



POWER SYSTEM STATISTICS

2019-20

Kerala State Electricity Board Limited

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TABLE 1
GROWTH OF KERALA POWER SYSTEM

Sl. No.	Particulars	Unit	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	As on 31-3-20
1	Installed capacity	MW	2752.96	2869.56	2878.36	2881.22	2891.72	2835.63	2880.18	2915.80	2975.56	2866.19	2916.15
2	Maximum demand (Restricted)	MW	2998	3119	3348	3268	3588	3602	3860	4004	3884	4242	4316
3	Maximum demand (Unrestricted)	MW	2998	3119	3473	3298	3588	3727	3985	4079	3910	4242	4316
4	Annual energy requirement (Unrestricted)	MU	17350.02	17807.77	19521.41	20736.19	21264.51	22040.04	22944.45	23849.54	24432.96	24958.23	26288.45
5	Own generation	MU	7189.51	7359.97	8289.91	5334.27	8163.03	7286.90	6739.25	4325.08	5460.34	7577.02	5722.81
6	Power purchase (gross)	MU	10204.21	10512.27	11263.21	14908.82	14070.42	15031.71	16448.36	19734.93	19426.74	18761.47	21128.51
7	Energy available for sale Excl. PGCIL loss	MU	16982.29	17340.27	18938.81	19877.21	20542.49	21573.16	22727.34	23763.58	24340.79	24849.16	26226.09
8	Energy sale to other states	MU	53.90	130.24	201.10	0.97	1414.60	358.09	53.48	49.30	117.51	824.78	55.95
9	Energy sale (within the state)	MU	13971.09	14547.90	15980.53	16838.29	17470.86	18430.73	19460.32	20452.91	21159.19	21750.25	23058.92
10	Total sale including export	MU	14024.99	14678.14	16181.63	16839.26	18885.46	18788.82	19513.80	20502.21	21276.70	22575.03	23114.87
11	Per capita consumption	kWh	420	436	478	499	516	541	569	592	613	626	657
12	400kV lines(KSEBL owned)	Ckt km											92.00
13	220 kV Lines	Ckt km	2734.70	2734.70	2734.70	2761.57	2765.00	2801.20	2801.88	2801.88	2856.88	2952.34	2952.66
14	110 kV Lines	Ckt km	4115.89	4150.11	4151.00	4178.55	4260.27	4299.67	4345.52	4460.75	4521.50	4745.08	4797.75
15	66 kV Lines	Ckt km	2161.91	2161.91	2161.91	2166.51	2202.81	2202.81	2220.56	2154.75	2151.12	2145.33	2000.75
16	33 kV Lines	Ckt km	1390.20	1453.80	1534.80	1599.70	1719.28	1761.57	1826.66	1902.43	1943.51	1957.43	2057.49
17	HT lines (11 kV & 22 kV)	km	44,839	48,503	51,489	53,068	53,740	55,547	57,650	59,496	59,457	61014	62751
18	LT lines	km	2,49,687	2,56,449	2,60,554	2,63,620	2,68,753	2,68,753	278574	283,811	286,784	289,804	293,280
19	Step up transformer capacity	MVA	2,472.20	2,594.40	2,605.40	2,612.00	2,615.00	2659	2691.05	2699.05	2707.05	2717.35	2917.35
20	Step down transformer capacity **	MVA	15,726	16,660	16,996	17,408	17,913	18,461	18,779	19143.4	20499	21216	21578
21	EHT substations	No.	229	235	238	241	244	244	250	256	265	257	263
22	33 kV substations	No.	107	114	121	129	133	134	137	146	151	154	159
23	Distribution transformers	No.	52,149	57,954	62,329	64,972	67,546	71,195	73,460	75,580	77724	79876	81470
24	Distribution transformer capacity	MVA	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	9915
25	Number of consumers	Lakh	97.43	101.28	104.58	108.07	111.93	114.31	116.68	119.95	122.76	125.52	128.26
26	Connected load	MW	15,866.55	16,681.85	17,518.42	18,523.51	19,684.15	20391.53	20980.82	22040.62	23352.03	24940	26843
27	Street lights	No.	11,48,220	12,02,988	12,18,610	12,57,285	12,97,480	13,49,101	14,07,024	1412689	1417639	1422764	1447820
28	Irrigation pump sets	No.	4,37,877	4,46,460	4,55,078	4,66,289	4,78,449	4,90,056	5,00,082	512339	525367	538918	552858
29	Total revenue from sale of power	Rs.Crore	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	14,056.75

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

Sl. 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	5th Year	1st Year	2nd Year	3rd 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	2019-20
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	59.96
2	400kV line (Ckt km)												0	92
3	220 kV line (Ckt km)	1.01	0	18.26	0	0	26.87	0	36.2	0.68	0.00	54.10	0.00	73.18
4	110 kV line (Ckt 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	235.24
5	66 kV line (Ckt km)	11.13	0	0	0	0	4.60	36	0	6.00	0.00	0.44	29.50	0.00
6	33 kV line (Ckt km)	105.44	169.57	205.42	63.6	81	64.90	71.44	42.29	66.79	75.77	41.08	60.90	100.06
7	11 kV line (km)	1816	3048	3398	3659	2986	1579	1884	1807	2022	1844	1744.11	1773	1939
8	LT Lines (km)	8158	7563	7838	6762	4105	3066	3735	4636	3312	5357.00	3129.73	3401	3689
9	Step up transformer capacity (MVA)	0	38.2	6.6	122.2	11	6.60	3	44	32	8.00	8.00	10.30	200.00
10	No. of EHT substations including up gradation	6	2	11	6	3	3	6	2	11	3	11	4	12
11	No. of 33 kV substations	14	16	18	7	7	8	4	1	3	7	5	5	6
12	Step down transformer capacity (MVA)	469	385	1095	934	336	412	505	547.9	318	280.5	1355.2	716.7	362
13	No. of distribution transformers	2553	4109	5790	5805	4375	2643	3200	3547	2389	2271	2353	2410	2023
14	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	211.1
15	Service connections effected	482766	442895	447817	442889	413682	403421	415216	422238	381247	465531	353642	368673	380584
16	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	1902.7
17	Street lights installed (Nos.)	49448	37641	61532	54768	15622	38675	40195	51621	57923	5665	4950	5125	25056
18	Pump sets connected (Nos.)	5285	9213	6132	8583	8618	11211	12160	11607	10026	12257	13028	12686	13940

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 Equipment 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

Table-4 contd..

Sl.	Name of Station	Unit Capacity	Date of Commissioning		Station Capacity	Annual Generation	Design PLF
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
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	4.00	
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	1035.60	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

Table-4 contd..

Sl.	Name of Station	Unit Capacity	Date of Commissioning		Station Capacity	Annual Generation	Design PLF
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	0.55	18.00
9	Kollengode Substation	1.00	08.08.2016	NA	1.0000	1.67	19.00
10	Padinjarethara Dam Top	0.44	29.08.2016	NA	0.4400	0.73	19.00
11	Moozhiyar RT	0.13	31.08.2016	NA	0.1250	0.19	17.00
12	Edayar Substation premises	1.25	05.09.2016	NA	1.2500	2.09	19.00
13	Barapole Canal bank	1.00	07.11.2016	NA	1.0000	1.67	19.00
14	Barapole Canal top	3.00	17.11.2016	NA	3.0000	5.01	19.00
15	KDPP,Kozhikode	0.035	10.03.2017	NA	0.0350	0.06	18.00
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	0.4600	0.46	11.39
21	Pezhayikkappalli	1.25	15.01.2018	NA	1.2500	1.76	16.00
22	Pothencode SS	2.00	02.02.2018	NA	2.0000	2.81	16.00
23	Roof Top KSEBL Transmission Wing Buildings (27 nos.)	0.91	28.02.2018	NA	0.9100	1.02	12.82
24	Poringalkuthu Screw generation	0.01	06.02.2016	NA	0.0100	0.01	17.00
25	S/s Ponnani	0.50	16.01.2019	NA	0.5000	0.83	19.00
26	S/s Kottiyam	0.60	27.01.2020	NA	0.6000	1.00	19.00
27	Floating solar	0.50	2.2019	NA	0.5000	0.75	17.00
28	IPDS(South&Central),24 locations	0.50	2019	NA	0.50	0.75	17.00
29	Peerumedu	0.50	23.04.2018	NA	0.50	0.83	19.00
30	DDG Palakkad, 7 tribal Colonies(offgrid)	0.07	2017	NA	0.07	0.09	14.00
Total					17.34	26.97	
PART D - 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	Pampumkayam (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	255.31	
PART E - 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			
4	Phillips Carbon Black Ltd* (Co-generation plant)	52	31.03.2011	NA	10.0000	70.08	-
Total					10.0000	70.08	

Table-4 contd..

Sl.	Name of Station	Unit Capacity	Date of Commissioning		Station Capacity	Annual Generation	Design PLF
PART F - 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	32.54	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	37.58	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	16.23	22
4	INOX	8x2 MW		NA	16.0000	30.92	22
5	Kosamattom	1X1 MW		NA	1.0000	1.67	19
6	Malayala Manorama	5x2 MW	28.4.2019	NA	10.0000	20.20	23
Total					68.2500	139.1473	
PART G - PRIVATE SOLAR							
1	Cochin International Airport Ltd. (Prosumer)	38.44 MW	24.03.2018	NA	38.4400	60.78	18
2	Solar park, Ambalathara	4 MW	14.12.2016	NA	50.0000	79.06	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		2.0000	3.16	18
4	Hindalco (Prosumer)	1MW	31.03.2016		1.0000	1.58	18
5	KMRL	5.395 MW	21.07.2019		5.3950	9.00	19
6	Grid Connected Prosumer	MW	As on 31.3.2020		70.23	104.87	17
7	Off Grid Solar Prosumers	MW	As on 31.3.2020		2.51	3.75	17
Total					169.58	262.20	
GRAND TOTAL					2916.15	11166.48	

* Note: BSES IPP Thermal with four units of total 157 MW Unit included as Govt decision on buy out is pending .KPCL 21.90 MW & MP steel 10MW not included as respective PPA is terminated

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	2019-20
Idukki	29.79	33.06	44.52	22.87	40.08	36.5	34.62	20.68	25.04	44.0875	26.74
Sabarigiri	53.36	55.97	58.49	35.16	66.32	41.12	39.21	26.77	32.55	50.78	37.25
Idamalayar	49	56.53	52.97	37.89	58.64	56.72	45.4	27.34	45.78	52.62	39.75
Kuttiady + KES +KAES	60.36	29.87	38.76	25.36	42.79	39.57	30.34	24.93	32.4	35.45	30.01
Poringalkuthu	52.3	63.27	59.46	46.02	37.66	57.97	54	42.79	51.29	40.29	34.34
PLBE	77.64	86.1	72.68	70.47	81.27		75.7			21.25	71.25
Sholayar	47.34	51.42	46.46	44.12	49.27	50.36	44.3	35.33	43.18	41.57	43.80
Pallivasal	85.14	84.56	70.27	51.49	65.61	78.94	83.5	68.18	77.36	56.36	43.18
Sengulam	35.74	38.34	38.49	25.45	33.48	36	38.17	27.49	34.46	27.51	33.79
Panniar	46.22	63.73	65.63	32.06	60.76	55.26	61.98	22.17	46.18	36.88	62.91
Neriamangalam	48.58	53.28	53.11	33.48	52.37	50.57	51.72	28.89	45.75	55.39	46.15
Lower Periyar	32.59	38.21	41.14	22.61	38.12	37.44	33.04	19.99	30.2	33.25	27.08
Kakkad	59.23	55.21	52.86	32.07	56.54	56.18	54.48	38.04	47.04	50.37	40.25
Kallada	45.98	54.86	49.94	16.6	51.57	48.53	33.88	35.55	41.22	51.95	25.39
Peppara	23	37.12	31.19	14.05	29.06	20.34	16.3	14.96	19.84	31.30	21.82
Madupetty	10.91	13.01	6.96	13.97	34.87	21.87	25.01	13.17	18.55	9.65	24.47
Malampuzha	0	0	12.63	8.69	20.03	25.14	9.2	2.85	6.38	19.41	18.79
Chembukadavu	14.98	23.96	21.23	16.56	21.85	20.32	16.65	15.26	18.83	13.50	13.92
Urumi	21.5	29.58	24.63	19.69	25.43	24.09	16.93	16.44	20.76	12.07	20.85
Malankara	56.14	63.87	55.25	45.79	32.99	64.23	35.2	47.08	53.94	36.15	30.71
Lower Meenmutty	11.17	23.47	15.86	7.04	17.9	20.78	18.78	8.14	16.48	19.81	15.82
Kuttiady Tailrace	21.09	19.84	26.09	23.96	24.86	35.93	25.39	19.29	25.11	62.06	18.39
Poozhithode	-	-	22.27	25.38	28.59	26.94	22.19	24.86	27.63	0.74	15.88
Ranni-Perinad	-	-	0.16	4.68	26.1	33.57	22.35	16.61	17.99	10.01	19.53
Peechi	-	-	-	-	-	16.39	12.86	3.53	10.21	22.84	22.00
Vilangad	-	-	-	-	-	10.98	19.23	23.84	23.32	11.83	19.49
Chimmony	-	-	-	-	-	-	20.68	6.95	15.22	30.60	29.27
Adyanpara	-	-	-	-	-	-	7	16.32	12	1.05	7.85
Vellathooval	-	-	-	-	-	-	-	9.66	14.34	1.61	1.61
Barapole	-	-	-	-	-	-	-	-	31.22	9.15	14.65
Perunthenaruvi	-	-	-	-	-	-	-	-	5.94	14.63	23.23
Kakkayam SHEP								-	-	-	30.91

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%
20	2019-20	2916.15	26226.08	4316	69.37%

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 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 8 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	Ramakkalmedu 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 9
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	569.58	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 9 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	Ramakkalmedu 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 10
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 10 contd..

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	Iruttukkanam	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 11
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 11 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 12

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 12 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 13
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 13 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	Ramakkalmedu 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 14
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 14 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 15
STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS & SYSTEM LOSSES FOR 2016-17

Sl. No	Stations	(in Million Units)												
		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 15 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
	Iruttukkanam 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
H	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
I	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
J	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
K	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
L	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
M	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
N	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
O	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
P	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
Q	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
R	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
S	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
T	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 16
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	0.15	0.28	0.94	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	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	Perunthenaravi	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 16 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	Iruttukanam(VIYYAI)	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 (AHPL)	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
VIIb	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
VIIIb	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 16 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	Ramakalmedu, 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, Kuzhalmadam	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+VIII+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 RIPS	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 16 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 17

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
IIa	KSEBL Wind													

Table 17 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
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
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

Table 17 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
VIIa	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 (MREPL)	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
VIIb	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
VIIIa	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
VIIIb	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	Ramakkalmedu, 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
Xa	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
Xb	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
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

Table 17 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
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
XII.a	Short Term Contracts													
XII.b	Sub Total STOA	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
e	Sale through BSHPCCL	0	0	-7.61615	0	-34.61958	-15.23035	-17.63292	0	0	0	0	0	-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

Table 17 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
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	14.3651625	12.0447125	29.0073825	25.606145	24.0321325	13.824305	3.075685	16.34134	15.287105	17.3268875	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 18														
STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS & SYSTEM LOSSES FOR 2019-20														
(in Million Units)														
Sl. No	Stations	04/19	05/19	06/19	07/19	08/19	09/19	10/19	11/19	12/19	01/20	02/20	03/20	TOTAL
	KSEBL Internal Generation													
1	Idamalayar	30.37	28.62	10.42	1.57	13.90	29.14	13.30	22.79	13.90	32.16	34.58	29.79	260.54
2	Idukki	284.02	351.10	202.49	99.39	72.83	100.90	85.29	80.60	77.71	168.07	138.98	168.47	1829.85
3	Kakkad	17.62	21.41	11.24	7.16	13.01	17.28	16.94	15.47	14.08	15.25	12.82	13.95	176.23
4	Kallada	5.36	3.99	2.63	0.77	1.13	0.52	0.44	2.66	4.71	2.52	4.56	4.13	33.43
5	Kuttiyadi+KES+KAES	47.90	38.88	17.18	61.05	51.52	83.19	70.75	55.03	45.10	39.82	42.12	40.54	593.08
6	KuttiyadiTail Race	0.36	0.20	0.28	0.54	0.78	1.03	0.68	0.43	0.51	0.46	0.41	0.37	6.06
7	Lower Meenmutty	0.04	0.02	0.27	0.43	0.84	1.05	1.12	0.77	0.22	0.08	0.02	0.01	4.87
8	Lower Periyar	19.50	16.37	13.54	39.10	104.89	43.46	75.75	52.47	25.49	7.94	8.93	19.71	427.14
9	Maduppatty	0.72	0.67	0.00	0.00	0.00	0.00	0.00	0.37	0.30	0.03	0.70	0.64	3.44
10	Malampuzha	0.00	0.00	0.00	0.00	0.00	0.33	0.19	0.44	1.02	1.37	0.78	0.00	4.14
11	Malankara	3.03	3.92	3.17	2.53	2.04	4.09	2.08	1.60	1.27	2.38	1.90	2.31	30.32
12	Neriamangalam+NES	19.51	16.17	11.15	20.15	46.59	52.26	52.44	38.30	22.00	6.05	5.87	19.41	309.90
13	Pallivasal	12.71	10.91	10.33	10.64	11.43	12.61	13.27	12.70	13.32	10.71	11.92	11.58	142.12
14	Panniyar	13.29	10.41	2.67	1.52	17.78	22.05	20.24	18.83	12.52	0.00	3.84	16.33	139.48
15	Peppara	0.39	0.38	0.11	0.30	0.27	1.55	1.07	0.00	0.00	0.51	0.59	0.58	5.75
16	Poringalkuthu +PLBE	9.92	2.61	0.34	24.68	32.31	31.23	31.97	26.10	13.81	12.99	11.11	12.41	209.47
17	Sabarigiri	128.96	156.23	70.05	24.22	45.71	92.84	104.23	103.27	103.96	102.03	83.80	83.80	1099.10
18	Sengualm	11.40	13.57	9.83	10.33	16.33	16.44	16.59	15.18	13.66	9.48	9.87	8.13	150.82
19	Vellathhoval SHEP	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
20	Sholayar	18.82	17.12	4.11	0.73	9.58	25.10	24.53	17.52	23.59	25.56	23.45	26.19	216.30
21	Chembukadavu - I	0.00	0.00	0.15	1.00	0.58	0.77	0.50	0.22	0.01	0.00	0.00	0.00	3.23
22	Chembukadavu- II	0.00	0.00	0.17	1.55	0.32	0.85	0.76	0.33	0.02	0.00	0.00	0.00	3.99
23	Urumi - I	0.00	0.00	0.55	1.70	1.65	1.65	1.03	0.49	0.04	0.00	0.00	0.00	7.11
24	Urumi - II	0.00	0.00	0.33	1.04	0.91	0.94	0.66	0.34	0.03	0.00	0.00	0.00	4.24
25	Poozhithode	0.00	0.00	0.64	2.29	0.57	1.51	1.01	0.44	0.18	0.06	0.00	0.00	6.70
26	Ranni-Perinadu	0.60	0.75	0.54	0.46	0.69	0.82	0.93	0.75	0.48	0.48	0.51	0.34	7.35
27	Peechi	0.15	0.00	0.00	0.00	0.08	0.47	0.29	0.18	0.42	0.30	0.21	0.31	2.42
28	Vilangadu	0.00	0.00	0.27	3.63	3.80	3.66	2.07	1.00	0.24	0.04	0.00	0.00	14.71
29	Chimmony	0.39	0.17	0.00	0.00	0.00	0.48	0.64	0.47	1.19	0.77	1.28	1.04	6.43
30	Addyanpara	0.00	0.01	0.46	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.24
31	Barapole	0.00	0.00	0.06	1.68	2.04	6.65	6.29	2.56	1.27	0.40	0.00	0.00	20.95

Table 18 contd..

