	Dec-09	2	
131	Thrikkaripur	Kannur	33/11	5	2	10	Dec-04	4	
132	Thrithala	Palakkad	33/11	5	2	10	Mar-03	4	
133	Upputhura	Thodupuzha	33/11	5	2	10	Jun-09	3	
134	Urumi	Kozhikode	33/11	5	1	5	May-07	3	
135	Vadanapilly	Thrissur	33/11	5	2	10	Dec-04	3	
136	Vadikkekara	Kalamassery	33/11	5	3	15	Aug-05	5	
137	Vagamon	Thodupuzha	33/11	5	1	5	Mar-10	3	
138	Vakathanam	Poovanthuruthu	33/11	5	2	10	Feb-13	4	
139	Vallikunnam	Alappuzha	33/11	5	1	5	Jun-12	2	
140	Valluambaram	Malappuram	33/11	5	2	10	Dec-01	3	
141	Vannamada	Palakkad	33/11	5	2	10	Oct-09	3	
142	Vannappuram	Thodupuzha	33/11	5	2	10	Nov-12	4	
143	Varappuzha	Kalamassery	33/11	5	2	10	Jan-08	4	
144	Velanthavalam	Palakkad	33/11	5	2	10	Feb-11	3	
145	Vellangallur	Thrissur	33/11	5	2	10	Mar-06	3	
146	Vellannur	Kozhikode	33/11	5	2	10	Sep-11	3	
147	Vellarada	Thiruvananthapuram	33/11	5	2	10	Aug-11	3	
148	Vellikulangara	Thrissur	33/11	5	2	10	Feb-10	4	
149	Vengola	Thodupuzha	33/11	5	2	10	May-07	3	
150	Venjaramoodu	Thiruvananthapuram	33/11	5	2	10	Mar-10	3	
151	Vithura	Thiruvananthapuram	33/11	5	2	10	Oct-11	3	
152	Vydyuthi bhavan-pkdd	Palakkad	33/11	5	2	10	27-6-2015	4	
153	Wandoor	Malappuram	33/11	5	2	10	Aug-97, Nov-13	3	
154	West Elery	Kannur	33/11	5	1	5	Feb-07	2	
a	Barapole	Gen. Circle, Kakkayam	33/11	5	1	5		1	Switch yard
b	Vilangand	Gen. Circle, Kakkayam	33/11	5	1	5		1	Switch yard
154+b	Total-33 kV Substations			794	287	1450		488	
		Transmission substation	154	Switch yard	2				
	Grand Total								

Note 1: Substations of generating stations(Switch yards) having 11 kV outgoing feeders are included in the list

Note 2: Substation not in control of KSEBL(110 kV Mahe , 33 kV Kinfra)

ABSTRACT-SUBSTATIONS 2018-19

	Transmission substations	Gen. Switch yard with HT feeder	MVA Capacity	HT Feeders
400kV	1+5*	0	1365.0	8
220kV	22	3	7585.4	163
110kV	157	7	8024.5	1131
66kV	72	1	1569.2	456
EHT S/S	257	11	18544.1	1758
33kV	154	2	1450.0	488
TOTAL	411	13	19994	2246

*PGCIL owned

TABLE 34

LIST OF EHV AND 33 kV TRANSMISSION LINES

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
I. 400 kV Lines (PGCIL owned)				
1	Thirunelveli - Pallippuram No.I	Twin Moose	160 (74.9 in Kerala)	PGCIL
2	Thirunelveli - Pallippuram No.II	Twin Moose	160 (74.9 in Kerala)	PGCIL
3	Udumalpet - Elappully No.I	Twin Moose	95.7 (48.1 in Kerala)	PGCIL
4	Udumalpet - Elappully No.II	Twin Moose	95.7 (48.1 in Kerala)	PGCIL
5	Elappully - Madakkathara No.I	Twin Moose	84.78	PGCIL
6	Elappully - Madakkathara No.II	Twin Moose	84.78	PGCIL
7	Kochi East - Madakkathara No.I	Quad Moose	78.2	PGCIL
8	Kochi East - Madakkathara No.II	Quad Moose	78.2	PGCIL
9	Mysore-Kozhikkode No. I	Twin Moose	206 (142 in Kerala)	PGCIL
10	Mysore-Kozhikkode No. II	Twin Moose	206 (142 in Kerala)	PGCIL
	Total 400 kV lines (PGCIL owned)		855.96	Line length inside Kerala only is considered
II. 220 kV Lines				
1	Ambalathara - Mylatty	Kundah	16.52	
2	Areacode - Kanhirode	Kundah	108.92	
3	Areacode - Kaniyampetta	Kundah	68.18	
4	Areacode - Nallalam No.I	Kundah	27.63	
5	Areacode - Nallalam No.II	Kundah	27.63	
6	Areacode - Orkatteri	Kundah	72.45	
7	Brahmapuram - Ambalamugal No.I	Kundah	4.4	
8	Brahmapuram - Ambalamugal No.II	Kundah	4.4	
9	Brahmapuram - Kochi East No.I	Kundah	6.79	
10	Brahmapuram - Kochi East No.II	Kundah	6.79	
11	Edamon - Edappon	Twin Moose	67.18	
12	Edamon - Kundara	Twin Moose	60.91	
13	Edamon - Pothencode No.I	Kundah	47.69	
14	Edamon - Pothencode No.II	Kundah	47.69	
15	Edamon - Thirunelveli No.I (PGCIL)	Quad Moose	81	
16	Edamon - Thirunelveli No.II (PGCIL)	Quad Moose	81	
17	Elappully - Madakkathara	Kundah	82.53	
18	Elappully - Palakkad No.I	Kundah	3.44	
19	Elappully - Palakkad No.II	Kundah	3.44	
20	Elappully - Palakkad No.III	Kundah	3.66	
21	Idukki - Kalamassery No.I	Kundah	68.8	
22	Idukki - Kalamassery No.II	Kundah	68.8	
23	Idukki - Kothamangalam	Kundah/ double panther	44.2	
24	Idukki - Lower Periyar No.I	Kundah	35	
25	Idukki - Lower Periyar No.II	Kundah	35	
26	Idukki - New Pallom	Kundah	50	
27	Idukki - Udumalpet (Inter state)	Kundah	111.6 (84.4 in Kerala)	
28	Kanhirode - Ambalathara	Kundah	62.19	
29	Kanhirode - Thaliparamba	Kundah	28.02	
30	Kaniyampetta - Kadakola (Inter state)	Kundah	92 (25.4 in Kerala)	
31	Kayamkulam - Edappon	Twin Moose	28.57	
32	Kayamkulam - Kundara	Twin Moose	64.91	
33	Kayamkulam - New Pallom No.I	Zebra	47	
34	Kayamkulam - New Pallom No.II	Zebra	47	
35	Kochi East - Kalamassery No.I	Kundah	14.4	
36	Kochi East - Kalamassery No.II	Kundah	14.4	
37	Lower Periyar - Brahmapuram No.I	Kundah	58.46	
38	Lower Periyar - Brahmapuram No.II	Kundah	58.46	