Sl. No	Stations	04/19	05/19	06/19	07/19	08/19	09/19	10/19	11/19	12/19	01/20	02/20	03/20	TOTAL
32	Perunthenaruvi	0.03	0.03	1.06	1.27	2.04	2.65	2.78	1.92	0.34	0.14	0.01	0.00	12.28
33	Kakkayam SHEP	0.83	0.77	0.14	0.96	0.36	0.90	1.06	0.90	0.56	0.50	0.57	0.59	8.12
34	Poringal screw generation	0.01	0.01	0.00	0.01	0.01	0.01	0.00	0.00	0.03	0.00	0.00	0.00	0.07
Ia	KSEBL Hydro Gross	625.93	694.32	374.19	322.44	453.99	556.43	548.90	474.12	391.99	440.07	398.82	460.63	5741.83
	Auxiliary Consumption (Hydro Generating station)	3.07	3.17	2.28	2.21	2.70	3.19	3.47	2.90	2.59	2.68	6.45	2.45	37.16
Ib	KSEBL Net Hydro	622.86	691.15	371.91	320.23	451.30	553.24	545.43	471.22	389.40	437.39	392.37	458.18	5704.67
IIa	KSEBL Wind													
35	Kanjikode	0.07	0.20	0.15	0.13	0.14	0.09	0.04	0.07	0.26	0.11	0.11	0.04	1.42
	Auxiliary consumption wind													0.00
IIb	Net Generation wind (KSEBL)	0.07	0.20	0.15	0.13	0.14	0.09	0.04	0.07	0.26	0.11	0.11	0.04	1.42
IIIa	KSEBL Solar													
36	Total solar	3.06	2.01	1.48	1.04	1.53	1.27	2.37	2.54	2.01	2.11	2.47	4.07	25.95
	Auxiliary Consumption Solar													
IIIb	KSEBL Net Solar	3.06	2.01	1.48	1.04	1.53	1.27	2.37	2.54	2.01	2.11	2.47	4.07	25.95
IV a	KSEBL Thermal													
37	BDPP,Brahmapuram	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
38	KDPP, Nallalam	5.47	6.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.93
	Aux. cons.- BDPP (Thermal)	0.05	0.05	0.05	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.62
	Aux cons.-KDPP (Thermal)	0.19	0.22	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	1.03
IVb	KSEBL Net Thermal Generation	5.23	6.18	-0.11	-0.03	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.12	-0.12	10.38
A	Net Generation- KSEBL (Ib+IIb+IIIb+IVb)	631.21	699.54	373.42	321.37	452.85	554.49	547.73	473.72	391.56	439.50	394.83	462.18	5742.41
B	Power Purchase													
Va	Central Generating Stations at Kerala periphery (KSEB end)													
1	RSTPS (Unit 1 to 6)	150.29	157.20	157.91	148.86	147.90	137.49	139.69	126.03	122.67	150.24	140.13	146.19	1724.62
2	RSTPS (Unit 7)	39.98	38.04	44.04	40.79	39.31	36.19	30.78	32.14	41.20	41.12	38.57	5.35	427.51
3	TALCHER STAGE II	259.19	250.90	231.49	202.99	136.91	132.97	192.61	227.33	275.62	277.93	263.10	274.96	2726.00
4	Simhadri TPS Stage II	51.11	61.95	65.12	51.57	37.70	42.17	12.66	30.41	50.65	50.59	45.79	44.19	543.91
5	Kudgi STPS	50.85	34.81	18.18	17.88	11.24	7.09	3.23	0.36	9.87	16.41	49.85	53.91	273.68
6	NLC II STAGE 1	38.49	39.07	39.03	37.67	29.40	33.32	39.29	35.16	33.25	38.47	38.25	39.45	440.85
7	NLC II STAGE 2	56.26	48.26	35.41	42.90	47.79	42.05	50.61	53.21	54.75	58.11	54.48	54.14	597.97
8	NLC I EXPANSION	43.01	41.57	26.84	44.69	42.80	43.28	43.24	40.29	44.68	44.35	42.20	44.68	501.64
9	NLC II EXPANSION	21.52	23.70	16.96	15.94	14.35	20.38	30.10	17.84	21.97	11.72	25.71	13.55	233.74

Table 18 contd..

Sl. No	Stations	04/19	05/19	06/19	07/19	08/19	09/19	10/19	11/19	12/19	01/20	02/20	03/20	TOTAL
10	NTPL	23.92	23.49	26.13	24.21	39.80	31.50	24.79	30.35	47.18	46.77	43.25	38.52	399.90
11	VALLUR STPS	31.69	29.79	30.58	20.59	9.95	11.06	12.75	19.23	17.71	22.58	21.32	19.16	246.41
12	MAPS	3.75	6.03	6.36	6.56	6.84	6.56	6.19	6.13	6.17	5.31	6.56	6.65	73.12
13	KAPS I & II	23.24	25.65	18.23	18.98	18.71	21.61	24.01	24.54	25.58	25.47	23.82	22.72	272.57
14	KAPS III& IV	22.50	23.44	22.45	23.71	18.73	22.95	23.63	14.37	23.80	18.54	14.73	23.71	252.57
15	KKNPP	0.00	34.00	78.14	94.21	94.86	92.15	87.30	91.08	81.34	83.49	66.36	87.41	890.35
16	KKNPP unit 2	50.24	49.73	47.68	50.50	50.38	49.76	44.53	50.19	22.93	0.00	0.00	44.09	460.05
17	NNTPP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	4.69	7.05	5.26	17.12
Vb	TOTAL CGS	866.04	887.62	864.54	842.06	746.66	730.54	765.42	798.67	879.49	895.81	881.20	923.94	10082.00
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	0.00	0.00	0.00
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
4	PCBL (Co-Gen Plant)Net injection to grid	0.13	0.38	0.23	0.15	0.23	0.35	0.00	0.08	0.23	0.34	0.60	0.47	3.18
VI.b	Thermal IPPs /Co-Gen total	0.13	0.38	0.23	0.15	0.23	0.35	0.00	0.08	0.23	0.34	0.60	0.47	3.18
VII.a	IPPs-Small hydro(net)													
1	Ullunkal (EDCL)	1.44	1.81	1.04	1.22	2.33	2.32	2.15	1.65	1.16	1.08	0.87	1.02	18.10
2	Iruttukanam(VIYYAT)	0.00	0.00	0.02	2.50	3.82	3.49	3.47	2.68	1.24	0.55	0.23	0.24	18.25
3	Kaarikkayam (AHPL)	2.57	3.21	2.24	2.61	5.27	4.81	4.55	3.19	2.18	2.10	1.73	1.90	36.37
4	Meenvallam (PSHCL)	0.05	0.06	0.25	1.25	1.25	1.32	1.18	0.84	0.30	0.15	0.09	0.07	6.80
5	Pathankayam (MREPPL)	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
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	4.06	5.08	3.56	7.59	12.68	11.94	11.35	8.35	4.89	3.87	2.92	3.23	79.51
VIII.a	Captive Power plants													
1	Maniyar IPP hydel net injection	0.24	0.16	0.16	2.14	0.56	3.90	4.09	2.83	0.22	0.09	0.05	-2.53	11.92
2	Kuthungal IPP hydel net injection	0.65	0.34	0.11	0.12	2.19	3.40	1.66	1.87	-0.54	-3.05	-0.67	0.30	6.38
VIII.b	CPP -Total	0.89	0.50	0.27	2.27	2.76	7.29	5.75	4.70	-0.31	-2.96	-0.62	-2.23	18.30
IX.a	Wind IPPs/prosumers													
1	Ramakkalmedu, Wind	0.35	1.67	3.39	3.98	2.62	2.65	0.93	1.49	2.15	1.62	1.69	0.55	23.10
2	Agali, Wind	0.82	3.53	5.19	6.27	4.30	3.73	0.78	0.49	0.56	0.26	0.39	0.37	26.70
3	Koundikkal	0.39	1.31	1.90	2.22	1.66	1.28	0.41	0.36	0.47	0.22	0.33	0.20	10.75

Table 18 contd..

Sl. No	Stations	04/19	05/19	06/19	07/19	08/19	09/19	10/19	11/19	12/19	01/20	02/20	03/20	TOTAL
4	Ahalya Wind	1.03	2.69	2.44	2.24	2.39	1.60	0.80	1.05	1.78	1.28	1.23	0.70	19.23
5	INOX	2.13	4.86	4.74	4.25	4.51	3.05	1.48	2.18	2.86	2.89	2.87	1.39	37.21
6	Kosamattam	0.01	0.12	0.26	0.34	0.23	0.17	0.04	0.07	0.11	0.10	0.11	0.03	1.61
7	Manorama net injection	0.00	1.59	1.47	1.57	1.35	-0.08	-0.83	-0.48	0.51	-0.14	-0.05	-0.75	4.15
IX.b	Wind IPPs Total	4.74	15.78	19.39	20.87	17.05	12.41	3.63	5.17	8.44	6.23	6.57	2.48	122.75
Xa	Solar IPPs /Prosumer													
1	Anert, Kuzhalmandam	0.21	0.25	0.21	0.19	0.14	0.20	0.22	0.17	0.21	0.25	0.27	0.28	2.59
2	Ambalathara -Solar Park IPP	7.54	7.17	5.51	3.83	4.22	5.58	6.15	6.20	4.60	7.02	7.08	8.26	73.16
3	CIAL net injection-solar prosumer	0.0714	-0.04778	-0.41	-0.47	-0.15	-0.95	0.15315	0.03	0.15	0.53	0.5187	0.96	0.3683
4	Grid connected consumers net injection	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	8.37
Xb	Solar IPPs Total	8.52	8.07	6.01	4.25	4.90	5.52	7.22	7.10	5.65	8.49	8.57	10.20	84.49
	Total IPP, CPP and Co-gen (Vib+VIIIb+VIIIb+IXb+Xb)	18.34	29.82	29.45	35.12	37.62	37.51	27.94	25.39	18.89	15.97	18.03	14.15	308.23
	Traders													
XI.a	LTOA contracts													
1	MAITHON (MPL)	90.72	90.44	71.88	46.22	77.70	92.89	91.92	90.40	96.67	100.11	89.51	69.63	1008.09
2	MAITHON (MPL)	90.72	90.44	71.88	46.22	77.70	92.89	91.92	90.40	96.67	100.11	89.51	69.63	1008.09
3	DVC-MEJIA	55.10	66.13	59.22	31.62	31.85	35.99	23.15	49.07	39.84	64.93	62.65	55.41	574.94
4	DVC RAGHUNATHPUR	19.97	14.64	20.75	24.13	19.80	17.40	12.96	22.74	25.49	24.71	28.00	27.62	258.20
5	Jindal Power Limited ((Bid I)	111.13	120.00	117.40	119.45	109.60	109.21	77.48	115.96	125.04	124.78	116.14	122.18	1368.37
6	Jindal Power Limited ((Bid II)	83.40	90.21	88.17	89.55	82.20	81.90	58.09	86.98	93.75	93.58	87.05	91.63	1026.50
7	Jhabua Power Limited ((Bid I)	57.37	61.37	63.03	68.59	45.57	18.55	77.35	71.77	74.48	78.02	73.12	78.10	767.32
8	Jhabua Power Limited ((Bid II)	49.88	53.36	54.81	59.65	39.62	16.13	67.28	62.41	64.77	67.85	63.58	67.91	667.25
9	BALCO	58.78	66.39	64.95	64.66	53.95	64.97	54.16	59.12	62.08	62.94	58.45	62.38	732.84
10	JITPL	60.05	61.54	60.08	62.03	60.97	59.66	61.56	59.81	61.53	61.14	59.80	57.34	725.50
XI.b	Sub Total LTOA	677.12	714.53	672.14	612.12	598.97	589.59	615.87	708.65	740.30	778.15	727.82	701.85	8137.11
XII.a	Short Term Contracts													
XII.b	Sub Total STO A	0	0	0	0	0	0	0	0	0	0	0	0	0
	Power Exchanges													
XIII.a	TAM													
1	IEX	0.00	7.65	0.00	0.33	0.00	0.20	0.00	0.00	0.34	4.16	0.21	1.85	14.74
2	PXIL	33.02	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.27	0.00	0.00	0.47	33.85
XIII.b	TAM Sub Total	33.02	7.65	0.00	0.33	0.00	0.20	0.00	0.10	0.61	4.16	0.21	2.32	48.59

Table 18 contd..

Sl. No	Stations	04/19	05/19	06/19	07/19	08/19	09/19	10/19	11/19	12/19	01/20	02/20	03/20	TOTAL
XIV.a	DAM													
1	IEX	61.40	131.31	185.54	300.37	89.72	11.53	8.96	4.63	73.81	34.12	10.61	1.92	913.94
2	PXIL	27.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.71
XIV.b	DAM Sub Total	89.12	131.31	185.54	300.37	89.72	11.53	8.96	4.63	73.81	34.12	10.61	1.92	941.65
XV	KPTCL-Overarching													0.00
XVI	Swap-inwards	69.92965	14.36952	13.9422	0	0	0	0	0	0	0	76.59352	177.8317	352.67
XVII	Deviation Settlement Mechanism (Net)	26.79	39.44	41.89	73.51	54.05	35.35	37.39	37.27	36.75	45.30	44.56	41.20	513.50
B	Total Power Purchase at Kerala Periphery ((Sum(Vb to XIVb)+XV+XVI+XVII))	1780.35	1824.73	1807.52	1863.52	1527.02	1404.72	1455.57	1574.71	1749.86	1773.51	1759.03	1863.21	20383.76
C	Total KSEBL Generation & Power Purchase (A+B)	2411.57	2524.27	2180.94	2184.89	1979.87	1959.21	2003.31	2048.44	2141.42	2213.01	2153.86	2325.39	26126.17
D	Substation Auxiliary consumption	1.688294	1.737317	1.556474	1.551773	1.415378	1.449407	1.575043	1.608772	1.602954	1.74802	1.805123	1.864146	19.6027
E	Net Generation and Power Purchase (C-D)	2409.88	2522.53	2179.38	2183.34	1978.45	1957.76	2001.73	2046.83	2139.82	2211.26	2152.05	2323.53	26106.57
F	Energy injected by private developers at Generator end for sale outside the state through open access	3.90	3.32	2.68	3.97	4.02	3.77	3.91	1.58	1.12	3.53	3.01	2.70	37.50
G	Energy purchased by consumers through open access at Kerala periphery	22.44	31.50	33.48	37.29	34.89	43.17	43.63	35.92	25.88	27.74	31.91	38.02	405.86
	Out side State Sale by KSEBL													
a	DAM(Kerala Periphery)-IEX	-0.06	0.00	-0.07	-8.40	-31.97	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	-40.52
b	DAM(Kerala Periphery)-PXIL	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
c	TAM (Kerala Periphery)-IEX	0.00	0.00	0.00	0.00	-2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.08
d	TAM (Kerala Periphery)-PXIL	0.00	0.00	0.00	-0.17	-13.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-13.35
e	Sale through BSHPCL													0.00
f	Sale through CSPDCL													0.00
i	Total Sale outside the state(a+b)	-0.06	0.00	-0.07	-8.57	-47.23	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	-55.95
a	SWAP return through MITTAL	0.00	0.00	0.00	-12.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-12.45
b	SWAP Return through KEIPL to Hariyana	0.00	0.00	0.00	-4.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4.69

Table 18 contd..

Sl. No	Stations	04/19	05/19	06/19	07/19	08/19	09/19	10/19	11/19	12/19	01/20	02/20	03/20	TOTAL
c	SWAP Return through APPCPL	0.00	0.00	0.00	-49.40	-48.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-97.86
d	SWAP return through MITTAL	0.00	0.00	0.00	-13.43	-13.38	-12.91	0.00	0.00	0.00	0.00	0.00	0.00	-39.72
e	SWAP return through GMRETL	0.00	0.00	-39.74	-37.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-77.21
ii	Total SWAP return	0.00	0.00	-39.74	-117.44	-61.84	-12.91	0.00	0.00	0.00	0.00	0.00	0.00	-231.93
H	Energy sale outside the State by KSEBL and Swap return(i+ii)	-0.06	0.00	-39.82	-126.01	-109.07	-12.91	-0.01	0.00	0.00	0.00	0.00	0.00	-287.88
I	Energy injected by private developers at Kerala periphery for sale outside state through open access	-3.73	-3.17	-2.56	-3.81	-3.86	-3.62	-3.75	-1.52	-1.08	-3.39	-2.89	-2.59	-35.96
J	Net energy available for sale inside the state (E+F+G+H+I)	2432.42	2554.18	2173.16	2094.78	1904.44	1988.17	2045.50	2082.81	2165.74	2239.14	2184.08	2361.65	26226.08
K	Energy purchased by consumers through open access at consumer end	21.27737	29.8649	31.73334	35.52569	33.30802	41.17147	41.62448	34.28501	24.68267	26.43268	30.40783	36.20687	386.52
L	Energy sale inside the state by KSEBL	2099.84	2118.10	1955.62	1815.15	1716.37	1715.93	1760.20	1802.51	1904.92	1955.73	1992.28	1824.27	22660.91
M	Energy given to RGCCPP for meeting auxiliary consumption during non operational period	0.83	0.91	1.76	1.03	0.93	0.84	0.70	0.71	0.76	1.04	1.16	0.79	11.47
N	Energy sale within the state including open access and aux power to RGCCPP. (K+L+M)	2121.94	2148.88	1989.12	1851.70	1750.61	1757.94	1802.53	1837.50	1930.36	1983.20	2023.84	1861.27	23058.89
O	Loss in KSEBL system (J-N)	310.48	405.31	184.04	243.08	153.83	230.23	242.98	245.30	235.38	255.94	160.24	500.38	3167.19
P	% Loss within Kerala	12.76%	15.87%	8.47%	11.60%	8.08%	11.58%	11.88%	11.78%	10.87%	11.43%	7.34%	21.19%	12.08%

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	2019-20
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	33.45
2	Peppara	3	6.05	9.75	8.20	3.69	7.63	5.13	4.71	3.94	5.77	8.23	5.80
3	Malankara	10.5	32.46	36.90	31.94	26.69	30.38	34.15	32.43	24.74	29.49	33.25	27.96
4	Madupetty	2	1.91	2.28	1.22	2.49	5.75	3.57	4.29	3.94	2.55	1.72	3.37
5	Chembukadavu	6.45	8.46	13.54	11.99	9.52	12.42	10.95	9.04	8.64	10.65	7.52	7.11
6	Urumi	6.15	11.58	15.94	13.27	10.79	13.67	12.98	9.30	9.03	11.20	6.91	12.31
7	Malampuzha	2.5	0.00	0.00	2.77	1.94	4.96	5.19	2.03	0.63	1.95	4.51	4.15
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	4.83
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	5.98
10	Poringalkuthu LBE	16	108.82	120.69	102.15	99.86	114.03	107.45	106.43	94.37	124.73	98.04	100.19
11	Neriamangalam Extension	25	92.60	95.48	63.03	94.52	143.66	120.20	133.33	102.08	158.60	167.66	111.18
12	Poozhithode	4.8			9.36	10.67	12.10	11.33	8.62	10.44	11.78	7.56	6.70
13	Ranni Perunad	4			0.21	6.15	9.52	7.35	7.66	5.85	6.32	3.83	7.03
14	Peechi	1.25				0.26	3.29	1.92	1.43	0.40	1.78	2.46	2.41
15	Vilangad	7.5						0.45	12.75	15.77	15.56	7.83	14.43
16	Chimmony	2.5							4.59	1.55	2.09	6.65	6.40
17	Adyanpara	3.5							2.36	5.01	3.88	0.33	2.40
18	Barapole	15							0.00	19.32	42.69	1.21	20.86
19	Vellathooval	3.6								3.05	4.69	2.72	0.07
20	Poringalkuthu Micro	0.011									0.05	0.06	0.07
21	Perunthenaravi	6									3.12	7.76	12.30
22	Kakkayam	3										2.62	7.46
23	Mankulam GP IPP hydel	0.11											0.00
24	Deviyar MHEP	0.05											0.00
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	25.72
2	Kuthungal	21	34.25	47.05	44.16	22.95	42.48	45.26	49.31	14.03	37.13	62.14	44.28
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	17.39
2	Iruttukkanam	4.5		8.87	17.62	18.56	23.06	23.18	24.83	20.08	24.83	10.51	19.16
3	Kaarikkayam	15					17.18	27.17	26.99	21.93	37.14	45.78	36.46
4	Meenvallom	3						2.37	5.56	5.99	10.48	7.41	6.72

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	2019-20	
5	Kallar	0.05										0.08		0.00
6	Pathankayam	8										11.40	0.07	0.26
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	1.22	
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	25.19	
2	Agali	18.6	35.07	33.48	35.71	38.06	40.86	40.41	23.79	46.47	31.07	26.04	27.15	
3	Ahalia Alternate Energy Ltd	8.4							0.00	17.39	21.07	18.15	19.22	
4	INOX	16									12.31	38.90	38.43	
5	Kosamattom	1										1.13	1.64	
6	Koundikkal (Wind-IPP)	4.80											10.75	
7	Malayal Manorama (Wind- CPP)	10.00											23.04	
8	SECI Wind 200 MW													
	Total Non Solar	290.80	487.66	564.21	514.06	456.24	660.49	623.23	601.44	533.06	747.16	722.77	682.31	
VI	Solar (KSEB)													
1	Kanjikode	1	-	-	-	-	-	-	0.81	0.87	1.13	0.82	1.51	
2	Poringalkuthu Powerhouse	0.05	-	-	-	-	-	-	0.04		0.06	0.06	0.06	
3	Floating solar RT- Banasurasagar	0.01									0.01	0.13	0.62	
4	Meencut RT	0.03									0.01	0.01	0.01	
5	Kothamangalam RT	0.13									0.14	0.13	0.10	
6	Moolamattom RT	0.05									0.05	0.05	0.05	
7	Thrissur RT	0.35									0.31	0.25	0.36	
8	Kollengode	1									1.47	1.26	1.24	

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	2019-20	
9	Padinjarethara DT	0.44										0.50	0.50	0.54
10	Moozhiyar RT	0.13										0.54	0.12	0.11
11	Edayar Substation Premise	1.25										1.65	1.08	2.39
12	Barapole Canal Bank	1										1.02	1.28	0.95
13	Barapole Canal Top	3										2.68	2.23	1.36
14	KDPP,Kozhikode	0.035										0.04	0.04	0.04
15	Thalakulathoor	0.65										0.88	0.93	0.97
16	Vydyuthi bhavan RT	0.03										0.04	0.05	0.03
17	Manjeswaram	0.5										0.65	0.81	0.74
18	Moovattupuzha	1.25										0.39	1.55	1.57
19	Pothencode	2										0.48	2.72	2.15
20	Kuttippuram	0.5											0.71	0.69
21	220kV S/Sn Kundara RT	0.03											0.08	0.05
22	110kV S/Sn Kanjikode RT	0.025											0.06	0.04
23	220kV S/Sn Palakkad RT	0.035											0.08	0.15
24	220kV S/Sn Edappon RT	0.03											0.07	0.25
25	220kV S/Sn Edappon RT	0.045											0.09	0.28
26	110kV S/Sn Kunnamangalam RT	0.02											0.11	0.03
27	220kV S/Sn Orkattery RT	0.035											0.08	0.05
28	220kV S/Sn Nallalam RT	0.035											0.09	0.05
29	220kV S/Sn Brahmapuram RT	0.055											0.13	0.07
30	110kV S/Sn Thycattussery RT	0.02											0.09	0.21

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	2019-20
31	220kV S/Sn Kattakkada RT	0.02										0.03	0.03
32	110kV S/Sn Paruthippara RT	0.03										0.08	0.12
33	220kV S/Sn Pothencode RT	0.035										0.53	0.34
34	66kV S/Sn GIS LA Complex RT	0.025										0.06	0.04
35	66kV S/Sn GIS Power house RT	0.025										0.06	0.03
36	66KV S/SnVeli RT	0.02										0.06	0.03
37	TMR Thirumala RT	0.035										0.08	0.05
38	VB Pathanamthita RT	0.045										0.08	0.06
39	220kV S/Sn Malaparamba RT	0.02										0.03	0.03
40	VB Manjeri RT	0.03										0.05	0.10
41	220kV S/Sn Areacode RT	0.03										0.05	0.04
42	PTRU-Kalamassery RT	0.04										0.06	0.06
43	220kV S/Sn Mylatty RT	0.03										0.05	0.05
44	220kV S/Sn Kanhirode RT	0.035										0.07	0.05
45	110kV S/Sn Viyyur RT	0.02										0.03	0.21
46	110kV S/Sn Pathanamthitta RT	0.025										0.21	0.12
47	MCR& W Madakkathara RT	0.045										0.12	0.06
48	MCM& W Madakkathara RT	0.15										0.15	0.21
49	Ele Dvn Kollam RT	0.035										0.05	0.05
50	Ele Dvn Kundara RT	0.025										0.04	0.04
51	Vaidyuthi bhavanam Chathnnoor RT	0.025										0.03	0.04
52	VB, Kottarakkara RT	0.08										0.08	0.11
53	220kV S/Sn New pallom RT	0.02										0.06	0.03
54	220kV S/Sn Ambalamughal RT	0.02										0.04	0.03
55	Vaidyuthi bhavanam Thodupuzha-50KW COD(25.02.19)	0.05										0.12	0.20
56	Ele Sn.Beach RT	0.02										0.08	0.03
57	Vaidyuthi bhavanam Thrissur RT	0.045										0.16	0.05
58	SLDC Building RT	0.035										0.10	0.05
59	ES Kesavadasapuram RT	0.025										0.03	0.03
60	110kV S/S Ponnani RT	0.5										0.15	0.65
61	Peerumedu RT	0.5										0.69	0.61
62	Dam Safety Pallom GM (IPDS)	0.05											0.00
63	Kottiyam GM (IPDS)	0.6											0.22
64	Various IPDS projects	0.45									1.31		5.52
	Solar (IPP)												
1	Cochin International Airport Ltd	38.44							11.42	10.99	33.29	37.38	45.21
2	Anert, Kuzhalmadam	2.00								0.93	2.79	2.54	2.59
3	Ambalathara -Solar Park	50.00								7.55	49.62	76.54	71.26
4	Hindalco	3.00											
5	THDCIL Paivalika Solar Park	50.00											
6	Net Metered Solar Prosumer	130.26									25.72	38.42	97.01
7	Chaliyoor Colony, Agali	0.096							0.05		0.07	0.07	0.08
8	Solar Off Grid with Gen Based Incentives										0.80	2.67	1.98
9	SOURA Solar	3.46											
	Total Solar	294.11	0.00	0.00	0.00	0.00	0.00	0.00	12.27	20.34	125.63	176.70	244.12
	Total Renewable	584.90	487.66	564.21	514.06	456.24	660.49	623.23	613.71	553.41	872.79	899.47	926.43

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%)

2019-20 RPO achievement:- Non-solar-4.10 % (Target -8 %) ; Solar -1.47 %(Target-4 %)

TABLE 20

GENERATION, PURCHASE, SALES AND LOSSES

Sl. No.	Year	Total internal Generation excluding auxiliary 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	2009-10	7189.51	10204.21	357.53	17036.19			53.90			16982.29		13971.09	13971.09	3011.20	17.73	19.62	
2	2010-11	7359.97	10512.27	401.73	17470.51			130.24			17340.27		14547.90	14547.90	2792.37	16.10%	17.63	
3	2011-12	8289.91	11263.21	413.21	19139.91			201.10			18938.81		15980.53	15980.53	2958.28	15.62%	17.16	
4	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	
5	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	
6	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	
7	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
8	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
9	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
10	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
11	2019-20	5722.81	21128.51	744.75	26106.57	37.50	405.86	55.95	231.93	35.96	26226.09	386.52	22660.93	23058.92	3167.17	12.08%		13.15

NB: Column 12 value includes auxiliary supply to RGCCP viz. 8.63 MU for 2017-18, 8.04 MU for 2018-19 & 11.47 MU for 2019-20

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)	Percapita 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
24	2019-20	22660.93	22716.88	23058.92	14056.75	657

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	0.00	0.00	10.00	63.00	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. 1.04.19	18.00-22.00	11.67	245.07	12.20	61.00	21.35	427.00	8.98	89.80			10.00	63.00	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	427.00	8.98	89.80			10.00	63.00	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	427.00	8.98	89.80			10.00	63.00	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 contd..

TABLE 22**AL] ALLOCATION FROM CENTRAL GENERATING STATIONS TO KERALA****(Continued from previous page) p2**

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. 1.04.19	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
20	2019-20	12,826,185	26,843.47

TABLE 24
TRANSMISSION AND DISTRIBUTION LINES-ABSTRACT

Sl.No.	Year	in Circuit km					in km		
		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
20	2019-20	1244.56**	2952.66	4797.75	2000.75	2057.49	151	62,600	293,280

* PGCIL owned lines

** Out of the 1244.56 ckt km 400 kV lines in 2019-20, 92 ckt km is KSEBL owned, rest PGCIL owned

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
20	2019-20	552,858	1,447,820	81,470

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	2019-20
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	9881528
	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	17681.27
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	2280912
	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	4373.65
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	140205
	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	1,767.87
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	6266
	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	1,706.895
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	40950
	Connected Load	82.66	93.80	91.09	93.12	105.70	110.99	118.55	124.13	140.95	149.79	157.34	158.93
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	476297
	Connected Load	887.90	899.38	924.49	926.68	956.77	952.77	949.82	950.19	874.17	915.15	934.74	948.79
7	Licensees												
	No. of Consumers	11	12	13	13	10	11	11	12	12	11	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	99.414
8	Railway Traction**												
	No. of Consumers	8	8	8	8	8	8	8	9	12	12	14	16
	Connected Load	56.35	64.19	65.27	65.27	65.27	66.25	66.25	65.79	91	92.25	97.65	106.65
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	12,826,185
	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	26,843

NB: * Commercial LT includes General LT VI & from 2019-20 includes LT X Electric Vehicle Charging Stations

** Railway Traction includes KMRL also from 2018-19

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	2019-20
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	11898.13
	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	5262.8
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	3426.37
	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	3394.22
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	1085.16
	B. Revenue	466.89	453.70	460.54	461.39	587.11	682.52	704.89	746.63	754.72	809.19	792.76	837.7
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	4615.88
	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	3678.79
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	365.86
	B. Revenue	58.96	58.07	56.28	63.86	94.32	118.99	137.81	156.36	156.64	169.86	172.77	175.59
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	348.48
	B. Revenue	30.48	28.24	26.65	30.77	47.28	56.57	60.44	65.62	102.01	63.29	86.78	97.6
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	615.73
	B. Revenue	144.68	143.33	163.46	183.27	255.31	293.64	313.29	347.04	363.25	384.59	369.13	396.74
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	305.21
	B. Revenue	67.60	65.65	64.46	61.68	82.5	107.77	113.1	120.86	130.52	160.02	186.38	194.2
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	55.95
	B. Revenue	438.79	67.51	140.03	66.63	0.93	1336.98	619.56	41.7	12.27	51.18	339.35	19.11
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	22716.77
	B. Revenue	4893.02	4747.17	5198.52	5593.02	7223.39	9974.18	9879.34	10487.71	11035.88	12057.27	13053.08	14056.75

* Commercial LT includes General LT VI & from 2019-20 includes LT X Electric Vehicle Charging Stations

** Railway Traction includes KMRL also

Source: Approved Technical Particulars for the year & Annual Report

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
20	2019-20	897.07	612.1	1926.86	1539.98	1947.05	1838.21	86.11	140.96	4,857.09	4,131.25	389.96	847.23	1132.67	13.61	2,383.47

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
25	2019-20	442.32	990.62	771.96	796.99	479.94	280.07		644.34	341.55	636.28	618.78

* 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
19	2019-20	a. Sales/Consumer	1,204	1,502	7,740	736,655	732		8,934	55,975,455	19,075,625
		b. Revenue/Consumer	5,326	14,881	59,748	5,871,034	2,049		42,879	360,672,727	121,375,000

* included in Industrial LT from 2002-03

** Commercial LT includes General LT VI and from 2019-20 onwards LTX Electric Vehicle Charging Stations

*** Railway Traction includes KMRL also

**TABLE 31
DEMAND AND CONSUMPTION**

Day	04/19						05/19						06/19					
	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	4159	3137	2950	84.40	84.56	4159	3735	2885	2554	74.56	83.16	3735	4084	2907	2838	81.33	83.00	4134
Day 2	4050	3158	2991	84.79	87.24	4050	3983	2954	2658	80.50	84.22	3983	3921	3126	2675	77.30	82.17	3921
Day 3	4232	3203	3025	85.97	84.65	4282	3964	3010	2819	81.77	85.95	3974	4026	2884	2669	79.29	82.07	4026
Day 4	3935	3232	3099	84.40	89.37	3935	3872	3100	2879	80.68	86.82	3872	3913	3037	2810	82.19	87.53	4083
Day 5	4047	3091	2949	83.54	86.01	4047	3873	3023	2556	76.10	81.87	3873	3505	3123	2653	75.47	89.71	3505
Day 6	4123	3215	3012	84.76	85.66	4123	4077	3091	2877	83.97	85.83	4152	4029	2869	2540	77.10	79.74	4029
Day 7	3955	3173	2690	78.22	82.40	3955	4149	3261	3113	85.85	86.22	4149	3811	3038	2728	78.90	86.25	3846
Day 8	4117	3212	3039	85.29	86.31	4117	4041	3182	2991	83.72	86.32	4071	3710	2983	2806	78.31	87.95	3900
Day 9	3988	3182	3003	83.97	88.16	3988	3988	3146	2959	82.88	86.60	3988	3054	2857	1889	65.26	89.05	3054
Day 10	4176	3124	2828	83.93	83.75	4176	4076	3040	2927	83.21	85.06	4076	3348	2521	2142	65.39	81.39	3348
Day 11	4183	3240	2955	85.95	85.61	4183	4008	3268	3045	84.17	87.50	4008	3379	2747	2253	66.89	82.49	3379
Day 12	4266	3258	2966	86.86	84.83	4266	3954	3214	2700	78.55	82.77	3974	3199	2698	2171	64.35	83.82	3199
Day 13	4316	3346	3083	88.10	85.05	4316	4125	3248	2995	84.71	85.57	4155	3239	2650	2132	64.34	82.76	3239
Day 14	4204	3404	2756	82.78	82.04	4204	4014	3199	3020	84.85	88.08	4109	3597	2765	2152	68.80	79.69	3637
Day 15	4166	3297	2946	82.52	82.54	4166	3965	3257	3044	83.60	87.86	4065	3584	2768	2361	71.59	83.22	3624
Day 16	4197	3231	3079	86.82	86.20	4197	3980	3118	2855	82.70	86.59	4110	3564	2653	2447	68.68	80.29	3594
Day 17	3598	3306	2739	81.88	94.83	3598	3962	3260	2933	83.16	87.46	3962	3697	2950	2489	74.74	84.24	3847
Day 18	3521	2962	2740	75.95	89.86	3521	4066	2971	2768	80.81	82.82	4106	3724	3006	2659	75.54	84.51	3724
Day 19	3363	2683	2423	68.81	85.26	3363	3914	3164	2564	77.69	82.71	3934	3767	2833	2455	73.02	80.78	3767
Day 20	3577	2750	2616	74.54	86.83	3577	4125	3227	2926	84.78	85.64	4205	3712	2923	2421	71.90	80.71	3752
Day 21	3634	2698	2377	68.99	79.10	3634	4162	3353	3079	86.43	86.52	4187	3416	2892	2413	70.79	86.35	3466
Day 22	3892	2905	2746	79.17	84.77	3892	4189	3288	3047	87.21	86.74	4289	3253	2586	2177	66.47	85.14	3253
Day 23	3530	2628	2248	68.08	80.35	3530	3948	3465	3133	88.34	93.23	3983	3296	2513	2226	63.19	79.88	3296
Day 24	3739	2835	2650	77.01	85.82	3739	3667	3166	3003	82.45	93.68	3667	3656	2781	2288	71.18	81.12	3676
Day 25	3707	2911	2717	78.13	87.83	3707	4010	3016	2817	79.37	82.47	4040	3619	2904	2482	72.64	83.64	3659
Day 26	3932	2970	2763	81.12	85.96	4112	3913	3166	2603	77.00	81.99	3913	3705	2916	2473	73.91	83.13	3705
Day 27	4054	3205	2988	83.90	86.24	4154	4157	3161	2987	85.08	85.28	4262	3759	3020	2627	75.70	83.90	3759
Day 28	3915	3231	2777	78.90	83.98	4015	4219	3342	3090	87.80	86.72	4299	3772	3051	2714	75.48	83.38	3772
Day 29	3738	3198	3008	81.96	91.37	3738	4091	2805	2312	78.84	80.31	4091	3788	2991	2732	76.42	84.06	3788
Day 30	3930	2822	2623	79.15	83.90	3930	4216	3105	2950	84.82	83.83	4256	3546	2758	2470	70.07	82.33	3546
Day 31							3856	3240	3010	83.87	90.63	3856						