Table 35 -220 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
39	Lower Periyar - Madakkathara No.I	Kundah	102	
40	Lower Periyar - Madakkathara No.II	Kundah	102	
41	Madakkathara - Areacode	Kundah	93.28	
42	Madakkathara - Malaparamba I	AAAC Drake	51.17	
43	Madakkathara - Malaparamba II	AAAC Drake	51.17	
44	Madakkathara - Palakkad	Kundah	82.26	
45	Madakkathara - Shornur	Kundah	29.35	
46	Malaparamba - Areacode	Kundah	53.83	
47	New Pallom - Pallom	Twin Moose	0.8	
48	Orkatteri - Kanhirode	Kundah	37.14	
49	Pallippuram - Pothencode No.I	Quad Moose	3.49	
50	Pallippuram - Pothencode No.II	Quad Moose	3.49	
51	Pallippuram - Pothencode No.III	Quad Moose	3.49	
52	Pallippuram - Pothencode No.IV	Quad Moose	3.49	
53	Pallom - Ambalamugal	Kundah	56.3	
54	PGCIL Areacode - 220 kV Areacode No I	Twin Moose	0.225	
55	PGCIL Areacode - 220 kV Areacode No II	Twin Moose	0.225	
56	PGCIL Areacode - 220 kV Areacode No III	Twin Moose	0.225	
57	Pothencode- Kattakada No.II	Double Moose	27.5	
58	Pothencode- Kattakada No.I	Double Moose	27.5	
59	Sabarigiri - Ambalamugal	Kundah	123.5	
60	Sabarigiri - Edamon No.I	Kundah	52.89	
61	Sabarigiri - Edamon No.II	Kundah	52.93	
62	Sabarigiri - Edamon No.III	Kundah	52.93	
63	Sabarigiri - Pallom	Kundah	67.32	
64	Sabarigiri - Theni (Inter state)	Kundah	106.5 (44.8 in Kerala)	
65	Shornur - Areacode	Kundah	72.53	
66	Thaliparamba - Mylatty	Kundah	63.04	
67	Veeyapuram- Punnapra No.I	Zebra	18.1	
68	Veeyapuram- Punnapra No.II	Zebra	18.1	
	220 kV lines total		2952.34	
III. 110 kV Lines				
1	Ambalappuram - Kottiyam	Wolf	18.9	
2	Angamaly-Chalakkudy	Wolf	21.28	
3	Aragottukara-Edappal	Wolf	22.4	
4	Areacode - Keezhissery No.I	Wolf	9.5	
5	Areacode - Keezhissery No.II	Wolf	9.5	
6	Aroor - Mattanchery	Wolf	9.1	
7	Aroor - Thykkattussery	Wolf	15.6	
8	Aruvikkara - Kattakkada	Wolf	11.71	
9	Athani - Kandassankadavu	Wolf	36.8	
10	Attingal - Paripally No.I	Wolf	15.3	
11	Attingal - Paripally No.II	Wolf	15.3	
12	Autocast (SILK) - SL Puram	Wolf	1.7	
13	Ayarkunnam - MRF	Wolf	6.3	
14	Ayathil-GIS Kollam No.I	XLPE UG	3.75	
15	Ayyampuzha - Chalakudy	Wolf	16.8	
16	Azhikode - WIPL	Wolf	0.23	
17	Bilievers Church - Thrikodithanam	Wolf	4.72	
18	Brahmapuram - FACT (CD) No.I	Wolf	3.8	
19	Brahmapuram - FACT (CD) No.II	Wolf	3.8	
20	Brahmapuram - Kadavanthara	Wolf	10.77	
21	Brahmapuram - Kandanad	Wolf	11.64	
22	Brahmapuram - KINFRA No.I	Wolf	1.85	
23	Brahmapuram - KINFRA No.II	Wolf	1.85	
24	Brahmapuram - New Vyttila	Wolf	7.3	
25	Brahmapuram - Piravom	Wolf	19.64	
26	Brahmapuram - Vaikom	Wolf	29.64	
27	Chakkittappara - Nadapuram	Wolf	20	
28	Chalakkudy - Kodungallur	Wolf	20.61	
29	Chalakkudy -Mala	Wolf	12.5	

Table 35 -220 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
30	Chalakkudy-Puthukkad	Wolf	15.68	
31	Chalakkudy - Carborandum	Wolf	7.3	
32	Chalakkudy - Kodakara	Wolf	7.1	
33	Chalakkudy - Kurumassery	Wolf	30	
34	Chalakkudy - Traction S/s, Chalakkudy	Wolf	2.3	
35	Chavara - Kavanad No.I	Wolf	9.1	
36	Chavara - Kavanad No.II	Wolf	9.1	
37	Chavara - KMML	Wolf	5.5	
38	Chelari - Parappanagadi	Kundah	15.9	
39	Chengalam - Punnapra	Wolf	29.4	
40	Chengannoor - Believers Church	Wolf	16.45	
41	Chengannoor - Edappon No.I	Wolf	14.1	
42	Chengannoor - Edappon No.II	Wolf	14.1	
43	Cherpu - Irinjalakuda	Wolf	20.84	
44	Cherpu - Irinjalakuda	Wolf	20.84	
45	Cheruvathur - Traction Cheruvathur SC UG	SC UG	2.63	
46	Chevayoor - West Hill	Tiger	12.8	
47	Chova -Kannur South Tracion S/s	XLPE UG	0.85	
48	Edamon - Ambalappuram	Wolf	29	
49	Edamon - Kilimanoor	Wolf	33.9	
50	Edamon - Paruthippara	Wolf	54	
51	Edamon - Punalur No.I	Wolf	9.89	
52	Edamon - Punalur No.II	Wolf	9.89	
53	Edappal - Kuttippuram	Wolf	26.92	
54	Edappal - Ponnani	Wolf	10.37	
55	Edappally - Kaloor	Wolf	4.43	
56	Edappon - Kayamkulam	Wolf	18.5	
57	Edappon - Kundara	Wolf	31	
58	Edappon - Mavelikkara	Wolf	14	
59	Edappon - Pathanamthitta No.I	Wolf	23.1	
60	Edappon - Pathanamthitta No.II	Wolf	23.1	
61	Edappon - Sasthamkotta	Wolf	18.5	
62	Edarikode - Tirur	Wolf	11.7	
63	Edayar - Binani Zinc No.I	Wolf	1.35	
64	Edayar - Binani Zinc No.II	Wolf	1.35	
65	Edayar - Cherai	Wolf	16.12	
66	Edayar - North Paravur No.I	Wolf	9.41	
67	Edayar - North Paravur No.II	Wolf	9.41	
68	Erattupetta - Pala	Wolf	15.9	
69	Erumeli-Mundakkayam	Wolf	17.62	
70	Guruvayur - Kandassankadavu	Wolf	16.25	
71	Idamalayar - Ayyampuzha	Wolf	32	
72	Idamalayar - Malayattoor	Wolf	28.5	
73	Irinjalakuda - Kattoor	Wolf	7.08	
74	Kadavanthara - Traction S/s, Kadavanthara	UG Cable	0.15	
75	Kadavanthara - Willington Island No.I	UG Cable + OH	3.47	
76	Kadavanthara - Willington Island No.II	UG Cable + OH	2.3	
77	Kakkad - Karikkayam	Wolf	10.6	
78	Kakkad - Pathanamthitta	Wolf	28.7	
79	Kakkayam - Chakkittappara	Wolf	9.2	
80	Kakkayam - Kinaloor	Wolf	11.6	
81	Kakkayam - Kuttiady	Wolf	20.2	
82	Kalamassery - Aroor	Wolf	23.5	
83	Kalamassery - Brahmapuram No.I	Wolf	11.6	
84	Kalamassery - Brahmapuram No.II	Wolf	11.6	
85	Kalamassery - Brahmapuram No.III	Wolf	11.6	
86	Kalamassery - Brahmapuram No.IV	Wolf	11.6	
87	Kalamassery - Carborandum	Wolf	33.63	
88	Kalamassery - Edappally	Wolf	7	
89	Kalamassery - Edayar No.I	Wolf	4.2	
90	Kalamassery - Edayar No.II	Wolf	4.2	

Table 35 -110 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
91	Kalamassery - FACT (UD) No.I	Wolf	5	
92	Kalamassery - FACT (UD) No.II	Wolf	5	
93	Kalamassery - Kaloor	Wolf	11.9	
94	Kalamassery - Kizhakambalam	Wolf	9.53	
95	Kalamassery - Kurumassery	Wolf	20.1	
96	Kalamassery - Moovattupuzha	Lynx	26.4	
97	Kalamassery - Panangad	Wolf	17	
98	Kalamassery - Perumbavoor	Wolf	19.61	
99	Kalamassery - Vyttila	Wolf	11.58	
100	Kalladikode - Mannarkkad	Wolf	14	
101	Kaloor-Eranakulam North 1	UG	4.1	
102	Kaloor-Eranakulam North 2	UG	4.1	
103	Kandanad - Vaikom	Wolf	18	
104	Kanhangad - Cheruvathur	Tiger	22.6	
105	Kanhirode - Mattannur No.I	Wolf	18.7	
106	Kanhirode - Mattannur No.II	Wolf	18.7	
107	Kanhirode - Mundayad No.I	Wolf	9.6	
108	Kanhirode - Mundayad No.II	Wolf	9.6	
109	Kaniyambetta - Kuthumunda		12.8	
110	Kanjirappally - Mundakkayam	Wolf	15	
111	Kanjirappally-Erumely	wolf	11.81	
112	Karikkayam - Maniyar	Wolf	3.9	
113	Karukadom - Kothamangalam		9	
114	Kattakkada - Parassala No.I	Wolf	18.98	
115	Kattakkada - Parassala No.II	Wolf	18.98	
116	Kattakkada - Thirumala No.I	Wolf	9.24	
117	Kattakkada - Thirumala No.II	Wolf	9.24	
118	Kattoor - Valappad	Wolf	11.16	
119	Kazhakkuttam - Traction S/s, Kazhakuttam	Wolf	0.87	
120	Keezhissery - Malappuram No.I	Tiger	18.1	
121	Keezhissery - Malappuram No.II	Wolf	18.1	
122	Kilimanoor - Paruthippara	Wolf	39.9	
123	Kinaloor-Chevayur	Wolf	24.1	
124	Kizhakambalam - Moovattupuzha	Wolf	16.87	
125	Kodimatha-Punnapra	Wolf	28.96	
126	Koduvally - Kakkayam	Wolf	24.3	
127	Koottanad - Edappal	AAAC	15.26	
128	Kottarakkara - Kundara	Wolf	13.5	
129	Kottiyam - Kundara	Wolf	16.9	
130	Kozhenchery - Ranni	Wolf	13.4	
131	Kozhinjampara - Kollengode	Wolf	24.28	
132	Kubanur - Manjeswaram	Wolf	12.6	
133	Kubanur-Uppala Traction S/s	UG	5.3	
134	Kundara - Ayathil No.I	Wolf	13	
135	Kundara - Ayathil No.II	Wolf	13	
136	Kundara - Chavara	Wolf	26	
137	Kundara - Parippally No.I	Wolf	24	
138	Kundara - Parippally No.II	Wolf	24	
139	Kundara - Traction Perinad No.I	Wolf	7	
140	Kundara-Perinadu	Wolf	9	
141	Kundara-Technopark	UG	2.6	
142	Kunnamangalam - Agasthiamoozhy No.I	AAAC	9.5	
143	Kunnamangalam - Agasthiamoozhy No.II	AAAC	9.5	
144	Kunnamangalam - Koduvally	Wolf	7.4	
145	Kunnamkulam - Guruvayur	Wolf	5.9	
146	Kunnamkulam - Punnayurkulam No.I	AAAC	15.2	
147	Kunnamkulam - Punnayurkulam No.II	AAAC	15.2	
148	Kurumassery-Angamaly	Wolf	8.89	
149	Kuthuparamba -Valiavelicham	wolf	8.32	
150	Kuttiady - Kanhirode	Wolf	54.3	
151	Kuttippuram - Tirur	Wolf	22.33	

Table 35 -110 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
152	LILO from Aroor - Thycattussery		0.5	
153	LILO from Kanhirode-Mattannur line (DC)		12.5	
154	Madakkathara - Athani	Wolf	10.9	
155	Madakkathara - Cherpu	Wolf	19.7	
156	Madakkathara - Kodakara	Wolf	24.2	
157	Madakkathara - Kunnankulam	Wolf	27.4	
158	Madakkathara - Ollur	Wolf	15.7	
159	Madakkathara - Shornur	Wolf	30.2	
160	Madakkathara - Valappad	Wolf	28.1	
161	Madakkathara - Viyyur No.I	Wolf	10.2	
162	Madakkathara - Viyyur No.II	Wolf	10.2	
163	Madakkathara - Wadakkanchery	Wolf	15.09	
164	Malampuzha - Kalladikode	Wolf	19.25	
165	Malaparamba - Koppam	Tiger	10	
166	Malaparamba - Kuttippuram No.I	Wolf	18.1	
167	Malaparamba - Kuttippuram No.II	Wolf	18.1	
168	Malaparamba - Malappuram No.I	Tiger	14	
169	Malaparamba - Malappuram No.II	Tiger	14	
170	Malaparamba - Shornur	Tiger	24	
171	Malaparamba -Melattur	Wolf	25.7	
172	Malaparamba-Perinthalmanna	Wolf	25.7	Tap Changed to LILO
173	Malappuram - Edarikode	Wolf	13.5	
174	Malappuram - Manjeri	AL-59, wolf	13.9	Manjeri Upgradation
175	Malayattoor - Rayonpuram	Wolf	12	
176	Mallappally - Chengannoor	Wolf	24.3	
177	Mangad - Azhikode	Wolf	14.2	
178	Maniyar - Pathanamthitta	Wolf	18	
179	Manjeswaram - Konaje (Inter state)	Wolf	13.9 (7.4 in Kerala)	
180	Mattanchery - Chellanam	Wolf	11.1	
181	Mattannur - Iritty No.I	Wolf	13	
182	Mattannur - Iritty No.II	Wolf	13	
183	Mavelikkara - Kayamkulam	Wolf	14	
184	Meppayur - West hill	Wolf/Tiger	33.27	
185	Moovattupuzha - Myloor (Pothanikad)	Lynx	10.56	
186	MRF - Pallom	Wolf	8.6	
187	Mundayad - Azhikode	Tiger	13.3	
188	Mundayad - Chovva	Wolf	3.1	
189	Mundayad - Pinarayi	Tiger	11.3	
190	Mylatty - Kanhangad	Tiger	14.8	
191	Mylatty - Vidyannagar	Tiger	11.9	
192	Myloor (Pothanikad) - Adimali	Lynx	34.92	
193	Nadapuram - Kanhirode	Wolf	45.3	
194	Nadapuram-Kanjirod-T-Kuthuparamba	Wolf	6.7	
195	Nallalam - Chelari	Tiger	14.6	
196	Nallalam - Chevayur No.I	Wolf	7.5	
197	Nallalam - Chevayur No.II	Wolf	8.2	
198	Nallalam - Keezhissery	Tiger	20.4	
199	Nallalam - Kunnamangalam	Wolf	19.6	
200	Nallalam - Steel Complex	Tiger	0.8	
201	Neriamangalam - Adimali	Lynx	10.49	
202	Neriamangalam - Kuthungal No.I	Wolf	16.5	
203	Neriamangalam - Kuthungal No.II	Wolf	16.5	
204	Neriamangalam - Moovattupuzha	Lynx	51	
205	Neriamangalam - Pala	Wolf	37.8	
206	Neriamangalam - Sengulam	Lynx	5.8	
207	New Kattakada - Aruvikkara	Wolf	14.4	
208	New Kattakada -Kattakada I	Wolf	1.87	
209	New Kattakada -Kattakada II	Wolf	1.8	
210	New Vytilla-Vytilla	XLPE UG	0.71	

Table 35 -110 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
211	New Vyttila - Kadavanthara	Wolf	3.47	
212	Ollur-Puthukkad	Wolf	12.83	
213	Orkatteri - Panoor	Tiger	11.27	
214	Orkatteri - Vadakara No.I	Wolf	8.9	
215	Orkatteri - Vadakara No.II	Wolf	8.4	
216	Orkattery-Thalassery	wolf	15.7	
217	Orkattery-Thalassery -T-Pinarayi	Tiger	7.5	
218	Ottappalam - Cherpulassery No.I	Wolf	18.95	
219	Ottappalam - Cherpulassery No.II	Wolf	18.95	
220	Ottappalam - Pazhayannur	Wolf	11.2	
221	Ottappalam - Vadakkanchery	Wolf	27	
222	Ottappalam - Vennakkara	Wolf	28.96	
223	Pala - Ayarkunnam No.I	Wolf	13.5	
224	Pala - Ayarkunnam No.II	Wolf	13.5	
225	Pala-Neriamangalam -T-Muttom	wolf	0.1	
226	Palakkad - Kanjikode No.I	Wolf	5.46	
227	Palakkad - Kanjikode No.II	Wolf	5.46	
228	Palakkad - Kollengode	Wolf	26.5	
229	Palakkad - Kozhinjampara	Wolf	10.61	
230	Palakkad - Traction, Kanjikode	Wolf	3.15	
231	Palakkad - Vennakkara No.I	Wolf	20.86	
232	Palakkad - Vennakkara No.II	Wolf	20.86	
233	Palakkad - Walayar No.I	Wolf	6.35	
234	Palakkad - Walayar No.II	Wolf	6.8	
235	Pallom - Ayarkunnam	Wolf	14.9	
236	Pallom - Chengalam	Wolf	14.1	
237	Pallom - Mallappally	Wolf	32.2	
238	Pallom - Thrikodithanam	Wolf	12.5	
239	Pallom-Kodimatha	Wolf	4.5	
240	Pallom-Pampady	Wolf	12.5	
241	Pampady-Kanjirapally	Wolf	16.5	
242	Panangad - Aroor	Wolf	6.5	
243	Panniar - Sengulam No.I	Wolf	0.5	
244	Panniar - Sengulam No.II	Wolf	0.5	
245	Panoor - Mahe No.I	Wolf	2.4	
246	Panoor - Mahe No.II	Wolf	2.4	
247	Parali - Vennakkara	Wolf	9.5	
248	Parappanagadi-Keezhissery	Kundah	32.9	
249	Parassala - Kuzhithura (Inter state)	Mink	4.83	
250	Paripally - Varkala No.I	Wolf	9.8	
251	Paripally - Varkala No.II	Wolf	9.8	
252	Paruthippara - Medical College No.I	Wolf	2.87	
253	Paruthippara - Medical College No.II	Wolf	2.87	
254	Pathanamthitta - Kozhenchery	Wolf	11.9	
255	Pathanamthitta - Ranni	Wolf	25.38	
256	Pathanapuram - Koodal	Wolf	8.23	
257	Pathiripala - Parali	Wolf	11.2	
258	Payangadi - Ezhimala No.I	Wolf	7.2	
259	Payangadi - Ezhimala No.II	Wolf	7.2	
260	Payyannur - Cherupuzha No.I	Wolf	21.6	
261	Payyannur - Cherupuzha No.II	Wolf	21.6	
262	Payyannur - Cheruvathur	Tiger	13.6	
263	Pazhayannur - Vadakkanchery	Wolf	15.8	
264	Perinadu- Traction	Wolf	2.1	
265	Piravom - Vaikom	Wolf	10	
266	Ponnani - Tirur	Wolf	29.03	
267	Poringalkuthu - Chalakudy No.I	Tiger	32.5	
268	Poringalkuthu - Chalakudy No.II	Tiger	32.5	
269	Poringalkuthu - Sholayar	Wolf	12.9	
270	Pothencode - Aruvikkara	Wolf	19.2	
271	Pothencode - Attingal No.I	Wolf	10.2	