Table 31 continued

TABLE31
DEMAND AND CONSUMPTION

07/19						08/19						09/19						
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)	Max. Demand (MW)
3831	2992	2631	76.04	82.69	3831	3601	2881	2405	72.40	83.77	3701	3003	2425	2195	60.14	83.44	3003	3456
3802	3077	2723	76.94	84.30	3842	3490	2986	2542	72.23	86.23	3640	3233	2588	1990	64.80	83.50	3283	3404
3655	2990	2647	74.91	85.39	3805	3513	2777	2463	71.98	85.38	3633	3345	2668	2049	65.82	82.00	3345	3481
3664	2932	2400	73.34	83.42	3744	3332	2637	2360	65.35	81.72	3412	3352	2694	2138	65.19	81.04	3352	3554
3594	2987	2498	72.50	84.06	3634	3391	2592	2322	68.13	83.71	3511	3279	2536	2030	64.94	82.53	3279	3135
3537	2942	2170	72.41	85.31	3587	3150	2385	2277	64.64	85.50	3210	3405	2635	2096	66.75	81.68	3555	3193
3377	2503	2284	65.32	80.61	3377	2583	2408	1950	56.92	91.80	2583	3352	2552	2166	67.02	83.30	3392	3270
3528	2693	2261	69.01	81.49	3578	2407	1862	1544	46.86	81.11	2407	3140	2413	2165	62.59	83.05	3140	3415
3326	2808	2329	68.37	85.66	3326	2458	1624	1302	44.32	75.14	2458	3282	2519	2173	67.07	85.14	3282	3582
3339	2704	2255	65.90	82.22	3459	2568	1718	1423	46.25	75.05	2568	3188	2447	2183	64.43	84.20	3238	3500
3386	2748	2112	66.96	82.39	3526	2753	1746	1491	47.78	72.32	2753	2812	2382	2141	58.75	87.04	2862	3341
3485	2777	2316	69.63	85.95	3705	2907	2225	1710	54.82	78.57	2907	3186	2294	1958	61.15	79.97	3186	3327
3478	2777	2530	71.74	85.95	3618	2862	2336	1363	56.76	82.63	2862	3180	2450	2160	64.99	85.14	3230	3139
3296	2587	2373	65.27	82.53	3316	3117	2404	1828	59.34	79.31	3117	3273	2553	2156	67.06	85.36	3353	3528
3548	2785	2337	69.71	81.87	3668	3034	2299	1917	57.97	79.62	3034	3180	2492	2151	62.89	82.40	3355	3466
3538	2863	2449	69.65	82.02	3578	3291	2500	1931	62.30	78.87	3291	3457	2739	2047	67.70	81.59	3457	3208
3459	2836	2381	68.90	83.00	3524	3292	2593	2009	63.56	80.45	3292	3455	2743	2283	69.08	83.30	3525	3302
3115	2875	2343	66.56	89.03	3155	3060	2407	2149	59.71	81.31	3060	3396	2767	2206	68.31	83.81	3546	3362
2953	2606	1986	61.23	86.39	2953	3396	2655	2102	65.37	80.22	3396	3419	2735	2253	68.42	83.39	3559	3126
3004	2341	1855	60.32	83.67	3004	3388	2734	2295	67.43	82.93	3638	3439	2816	2308	69.83	84.61	3559	3026
2768	2231	1914	55.90	84.16	2768	3331	2732	2246	66.52	83.21	3391	3472	2655	2336	70.20	84.25	3542	3229
2992	2408	1759	59.75	83.20	2992	3256	2768	2227	65.65	84.02	3356	3315	2599	2337	66.08	83.06	3315	3387
3170	2504	1843	60.55	79.60	3170	3133	2562	2064	64.74	86.10	3253	3541	2794	2405	71.19	83.77	3541	3369
3276	2598	1927	63.00	80.13	3276	3162	2635	2098	64.25	84.67	3162	3463	2841	2360	69.91	84.11	3463	3235
3395	2685	2055	65.54	80.44	3395	2895	2425	2087	58.45	84.13	2895	3406	2811	2318	68.79	84.16	3406	3358
3327	2656	2148	65.51	82.04	3327	3247	2589	1932	63.00	80.83	3347	3489	2738	2264	67.63	80.78	3489	3063
3351	2572	2172	66.04	82.13	3401	3293	2538	1908	63.42	80.23	3413	3567	2778	2293	69.79	81.53	3567	2950
3167	2458	2215	62.00	81.56	3167	3228	2552	2083	65.42	84.45	3528	3421	2764	2426	70.89	86.34	3571	3422
3477	2740	2245	68.25	81.78	3567	3170	2709	2123	65.47	86.07	3300	3155	2630	2304	64.66	85.39	3155	3229
3537	2716	2348	70.09	85.77	3627	3308	2621	2015	65.67	82.71	3358	3282	2746	2236	67.64	85.89	3482	3186
3466	2716	2381	71.35	85.77	3566	3210	2639	2121	66.07	85.76	3285							3031

Table 31 continued

TABLE 31
DEMAND AND CONSUMPTION

10/19					11/19					12/19					Max. Demand (MW)	Morning peak (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)
2825	2245	68.87	83.02	3576	3296	2593	1829	62.12	78.54	3296	3179	2713	2352	64.02	83.91	3179	3649	2992
2575	2310	67.50	82.61	3454	3316	2480	2063	64.94	81.59	3361	3409	2716	2275	69.02	84.36	3409	3751	2882
2871	2237	69.95	83.73	3591	2947	2458	2192	60.18	85.08	2947	3562	2910	2385	69.68	81.52	3562	3732	3028
2859	2404	72.27	84.73	3624	3472	2687	2046	66.73	80.09	3472	3652	2799	2287	69.54	79.34	3652	3654	3017
2810	2476	69.31	92.12	3135	3548	2752	2329	69.25	81.33	3548	3460	2843	2422	69.96	84.23	3460	3380	2770
2557	2258	64.04	83.57	3193	3624	2859	2387	70.72	81.31	3624	3548	2817	2295	68.71	80.69	3548	3751	2899
2547	2213	66.09	84.21	3270	3645	2850	2428	71.15	81.32	3645	3499	2699	2368	69.66	82.95	3499	3725	2992
2663	2300	68.59	83.70	3415	3521	2854	2464	71.46	84.56	3521	3305	2596	2279	64.44	81.24	3305	3335	2627
2834	2420	71.81	83.54	3582	3362	2703	2428	69.58	86.23	3362	3582	2791	2298	70.27	81.73	3652	3717	2955
2913	2427	71.65	85.30	3600	3046	2609	2203	62.21	85.09	3046	3523	2877	2456	71.36	84.40	3623	3616	2948
2888	2400	70.19	87.54	3371	3451	2689	2220	67.82	81.88	3451	3583	2919	2471	72.31	84.09	3683	3471	2795
2641	2353	68.58	85.89	3327	3461	2817	2363	69.69	83.90	3461	3620	2927	2433	72.44	83.38	3670	3191	2506
2554	2195	62.68	83.21	3139	3665	2813	2386	70.78	80.46	3665	3640	2861	2503	72.30	82.76	3680	3562	2835
2665	2162	68.60	81.02	3528	3590	2846	2444	71.27	82.72	3590	3368	2824	2509	70.34	87.02	3368	3610	2896
2761	2278	69.36	83.39	3466	3681	2889	2487	72.36	81.90	3681	3243	2539	2302	63.30	81.32	3243	3518	2856
2882	2270	67.46	87.61	3208	3614	2839	2480	72.02	83.02	3614	3535	2701	2256	68.79	81.09	3535	3577	2879
2735	2247	67.26	84.86	3302	3285	2699	2362	65.32	82.85	3285	3325	2717	2344	67.09	84.06	3325	3608	2936
2824	2343	68.04	84.32	3362	3705	2792	2416	72.19	81.18	3705	3541	2811	2343	69.82	82.16	3641	3569	2859
2701	2203	66.97	89.27	3126	3493	2972	2570	72.48	86.47	3533	3565	2897	2338	71.11	83.11	3665	3410	2693
2491	2245	61.64	84.86	3026	3439	2870	2489	71.39	86.49	3489	3498	2907	2445	71.69	85.39	3548	3746	2904
2597	2132	63.21	81.56	3229	3481	2912	2423	71.12	85.14	3601	3431	2823	2388	70.03	85.04	3431	3723	3023
2583	2084	65.80	80.93	3387	3450	2888	2376	71.79	86.70	3570	3249	2561	2360	64.61	82.85	3249	3761	2988
2656	2161	65.87	81.45	3369	3498	2809	2513	71.71	85.43	3618	3522	2777	2389	71.72	84.86	3612	3796	2988
2652	2136	65.28	84.09	3235	3292	2633	2283	65.82	83.33	3292	3580	2824	2453	72.48	84.36	3650	3730	3020
2683	2082	64.81	80.42	3358	3617	2829	2446	71.96	82.90	3707	3278	2629	2468	66.91	85.04	3278	3541	2927
2521	2075	62.22	84.63	3063	3643	2896	2458	72.98	83.48	3693	3624	2840	2449	72.80	83.70	3624	3221	2629
2308	2029	57.19	80.77	2950	3687	2930	2512	73.42	82.96	3787	3682	2877	2585	74.50	84.30	3682	3706	2857
2547	2009	64.53	78.57	3422	3689	2975	2570	73.45	82.96	3749	3618	2923	2601	73.69	84.86	3618	3616	3033
2715	2182	64.23	82.89	3229	3627	2955	2548	74.19	85.23	3627	3325	2653	2403	66.43	83.26	3325	3755	3049
2695	2154	63.39	82.91	3186	3453	2846	2538	71.73	86.57	3453	3640	2840	2463	72.79	83.32	3640	3684	3061
2599	2006	60.45	83.09	3031							3716	2958	2517	73.61	82.53	3716	3669	3086

Table 31 continued

TABLE31
DEMAND AND CONSUMPTION

01/20				02/20						03/20					
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)
2563	73.44	83.86	3649	3551	2890	2586	73.76	86.55	3551	3673	2888	2410	71.75	81.40	3673
2520	75.31	83.65	3751	3345	2709	2371	66.97	83.41	3345	3930	3055	2708	78.78	83.53	3930
2567	75.29	84.05	3732	3634	2883	2471	73.41	84.18	3634	3833	3109	2841	79.92	86.88	3863
2648	74.91	85.44	3654	3624	2938	2518	74.13	85.24	3674	3860	3157	2769	79.74	86.08	3860
2503	68.15	84.01	3380	3712	3020	2564	75.38	84.62	3712	3834	3119	2829	78.94	85.78	3834
2474	73.71	81.88	3751	3777	2986	2592	75.16	82.91	3777	3752	3103	2797	79.19	87.94	3752
2564	74.44	83.27	3725	3676	3119	2642	75.14	85.18	3676	3745	3082	2851	79.38	88.33	3745
2422	66.83	83.49	3335	3491	2909	2483	73.17	87.34	3491	3758	2981	2581	73.97	82.01	3758
2455	73.05	81.88	3777	3373	2709	2413	67.01	82.77	3373	3838	3048	2835	80.19	87.07	3838
2543	73.39	84.57	3686	3730	2993	2465	73.90	82.55	3730	3999	3125	2892	81.12	84.52	3999
2495	70.85	85.05	3471	3795	2967	2548	75.57	82.97	3795	3945	3117	2850	82.32	86.94	3945
2190	63.19	82.50	3191	3841	2994	2597	76.00	82.43	3841	4015	3129	2873	82.68	85.80	4015
2249	69.22	80.97	3562	3858	3118	2663	77.96	84.21	3858	3975	3131	2910	82.46	86.43	3975
2333	70.26	81.10	3610	3795	3159	2726	77.92	87.05	3795	3926	3061	2890	81.52	86.53	3926
2299	70.24	83.19	3518	3753	3054	2741	78.40	87.05	3753	3869	2961	2590	75.39	81.19	3869
2307	70.18	81.75	3577	3589	2845	2575	71.89	83.45	3589	4087	3063	2861	82.84	86.34	4087
2421	71.59	82.69	3608	3802	3020	2607	77.20	84.61	3802	4068	3153	3001	84.29	86.34	4068
2455	72.17	84.24	3569	3830	3085	2672	77.17	83.95	3830	4182	3209	2974	84.58	84.27	4182
2504	67.75	82.79	3410	3732	3111	2634	76.49	85.40	3732	4083	3201	3060	85.13	86.87	4133
2463	73.30	81.52	3746	3647	2968	2608	75.32	86.05	3787	4074	3220	2957	84.15	86.07	4144
2573	75.53	84.52	3723	3609	2917	2568	74.76	86.32	3609	3738	3150	2988	81.38	90.71	3738
2568	74.84	82.90	3761	3738	2944	2674	76.75	85.54	3738	3628	2836	2360	69.89	80.26	3628
2591	76.02	83.43	3796	3576	2784	2495	70.94	82.65	3576	3557	2842	2719	75.16	88.04	3557
2609	76.25	85.18	3730	3823	3005	2663	77.97	84.97	3823	3600	2668	2450	69.81	80.79	3600
2615	73.87	86.92	3541	3885	3110	2789	79.12	84.86	3885	3362	2662	2399	66.50	82.41	3362
2323	65.13	84.26	3221	3870	3132	2809	79.48	85.58	3950	3521	2501	2296	65.64	77.69	3521
2370	72.16	81.12	3706	3964	3094	2844	80.22	84.31	3964	3546	2572	2310	66.53	78.17	3546
2483	73.99	85.24	3691	3856	3188	2840	80.22	86.67	3856	3581	2563	2322	67.33	78.34	3581
2554	74.82	83.02	3755	3753	3131	2820	79.00	87.71	3753	3569	2644	2330	67.61	78.93	3569
2539	74.56	84.32	3734							3661	2674	2471	69.35	78.93	3661
2613	75.01	85.18	3719							3771	2707	2462	70.09	77.45	3771

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
2019-20	52.38	37.44	15.08	24.15	4.78	5.96	20.32	26.17	1.53	0.69			1.61	1.25	2.71	2.82	0.25	0.14	1.34	1.38