Table 35 -110 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
272	Pothencode - Attingal No.II	Wolf	10.2	
273	Pothencode - Kattakada	Wolf	29.7	
274	Pothencode - Paruthippara No.I	Wolf	10.39	
275	Pothencode - Paruthippara No.II	Wolf	10.39	
276	Pothencode - Technopark No.I	Wolf	5.87	
277	Pothencode - Technopark No.II	Wolf	5.87	
278	Pullazhy-Valapad	Dog	20.9	
279	Punalur - Koodal	Wolf	19.5	
280	Punalur - Kottarakkara	Wolf	20.1	
281	Punalur - Kundara	Wolf	33.6	
282	Punalur - Pathanapuram	Wolf	12.25	
283	Punnapra - Autocast (SILK)	Wolf	26.6	
284	Punnapra - Edathua No.I	Wolf	15.7	
285	Punnapra - Edathua No.II	Wolf	15.7	
286	Punnapra - Traction S/s, Punnapra	Wolf	0.47	
287	Quilandy-Vadakara	Tiger	24.5	
288	Rayonpuram - Perumbavoor	Wolf	1.5	
289	Sasthamkotta - KMML	Wolf	18.1	
290	Sengulam - Udumpannoor	Wolf	18.5	
291	Sholayar - Chalakudy	Wolf	53.1	
292	Shornur - Aragottukara	Wolf	9.3	
293	Shornur - Kootanad	AAAC	17.86	
294	Shornur - Koppam	Tiger	14.5	
295	Shornur - Ottappalam	Wolf	13.6	
296	Shornur - Pathiripala	Wolf	26.3	
297	Shornur - Traction Shornur	Tiger	4.98	
298	Tap No.I to Aluva from KLCB feeder	Wolf	2	
299	Tap No.I to BSES from KLKA feeder	Wolf	1.3	
300	Tap No.I to CIAL from KLCB feeder	Wolf	1.81	
301	Tap No.I to CSEZ from KLBR No.I feeder	Wolf	0.05	
302	Tap No.I to HNL from BRVK feeder	Wolf	8.7	
303	Tap No.I to IAC from KLED No.I feeder	Wolf	0.05	
304	Tap No.I to Nedumangad from PCAV feeder	Wolf	0.2	
305	Tap No.I to Nedumangad from PCNK feeder	Wolf	0.2	
306	Tap No.I to Piravam from HNL Tap No.I	Wolf	7.7	
307	Tap No.I to Rubber Park from KLMV feeder	Wolf	2.1	
308	Tap No.I to TCC from KLFA No.I feeder	Wolf	0.8	
309	Tap No.II to Aluva from KLKR feeder	Wolf	2	
310	Tap No.II to BSES from KLEP feeder	Wolf	1.3	
311	Tap No.II to CIAL from CHKR feeder	Wolf	1.81	
312	Tap No.II to CSEZ from KLBR No.II feeder	Wolf	0.05	
313	Tap No.II to HNL from KNVK feeder	Wolf	8.7	
314	Tap No.II to IAC from KLED No.II feeder	Wolf	0.05	
315	Tap No.II to Piravam from HNL Tap No.II	Wolf	7.7	
316	Tap No.II to Rubber Park from KZMV feeder	Wolf	2.1	
317	Tap No.II to TCC from KLFA No.II feeder	Wolf	0.8	
318	Tap No.III to BSES from KLED No.I feeder	Wolf	0.8	
319	Tap No.IV to BSES from KLED No.II feeder	Wolf	0.8	
320	Tap to BPCL from BRFA No.II feeder	Wolf	2.81	
321	Tap to Cherai		15	
322	Tap to Chingavanam Traction from PLTN feeder	Wolf	1.7	
323	Tap to Co-op. Med. College from KLBR No.II	Wolf	0.04	
324	Tap to GTN Textiles from KLPM feeder	Wolf	0.86	
325	Tap to IPRK from SL- Chellanam	Wolf	0.125	07.12.2018
326	Tap to MPS Steel from PKKE feeder	Wolf	0.05	
327	Tap to Paper Mill from PNKU feeder	Wolf	1.4	
328	Tap to Paragon Steel from PKKJ No.II	Wolf	0.05	
329	Tap to PATSPIN from PKKJ No.II	Wolf	0.05	
330	Tap to Petronet from BRFA No.I feeder	Wolf	2.81	
331	Tap to Precot Meridian from WLMC No.II	Wolf	0.22	
332	Tap to Sasthamkotta from EPKD feeder	Wolf	0.5	

Table 35 -110 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
333	Tap to SL Puram from ACCL feeder	Wolf	0.05	
334	Tap to SL Puram from TKPU feeder	Wolf	0.05	
335	Tap to Technopark Ph.II from TPTE No.I	Wolf	0.05	
336	Tap to TECIL from PLTN feeder	Wolf	2.1	
337	Tap to Thrissur Corpn. from VIPL feeder	Wolf	1.6	
338	Technopark - TERLS No.I	Wolf	4.53	
339	Technopark - TERLS No.II	Wolf	4.53	
340	TERLS - Veli	wolf	8	66 kV Veli upgraded to 110
341	Thalassery - Panoor	Wolf	9.1	
342	Thaliparamba - Mangad	Wolf	10.5	
343	Thaliparamba - Payangadi No.I	Wolf	9.5	
344	Thaliparamba - Payangadi No.II	Wolf	9.5	
345	Thaliparamba - Payyannur	Wolf	25.6	
346	Thykkattussery - Punnapra	Wolf	43.9	
347	Udumpanoor - Erattupetta	Wolf	28.4	
348	Valapad - Kandassankadavu	wolf	12.95	
349	Vennakkara - Malampuzha	Wolf	10.25	
350	Vidyanagar - Kubanur	AAAC	21.7	
351	Vidyanagar - Mulleria No.I	Wolf	17.8	
352	Vidyanagar - Mulleria No.I	Wolf	17.8	
353	Vidyanagar - Seethamgoli	Wolf	8	
354	Viyyur - Kandassankadavu	Wolf	15.7	
355	Viyyur - Pullazhy	Wolf	6.96	
356	Wadakkanchery - Shornur	Wolf	16.56	
357	Walayar - Malabar Cement No.I	Wolf	4.41	
358	Walayar - Malabar Cement No.II	Wolf	4.63	
359	West Hill - Elathur Traction S/s	UG	4.4	
360	Willington Island - Port Trust	UG Cable	2.31	
			4745.08	
IV. 66 kV Lines				
1	Adoor - Pathanamthitta	Mink	12.6	
2	Alappuzha - Pathirappally	Tiger	6.3	
3	Aluva - Edayar	Mink / Copper	5.65	
4	Aluva - Kizhakambalam	Dog	12.06	
5	Aluva - Kothamangalam No.I	Copper	31	
6	Aluva - Kothamangalam No.II	Copper	31	
7	Aluva - North Paravur	Mink	13.35	
8	Anchal - Ayoor	Dog	8	
9	Aroor - Mattanchery	Dog	8.9	
10	Attingal - Palode	Mink	19.4	
11	Balaramapuram - Neyyattinkara No.I	Mink	4.04	
12	Balaramapuram - Neyyattinkara No.II	Mink	4.04	
13	Chalakkudy - Aluva I	Mink	26.78	
14	Chalakkudy - Aluva II	Mink	26.78	
15	Chalakkudy - Kodungallur	Mink	21	
16	Chalakkudy - Ollur	AAAC	23.8	
17	Chalakkudy - OSSIGN	Mink	7.5	
18	Chalakkudy - Viyyur	AAAC	34.5	
19	Chalakkudy - Viyur I- Tap-Appolo Tyres I	Mink	0.75	
20	Chalakkudy - Viyur II- Tap-Appolo Tyres II	Mink	0.75	
21	Chevayur - Puthiyara	400 Sq.mm XLPE	4.4	
22	Chumatra - Thiruvalla	Dog	7.25	
23	Edamon - Anchal	Dog	13	
24	Edamon-Kallada-Tap to Thenmala	Dog/Mink	0.03	
25	Edappon - Adoor No.I	Dog	16	
26	Edappon - Adoor No.II	Dog	16	
27	Edappon - Mavelikkara No.I	Dog	10.8	
28	Edappon - Mavelikkara No.II	Dog	10.8	
29	Edathala - Aluva	Copper	4	
30	Edayar - North Paravur	Mink	9.7	
31	Ettumanur - Gandhi Nagar	Dog	8	