* included in Industrial LT from 2002-03

** Commercial LT includes General LT VI and from 2019-20 onwards LTX Electric Vehicle Charging Stations

*** Railway Traction includes KMRL also

TABLE 33

LIST OF EHT CONSUMERS 2019-20

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	9918	9352	9166	59725640	Tyre
2	21/1029	ASSISTANT SECRETARY, THRISSUR CORPORATION	Licensee: Thrissur Corporation	66	8000	13868	12683	9287	51453000	Distribution Licensee
3	12/941	AUTOKAST LIMITED	EHT II (110 kV) INDUSTRIAL	110	3000	3040	2650	2170	5678500	Fost Gray Iron, & Cast Iron casting
4	31/3416	BELIEVERS CHURCH	EHT GENERAL (A)	110	2000	1800	1682	1496	11152860	Biblical Seminary & CBSE school
5	15/3809	BHARAT PETROLEUM CORPORATION LTD	EHT II (110 kV) INDUSTRIAL	110	2600	2432	2387	2388	14755440	Nil
6	16/1666	BHARATH PETROLEUM CORPORATION, ERNAKULAM	EHT II (110 kV) INDUSTRIAL	110	850	887	946	1049	2656000	NIL
7	8/1234	CARBORUNDUM UNIVERSAL LTD, EDAPPALLY	EHT I (66 kV) INDUSTRIAL	66	18000	17365	18531	18440	94891798	BROWN FUSED ALUMINA
8	8/854	CARBORUNDUM UNIVERSAL LTD, KORATTY	EHT II (110 kV) INDUSTRIAL	110	7500	6592	6253	6345	45342550	Abresive grains
9	29/3507	COCHIN INTERNATIONAL AIRPORT	EHT GENERAL (B)	110	9000	6747	7668	7146	539156	air transport
10	21/1135	COCHIN PORT TRUST	Licensee: CPT	110	6500	6253	4941	4146	28757550	
11	2/201	COCHIN REFINERIES LTD	EHT III (220 kV) INDUSTRIAL	220	40000	67440	38680	58680	121670600	Petroleum Products
12	21/845	COCHIN SHIPYARD LIMITED	EHT I (66 kV) INDUSTRIAL	66	8500	8466	6196	4494	32473500	
13	8/4201	COCHIN SPECIAL ECONOMIC ZONE AUTHORITY (CSEZA)	Licensee: CSEZ	110	13000	11638	9204	8148	57873450	LICENSEE
14	5/202	FACT COCHIN DIVISION	EHT II (110 kV) INDUSTRIAL	110	12000	10238	9948	10364	61681150	FACTOMFOS 20:20
15	5/501	FACT, UDYOGAMANDAL	EHT II (110 kV) INDUSTRIAL	110	14000	17880	16040	16000	70608462	
16	8/4208	GOVERNMENT MEDICAL COLLEGE	EHT GENERAL (A)	110	1000	810	610	590	3603700	medical college co.op sector
17	4/437	GRASIM INDUSTRIES LTD	EHT I (66 kV) INDUSTRIAL	66	500	34	33	37	129900	Water supply to colony & power supply to colony % street light
18	1/124	GTN TEXTILES LTD	EHT II (110 kV) INDUSTRIAL	110	4500	3586	3546	3540	26205790	Yarn
19	3/325	HINDALCO INDUSTRIES LTD	EHT II (110 kV) INDUSTRIAL	110	5000	2788	3172	3066	13321880	Aluminium billets & extrusions
20	8/851	HINDUSTAN MACHINE TOOLS LTD	EHT I (66 kV) INDUSTRIAL	66	2900	2376	1319	1807	2685700	CNC Lathes, Conventional Lathes, Printing Machines
21	11/1141	HINDUSTAN NEWS PRINT LTD	EHT II (110 kV) INDUSTRIAL	110	22000	20940	14180	21240	10644300	Newsprint
22	15/1515	HINDUSTAN ORGANIC CHEMICALS LTD	EHT I (66 kV) INDUSTRIAL	66	8000	6124	6140	6166	31112600	
23	13/1320	INDIAN TELEPHONE INDUSTRIES	EHT I (66 kV) INDUSTRIAL	66	1500	1595	1420	685	3393000	ELECTRONIC TELEPHONE EXCHANGES PRINTED CIRCUIT BOARDS, SIM CARDS
24	1/153	INDSIL ELECTROMELTS LTD	EHT I (66 kV) INDUSTRIAL	66	14000	10422	10278	10347	60127620	SILICO MANGANESE
25	3/9049	INOX AIR PRODUCTS PVT LTD	EHT II (110 kV) INDUSTRIAL	110	6700	6469	6118	6160	8494080	
26	13/1351	INTERNATIONAL AIRPORT AUTHORITY OF INDIA	EHT GENERAL (B)	66	3000	2776	2552	2831	15940575	AIRPORT
27	18/635	KERALA MINERALS & METALS LTD.	EHT II (110 kV) INDUSTRIAL	110	15000	12100	13040	12008	77742500	Titanium dioxide pigment
28	8/4008	KINESCO POWER & UTILITIES PVT LTD (KPUPL)	Licensee: KPUPL	110	13000	17992	15330	10510	87355500	LICENSEE
29	33/8720	KINFRA MEGA FOOD PARK	Licensee: KPUPL	22	300	285	275	252	167464	
30	26/8963	KOCHI METRO RAIL LIMITED	KMRL (Kochi Metro Rail Ltd)	110	3000	2212	4070	3038	3355725	
31	26/7876	KOCHI METRO RAIL PROJECT	KMRL (Kochi Metro Rail Ltd)	110	3000	5060	4860	3360	13591143	
32	2/3737	KOCHI REFINERIES LTD - PUMPING STATION	EHT I (66 kV) INDUSTRIAL	66	1400	1375	1361	1376	7603200	water pumping
33	7/716	MADRAS RUBBER FACTORY LTD (MRF)	EHT II (110 kV) INDUSTRIAL	110	10000	8064	7948	7150	49959500	Tyre, Tube, Tyre Repair Materials, Masticated Rubber
34	15/14/1337	MALABAR CEMENTS, WALAYAR (15/14/1337)	EHT II (110 kV) INDUSTRIAL	110	10000	9346	6776	9312	38526050	CEMENT
35	31/4352	MPS STEEL CASTINGS PVT.LTD	EHT II (110 kV) INDUSTRIAL	110	2000	0	0	0	0	sponge iron and steel
36	19/4025	PARAGON STEELS PVT. LTD.-UNIT II	EHT II (110 kV) INDUSTRIAL	110	7000	6267	4887	6453	20833600	CTD/TMT BARS - STEEL
37	26/7324	PATSPIN INDIA LTD	EHT II (110 kV) INDUSTRIAL	110	4400	3982	3954	4028	24131700	
38	9/333	PHILLIPS CARBON BLACK LTD	EHT I (66 kV) INDUSTRIAL	66	1500	4592	4508	4440	1225850	CARBON BLACK Factamfos Ammonium Sulphate Caprolactam (Final Products)
39	9/731	PRECOT MERIDIAN 'A' UNIT	EHT I (66 kV) INDUSTRIAL	66	4500	4012	4020	4020	30009830	COTTON YARN
40	9/4487	PRECOT MERIDIAN LTD (C & D UNITS)	EHT II (110 kV) INDUSTRIAL	110	2700	2508	2458	2470	17246810	Cotton yarn (fine), 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
41	4/438	PREMIER TYRES LTD	EHT I (66 kV) INDUSTRIAL	66	4750	4152	3892	3384	21999700	Automotive Tyres
42	2/3975	RUBBER PARK INDIA PVT. LTD,IRAPURAM,ERNAKULAM	Licensee: RPL	110	6700	6328	5324	5780	26756260	Licensee (Power given to Various Product Manufacturing companies)
43	8/1140	SAINT GOBAIN INDIA (P) LIMITED	EHT II (110 kV) INDUSTRIAL	110	12000	9490	9208	9380	45930350	
44	30/4748	SOUTHERN RAILWAY,TRACTION SUB STATION,CHINGAVANAM	EHT II (110 kV) RT	110	7000	9070	6690	10340	23444658	RLWY TRACTION
45	30/8080	SOUTHERN RAILWAY,TRACTION SUB STATION,PALAKKAD	EHT II (110 kV) RT	110	8000	9460	9400	8000	22077200	RLWY TRACTION
46	30/8392	SOUTHERN RAILWAY TRACTION UPPALA	EHT II (110 kV) RT	110	5000	6640	4400	5160	7228000	RLWY TRACTION
47	30/7701	SOUTHERN RAILWAY, TRACTION SUB STATION, KANNUR	EHT II (110 kV) RT	110	7000	8250	7250	6793	16404500	RLWY TRACTION
48	30/8629	SOUTHERN RAILWAY,PALAKKAD	EHT II (110 kV) RT	110	8000	6600	6080	5560	13704000	RLWY TRACTION
49	30/4462	SOUTHERN RAILWAY,TRACTION SUB STATION, KAZHAKUTTAM	EHT II (110 kV) RT	110	8500	8850	10274	6738	27361850	RLWY TRACTION
50	30/4337	SOUTHERN RAILWAY,TRACTION SUB STATION, PUNNAPRA	EHT II (110 kV) RT	110	5000	4860	0	0	11710475	RLWY TRACTION
51	30/3444	SOUTHERN RAILWAY,TRACTION SUB STATION, SHORANUR	EHT II (110 kV) RT	110	12000	14370	11510	12300	41683500	RLWY TRACTION
52	30/3899	SOUTHERN RAILWAY,TRACTION SUB STATION,KADAVANTHRA	EHT II (110 kV) RT	110	8000	10023	10317	8711	30873838	RLWY TRACTION
53	30/3116	SOUTHERN RAILWAY,TRACTION SUB STATION,KANJIKODE	EHT II (110 kV) RT	110	12500	12256	12146	12791	28122200	RLWY TRACTION
54	30/4619	SOUTHERN RAILWAY,TRACTION SUB STATION,PERINAD	EHT II (110 kV) RT	110	10500	11614	10802	9091	33519100	RLWY TRACTION
55	30/3607	SOUTHERN RAILWAY,TRACTION SUB STATION. CHALAKUDY	EHT II (110 kV) RT	110	9500	10210	8990	11638	36381718	RLWY TRACTION
56	30/8000	SOUTHERN RAILWAY,TRACTION SUBSTATION,,ELATHUR	EHT II (110 kV) RT	110	8000	7820	7200	6380	18690800	RLWY TRACTION
57	7/702	STEEL COMPLEX LTD	EHT II (110 kV) INDUSTRIAL	110	3000	103	123	114	149600	Mild Steel Billet
58	2/256	TECHNO PARK	Licensee: Technopark	110	15000	15860	13167	6774	61960650	IT Software firm
59	33/9195	TECHNOCITY	Licensee: Technopark	110	1000	60	52	50	21925	
60	2/5163	TECHNOPARK PHASE II&III,THIRUVANANTHAPURAM	Licensee: Technopark	110	5000	6824	6222	3674	29202375	IT Software firm
61	6/602	TRANSFORMERS & ELECTRICALS KERALA LTD	EHT I (66 kV) INDUSTRIAL	66	2000	1749	1272	951	4416800	Power Transformer
62	1/102	TRAVANCORE COCHIN CHEMICALS LTD(TCC)	EHT II (110 kV) INDUSTRIAL	110	24000	20740	20660	20718	167335100	1)CAUSTIC SODA-LYE& FLAKES. 2)COMMERCIAL HCL ACID 3)LIQUID CHLORINE 4)SODIUM HYDROCHLORITE
63	1/103	TRAVANCORE TITANIUM PRODUCTS LTD	EHT I (66 kV) INDUSTRIAL	66	3500	2835	2085	2766	13230600	Titanium Dioxide (Anatase Grade)
64	7/709	VIKRAM SARABHAI SPACE CENTRE,ISRO,THUMBA	EHT GENERAL (B)	110	12000	12408	4512	3288	34652800	Research Organisation
65	2/502	WESTERN INDIA PLYWOOD LTD	EHT II (110 kV) INDUSTRIAL	110	3500	2804	2594	2559	13163350	Hardboard, Plywood, ,Free compressed ,press board

TABLE 34

LIST OF EHV AND 33 kV SUBSTATIONS(2019-20)

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. 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	3	600			
			110/11	10	2	20			
	Total				8	1565		8	
	TOTAL-400 kV Substations	TRANSMISSION SUBSTATION		1	SWITCH YARD	0			
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	12.5	1	12.5			
2	Ambalamugal (BPCL)	Kalamassery	220/33	50	2	100	Apr-12, May-13	0	
3	Brahmapuram	Kalamassery	220/110	160	2	320	Nov-99	12	7 nos. to 12
			110/11	12.5	2	25	03/2019		1 nos. to 2
			110/33	16	1	16			110/11kV 10 MVA replaced
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	11	10 nos. to 11
			110/66	63	2	126			
			110/33	16	2	32	01/03/2019		newly added transformer 1 nos
			66/11	10	3	30			
6	Elankur	Manjeri	220/110	100	2	200	01/04/2020	4	newly added
			110/11	12.5	2	25	01/03/2020		
7	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		
8	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		
9	Kaniyampetta	Kozhikode	220/66	50	2	100	1994	4	
			66/33	20	2	40			
			66/11	10	2	20			1 nos. to 2
			66/11	6.3	0	0			1 nos. to 0
10	Kundara	Kottarakara	220/110	200	2	400	Jan-06	16	
			110/11	12.5	3	37.5			
11	Malaparamba	Malappuram	220/110	100	2	200	Nov-07	7	6 nos. to 7
			220/110	200	1	200	01/02/2020		New transformer
			110/11	12.5	2	25			
12	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			
			110/11	31.5	1	31.5			GTR (not included before)
13	Nallalam	Kozhikode	220/110	200	3	600	1950	15	one/two unit added on 03/2019
			220/110	100	1	100			one unit replaced (with 200)
			220/110	60	2	120			
			110/66	40	2	80			
			110/33	16	2	32			
			110/11	20	2	40	27.08.17 &27.10.17		12.5 trfrs replaced with 20
14	New Kattakkada	Thiruvananthapuram	220/110	200	1	200	24.7.2017	0	
15	New Pallom	Poovanthuruthu	-	-	-	Nov-99		Switching Station	
16	Orkatteri (Vadakara)	Kozhikode	220/110	100	2	200	May-09	5	
			110/11	12.5	2	25	May-09, Feb-14		
17	Pallom	Poovanthuruthu	220/110	200	2	400	1965	11	8 nos. to 11
			110/66	63	3	189			
			110/11	12.5	1	12.5	01/11/2016		newly added
			66/11	10	2	20			
18	Palakkad	Palakkad	220/110	160	3	480	May-97, 16/03/2019	20	transformer 1 newly added
			110/22	25	5	125	May-97, May-12		All 20 are 22kV feeders
19	Pothencode	Thiruvananthapuram	220/110	200	3	600	1989	14	11 nos. to 14
			110/11	12.5	3	37.5			

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
			110/11	10	1	10			
20	Punnapra	Alappuzha	220/110	200	2	400	01/06/2018	9	newly added transformer 1 nos feeders 7 nos. to 9
			110/66	63	2	126	1984		
			110/33	16	1	16	2008		
			66/11	10	2	20	1984		
21	Shornur	Palakkad	220/110	100	2	200	Jan-04	8	7 nos. to 8 including industrial urban newly added; no details found
			220/110	200	1	200			
			110/11	12.5	2	25			
22	Taliparamba	Kannur	220/110	100	2	200	Mar-05	8	7 nos. to 8 including TALIPARAMBA U.G CABLE
			110/33	16	2	32	Jul-03		
			110/11	10	2	20	May-98		
23	Solar Park, Ambalathara	Kannur	220/33	100	2	200	30.08.2017	1	
			220/110	100	1	100			
			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			
c	Lower Periyar (Switch Yard)	Gen.Circle, Kothamangalam							Switch Yard
									6 220 kV feeders
23+ c	TOTAL-220 kV Substations				133	9255.1		186	
		TRANSMISSION SUBSTATION		23	SWITCH YARD	3			
III. 110 kV Substations in operation									
1	Adimali	Thodupuzha	110/11	10	2	20	May-99, 08/2018	4	newly added transformer 1 nos + 1 feeder
2	Agastiamoozhi	Kozhikode	110/33	16	2	32	Jan-04	5	6 nos. to 5
			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			
4	Ambalappuram	Kottarakara	66/11	10	3	30			
			110/33	16	2	32	Mar-03	6	5 nos. to 6
5	Anchal	Kottarakara	110/11	12.5	2	25			
			66/11	10	0	0	01/02/2011	7	not in service
6	Angamally	Thrissur	110/11	12.5	2	25			S/s upgraded on 24.12.2019
			110/11	20	2	40		12	12.5 replaced with 20 on 27.07.2017
7	Arangottukara	Thrissur	110/11	12.5	1	12.5	Feb-14	5	feeders 4 nos. to 5
			110/11	10	1	10	01/02/2019		Newly added
8	Aroor	Alappuzha	110/66	63	2	126	1994, Jan-05	11	feeders 10 nos. to 11
			110/11	20	1	20	01/09/2018		Newly added
			66/11	10	1	10	1994		Replaced 2 transf 10 MVA
9	Aruvikkara	Thiruvananthapuram	66/11	16	1	16	01/08/2016		Newly added Replacing 10 MVA
			110/11	10	1	10	Aug-98	7	Replaced 2 transf ; feeders 5 nos. to 7
10	Athani	Thrissur	110/11	12.5	1	12.5	01/07/2016		Newly added Replacing 10 MVA
			110/33	16	2	32	2001, _	10	feeders 8 nos. to 10; 1 16 MVA newly added
11	Attingal	Thiruvananthapuram	110/11	12.5	2	25	1992		
			110/66	20	2	40	Mar-05	11	feeders 10 nos. to 11
			110/33	16	2	32	2010, 2012		

Table 34- 110 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
			66/11	16	1	16	08/2018		newly added transfr 1, Replaced 1 transfr 12.5 MVA
			110/11	12.5	0	0			
			66/11	10	1	10			Replaced 1 transfr
12	Ayarkunnam	Poovanthuruthu	110/11	12.5	2	25	Mar-10	6	
13	Ayathil	Kottarakara	110/11	12.5	3	37.5	Mar-09	13	feeders 12 nos to 13
14	Ayoor	Kottarakara	66/11	10	0	0	1993	8	not in service transfr , feeder 7 to 8
			110/11	12.5	2	25	5/2020, 02/2020		S/s upgraded on 30.03.2020
15	Ayyampuzha	Thrissur	110/11	12.5	1	12.5	May-11	4	
			110/11	10	2	20	01/12/2018		Newly added
16	Azhikode	Kannur	110/33	16	2	32	2005/2017	9	feeders 5 to 9
			110/11	12.5	2	25	Apr-00		
17	Chakkittapara	Kozhikode	110/11	12.5	1	12.5	Dec-04	6	feeders 5 to 6
			110/11	10	1	10			
			110/33	16	2	32	2003, 2009		
			110/11	12.5	2	25			
18	Chalakudy	Thrissur	110/66	50	2	100			
			110/33	16	2	32	2003, 2009		
			110/11	12.5	2	25			
19	Chavara	Kottarakara	110/11	12.5	2	25	Mar-10	8	
20	Chelari	Malappuram	110/33	16	2	32	2003, 2009	8	
			110/11	12.5	2	25	Feb-03		
21	Chellanam	Alapuzha	110/11	12.5	2	25	Mar-07	7	feeders 6 to 7
22	Chengalam	Poovanthuruthu	110/11	10	2	20	Nov-94, Feb-13	9	feeders 7 to 9
			110/11	12.5	1	12.5			
23	Chengannur	Alapuzha	110/33	16	1	16	1. March 2009	9	
			110/11	12.5	1	12.5	1990		
			110/11	10	1	10			
24	Cherai	Kalamassery	110/12	12.5	2	25	6/2019, 10/2019		NEW S/s commissioned on 29.06.2019
25	Cherpu	Thrissur	110/33	16	1	16	2002	6	
			110/11	12.5	2	25	Dec-00		
26	Cherpulassery	Palakkad	110/11	12.5	2	25	Mar-04	6	feeders 5 to 6
27	Cherupuzha	Kannur	110/11	10	2	20	Jun-98	5	feeders 4 to 5
28	Cheruvathur	Kannur	110/33	16	2	32	Apr-02	6	feeders 5 to 6
			110/11	12.5	1	12.5	01/02/2020		newly added transfr
			33/11	5	2	10			
29	Chevayur	Kozhikode	110/66	25	2	50	1996	13	feeders 12 to 13
			110/11	20	4	80	10/1/2017, -, -		newly added 2 trans, 20 MVA 2 nos to 4;
			110/11	10	1	10			
30	Chovva	Kannur	110/11	12.5	1	12.5	Dec-10	8	
			110/11	20	1	20	01/08/2020		newly added, replaced 10 with 20 MVA
31	Edappal	Malappuram	110/11	12.5	2	25	Mar-00	7	
32	Edappally	Kalamassery	110/11	12.5	2	25	Mar-02	9	
			110/11	20	1	20	01/03/2020		newly added transfr
			110/33	16	1	16	Nov-13		
33	Edarikode	Malappuram	110/33	16	2	32	May-03, Mar-14	9	
			110/11	12.5	3	37.5	5/1/2003		
34	Edathuva	Alapuzha	110/33	16	2	32	Mar-08, 03/2019	6	newly added transformer 1 nos
			33/11	5	2	10			
35	Edayar	Kalamassery	110/11	12.5	3	37.5	Apr-00, Dec-13, 10/2018	12	newly added transformer 1 nos
			110/11	10	0	0			Replaced with 12.5
			66/11	10	1	10	Apr-00		
36	Eramallor	Alappuzha	110/11	12.5	2	25	01/06/2019	6	S/s commissioned on 20.06.2019
37	Eranakulam North	Kalamassery	110/11	12.5	2	25	06/2016 , 03/2017	13	
			66/11	10	1	10			
38	Erattupetta	Poovanthuruthu	110/11	12.5	2	25	Apr-01	6	

Table 34- 110 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
39	Erumeli	Poovanthuruthu	110/11	12.5	1	12.5	4.5.2017	6	feeders 4 to 6
			110/11	10	1	10			
40	Ezhimala	Kannur	110/11	12.5	1	12.5	Aug-01	3	
			110/11	10	1	10			
41	Gandhi Road (GIS)	Kozhikode	110/11	20	2	40	42583	13	
42	GIS, Kollam	Kottarakara	110/11	20	2	40	27.03.2017	10	feeders 6 to 10
43	Guruvayoor	Thrissur	110/33	16	1	16	Dec-04	11	feeders 7 to 11
			110/11	20	2	40	31.08.17 & 22.09.17		Capacity Enhancement
44	Irinjalakuda	Thrissur	110/33	16	2	32	Aug-03, Mar-06	6	
			110/11	20	1	20	01/12/2018		newly added replaced 1 10 MVA
			110/11	10	1	10	Dec-00		Replaced with 20mva
45	Iritty	Kannur	110/11	12.5	2	25	Jul-10	6	
			110/33	16	2	32	21.10.2017		2nd 16 MVA commsnd on 21.10.17
46	Kadavanthra	Kalamassery	110/11	10	2	20	Aug-97	9	tranfrs 3 nos. to 2
			110/11	12.5	0	0			not in service
47	Kalladikode	Palakkad	110/11	12.5	1	12.5	Mar-10	6	
			110/11	10	1	10			
48	Kaloor	Kalamassery	110/66	25	2	50	12/02/2010	13	
			110/33	25	2	50	12/02/2010		newly added transformer 2 nos
			110/33	16	1	16	2012		2nos to 1, 1 16 MVA replaced with 25 MVA
			110/11	12.5	1	12.5	1993		3 nos to 1, 2 nos replaced
			110/11	20	2	40	1/2017, 03/2018		newly added to replace 12.5 MVA
			66/11	10	1	10	2008		
49	Kandanad	Kalamassery	110/11	12.5	1	12.5	Jan-01	9	
				20	1	20	17.08.2017		12.5 nos. to 20 MVA
50	Kandassankadavu	Thrissur	110/33	16	2	32	Dec-04, -	7	newly added tranfr
			110/11	12.5	2	25			
51	Kanhangad	Kannur	110/33	16	2	32	1993, 09/2016	8	newly added tranfr, feeders 4 nos to 8
			110/11	12.5	2	25	1968		
52	Kanjikode	Palakkad	110/66	63	2	126	Jul-10	5	and 4 nos. 22 kV
			66/22	10	2	20	1993		
			66/11	10	2	20			
53	Kanjirappally	Poovanthuruthu	110/11	12.5	2	25	Mar-15/Feb-17	10	Feeders 8 to 10; Upgraded nos. to 110kV in 25-3-2015
54	Kattakada	Thiruvananthapuram	110/11	10	2	20	1996, Mar-14	10	Feeders 8 to 10
			110/11	12.5	1	12.5			
55	Kattoor	Thrissur	110/11	12.5	2	25	Feb-14	6	
56	Kavanadu	Kottarakara	110/11	12.5	2	25	1993	10	
57	Kayamkulam	Alapuzha	110/33	16	1	16	Sep-09	9	
			110/11	12.5	1	12.5	Jun-99		
			110/11	10	2	20			
58	Kilimanoor	Thiruvananthapuram	110/33	16	2	32	2004, 2008	6	
			110/11	10	2	20	Dec-98		
59	Kinaloor	Kozhikode	110/11	12.5	1	12.5	26.11.2017	7	feeder 5 to 7
60	Kizhakkambalam	Kalamassery	110/11	12.5	3	37.5	Feb-14	12	trsnfr 2 to 3
			66/11	10	0	0	1985		not in service
61	Kizhissery	Malappuram	110/33	16	2	32	2001, 2004	8	
			110/11	20	2	40	1990		Replaced 12.5 trsnfrs 2 nos
62	Kodakara	Thrissur	110/11	12.5	2	25	Apr-01, Jan-14	4	
63	Kodimatha	Poovanthuruthu	110/11	12.5	1	12.5	20.02.2016	9	
			110/11	10	1	10			
64	Kodungallur	Thrissur	66/11	10	0	0	1980	6	Substation upgraded 21.08.2019
			66/11	6.3	0	0			
			110/11	12.5	2	25	09/2019, 8/1/2019		newly added 2 tranfr
65	Koduvally	Kozhikode	110/11	12.5	2	25	Oct-09	6	

Table 34- 110 kV/S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
66	Kollengode	Palakkad	110/33	16	2	32	Dec-03	6	
			33/11	5	2	10			
67	Koodal	Pathanamthitta	110/11	12.5	2	25	May-13	6	
			66/11	5	1	5			newly added transf
68	Koottanad	Palakkad	110/33	16	1	16	Jun-02	8	
			110/11	12.5	2	25	Mar-00		
69	Koppam	Palakkad	110/33	16	2	32	2002	10	
			110/11	12.5	2	25	Oct-13, 1995		newly added transformer 1 nos
			110/11	10	0	0			Replaced with 12.5MVA
70	Kottarakara	Kottarakara	110/11	12.5	2	25	Dec-04	6	
71	Kottiyam	Kottarakara	110/33	16	0	0	2010	7	not in service
			110/11	12.5	0	0	May-98		not in service
			66/11	10	3	30	12/2010, 10/2005, 21/2007		newly added transformer 1 nos
72	Kozhenchery	Pathanamthitta	110/11	12.5	0	0	Mar-03	8	not in service
			110/11	10	2	20	9/1/2017, 2012		newly added trasnfr
73	Kozhinjampara	Palakkad	110/33	16	2	32	2009	6	
			110/11	12.5	3	37.5	Sep-08		newly added transformer 1 nos
74	Kubanoor	Kannur	110/11	12.5	1	12.5	1983	4	feeders 3 to 4
			110/11	10	1	10			
75	Kunnamangalam	Kozhikode	110/66	40	2	80	Nov-00	6	
			110/33	16	1	16			newly added trasnfr
			66/11	10	2	20	1997		
76	Kunnamkulam	Thrissur	110/33	16	1	16	Feb-05	9	feeders 7 to 9
			110/11	12.5	3	37.5	May-04		newly added transformer 1 nos
77	Kurumassery	Kalamassery	110/33	16	2	32	Dec-00	1	feeders 0 to 1
			33/11	5	1	5			newly added trasnfr
78	Kuthungal	Thodupuzha	110/33	16	1	16	Mar-14	2	
			33/11	5	1	5	Mar-14		
79	Kuthuparamba	Kannur	110/11	12.5	2	25	1990	6	Upgraded nos. to 110kV on 08.05.2015
80	Kuttippuram	Malappuram	110/11	12.5	1	12.5	Oct-00, Jan-14	11	feeders 10 to 11
			110/11	10	2	20			
			110/33	16	1	16	Mar-14		
			110/33	16	1	16	17/9/2020		Newly added DOE 17/9/20
			110/11	20	1	20			newly added trasnfr
81	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		
			110/11	10	1	10			newly added trasnfr
82	Marady	Thodupuzha	66/11	10	1	0	29.03.2018	3	feeders 1 to 3
			110/11			0			upgraded S/s
83	Mahe (Pondicherry Govt)	Kannur	110/11	10	2	20	6/11/1905		Not under the control of KSEBL
84	Mala	Thrissur	66/11	10	2	20	1993	7	feeders 6 to 7
			110/11	12.5	1	12.5	01/09/2019		S/s upgraded on 28.09.2019
85	Malampuzha	Palakkad	110/11	10	2	20	1994	8	
86	Malappuram	Malappuram	110/66	40	2	80	1976	10	feeders 8 nos to 10
			110/33	16	1	16	2001		
			110/11	12.5	3	37.5	1976		
87	Malayattur	Thrissur	110/33	16	2	32	Mar-05	6	
			110/11	10	2	20	Jun-05		
88	Mallappally	Pathanamthitta	110/33	16	1	16	Dec-03	8	feeders 7 nos to 8
			110/11	12.5	1	12.5	May-00		
			110/11	10	1	10			
89	Mangad	Kannur	110/11	12.5	2	25	1976	9	feeders 8 nos to 9
90	Manjeri	Malappuram	110/11	20	2	40	3.01.2018	7	newly added 1 trasnfr, feeder 6 to 7,
91	Manjeswaram	Kannur	110/11	12.5	1	12.5	May-97	5	feeders 4 to 5
			110/11	10	1	10			

Table 34- 110 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
92	Mannarkkad	Palakkad	110/33	16	2	32	Oct-01	7	feeders 5 nos to 7
			110/11	10	1	10	1990		one 10MVA trfr is replaced with 12.5 MVA
			110/11	12.5	1	12.5	09/08/2015		
93	Mattanchery	Kalamassery	110/66	25	2	50	Apr-02	11	
			66/11	10	3	30	1972, 1/2009, 05/2020		newly added transformer 1 nos
			66/11	8	1	8			
94	Mattanur	Kannur	110/33	16	2	32	Jul-10	6	
			110/11	12.5	2	25	Jul-10		
95	Mavelikkara	Alappuzha	110/66	40	2	80	Dec-09	9	
			66/11	10	3	30	Dec-09		
96	Medical College	Thiruvananthapuram	110/11	12.5	1	12.5	May-98	8	one tranfrormer replaced
			110/11	10	0	0			not in service
			110/11	20	1	20	01/10/2018		newly added transf
			110/33	16	2	32	15.05.2017,-		newly added transformer 1 nos
97	Melattur	Malappuram	110/33	16	1	16	Jan-06	5	feeders 3 nos to 5
			110/11	12.5	2	25	,05/2019		newly added transformer 1 nos
98	Meppayur	Kozhikode	110/33	16	2	32	Aug-04	4	
			110/11	10	1	10			newly added transf
			33/11	5	1	5			one tranfrormer replaced
99	Mulleria	Kannur	110/33	16	1	16		6	feeders 5 to 6
			110/11	10	3	30	Mar-01,-,-		newly added transformer 1 nos
100	Mundakkayam	Poovanthuruthu	110/11	12.5	2	25	09.11.2018	6	
			110/66	50	1	50			newly added transf
			66/33	16	1	16	01/12/2015		newly added transf
			66/11	8	1	8			newly added transf
			66/11	10	1	10			
101	Mundayadu	Kannur	110/66	40	2	80	1966	9	
			110/33	16	2	32	2001		newly added transformer 1 nos
			110/11	12.5	2	25	1966		
			110/11	10	1	10	01/09/2019		newly added transf
			66/11	10	1	10			
102	Muttom	Thodupuzha	110/11	12.5	1	12.5	22.01.2018	4	feeder 3 to 4
103	Muvattupuzha	Thodupuzha	110/33	16	2	32	2004	13	feeders 9 to 11
			110/11	12.5	3	37.5	1989, Dec-13		
104	Myloor (Pothanikad)	Thodupuzha	110/11	12.5	2	25	Mar-10	5	feeders 4 to 5
105	Nadapuram	Kozhikode	110/33	16	1	16	Dec-13	6	feeders 5 to 6
			110/11	12.5	2	25	Feb-01		
106	Nedumangadu	Thiruvananthapuram	110/33	16	0	0	2009	9	not in service
			110/33	25	2	50	03/2019		newly added transf
			110/11	12.5	1	12.5	07/2018		newly added transf
			110/11	10	1	10	Jun-05		one tranfrormer replaced
107	Nedumpoil	Kannur	66/11	6.3	2	12.6	6/2010, 04/2012	4	feeder 3 to 4.S/s upgraded
			66/11	10	1	10	01/12/2019		newly added transf
			110/11	10	1	10	01/04/2019		newly added transf
			110/33	16	1	16	01/07/2019		newly added transf
108	New Vyttila	Kalamassery	110/11	12.5	2	25	Dec-09	9	feeders 7 to 9
109	Neyyattinkara	Thiruvananthapuram	66/11	10	0	0	21. May 1905	9	Upgraded 30.04.2019
			66/11	8	0	0			not in service
			110/11	12.5	2	25			newly added trasnfr 2 nos
110	North Paravur	Kalamassery	110/33	16	2	32	2005	8	feeders 7 to 8
			110/11	12.5	1	12.5	1989		
			66/11	10	1	10			
111	Ollur	Thrissur	110/33	16	2	32	2001	12	feeders 9 to 12
			110/11	12.5	3	37.5	Jan-01, Sep-13, Apr-17		12.5 added on 13.04.17

Table 34- 110 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
112	Ottapalam	Palakkad	66/11	10	0	0	Aug-01		not in service
			110/11	12.5	2	25	1989, 11/26/2004	7	feeders 5 to 7, 1 newly added transf
113	Pala	Poovanthuruthu	110/66	40	2	80	1985	9	feeders 8 to 9
			110/33	16	2	32	2009		
			66/11	10	2	20	1985		
114	Pampady	Poovanthuruthu	110/11	12.5	2	25	27.01.16 29.04.16	9	feeders 7 to 9, Upgraded nos. to 110kV in 27.01.16
115	Panangad	Kalamassery	110/11	12.5	2	25	28/05/2012	7	feeders 4 to 7
116	Panoor	Kannur	110/33	16	2	32	2003	5	newly added transformer 1 nos
			110/11	10	2	20	1994		
117	Parali	Palakkad	110/33	16	2	32	2005	6	
			110/11	10	2	20	1988		
118	Parappanagadi	Malappuram	110/11	12.5	2	25	30.12.2016	6	
119	Parassala	Thiruvananthapuram	110/66	50	0	0	May-00	7	feeders 6 to 7, 50 MVA trnsf not in service
			110/33	16	2	32	2008		
			110/11	12.5	2	25	May-00		
120	Parippally	Kottarakara	110/33	16	1	16	Nov-13	9	feeders 8 to 9
			110/11	12.5	2	25	Sep-10		
121	Paruthippara	Thiruvananthapuram	110/66	63	2	126	1978	15	
			110/11	20	3	60			
122	Pathanamthitta	Pathanamthitta	110/33	16	4	64	2003	13	newly added transformer 2 nos, feeders 11 to 13
			110/11	12.5	3	37.5	1999, Aug-14		
123	Pathanapuram	Kottarakara	110/11	12.5	2	25	Sep-09	8	
124	Pathirippala	Palakkad	110/11	12.5	1	12.5	Oct-13	4	
			110/11	10	1	10	Aug-11,		
125	Payyangadi	Kannur	110/11	12.5	2	25	Dec-97	6	feeders 5 to 6
						0			
126	Payyannur	Kannur	110/33	16	1	16	June-05	9	
			110/11	12.5	2	25	Apr-81		
			110/11	10	1	10			
127	Pazhayannur	Thrissur	110/11	12.5	1	12.5	Apr-97	5	feeders 4 to 5
			110/11	10	1	10			
128	Perinadu	Kottarakara	110/11	12.5	2	25	08-02-16	6	feeders 4 to 6
129	Perinthalmanna	Malappuram	110/11	20	2	40	31.03.2017	13	feeders 7 to 13, 10MVA replaced with 20 22.01.2018
130	Perumbavoor	Thodupuzha	110/33	16	1	16	Jun-03	10	
			110/11	12.5	0	0			not in service
			110/11	20	1	20			newly added transf replaced 12.5
			66/11	10	2	20			
131	Pinarayi	Kannur	110/33	16	2	32	Mar-01	6	feeders 4 to 6
			33/11	5	2	10			
132	Piravom	Thodupuzha	110/11	12.5	1	12.5	01/03/2014	11	
			110/11	10	2	20			
133	Ponnani	Malappuram	110/11	12.5	2	25	Jan-03	6	
134	Pudukkad	Thrissur	110/11	12.5	2	25	18-5-2015 31-7-2015	7	
135	Pullazhy	Thrissur	110/11	20	2	40	Mar-08	8	feeders 7 to 8 , 12.5MVA replaced with 20 on 25.04.17
136	Punalur	Kottarakara	110/11	12.5	2	25	Jan-03	11	feeders 9 to 11
137	Punnayurkulam	Thrissur	110/11	12.5	2	25	Aug-05	7	feeders 6 to 7
138	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	27/10/2015		
139	Ranni	Pathanamthitta	110/11	12.5	2	25	Mar-01	9	feeders 6 to 9
			110/33	16	1	16			newly added transf
140	Rayonpuram	Thodupuzha	110/11	12.5	2	25	Sep-11, Nov-13	8	feeders 3 to 8

Table 34- 110 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
			110/33	16	1	16			
141	S.L. Puram (Kanjikuzhi)	Alappuzha	110/11	12.5	2	25	Aug-09	8	feeders 6 to 8
142	Sasthamcotta	Kottarakara	110/66	20	1	20	1993	10	
			110/11	12.5	1	12.5			
			110/11	10	2	20			
			110/66	40	0	0			not in service
			110/66	50	1	50			newly added transfr
143	Sreekantapuram	Kannur	66/11	10	0	0	Apr-97	7	feeders 8 to 7
			110/11	12.5	2	25	07/2019		S/s upgraded on 28.11.2019
144	Technopark (Kazhakuttam)	Thiruvananthapuram	110/11	12.5	1	12.5	Jun-99	12	not in service one tranformer replaced
			110/11	10	0	0			not in service
			110/11	20	3	60			newly added 2 trans
145	TERLS	Thiruvananthapuram	110/66	40	2	80	Nov-04	10	feeders 9 to 10
			110/11	12.5	2	25			
146	Thalassery	Kannur	110/11	12.5	2	25	1990	12	
			110/11	10	1	10			
147	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			
148	Thrikodithanam	Poovanthuruthu	110/11	12.5	2	25	Mar-08	6	
			110/33	16	1	16	Feb-13		
149	Thycattusery	Alappuzha	110/33	16	2	32	2008	8	feeders 6 to 8
			110/11	10	2	20	Dec-03		
150	Tirur	Malappuram	110/11	12.5	1	12.5	Apr-00	12	replaced 2 transfr with 20 MVA
			110/11	20	2	40			newly added trans 2 nos
151	Udumbannoor	Thodupuzha	110/33	16	2	32	Apr-05	4	
			33/11	5	2	10	Dec-05		
152	Vadakara	Kozhikode	110/33	16	1	16	2008	10	feeders 8 to 10
			110/11	10	1	10			newly added transfr
			110/11	12.5	2	25	1970		replaced 1 transfr with 10 MVA
153	Vadakkanchery	Palakkad	110/33	16	2	32	2006, 2010	7	feeders 6 to 7
			110/11	12.5	1	12.5	Mar-99		
			110/11	10	1	10			
154	Vaikom	Poovanthuruthu	110/66	40	2	80	1971	8	feeders 7 to 8
			110/33	16	1	16	2009		
			110/11	12.5	1	12.5	41456		
			110/11	10	2	20			
155	Valapad	Thrissur	110/33	16	2	32	Dec-05	9	feeders 7 to 9
			110/11	10	3	30	Dec-00		newly added 1 transfr
156	Valiavelicham	Kannur	110/11	12.5	1	12.5	27.03.2018	3	feeder 1 to 3
			110/66	40	1	40			newly added transfr
157	Varkala	Thiruvananthapuram	110/11	10	2	20	Oct-06, Jun-14	11	feeders 10 to 11
			110/11	12.5	1	12.5			
			110/33	16	1	16			newly added transfr
158	Veli	Thiruvananthapuram	110/11	20	2	40	28.03.2018	9	newly added 1 transfr
			66/11	10	0	0	1973		not in service
			66/11	8	0	0			not in service
			110/66	40	1	40			newly added transfr
159	Vennakkara	Palakkad	110/66	40	1	40	1971	12	
			110/33	16	1	16			
			110/11	12.5	0	0			not in service, replaced with 20 MVA
			110/11	20	2	40			newly added 2 transfr
			66/11	10	1	10			
160	Vidhya Nagar	Kannur	110/33	16	2	32	11.08.1974, 29.04.17	10	feederes 8 to 10
			110/11	20	2	40			
161	Viygur	Thrissur	110/66	63	2	126	1998	9	feederes 8 to 9
			110/33	16	2	32	2007		

Table 34- 110 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
			110/11	12.5	2	25	1998		
162	Vyttila	Kalamassery	110/66	63	1	63	1978	9	
			110/66	40	1	40			
			110/11	12.5	2	25			
163	Wadakkanchery	Thrissur	110/33	16	1	16	Dec-05	6	
			110/11	12.5	2	25			
164	Walayar	Palakkad	110/22	25	1	25	Mar-11	0	
			110/22	10	1	10			newly added tranfr
165	West Hill	Kozhikode	110/11	12.5	3	37.5	1980	14	feeder 13 to 14
166	Willington Island	Kalamassery	110/11	10	2	20	Nov-97	6	
a	Kakkad	Gen. circle, Moozhiyar	110/11	12.5	2	25	1999	3	Switch yard
b	Kakkayam	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
166	TOTAL- 110 kV SUBSTATIONS				567	8900.1		1297	
+g		TRANSMISSION SUBSTATION		166	SWITCH YARD	7			
IV. 66 kV Substations in operation									
1	Adoor	Pathanamthitta	66/11	10	2	20	1979	10	feeders 7 to 10
			66/11	7.5	1	7.5			newly added tranfr
2	Alappuzha	Alappuzha	66/11	10	1	10	2005	10	replaced 1 tranfr with 16 MVA
				16	2	32	7/2016, 02/2019		newly added 1 tranfr
3	Anju Kunnu	Malappuram	66/11	5	1	5	Nov-12	3	
			66/11	10	1	10	13.6.17		5 MVA replaced with 10
4	Balaramapuram	Thiruvananthapuram	66/11	10	2	20	16/01/2014	3	
5	Chandranagar (Palakkad Medical College)	Palakkad	66/11	10	2	20	28.03.2016	7	feeders 6 to 7
6	Changanassery	Poovanthuruthu	66/11	10	3	30	1979	10	feeders 9 to 10
7	Cherthala	Alappuzha	66/11	10	3	30	1968	10	feeders 9 to 10
8	Chittoor	Palakkad	66/11	10	2	20	1990	7	
9	Chumathra	Pathanamthitta	66/11	10	2	20	1989	8	newly added 1 tranfr
		Pathanamthitta	66/11	6.3	0	0			not in service
10	Cyber Park	Kozhikode	66/11	10	1	10	01.06.2017	2	feeders 0 to 2
			66/11	16	1	16			
11	Edakkara	Malappuram	66/11	10	2	20	01/02/2006	4	
12	Edathala	Kalamassery	66/11	10	3	30	1993/2017	12	
13	Enathu	Pathanamthitta	66/11	10	1	10			NEW S/s commissioned on 26.06.2019
14	Ettumanoor	Poovanthuruthu	66/11	10	3	30	1965	10	feeders 9 to 10
15	Fort Kochi (GIS)	Kalamassery	66/11	10	2	20	01/12/2006	6	
16	Gandhinagar	Poovanthuruthu	66/11	10	3	30	1987	9	feeders 7 to 9
17	Kakkanad (CEPZ)	Kalamassery	66/11	16	2	32	1987	14	
			66/11	10	1	10	6/10/1999		newly added tranfr
18	Kannampully	Palakkad	66/11	4	2	8	1976	4	
			66/11	6.3	2	12.6	01/2016, 03/2017		newly added 2 tranfr
19	Karimanal	Thodupuzha	66/11	6.3	2	12.6	1987	3	newly added tranfr, feeder 2 to 3
		Thodupuzha	66/11	4	0	0			not in service
20	Karukutty	Thrissur	66/11	10	2	20	1971	9	feeders 8 to 9
21	Karunagappally	Kottarakara	66/11	10	3	30	1994	11	feeders 10 to 11
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 tranfr 2 nos, feeders 0 to 4 (Upgraded on 01.11.2019)
			33/11	5	2	10	10/30/2010,		newly added tranfr 2 nos
24	Kattappana	Thodupuzha	66/11	10	2	20	1992	7	newly added 1 tranfr, feeder 5 to 7
		Thodupuzha	66/11	6.3	0	0			not in service