Table 35 -66 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
32	Ettumanur - Pala	Dog	16.2	
33	Ettumanur - Pallom	Dog	17	
34	Gandhi Nagar - Pallom	Dog	9	
35	Idukki- Vazhathope	Dog	18.8	
36	Kakkanad - Vyttila	Tiger	4.5	
37	Kakkanadu tap I	Tiger	0.1	
38	Kalamassery - Aluva	Dog	5.88	
39	Kalamassery - Njarakkal No.I	Dog	13.6	
40	Kalamassery - Njarakkal No.II	Dog	13.6	
41	Kalamassery - NPOL (Thrikkakara)	Tiger	4.7	
42	Kalamassery - Premier Tyres No.I	Wolf	2	
43	Kalamassery - Premier Tyres No.II	Wolf	2	
44	Kalamassery - Vyttila	Tiger	11.93	
45	Kallada - Edamon No.I	Dog	9.24	
46	Kallada - Edamon No.II	Dog	9.24	
47	Kaloor - Marine Drive	400 Sq.mm XLPE	3.85	
48	Kaniyampetta - Anchukunnu	AAAC	9.2	
49	Kaniyampetta - Kuthumunda	AAAC	14	
50	Kanjikode - Chittoor No.I	Dog	15.58	
51	Kanjikode - Chittoor No.II	Dog	15.58	
52	Kanjikode - ITI	Mink	0.36	
53	Kanjikode - MCL Quarry	Mink	23.45	
54	Karimanal - Kothamangalam	Copper	30.4	
55	Karuvatta - Mavelikkara	Dog	17.3	
56	Kochu Pampa - Sabarigiri	Dog	14.7	
57	Kochu Pampa - Thriveni No.I	Dog	12.1	
58	Kochu Pampa - Thriveni No.II	Dog	12.1	
59	Koothattukulam - Kuravilangad	Copper	12	
60	Kothamangalam - Idamalayar	Mink	23.3	
61	Kothamangalam - Koothattukulam	Copper	23	
62	Kothamangalam - Koothattukulam -T-Marady	Wolf	7.1	Tap Changed to LILO
63	Kothamangalam -Odakkali	Wolf	0.5	
64	Kunnamangalam - Kuttikkattoor	Dog	7.2	
65	Kunnamangalam - Thamarassery	Dog	15.8	
66	Kuravilangad - Ettumanur	Copper	8	
67	Kuthumunda - Thamarassery	Copper	19.3	
68	Kuthumunda - Uppatty (Inter state)	Mink	16.8	
69	Kuttanad - Alappuzha	Mink	13.8	
70	LA Complex - Powerhouse	400 Sq.mm XLPE	3.5	
71	LILO from Vytilla - Puthencruz No I to Thripunithura	400 Sq.mm XLPE	3	
72	Mala - Kodungallur	Mink	7.9	
73	Malankara - Thodupuzha	Dog	14.7	
74	Malappuram - Nilambur	Dog + Mink	34.38	
75	Malappuram-Mankada	Mink	10.708	
76	Mananthavadi - Anchukunnu	AAAC	9.7	
77	Mankada-Perinthalmanna	Mink	9.43	
78	Mankavu - Puthiyara	400 Sq.mm XLPE	3.2	
79	Mattanchery - Fort Kochi No.I	400 Sq.mm XLPE	4.2	
80	Mattanchery - Fort Kochi No.II	400 Sq.mm XLPE	4.2	
81	Mavelikkara - Karunagappally	Copper	36	
82	Mavelikkara - Nangiarkulangara	Dog	9.5	
83	Moolamattom - Malankara	Dog	16.54	
84	Moolamattom - Thodupuzha	Dog	29.7	
85	Mundakkayam - Peerumedu	Dog	13.5	
86	Mundayad - Sreekandapuram No.I	Dog	27.2	
87	Mundayad - Sreekandapuram No.II	Dog	27.2	
88	Nallalam - Kuttikkattoor	Copper	9.3	
89	Nallalam - Kuttikkattoor-T-CyberPark	Dog	0.3	
90	Nedumkandam - Kattappana	Wolf	15.8	
91	Nedumpoyil - Mananthavadi	Copper	29	

Table 35 -66 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
92	Neyyattinkara - Parassala No.II	Dog	10.2	
93	Neyyattinkara - Parassala No.II	Dog	10.2	
94	Nilambur - Edakkara	Wolf	12.75	
95	NPOL (Thrikkakara) - Vytilla	Tiger	8.52	
96	Odakkali-Aluva	Wolf	23.9	Tap Changed to LILO
97	OSSIGN - Mala	Mink	6.6	
98	Pallivasal - Aluva	Copper	81	
99	Pallivasal - Edathala	Copper	77	
100	Pallivasal - Karimanal	Copper	26.8	
101	Pallivasal - Kothamangalam	Copper	52	
102	Pallom - Chumathra	Dog	20	
103	Pallom - Kuttanad	Dog	18.54	
104	Pallom - Thiruvalla	Dog	22.75	
105	Pallom -Mundakkayam	Wolf/Dog	36.81	
106	Panampilly Nagar - Perumanoor	Dog	0.4	
107	Paruthippara - Balaramapuram	Mink	17.58	
108	Paruthippara - LA Complex	400 Sq.mm XLPE	4.3	
109	Paruthippara - TERLS	Dog	8.29	
110	Paruthippara - Vattiyookavu	Mink	8.13	
111	Paruthippara - Veli	Dog	10.91	
112	Pathanamthitta - Koodal	Mink	11.7	
113	Pathirappally - Cherthala	Tiger	17.1	
114	PCBL- Puthencruz	Dog	5.85	
115	Peerumedu - Vandiperiyar	Dog	11.5	
116	Perumanoor - Cochin Shipyard	400 Sq.mm XLPE	0.09	
117	Perumanoor - Marine Drive	400 Sq.mm XLPE	4.25	
118	Perumbavoor - Travancore Rayons No.I	Mink	1.3	
119	Perumbavoor - Travancore Rayons No.II	Mink	1.3	
120	Powerhouse - Thirumala	400 Sq.mm XLPE	6.8	
121	Punnapra - Alappuzha No.I	Dog	8.9	
122	Punnapra - Alappuzha No.II	Dog	8.9	
123	Punnapra - Karuvatta	Dog	16.7	
124	Punnapra - Nangiarkulangara	Dog	24.1	
125	Sasthamkotta - Karunagappally	Dog	13	
126	Sengulam - Pallivasal No.I	Copper	6.5	
127	Sengulam - Pallivasal No.II	Copper	6.5	
128	Sengulam- Vazhathope	Dog	22.4	
129	Tap No.I to Changanassery from PLCU feeder	Dog	0.1	
130	Tap No.I to Changanassery from PLCU feeder	Dog	0.03	
131	Tap No.I to HOC from VTPT No.I feeder	Dog	0.3	
132	Tap No.I to Karukutty from CHAN feeder	Mink	0.15	
133	Tap No.I to Perumbavoor from ALKM No.I feeder	Mink	1.8	
134	Tap No.I to TELK from CHAL feeder	Mink	0.35	
135	Tap No.II to Changanassery from PLTV feeder	Dog	0.03	
136	Tap No.II to HOC from VTPT No.II feeder	Dog	0.3	
137	Tap No.II to Karukutty from CHAL feeder	Mink	0.15	
138	Tap No.II to Perumbavoor from ALKM No.II feeder	Mink	1.8	
139	Tap No.II to TELK from CHAL feeder	Mink	1.35	
140	Tap No.II to TELK from CHAN feeder	Mink	0.35	
141	Tap to Ambalaparamba from KGKT feeder	Mink	13.6	
142	Tap to Aroor from VKCT feeder	Dog	13.8	
143	Tap to Carborandum from KLPR No.II feeder	Mink	2.6	
144	Tap to Cyber park from Nallalam - Kuttikkattoor	Wolf	0.225	
145	Tap to Edamula KRL Pumphouse from KLAL II feeder	Dog	1.9	
146	Tap to Eranakulam North I from KLNJ No.I feeder	Dog	4.96	
147	Tap to Gwalior Rayons from Ambalaparamba Tap line	Mink	0.6	
148	Tap to HMT from KLVT feeder	Mink	0.37	
149	Tap to INDSIL from KJCI No.I feeder	Dog	0.1	