Table 34- 66 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
25	Kochu pampa	Pathanamthitta	66/11	4	2	8	36130	4	
26	Koothattukulam	Poovanthuruthu	66/11	10	1	10	20.6.14	5	
		Poovanthuruthu	66/11	6.3	1	6.3	1973		
27	Kothamangalam	Thodupuzha	66/11	10	3	30	Prior nos. to I plan	10	
28	Kottayam (Kanjikuzhy)	Poovanthuruthu	66/11	10	3	30	1975	11	feeders 9 to 11
29	Kulamavu	Thodupuzha	66/11	4	1	4	1967	4	feeders 3 to 4
30	Kuravilangadu	Poovanthuruthu	66/11	10	2	20	01/05	5	
31	Kuthumunda	Kozhikode	66/11	10	2	20	Prior nos. to Ist plan	7	feeders 6 to 7
32	Kuttanadu	Alappuzha	66/11	10	2	20	1973	8	
33	Kuttikattoor	Kozhikode	66/11	10	2	20	1974	9	
		Kozhikode	66/11	8	1	8			
34	LA Complex (GIS)	Thiruvananthapuram	66/11	16	2	32	01/05/2005	8	
35	Madura Coats(Koratty)	Thrissur	66/11	6.3	1	6.3	1982	2	
36	Mananthavady	Kozhikode	66/11	10	2	20	1955	6	
37	Mankada	Malappuram	66/11	10	1	10	09/15	4	feeders 3 to 4
38	Marady	Thodupuzha	66/11	10	1	10	29.03.2018	3	feeders 1 to 3
39	Marine Drive GIS	Kalamassery	66/11	16	2	32	01/11/2007	8	
40	Mavoor (Ambalaparamba)	Kozhikode	66/11	6.3	1	6.3	1973	4	
				10	1	10	30.12.17		6.3 MVA replaced with 10
41	Mulavukadu	Kalamassery	66/11	6.3	2	12.6	01/02/2001	3	newly added tranfr 1 nos
		Kalamassery	66/11	4	0	0			not in service
42	Nangiarkulangara	Alappuzha	66/11	10	3	30	1990, 12.11.14	10	newly added tranfr 1 nos, feeders 8 to 10
			66/11	8	0	0			not in service
43	Nedumkandom	Thodupuzha	66/33	20	1	20	2006	5	feeders 4 to 5
		Thodupuzha	66/11	8	1	8			replaced 1 tranfr
			66/11	10	1	10	2018-06-01		newly added tranfr 1 nos
44	Nemmara	Palakkad	66/11	8	2	16	1976	6	feeders 5 to 6
45	Nilambur	Malappuram	66/33	16	1	16	Aug-13	7	feeders 6 to 7
		Malappuram	66/11	10	2	20	1979		
46	Njarakkal	Kalamassery	66/11	10	2	20	1973	9	feeders 8 to 9
		Kalamassery	66/11	8	1	8			
			66/11	16	1	16	01/03/2019		newly added tranfr 1 nos
47	NPOL (Thrikkakara)	Kalamassery	66/11	10	1	10	1990	13	feeders 9 to 13
		Kalamassery	66/11	8	2	16			
			66/11	16	2	32	01/05/2019		newly added tranfr 2 nos
48	Odakkali	Thodupuzha	66/11	10	1	10	31.03.2018	5	feeders 3 to 5
49	Palode	Thiruvananthapuram	66/11	10	1	10	2010	6	
		Thiruvananthapuram	66/11	5	1	5	1980		
50	Panampally Nagar	Kalamassery	66/11	10	2	20	1989	6	
51	Pathirappally	Alappuzha	66/11	10	2	20	1978	9	feeders 8 to 9
52	Peerumedu	Thodupuzha	66/33	16	1	16	2009	7	feeders 6 to 7
		Thodupuzha	66/11	5	1	5	1975		One 5MVA is replaced with 1x6.3MVA
			66/11	6.3	1	6.3			
			66/11	10	2	20			newly added tranfr 2 nos
53	Perumanoor (Shipyard)	Kalamassery	66/11	10	2	20	1972	11	
		Kalamassery	66/11	12.5	1	12.5			
54	Powerhouse (GIS)	Thiruvananthapuram	66/11	16	2	32	Jan-05	8	
55	Puthencruz	Kalamassery	66/11	10	3	30	1984	10	feeders 9 to 10
56	Puthiyara (GIS)	Kozhikode	66/11	16	2	32	Mar-04	8	
57	Sultan Bathery	Kozhikode	66/11	10	1	10	1986	6	feeders 4 to 6
		Kozhikode	66/11	6.3	1	6.3			
58	Thamarassery	Kozhikode	66/11	10	2	20	1965	7	feeders 6 to 7
59	Thenmala	Kottarakara	66/11	6.3	1	6.3	04/10/2015	5	
60	Thiruvalla	Pathanamthitta	66/11	10	2	20	2010	9	feeders 8 to 9
				7.5	1	7.5			
61	Thodupuzha	Thodupuzha	66/11	10	3	30	1980	11	feeders 10 to 11
62	Thriveni	Pathanamthitta	66/11	4	2	8	Oct-05	6	feeders 3 to 6
63	Tripunithura	Kalamassery	66/11	10	2	20	07.02.2018,	6	newly added tranfr 1 nos, feeders 0 to 6
64	Vandiperiyar	Thodupuzha	66/11	10	2	20	06/05	4	
		Thodupuzha	66/11	6.3	1	6.3			

Table 34- 66 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
			66/11	16	1	16	01/02/2019		newly added trasnfr 1 nos
65	Vattiyoorkavu	Thiruvananthapuram	66/11	10	2	20	Nov-04	10	feeders 5 to 7
66	Vazhathoppu	Thodupuzha	66/11	10	1	10	01/01/2013	7	feeders 8 to 11
		Thodupuzha	66/11	8	1	8	1966		
67	Vizhinjam	Thiruvananthapuram	66/11	10	2	20	1976	10	feeders 8 to 10
		Thiruvananthapuram	66/11	4	0	0			not in service
68	Walayar (MCL Quarry)	Palakkad	66/11	10	2	20	1982	0	
a	Pallivasal	Gen. circle, Meencut	66/11	10	3	30	1940, Feb-12	9	Switch Yard
TOTAL-66 kV SUBSTATIONS					165	1640.40		480	
66 kv		TRANSMISSION SUBSTATION		68	SWITCH YARD	1			
V. 33 kV Substations in operation									
1	Adichanalloor	Kottarakara	33/11	5	2	10	Mar-10	5	feeders 4 to 5
2	Agali	Palakkad	33/11	5	3	15	Dec-02, 2003,	4	newly added trasnfr 1 nos, feeders 6 to 4
3	Alakkode	Kannur	33/11	5	2	10	Nov-09	4	feeders 3 to 4
4	Alanallur	Palakkad	33/11	5	2	10	May-04	4	
5	Alangad	Kalamassery	33/11	5	1	5	Aug-09	4	replaced 1 trasnfr
			33/11	8	1	8	30/11/2011		newly added trasnfr 1 nos
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	5	feeders 4 to 5
8	Anchangadi	Thrissur	33/11	5	2	10	Mar-05	4	feeders 3 to 4
9	Annamanada	Kozhikode	33/11	5	2	10	Aug 2, 2016	5	feeders 4 to 5
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	3	feeders 3 to 4
13	Balussery	Kozhikode	33/11	5	1	5	Apr-02	4	replaced one transfr
				8	1	8	01/09/2019		newly added 1 transfr
14	Belur	Kannur	33/11	5	2	10	Mar-08, 17.3.15	3	feeders 2 to 3
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	2	10	Jan-08	4	feeders 2 to 4
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	4	feeders 3 to 4
22	Chullimanoor	Thiruvananthapuram	33/11	5	2	10	Mar-09	3	
23	Dharmadam	Kannur	33/11	5	2	10	2008	4	feeders 3 to 4
24	Edavanna	Malappuram	33/11	5	2	10	May-04	4	newly added 1 transfr, feeders 3 to 5
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	
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	Kalarcode	Alappuzha	33/11	5	2	10	01/07/2019	7	New S/s commissioned on 01.12.2019
35	Kalikavu	Malappuram	33/11	5	1	5	Mar-10	2	
36	Kallambalam	Thiruvananthapuram	33/11	5	2	10	Jul-08	3	
37	Kallara	Poovanthuruthu	33/11	5	1	5	18.3.17		
38	Kalletumkkara	Thrissur	33/11	5	2	10	Nov-05	3	
39	Kalloorkadu	Thodupuzha	33/11	5	2	10	Mar-09	3	
40	Kalpakanchery	Malappuram	33/11	5	2	10	31.3.17	3	
41	Kalpetta	Kozhikode	33/11	5	2	10	Nov-04	4	
42	Kanhangad town	Kannur	33/11	5	2	10	31.05.2016	3	
43	Kannalloor	Kottarakara	33/11	5	1	5	Mar-13	4	
44	Kannur town	Kannur	33/11	5	2	10	Jul-10	2	
45	Karamana	Thiruvananthapuram	33/11	5	2	10	Apr-12, Jan-14	2	
46	Karukachal	Poovanthuruthu	33/11	5	2	10	Sep-11	4	
47	Kasargod town	Kannur	33/11	5	2	10	27.01.17	4	
48	Katchery	Thiruvananthapuram	33/11	5	1	5	07.10.2017	4	

Table 34- 33 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
49	Kelakam	Kannur	33/11	5	2	10		2	New S/s commissioned on 02.08.2019
50	Kidangoor	Poovanthuruthu	33/11	5	2	10	Oct-10	3	
51	Kinfra	Malappuram	33/11	5	2	10	Jul-03	2	
52	Kodiyeri	Kannur	33/11	5	2	10	Mar-07	3	
53	Koduvayur	Palakkad	33/11	5	2	10	Dec-03	3	
54	Kongad	Palakkad	33/11	5	2	10	Dec-05	4	
55	Kongannur	Thrissur	33/11	5	2	10	Apr-07	4	
56	Konni	Pathanamthitta	33/11	5	2	10	Mar-08	3	
57	Kooriyad (Kakkad)	Malappuram	33/11	8	2	16	16.11.17 & 06.12.17	3	
58	Koottikkal	Poovanthuruthu	33/11	5	1	5	28.01.2016	2	
59	Koovappady	Thodupuzha	33/11	5	2	10	Mar-09	4	
60	Koratty	Thrissur	33/11	5	2	10	Jan-09	5	
61	Kumbanad	Pathanamthitta	33/11	5	2	10	Feb-14	3	
62	Kumily	Thodupuzha	33/11	5	5	25		4	
63	Kurumassery	Kalamassery	33/11	5	2	10	Dec-03	3	
64	Kuruppambady	Thodupuzha	33/11	5	2	10	Aug-03	4	
65	Kuthiathode	Alappuzha	33/11	5	3	15	Mar-08	3	
66	Kuttiyattur	Kannur	33/11	5	2	10	Feb-01	4	
67	Makkaraparamba	Malappuram	33/11	5	2	10	May-04	4	
68	Maniampara	Palakkad	33/11	5		0	Jul-06	4	
69	Manimala	Poovanthuruthu	33/11	5	2	10	27.05.17	3	2nd 5MVA commsnd on 29.01.18
70	Mannar	Alappuzha	33/11	5	2	10	Mar-09	4	
71	Mazhuvanoor	Thodupuzha	33/11	5	2	10	Dec-04	3	
72	Meenakshipuram	Palakkad	33/11	5	2	10	Mar-10	2	
73	Meenangady	Kozhikode	33/11	5	2	10	Oct-04	3	
74	Melady	Kozhikode	33/11	5	1	5	Jun-08	3	
				8	1	8	29.08.17		5 MVA nos. to 8 MVA
75	Methala	Thrissur	33/11	5	2	10	Mar-14	2	
76	Mullassery	Thrissur	33/11	5	1	5	Feb-06	3	
77	Mulloorkara	Thrissur	33/11	5	2	10	Jan-08	3	
78	Mundur	Thrissur	33/11	5	2	10	Mar-01	4	
79	Muthalamada	Palakkad	33/11	5	2	10	Dec-03	3	
80	Nadukani	Kannur	33/11	5	2	10	Feb-06	4	
81	Neeleswaram	Kannur	33/11	5	2	10	Mar-07	4	
82	Nelliampathy	Palakkad	33/11	5	1	5	Jun-05	2	
83	Ochira	Kottarakara	33/11	5	2	10	Sep-09	4	
84	Olavakode	Palakkad	33/11	5	2	10		4	New S/s
85	Othukkungal	Malappuram	33/11	5	1	5	Mar-09	2	
86	Padinjarethara	Kozhikode	33/11	5	2	10	Nov-04	3	
87	Paika	Poovanthuruthu	33/11	5	2	10	Mar-10	5	
88	Palakkal	Thrissur	33/11	5	2	10	Mar-08	3	
89	Pallassena	Palakkad	33/11	5	2	10	Sep-11	3	
90	Pandalam	Kollam	33/11	5	3	15		6	New Substation commissioned on 28.03.2019
91	Parappukara	Thrissur	33/11	5	2	10	Aug-03	4	
92	Parappur	Thrissur	33/11	5	2	10	Oct-08	4	
93	Paravoor	Kottarakara	33/11	5	2	10	Nov-12	4	
94	Pariyaram	Thrissur	33/11	5	2	10	Jul-03	4	
95	Pariyaram	Kannur	33/11	5	2	10	Mar-07	4	
96	Pattambi	Palakkad	33/11	5	2	10	Jan-02	4	
97	Pattikadu	Thrissur	33/11	5	2	10	Aug-03	2	
98	Pattoor	Thiruvananthapuram	33/11	5	2	10		4	
99	Payannur town	Kannur	33/11	5	2	10	Aug-06	3	
100	Pazhassi	Kannur	33/11	5	2	10	Aug-06	4	
101	Perambra	Kozhikode	33/11	5	1	5	27.3.2017		
102	Perla	Kannur	33/11	5	2	10	Mar-09	3	
103	Perumthenaruvi	Pathanamthitta	33/11	5	1	5	02.06.2018		
104	Peyad	Thiruvananthapuram	33/11	5	2	10	Mar-13	3	
105	Pookkottumpadam	Malappuram	33/11	5	1	5	Aug-13	2	
106	Poomala	Thrissur	33/11	5	2	10	Mar-07	3	
107	Poovar	Thiruvananthapuram	33/11	5	3	15	Aug-08, 16.7.14	5	
108	Pooyappally	Kottarakara	33/11	5	2	10	Sep-10	4	
109	Pulamanthole	Malappuram	33/11	5	1	5	Nov-04	2	
110	Pulpally	Kozhikode	33/11	5	2	10	Dec-04, 4.3.15	2	
111	Puthenvelikara	Kalamassery	33/11	5	2	10	May-06	4	
112	Puthiyatheruvu	Kannur	33/11	5	2	10	Feb-01	3	
113	Puthur	Thrissur	33/11	5	2	10	Mar-01	4	

Table 34- 33 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
114	Puthur	Kottarakara	33/11	5	1	5	Aug-10	3	
115	Puthur	Kannur	33/11	5	2	10	Mar-03	3	
116	Rajapuram	Kasargod	33/11	5	2	10		4	New S/s commissioned on 04.03.2020
117	Ramanattukara	Kozhikode	33/11	5	2	10	Nov-09	4	
118	Ramapuram	Poovanthuruthu	33/11	5	2	10	Oct-09, 25.6.14	4	
119	Ranni-Perunad	Pathanamthitta	33/11	5	1	5	Jan-11	4	
120	Senapathy	Thodupuzha	33/11	5	1	5	Oct-14	2	
121	Sreekrishnapuram	Palakkad	33/11	5	2	10	Jan-06	4	
122	Tarur	Palakkad	33/11	5	2	10	Apr-10	3	
123	Thakazhy	Alappuzha	33/11	5	2	10	Oct-08	2	
124	Thambalamanna	Kozhikode	33/11	5	2	10	Oct-09	3	
125	Thammanam	Kalamassery	33/11	5	2	10	17.02.2018	3	
126	Thazhekkode	Malappuram	33/11	5	1	5	Nov-02	2	
127	Thirunavaya	Malappuram	33/11	5	2	10	Jul-08	3	
128	Thiruvegappura	Palakkad	33/11	5	1	5	Jan-14	2	
129	Thiruvellur	Kozhikode	33/11	5	2	10	Jun-08, 15.5.14	2	
130	Tholambra	Kannur	33/11	5	2	10	Feb-02	3	
131	Thottada	Kannur	33/11	8	2	16	Apr-02	3	
132	Thrikkannapuram (Thavanur)	Malappuram	33/11	5	1	5	Dec-09	2	
133	Thrikkaripur	Kannur	33/11	5	2	10	Dec-04	4	
134	Thrithala	Palakkad	33/11	5	2	10	Mar-03	4	
135	Upputhura	Thodupuzha	33/11	5	2	10	Jun-09	3	
136	Urumi	Kozhikode	33/11	5	1	5	May-07	3	
137	Vadanapilly	Thrissur	33/11	5	2	10	Dec-04	3	
138	Vadikkekara	Kalamassery	33/11	5	3	15	Aug-05	5	
139	Vagamon	Thodupuzha	33/11	5	1	5	Mar-10	3	
140	Vakathanam	Poovanthuruthu	33/11	5	2	10	Feb-13	4	
141	Vallikunnam	Alappuzha	33/11	5	1	5	Jun-12	2	
142	Valluambaram	Malappuram	33/11	5	2	10	Dec-01	3	
143	Vandanmedu	Thodupuzha	33/11	5	2	10		2	New Substation commissioned on 16.09.2019
144	Vannamada	Palakkad	33/11	5	2	10	Oct-09	3	
145	Vannappuram	Thodupuzha	33/11	5	2	10	Nov-12	4	
146	Varappuzha	Kalamassery	33/11	5	2	10	Jan-08	4	
147	Velanthavalam	Palakkad	33/11	5	2	10	Feb-11	3	
148	Veliyambra	Kannur	33/11	5	1	5		2	New Substation
149	Vellangallur	Thrissur	33/11	5	2	10	Mar-06	3	
150	Vellannur	Kozhikode	33/11	5	2	10	Sep-11	3	
151	Vellarada	Thiruvananthapuram	33/11	5	2	10	Aug-11	3	
152	Vellikulangara	Thrissur	33/11	5	2	10	Feb-10	4	
153	Vengola	Thodupuzha	33/11	5	2	10	May-07	3	
154	Venjaramoodu	Thiruvananthapuram	33/11	5	2	10	Mar-10	3	
155	Vithura	Thiruvananthapuram	33/11	5	2	10	Oct-11	3	
156	Vydyuthi Bhavanam- Tvpm	Thiruvananthapuram	33/11	5	2	10	01/07/2019	3	New S/s commissioned on 22.07.2019
157	Vydyuthi bhavan-pkcd	Palakkad	33/11	5	2	10	27-6-2015	4	
158	Wandoor	Malappuram	33/11	5	2	10	Aug-97, Nov-13	3	
159	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
159	Total				299	1522		521	
	33kV	TRANSMISSION SUBSTATION		159	SWITCH YARD	2			
	Grand nos. total							3084	