Table 35 -66 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
150	Tap to Iruttukanam PH from PVKR feeder	Wolf	1.25	
151	Tap to Kanjarppally from PLMD feeder	Dog	0.79	
152	Tap to Kannampully VNNM feeder	Mink	0.05	
153	Tap to Koothattukulam from MLTD feeder	Mink	11.3	
154	Tap to Kottayam from ETPL feeder	Dog	0.3	
155	Tap to Kulamavu from IDVZ feeder	Mink	1.35	
156	Tap to Madura Coats from CHAL feeder	Copper	0.85	
157	Tap to Mankavu from NLKT feeder	Dog	1.98	
158	Tap to Mulavukad from KLNJ No.II feeder	Dog	0.1	
159	Tap to Nangiarkulangara from KVMV feeder	Dog	0.01	
160	Tap to PRECOT Mills from VNKJ No.I feeder	Dog	1	
161	Tap to SEPR from KJMQ feeder	Mink	1.1	
162	Tap to Sulthan Bathery from KNKU feeder	Mink	20.5	
163	Tap to Thrissur Municipality from VIOL feeder	Dog	2.1	
164	Tap to Vizhinjam from PPBL feeder	Mink	10	
165	TERLS - Veli	240 Sq.mm XLPE	4.8	
166	Thirumala - Balaramapuram	Mink	8.89	
167	Thiruvalla - Mavelikkara I	Dog	18.25	
168	Thiruvalla - Mavelikkara II	Dog	18.25	
169	Thripunithura -Puthen cruz		1	
170	Vaikom - Cherthala	Dog	22.9	
171	Vaikom - Ettumanur	Dog	21	
172	Vandiperiyar - Kochu Pampa	Dog	21.8	
173	Vattiyoorkavu - Thirumala	Mink	7.08	
174	Vazhathope - Nedumkandam	Dog/Wolf	25.1	
175	Veli - Airport No.I	240 Sq.mm XLPE	4.3	
176	Veli - Airport No.II	240 Sq.mm XLPE	4.3	
177	Veli-TTPL	XLPE UG	0.705	
178	Vennakkara - Kanjikode No.I	Dog	12.97	
179	Vennakkara - Kanjikode No.II	Dog	12.97	
180	Vennakkara - Nemmara	Mink	20.94	
181	Vennakkara-Kanjikode Tap-Palakkad Medical college (Chandra Nagar)	Mink	4.4	
182	Vyttila - Panampilly Nagar	Dog	3	
183	Vyttila - PCBL	Dog	15.35	
184	Vyttila - Perumanoor	Dog	3.4	
185	Vyttila - Puthencruz No.I	Dog	17.5	
186	Vyttila -Thripunithura	Dog	5	
	Total		2145.33	
V. 33 kV Lines				
1	Agastyamoozhi - Thambalamanna No.I	Dog	8.6	
2	Agastyamoozhi - Thambalamanna No.II	Dog	8.6	
3	Agastyamoozhi - Vellannur	Dog	8.3	
4	Ambalappuram - Chengamanad	Dog	12.5	
5	Ambalappuram - Ezhukone	Dog	4.6	
6	Ambalappuram - Pooyappally	Dog	11.2	
7	Ambalappuram - Puthur (Kollam)	Dog	10.4	
8	Anchangady - Methala	Dog	9.6	
9	Athani - Erumappetty	Dog	13	
10	Athani - Mundoor	Dog	8	
11	Attingal - Kadakkavur	Dog	11	
12	Attingal - Venjaramoodu	Dog	10.4	
13	Attingal -Katchery	UG	4.8	
14	Azhikode - Kannur Town	Dog	5.3	
15	Chalakydy - Kallettumkara	Dog	11.8	
16	Chalakydy - Koratty	Dog	6.9	
17	Chalakydy - Pariyaram (Thrissur)	Dog	7.8	
18	Chalakydy - Vellikulangara	Dog	12.9	
19	Chavakkad - Blangad	Dog	6.8	
20	Chelari - KINFRA No.I	Dog	2.5	
21	Chelari - KINFRA No.II	Dog	2.5	
22	Chembukadavu-II PH - Chembukadavu-I PH	Dog	1.1	

Table 35 -33 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
23	Chengannur - Mannar	Dog	11.3	
24	Cherpu - Chirakkal	Dog	5.8	
25	Cherpu - Palakkal	Dog	5.4	
26	Cheruvathur - Thrikkarippur	Dog	11.2	
27	Cheruvathur - West Elery	Dog	17.5	
28	Edappon-Pandalam	Dog	7.6	
29	Edarikode - Kooriyad (Kakkad)	Dog	8	
30	Edarikode - Othukungal	Dog	8.1	
31	Edarikode - Thirunavaya	Dog	23	
32	Edathua-Kadapra	Dog	9.2	
33	Edavanna - Wandoor	Dog	12.5	
34	Guruvayoor - Chavakkad	Dog	6.7	
35	Irinjalakuda - Parappukara No.I	Dog	11.6	
36	Irinjalakuda - Parappukara No.II	Dog	11.6	
37	Irinjalakuda - Vellangallur	Dog	6.5	
38	Iritty-Barapole 1	UG	15	
39	Iritty-Barapole 2	UG	15	
40	Kadathuruthi-Kallara	Dog	7.95	
41	Kaipamangalam - Anchangady No.I	Dog	8.6	
42	Kaipamangalam - Anchangady No.II	Dog	8.6	
43	Kaloor - Lulu Mall No.I	300 Sq.mm XLPE	5.38	
44	Kaloor - Lulu Mall No.II	300 Sq.mm XLPE	5.38	
45	Kaloor - Lulu Mall No.III	300 Sq.mm XLPE	5.38	
46	Kaloor -Metro II	UG	0.22	
47	Kaloor-Thammanam I	UG	4.125	
48	Kaloor-Thammanam II	UG	4.125	
49	Kandassankadavu - Mullassery	Dog	7.6	
50	Kandassankadavu - Vadanappilly	Dog	4.2	
51	Kanhangad - Belur	Dog	11.5	
52	Kanhangad - Neeleswaram	Dog	10.5	
53	Kanhangad - Kanhangad Town	Dog	6.85	
54	Kanhirode - Kuttiyattoor	Dog	8.9	
55	Kanhirode - Pazhassi	Dog	18.7	
56	Kaniyampetta - Kalpetta	Dog	10.8	
57	Kaniyampetta - Meenangadi	Dog	11.5	
58	Kaniyampetta - Padinjarethara	Dog	17.8	
59	Kaniyampetta - Pulpally	Dog	26	
60	Kayamkulam - Oachira	Dog	11	
61	Keezhissery - Chelari	Dog	14	
62	Keezhissery - Edavanna	Dog	19	
63	Keezhissery - Valluvambram	Dog	8	
64	Kilimanoor - Kadakkal	Dog	9.5	
65	Kilimanoor - Kallambalam	Dog	15	
66	Kollenkode - Koduvayur	Dog	11.7	
67	Kollenkode - Muthalamada	Dog	9.7	
68	Kollenkode - Nelliampathy	Dog	9.5	
69	Kollenkode - Pallassena	Dog	8	
70	Koottanad - Chalissery	Dog	4.5	
71	Koottanad - Thrithala	Dog	5.3	
72	Koppam - Pattambi	Dog	10.1	
73	Koppam - Thazhekode	Dog	18	
74	Koppam - Thiruvegappura	Dog	13.2	
75	Kottiyam - Adichanallur	Dog	10	
76	Kottiyam - Kannanallur	Dog	8	
77	Kottiyam - Paravoor	Dog	4.7	
78	Koyilandi - Balussery	Dog	12.5	
79	Kozhinjampara - Meenakshipuram	Dog	16	
80	Kozhinjampara - Vannamada	Dog	4	
81	Kozhinjampara - Velanthavalam	Dog	9.2	
82	Kunnamkulam - Kongannur	Dog	9.4	
83	Kurumassery - Puthenvelikkara	Dog	7.2	

Table 35 -33 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
84	Kurumassery 110 - Kurumassey 33	Dog	1.2	
85	Kurumassery-Annamanada	Dog	9.1	
86	Kuthunkal-Senapathy	Dog	16.79	
87	Kuttiapuram - Thirunavaya	Dog	16.5	
88	Kuttiapuram - Vairamkode	Dog	11	
89	Kuttiyadi - Poozhithodu PH	Dog	14	
90	Makkaraparamba - Pulamanthole	Dog	16	
91	Malappuram - Makkaraparamba	Dog	8.7	
92	Malappuram - Valluvambram	Dog	11.3	
93	Malayattoor - Kalady	Dog	6.3	
94	Malayattoor - Koovapady	Dog	4.2	
95	Mallappally - Karukachal	Dog	7.1	
96	Mallappally - Kumbanad	Dog	10.5	
97	Mannarkkad - Agali No.I	Dog	28.5	
98	Mannarkkad - Agali No.II	Dog	28.5	
99	Mannarkkad - Alanellur	Dog	16.2	
100	Mattannur - Kuyiloor (KWA) No.I	Dog	4.6	
101	Mattannur - Kuyiloor (KWA) No.II	Dog	4.6	
102	Mattannur -KIAL	UG	12.4	
103	Medical College,TVPM-Pattoor	UG	3.3	
104	Melattur - Thazhekcode	Dog	23	
105	Melattur - Wandoor	Dog	18.7	
106	Meppayur - Melady	Dog	9.4	
107	Meppayur-Perambra	Dog	8	
108	Moovattupuzha - Kalloorkkad	Dog	14	
109	Moovattupuzha - Mazhuvannur	Dog	4.8	
110	Mulleria - Badiyadka	Dog	12.5	
111	Mulleria - Perla	Dog	15.8	
112	Mulloorkara - Chelakkara	Dog	8.4	
113	Mundakkayam - Kootikkal	Dog	8.09	
114	Mundayad - Puthiyatheru	Dog	6.5	
115	Mundayad - Thottada	Dog	8.8	
116	Nadukani - Alakode	Dog	16.7	
117	Nallalam-Feroke	Dog	7.5	
118	Nedumangad - Chullimanur	Dog	5.8	
119	Nedumangad - Vithura No.I	Dog	12.6	
120	Nedumangad - Vithura No.II	300 sq.mm XLPE	12.6	
121	Nedumangad - LPSC	UG	5.1	
122	Nedumangad-Aryanadu (10.03+0.45)	Dog+UG	10.48	
123	Nedumkandam - Ramakkalmedu No.I	Dog	8	
124	Nedumkandam - Ramakkalmedu No.II	Dog	8	
125	Nilambur - Adyanpara SC line	Dog	13.5	
126	Nilambur - Pookkottumpadam	Dog	7.8	
127	North Parur - Alangad	Dog	9	
128	North Parur - Vadakkekara	Dog	9.3	
129	North Parur - Varappuzha	Dog	8.5	
130	Ollur - Pattikkad	Dog	16	
131	Ollur - Puthur (Thrissur)	Dog	4.3	
132	Pala - Kidangoor	Dog	9.6	
133	Pala - Paika	Dog	10	
134	Pala - Ramapuram	Dog	10	
135	Panoor - Kodiyeeri	Dog	6.5	
136	Panoor - Puthur (Kannur)	Dog	8.9	
137	Parali - Kongad	Dog	12	
138	Parali - Maniyampara	Dog	8	
139	Parali - Sreekrishnapuram	Dog	30	
140	Parassala - Poovar	Dog	15.5	
141	Parassala - Vellarada	Dog	14.5	
142	Pathanamthitta - Konny	Dog	8.3	
143	Pathanamthitta - Ranni Perinad	Dog	18.6	
144	Payyannur - Payyannur Town	Dog	5.3	

Table 35 -33 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
145	Peerumedu - Upputhara	Dog	21.5	
146	Peerumedu - Vagaman	Dog	17	
147	Perumbavoor - Kurupampady	Dog	8.5	
148	Perumbavoor - Vengola	Dog	4.8	
149	Pinarayi - Dharmadom	Dog	5.5	
150	Pinarayi - Tholambra	Dog	31.7	
151	Pinarayi - Thottada	Dog	10.5	
152	Punnapra - Thakazhy	Dog	11.4	
153	Ranni-Manimala	Dog	18.5	
154	Solar Park Ambalathara-Kanhangad	Dog	12.4	
155	Tap line from Negumangad-Vithura	Dog	0.82	
156	Tap to Alanellur from METZ feeder	Dog	6	
157	Tap to Pulamanthole from KPTZ feeder	Dog	2	
158	Tap to Ramanattukara from CLRA No.I feeder	Dog	5.92	
159	Thaliparamba - Nadukani No.I	Dog	12.5	
160	Thaliparamba - Nadukani No.II	Dog	12.5	
161	Thaliparamba - Pariyaram (Kannur)	Dog	9.2	
162	Thambalamanna - Chembukadavu-II PH	Dog	11	
163	Thambalamanna - Urumi	Dog	5.3	
164	Thirumala - Karamana	300 sq.mm XLPE	4.5	
165	Thirumala - Peyad	300 sq.mm XLPE	7	
166	Thirunavaya - Thrikkannapuram (Thavanur)	Dog	3.1	
167	Thrikodithanam - Vakathanam	300sq.mmXLPE+Dog	8.7	
168	Thycattussery - Kuthiyathodu No.I	Dog	6	
169	Thycattussery - Kuthiyathodu No.II	Dog	6	
170	Udumpannoor - Vannapuram	Dog	17	
171	Urumi - Urumi-II PH	Dog	0.2	
172	Urumi-II PH - Urumi-I PH	Dog	0.82	
173	Vadakara - Thiruvallur	Dog	9.6	
174	Vadakkenchery - Alathur	Dog	13.6	
175	Vadakkenchery - Chittadi	Dog	12.5	
176	Vadakkenchery - Tarur	Dog	11	
177	Vaikom - Kaduthuruthy No.I	Dog	10	
178	Vaikom - Kaduthuruthy No.II	Dog	10	
179	Valappad - Anthikadu No.I	Dog	6.2	
180	Valappad - Anthikadu No.II	Dog	6.2	
181	Valappad - Kaipamangalam No.I	Dog	10.7	
182	Valappad - Kaipamangalam No.II	Dog	10.7	
183	Vandiperiyar -Kumily	Kunda	13	
184	Vennakkara- Palakkad Vydyhuthi Bhavan	Dog(3.5)/UG(1.5)	5	
185	Vidyanagar - Ananthapuram	Dog	9.3	
186	Vidyanagar-Kasargod Town	3.5(OH)+2(UG)	5.5	
187	Vilangad HEP-Nadapuram	300 Sq.mm XLPE	14.5	
188	Vithura - IISER	300 sq.mm XLPE	13.4	
189	Viyyur - Parappur No.I	Dog	13	
190	Viyyur - Parappur No.II	Dog	13	
191	Viyyur - Poomala	Dog	11	
192	Wadakkanchery - Mulloorkara	Dog	7.5	
193	Wandoor - Kalikavu	Dog	14	
	33 kV lines Total		1957.43	
	Grand Total (excl. PGCIL owned 400 kV lines)		11800.18	

TABLE 36

COST PER UNIT SENT OUT

(All figures in Ps.)

Sl. No	Year	At Generation end		At Transmission end		At Distribution LT side	
		<i>Including interest charges</i>	<i>Excluding interest charges</i>	<i>Including interest charges</i>	<i>Excluding interest charges</i>	<i>Including interest charges</i>	<i>Excluding interest charges</i>
1	1999-00	47.70	23.07	125.01	95.13	211.05	156.87
2	2000-01	64.84	34.26	183.36	149.66	286.17	223.75
3	2001-02	220	195	251	210	341	281
4	2002-03	262	254	319	266	417	352
5	2003-04	284	255	330	279	422	400
6	2004-05	217	195	260	220	347	289
7	2005-06	193	175	233	201	352	304
8	2006-07	179	173	213	202	368	336
9	2007-08	207	202	243	234	393	369
10	2008-09	321	321	349	347	474	447
11	2009-10	291	291	320	319	457	438
12	2010-11	289	289	321	319	472	466
13	2011-12	305	301	332	326	493	455
14	2012-13	487	480	515	501	666	632
15	2013-14	417	408	446	428	659	614
16	2014-15	382	379	422	416	625	578
17	2015-16	357	354	393	388	586	542
18	2016-17	413	410	448	443	659	613
19	2017-18	339	332	394	377	637	569
20	2018-19	60	42	398	389	653	618

TABLE 37

FIVE YEAR PLAN TARGET AND ACHIEVEMENT

Sl. No.	Description of work	Target for 12 th Plan 2012-17	Achievement					Target for 13 th Plan 2017-22	Achievement		
			2012-13	2013-14	2014-15	2015-16	2016-17		Total	2017-18	2018-19
	A. GENERATION										
1	Hydro Electric Projects (MW)	248.05	2.86	10.5	18.55	22	3.6	57.51	249	18.511	3
2	Wind Projects (MW)	-	-	-	-	8.4	-	8.40	25	17	-
3	Co-generation Projects (MW)	-	-	-	-	-	-	-	-	-	-
4	Gas based project (MW)	350.00	-	-	-	-	-	-	-	-	-
5	Solar projects (MW)	-	-	-	-	14.16	53.92	68.07	500	44.25	24.63
	Total	598.05	2.86	10.50	18.55	44.56	57.52	133.98	774.00	79.76	27.63
	B. TRANSMISSION										
1	400 kV Substations (Nos)								1	0	0
2	220 kV Substations (Nos)	9	1	-	1	-	-	2.00	22	2	0
3	110 kV Substations (Nos)	60	1	5	1	8	3	18.00	72	6	3
4	66 kV Substations (Nos)	12	1	1	-	3	-	5.00	9	3	1
5	33 kV Substations (Nos)	47	8	4	1	3	7	23.00	34	5	5
6	400 kV Lines (Ckt-km)								178	0	0
7	220 kV Lines (km)	227	26.87	-	36.2	0.68	-	63.75	845.37	54.1	0
8	110 kV Lines (km)	1216	27.55	112.59	39.4	66.60	67.66	313.80	2004.98	79.76	134.2
9	66 kV Lines (km)	20	4.60	-	0	6	-	10.60	425.9	0.44	29.5
10	33 kV Lines (km)	600	64.90	71.44	42.29	66.79	75.77	321.19	827.46	41.08	60.9
	C. DISTRIBUTION										
1	Service Connections (Nos)	2,108,130	403,421	415,216	422,238	381,247	462,482	2,084,604	1,138,977	353,642	368,673
2	HT lines – 11 kV & 22 kV (km)	15,855	1,579	1,884	1,807	2,022	1,846	9,138	12,661	1,744	1,773
3	LT lines (km)	26,900	3,066	3,735	4,636	3,312	5,358	20,107	8,537	3,130	3,401
4	Distribution Transformers (Nos)	18,543	2,643	3,200	3,547	2,389	2,271	14,050	6,249	2,353	2,410
5	Faulty Meter Replacement (Nos)	4,531,316	651,072	1,039,790	840,691	660,735	469,285	3,661,573	3,835,927	1,237,110	837,858

TABLE 38**ALL INDIA INSTALLED GENERATION CAPACITY(MW) OF POWER UTILITIES (Sector wise)**

As on 31-3-2019

Region	Sector	Source wise breakup								Total
		Thermal					Nuclear	Hydro	Renewable *	
		Coal	Lignite	Gas	Diesel	Total				
Northern Region	State	16344.00	250.00	2879.20	0.00	19473.20	0.00	8697.55	699.56	28870.31
	Private	21680.83	1080.00	558.00	0.00	23318.83	0.00	2514.00	13120.46	38953.29
	Central	12335.37	250.00	2344.06	0.00	14929.43	1620.00	8496.22	379.00	25424.65
	Sub Total	50360.20	1580.00	5781.26	0.00	57721.46	1620.00	19707.77	14199.02	93248.25
Western Region	State	21560.00	1040.00	2849.82	0.00	25449.82	0.00	5446.50	547.89	31444.21
	Private	34745.67	500.00	4676.00	0.00	39921.67	0.00	481.00	21864.76	62267.43
	Central	16502.95	0.00	3280.67	0.00	19783.62	1840.00	1620.00	666.30	23909.92
	Sub Total	72808.62	1540.00	10806.49	0.00	85155.11	1840.00	7547.50	23078.95	117621.56
Southern Region	State	19932.50	0.00	791.98	287.88	21012.36	0.00	11774.83	586.88	33374.07
	Private	11874.50	250.00	5322.10	273.70	17720.30	0.00	0.00	37491.40	55211.70
	Central	11235.02	2890.00	359.58	0.00	14484.60	3320.00	0.00	541.90	18346.50
	Sub Total	43042.02	3140.00	6473.66	561.58	53217.26	3320.00	11774.83	38620.18	106932.27
Eastern Region	State	6240.00	0.00	100.00	0.00	6340.00	0.00	3537.92	275.11	10153.03
	Private	6387.00	0.00	0.00	0.00	6387.00	0.00	399.00	1116.37	7902.37
	Central	14836.64	0.00	0.00	0.00	14836.64	0.00	1005.20	10.00	15851.84
	Sub Total	27463.64	0.00	100.00	0.00	27563.64	0.00	4942.12	1401.48	33907.24
North Eastern Region	State	0.00	0.00	497.71	36.00	533.71	0.00	422.00	233.25	1188.96
	Private	0.00	0.00	24.50	0.00	24.50	0.00	0.00	61.04	85.54
	Central	770.02		1253.60	0.00	2023.62	0.00	1005.00	30.00	3058.62
	Sub Total	770.02	0.00	1775.81	36.00	2581.83	0.00	1427.00	324.29	4333.12
Islands	State	0.00	0.00	0.00	40.05	40.05	0.00	0.00	5.25	45.30
	Private	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.38	7.38
	Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.10	5.10
	Sub Total	0.00	0.00	0.00	40.05	40.05	0.00	0.00	17.73	57.78
ALL INDIA	State	64076.50	1290.00	7118.71	363.93	72849.14	0.00	29878.80	2347.94	105075.88
	Private	74688.00	1830.00	10580.60	273.70	87372.30	0.00	3394.00	73661.41	164427.71
	Central	55680.00	3140.00	7237.91	0.00	66057.91	6780.00	12126.42	1632.30	86596.63
	Total	194444.50	6260.00	24937.22	637.63	226279.35	6780.00	45399.22	77641.65	356100.22

Fig at decimal may not tally due to rounding off

***Break up of Renewables**

Small Hydro	Wind	Bio Power		Solar	Total capacity
		BM Power /Co-gen	Waste to Energy		
4593.15	35625.97	9103.50	138.30	28180.71	77641.63

Source -CEA Annual Report 2018-19

TABLE 39**ALL INDIA INSTALLED GENERATION CAPACITY (MW) OF POWER UTILITIES (State wise)**

In MW

As on 31-3-2019

State / UT / Utilities	Source wise breakup								Total
	Thermal					Nuclear	Hydro	Renewable	
	Coal	Lignite	Gas	Diesel	Total				
Delhi	4116.94	0.00	2115.41	0.00	6232.35	102.83	723.09	178.89	7237.16
Haryana	8095.50	0.00	685.61	0.00	8781.11	100.94	1966.52	419.42	11267.99
Himachal Pradesh	183.40	0.00	62.01	0.00	245.41	28.95	2910.48	883.29	4068.13
Jammu & Kashmir	506.39	0.00	304.07	0.00	810.46	67.98	2321.88	193.86	3394.18
Punjab	7730.08	0.00	414.01	0.00	8144.09	196.81	3809.12	1282.42	13432.44
Rajasthan	10018.25	1580.00	824.90	0.00	12423.15	556.74	1939.19	7669.66	22588.74
Uttar Pradesh	17979.72	0.00	549.49	0.00	18529.21	289.48	3368.63	2942.70	25130.02
Uttarakhand	442.24	0.00	519.66	0.00	961.90	31.24	1815.69	594.07	3402.90
Chandigarh	38.15	0.00	15.03	0.00	53.18	8.01	101.71	34.71	197.61
Central unallocated	1249.53	0.00	291.05	0.00	1540.58	237.03	751.45	0.00	2529.06
Total Northern Region	50360.2	1580	5781.24	0	57721.44	1620.01	19707.76	14199.02	93248.23
Goa	469.59	0.00	67.67	0.00	537.26	26.00	0.00	3.97	567.23
Daman & Diu	141.41	0.00	43.34	0.00	184.75	7.00	0.00	14.47	206.22
Gujarat	14218.10	1540.00	6561.82	0.00	22319.92	559.00	772.00	8639.80	32290.72
Madhya Pradesh	14916.38	0.00	357.00	0.00	15273.38	273.00	3223.66	4564.36	23334.40
Chattisgarh	13240.75	0.00	0.00	0.00	13240.75	48.00	220.00	535.35	14044.10
Maharashtra	27293.80	0.00	3512.73	0.00	30806.53	690.00	3331.84	9315.53	44143.90
Dadra & Nagar Haveli	195.60	0.00	66.34	0.00	261.94	9.00	0.00	5.46	276.40
Central unallocated	2333.00	0.00	197.59	0.00	2530.59	228.00	0.00	0.00	2758.59
Total Western Region	72808.63	1540	10806.49	0	85155.12	1840	7547.5	23078.94	117621.56
Andhra Pradesh	10430.71	127.73	4048.58	36.8	14643.82	127.27	1673.6	7739.6	24184.29
Telangana	8228.8	149.27	831.82	0	9209.89	148.73	2479.93	3987.66	15826.21
Karnataka	9406.3	401.4	0	153.12	9960.82	698	3586.6	13829.79	28075.21
Kerala	1476.42	281.8	533.58	159.96	2451.76	362	1856.5	413.11	5083.37
Tamilnadu	11932.99	1614.2	1027.18	211.7	14786.07	1448	2178.2	12646.88	31059.15
NLC	0	100	0	0	100	0	0	0	100
Pondicherry	140.8	107.6	32.5	0	280.9	86	0	3.14	370.04
Central unallocated	1426	358	0	0	1784	450	0	0	2234
Total Southern Region	43042.02	3140	6473.66	561.58	53217.26	3320	11774.83	38620.18	106932.27

Table 39 continued

Bihar	4130.33	0	0	0	4130.33	0	110	326.15	4566.48
Jharkhand	1543.74	0	0	0	1543.74	0	191	39	1773.74
West Bengal	8597.77	0	100	0	8697.77	0	1396	474.45	10568.22
DVC	6985.04	0	0	0	6985.04	0	186.2	0	7171.24
Odisha	4992.9	0	0	0	4992.9	0	2150.92	509.76	7653.58
Sikkim	87.03	0	0	0	87.03	0	823	52.12	962.15
Central unallocated	1126.83	0	0	0	1126.83	0	85.01	0	1211.84
Total Eastern Region	27463.64	0	100	0	27563.64	0	4942.13	1401.48	33907.25
Assam	408.52	0	788.27	0	1196.79	0	457.08	56.51	1710.38
Arunachal Pradesh	37.05	0	46.82	0	83.87	0	116.55	136.5	336.92
Meghalaya	45.6	0	109.69	0	155.29	0	394.27	32.65	582.21
Tripura	56.1	0	606.45	0	662.55	0	68.49	21.1	752.14
Manipur	47.1	0	71.57	36	154.67	0	95.34	8.89	258.9
Nagaland	32.1	0	48.93	0	81.03	0	57.33	31.67	170.03
Mizoram	31.05	0	40.46	0	71.51	0	97.94	36.97	206.42
Central unallocated	112.5	0	63.62	0	176.12	0	140	0	316.12
Total North Eastern Region	770.02	0	1775.81	36	2581.83	0	1427	324.29	4333.12
Andaman & Nicobar Island	0	0	0	40.05	40.05	0	0	16.98	57.03
Lakshadweep	0	0	0	0	0	0	0	0.75	0.75
Total Islands	0	0	0	40.05	40.05	0	0	17.73	57.78
GRAND TOTAL	194444.51	6260	24937.2	637.63	226279.34	6780.01	45399.22	77641.64	356100.21

Fig at decimal may not tally due to rounding off

Source: CEA Annual Report 2018-19