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-EHT

	Transmission substations	Gen. Switch yard with HT feeder	MVA Capacity	HT Feeders
400kV	1+5*	0	1565.0	8
220kV	23	3	9255.1	186
110kV	166	7	8900.1	1297
66kV	68	1	1640.4	480
EHT S/S	263	11	21360.6	1971
33kV	159	2	1522.0	521
TOTAL	422	13	22883	2492

*PGCIL owned

TABLE 35

LIST OF EHV AND 33 kV TRANSMISSION LINES

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
I. 400 kV Lines				
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	Madakkathara - Malaparamba I	Twin Great hornbill	46	KSEBL
8	Madakkathara - Malaparamba II	Twin Great hornbill	46	KSEBL
9	Kochi East - Madakkathara No.I	Quad Moose	78.2	PGCIL
10	Kochi East - Madakkathara No.II	Quad Moose	78.2	PGCIL
11	Mysore-Kozhikkode No. I	Twin Moose	206 (142 in Kerala)	PGCIL
12	Mysore-Kozhikkode No. II	Twin Moose	206 (142 in Kerala)	PGCIL
13	Edamon - Kochi East I	Quad Moose	148.3	PGCIL
14	Edamon - Kochi East II	Quad Moose	148.3	PGCIL
400kV LINE-Total in Ckt.KM			1244.56	
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	Elamkur - Areacode	Kundah	16.2	
18	Elappully - Madakkathara	Kundah	82.53	
19	Elappully - Palakkad No.I	Kundah	3.44	
20	Elappully - Palakkad No.II	Kundah	3.44	
21	Elappully - Palakkad No.III	Kundah	3.66	
22	Idukki - Kalamassery No.I	Kundah	68.8	
23	Idukki - Kalamassery No.II	Kundah	68.8	
24	Idukki - Kothamangalam	Kundah/ double panther	44.2	
25	Idukki - Lower Periyar No.I	Kundah	35	
26	Idukki - Lower Periyar No.II	Kundah	35	
27	Idukki - New Pallom	Kundah	50	
28	Idukki - Udumalpet (Inter state)	Kundah	111.6 (84.4 in Kerala)	
29	Kanhirode - Ambalathara	Kundah	62.19	
30	Kanhirode - Thaliparamba	Kundah	28.02	
31	Kaniyampetta - Kadakola (Inter state)	Kundah	92 (25.4 in Kerala)	
32	Kayamkulam - Edappon	Twin Moose	28.57	
33	Kayamkulam - Kundara	Twin Moose	64.91	
34	Kayamkulam - New Pallom No.I	Zebra	47	
35	Kayamkulam - New Pallom No.II	Zebra	47	
36	Kayamkulam - Punnappra	Zebra	18.1	
37	Kochi East - Kalamassery No.I	Kundah	14.4	
38	Kochi East - Kalamassery No.II	Kundah	14.4	
39	Lower Periyar - Brahmapuram No.I	Kundah	58.46	
40	Lower Periyar - Brahmapuram No.II	Kundah	58.46	
41	Lower Periyar - Madakkathara No.I	Kundah	102	

Table 35 -220 kV lines contd..

42	Lower Periyar - Madakkathara No.II	Kundah	102	
43	Madakkathara - Elamkur	Kundah	77.4	
44	Madakkathara - Malaparamba I	AAAC Drake	51.17	
45	Madakkathara - Malaparamba II	AAAC Drake	51.17	
46	Madakkathara - Palakkad	Kundah	82.26	
47	Madakkathara - Shornur	Kundah	29.35	
48	Malaparamba - Areacode	Kundah	53.83	
49	New Pallom - Pallom	Twin Moose	0.8	
50	Orkatteri - Kanhirode	Kundah	37.14	
51	Pallipuram - Pothencode No.I	Moose	3.49	
52	Pallipuram - Pothencode No.II	Moose	3.49	
53	Pallipuram - Pothencode No.III	Moose	3.49	
54	Pallipuram - Pothencode No.IV	Moose	3.49	
55	Pallom - Ambalamugal	Kundah	56.3	
56	PGCIL Areacode - 220 kV Areacode No I	Twin Moose	0.225	
57	PGCIL Areacode - 220 kV Areacode No II	Twin Moose	0.225	
58	PGCIL Areacode - 220 kV Areacode No III	Twin Moose	0.225	
59	Pothencode - Kattakkada I	Twin Moose	27.5	
60	Pothencode - Kattakkada II	Twin Moose	27.5	
61	Punnapra New Pallom	Zebra	18.1	
62	Sabarigiri - Ambalamugal	Kundah	123.5	
63	Sabarigiri - Edamon No.I	Kundah	52.89	
64	Sabarigiri - Edamon No.II	Kundah	52.93	
65	Sabarigiri - Edamon No.III	Kundah	52.93	
66	Sabarigiri - Pallom	Kundah	67.32	
67	Sabarigiri - Theni (Inter state)	Kundah	106.5 (44.8 in Kerala)	
68	Shornur - Areacode	Kundah	72.53	
69	Thaliparamba - Mylatty	Kundah	63.04	
	220kV LINE-Total in Ckt.KM		2952.66	
III. 110 kV Lines				
1	Aluva-KWA	UG	1.61	
2	Ambalappuram - Kottiyam	Wolf	18.9	
3	Anchal - Ayoor	Wolf	9	upgraded
4	Angamaly - Kurumassery	Wolf	8.89	
5	Areacode - Keezhissery No.I	Wolf	9.5	
6	Areacode - Keezhissery No.II	Wolf	9.5	
7	Aroor - Mattanchery	Wolf	9.1	
8	Aroor - Thykkattussery	Wolf	15.6	
9	Aruvikkara - Kattakkada	Wolf	11.71	
10	Athani - Kandassankadavu	Wolf	36.8	
11	Attingal - Paripally No.I	Wolf	15.3	
12	Attingal - Paripally No.II	Wolf	15.3	
13	Autocast (SILK) - SL Puram	Wolf	1.7	
14	Ayarkunnam - MRF	Wolf	6.3	
15	Ayathil - GIS Kollam DC UG No. I	UG Cable	3.75	
16	Ayyampuzha - Chalakudy	Wolf	16.8	
17	Azhikode - WIPL	Wolf	0.23	
18	Bilievers Church - Thrikodithanam	Wolf	4.72	
19	Brahmapuram - FACT (CD) No.I	Wolf	3.8	
20	Brahmapuram - FACT (CD) No.II	Wolf	3.8	
21	Brahmapuram - Kadavanthara	Wolf	10.77	
22	Brahmapuram - Kandanad	Wolf	11.64	
23	Brahmapuram - KINFRA No.I	Wolf	1.85	
24	Brahmapuram - KINFRA No.II	Wolf	1.85	
25	Brahmapuram - New Vyttila	Wolf	7.3	
26	Brahmapuram - Vaikom	Wolf	29.64	
27	Chakkittappara - Nadapuram	Wolf	20	
28	Chalakkudy - Kodungallur	Wolf	20.61	upgraded
29	Chalakkudy - Puthukkad	Wolf	15.68	
30	Chalakkudy -Mala	Wolf	12.5	
31	Chalakkudy - Angamaly	Wolf	21.28	
32	Chalakkudy - Carborandum	Wolf	7.3	
33	Chalakkudy - Kodakara	Wolf	7.1	

Table 35 -110 kV lines contd..

34	Chalaky - Traction S/s, Chalaky	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 - Parappanangadi	Wolf	15.9	
39	Chemberi - Mattannur	Wolf	31.87	
40	Chengalom- Punnappa	Wolf	29.4	
41	Chengannoor - Believers Church	Wolf	16.45	
42	Chengannoor - Edappon No.I	Wolf	14.1	
43	Chengannoor - Edappon No.II	Wolf	14.1	
44	Cherai - North paravur	Wolf	8.08	
45	Cherpu - Irinjalakuda	Wolf	20.84	
46	Cheruvathur - Traction Cheruvathur SC UG	SC UG	2.63	
47	Chevayoor - West Hill	Tiger	12.8	
48	Chevayur - GIS, Gandhiroad	UG	6.3	
49	Chovva-Traction S/s, Kannur South	UG Cable	0.78	
50	Edamon - Ambalappuram	Wolf	29	
51	Edamon - Anchal	Wolf	12	upgraded
52	Edamon - Ayoor	Wolf	21	upgraded
53	Edamon - Kilimanoor	Wolf	33.9	
54	Edamon - Paruthippa	Wolf	54	
55	Edamon - Punalur No.I	Wolf	9.89	
56	Edamon - Punalur No.II	Wolf	9.89	
57	Edappal - Kuttippuram	Wolf	26.92	
58	Edappal - Ponnani	Wolf	10.37	
59	Edappally - Kaloor	Wolf	4.43	
60	Edappon - Kayamkulam	Wolf	18.5	
61	Edappon - Kundara	Wolf	31	
62	Edappon - Mavelikkara	Wolf	14	
63	Edappon - Pathanamthitta No.I	Wolf	23.1	
64	Edappon - Pathanamthitta No.II	Wolf	23.1	
65	Edappon - Sasthamkotta	Wolf	18.5	
66	Edarikode - Tirur	Wolf	11.7	
67	Edayar - Binani Zinc No.I	Wolf	1.35	
68	Edayar - Binani Zinc No.II	Wolf	1.35	
69	Edayar - Cherai	Wolf	16.12	
70	Edayar - North Paravur No.I	Wolf	9.41	New line
71	Eramalloor - Chellanam	Wolf	11.82	
72	Erattupetta - Pala	Wolf	15.9	
73	Erumeli - Mundakkayam	Wolf	17.62	
74	Guruvayur - Kandassankadavu	Wolf	16.3	
75	Idamalayar - Ayyampuzha	Wolf	32	
76	Idamalayar - Malayattoor	Wolf	28.5	
77	Irinjalakuda - Kattoor	Wolf	7.08	
78	Kadavanthara - Traction S/s, Kadavanthara	UG Cable	0.15	
79	Kadavanthara - Willington Island No.I	UG Cable + OH	3.47	
80	Kadavanthara - Willington Island No.II	UG Cable + OH	2.3	
81	Kakkad - Karikkayam	Wolf	10.6	
82	Kakkad - Pathanamthitta	Wolf	28.7	
83	Kakkayam - Chakkittappara	Wolf	9.2	
84	Kakkayam - Kinaloor	Wolf	11.6	
85	Kakkayam - Kuttiady	Wolf	20.2	
86	Kalamassery - Aroor	Wolf	23.5	
87	Kalamassery - Brahmapuram No.I	Wolf	11.6	
88	Kalamassery - Brahmapuram No.II	Wolf	11.6	
89	Kalamassery - Brahmapuram No.III	Wolf	11.6	
90	Kalamassery - Brahmapuram No.IV	Wolf	11.6	
91	Kalamassery - Carborandum	Wolf	33.63	
92	Kalamassery - Edappally	Wolf	7	
93	Kalamassery - Edayar No.I	Wolf	4.2	
94	Kalamassery - Edayar No.II	Wolf	4.2	
95	Kalamassery - FACT (UD) No.I	Wolf	5	
96	Kalamassery - FACT (UD) No.II	Wolf	5	

Table 35 -110 kV lines contd..

97	Kalamassery - Kaloar	Wolf	11.9	
98	Kalamassery - Kizhakambalam	Wolf	9.53	
99	Kalamassery - Kurumassery	Wolf	20.1	
100	Kalamassery - Moovattupuzha	Lynx	26.4	
101	Kalamassery - Panangad	Wolf	17	
102	Kalamassery - Perumbavoor	Wolf	19.61	
103	Kalamassery - Vytila	Wolf	11.58	
104	Kalladikode - Mannarkkad	Wolf	14	
105	Kaloor- Ernankulam North UG	UG	4.1	
106	Kaloor- Ernankulam North UG	UG	4.1	
107	Kandanad - Vaikom	Wolf	18	
108	Kanhangad - Cheruvathur	Tiger	22.6	
109	Kanhirode - Mattannur	Wolf	18.71	upgraded
110	Kanhirode - Mundayad No.I	Wolf	9.6	
111	Kanhirode - Mundayad No.II	Wolf	9.6	
112	Kanhirode - Sreekantapuram	Wolf	20.79	
113	Kanjirappally - Erumeli	Wolf	11.81	
114	Kanjirappally - Mundakkayam	Wolf	15	
115	Karikkayam - Maniyar	Wolf	3.9	
116	Kattakkada - Parassala No.I	Wolf	18.98	
117	Kattakkada - Parassala No.II	Wolf	18.98	
118	Kattakkada - Thirumala No.I	Wolf	9.24	
119	Kattakkada - Thirumala No.II	Wolf	9.24	
120	Kattoor - Valappad	Wolf	11.16	
121	Kazhakkuttam - Traction S/s, Kazhakkuttam	Wolf	0.87	
122	Keezhissery - Malappuram No.I	Tiger	18.1	
123	Keezhissery - Malappuram No.II	Wolf	18.1	
124	Kilimanoor - Paruthippara	Wolf	39.9	
125	Kinaloor - Chevayoor	Wolf	24.1	
126	Kizhakambalam - Moovattupuzha	Wolf	16.87	
127	Kodimatha -Punnappa	Wolf	28.96	
128	Koduvally - Kakkayam	Wolf	24.3	
129	Koottanad - Edappal	AAAC	15.26	
130	Kottarakkara - Kundara	Wolf	13.5	
131	Kottiyam - Kundara	Wolf	16.9	
132	Kozhenchery - Ranni	Wolf	13.4	
133	Kozhinjampara - Kollengode	Wolf	24.28	
134	Kubanur - Manjeswaram	Wolf	12.6	
135	Kubanur - Traction Uppala	300sqmm Aluminium	5.3	
136	Kundara - Ayathil No.I	Wolf	13	
137	Kundara - Ayathil No.II	Wolf	13	
138	Kundara - Chavara	Wolf	26	
139	Kundara - Parippally No.I	Wolf	24	
140	Kundara - Parippally No.II	Wolf	24	
141	Kundara - Perinadu	Wolf	9	
142	Kundara - Traction Perinad No.I	Wolf	7	
143	Kundara-Technopark	UG	2.6	
144	Kunnamangalam - Agasthiamoozhy No.I	AAAC	9.5	
145	Kunnamangalam - Agasthiamoozhy No.II	AAAC	9.5	
146	Kunnamangalam - Koduvally	Wolf	7.4	
147	Kunnamkulam - Guruvayur	Wolf	5.9	
148	Kunnamkulam - Punnayurkulam No.I	AAAC	15.2	
149	Kunnamkulam - Punnayurkulam No.II	AAAC	15.2	
150	Kuthuparamba - Valiavelicham	Wolf	8.399	
151	Kuthupramba - Nedumpoil	Wolf	18.93	
152	Kuttiady - Kanhirode	Wolf	54.3	
153	Kuttippuram - Tirur	Wolf	22.33	
154	Madakkathara - Athani	Wolf	10.9	
155	Madakkathara - Cherpu	Wolf	19.7	
156	Madakkathara - Kodakara	Wolf	24.2	
157	Madakkathara - Kunnamkulam	Wolf	27.4	
158	Madakkathara - Ollur	Wolf	15.7	
159	Madakkathara - Shornur	Wolf	30.2	

Table 35 -110 kV lines contd..

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	Mala - Kodungallur	Mink	7.36	upgraded
165	Malampuzha - Kalladikode	Wolf	19.25	
166	Malaparamba - Koppam	Tiger	10	
167	Malaparamba - Kuttippuram No.I	Wolf	18.1	
168	Malaparamba - Kuttippuram No.II	Wolf	18.1	
169	Malaparamba - Malappuram No.I	Tiger	14	
170	Malaparamba - Malappuram No.II	Tiger	14	
171	Malaparamba - Shornur	Tiger	24	
172	Malappuram - Edarikode	Wolf	13.5	
173	Malappuram - Manjeri	Wolf	14	
174	Malappuram - Tirur	Wolf	26	New line
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 - Vidyanagar	Tiger	11.9	
192	Myloor (Pothanikad) - Adimali	Lynx	34.92	
193	Nadapuram - Kanhirode	Wolf	45.3	
194	Nallalam - Chelari	Tiger	14.6	
195	Nallalam - Chevayur No.I	Wolf	7.5	
196	Nallalam - Chevayur No.II	Wolf	8.2	
197	Nallalam - Keezhissery	Tiger	20.4	
198	Nallalam - Kunnamangalam	Wolf	19.6	
199	Nallalam - Steel Complex	Tiger	0.8	
200	Neriamangalam - Adimali	Lynx	10.49	
201	Neriamangalam - Kuthungal No.I	Wolf	16.5	
202	Neriamangalam - Kuthungal No.II	Wolf	16.5	
203	Neriamangalam - Moovattupuzha	Lynx	51	
204	Neriamangalam - Pala	Wolf	37.8	
205	Neriamangalam - Sengulam	Lynx	5.8	
206	New Vyttila - Kadavanthara	Wolf	3.47	
207	Ollur - Puthukkad	Wolf	12.83	
208	Orkatteri - Meppayur	AAAC/Wolf	24.66	
209	Orkatteri - Panoor	Tiger	11.27	
210	Orkatteri - Vadakara	AAAC/Wolf	8.9	
211	Ottappalam - Cherpulassery No.I	Wolf	18.95	
212	Ottappalam - Cherpulassery No.II	Wolf	18.95	
213	Ottappalam - Pazhayannur	Wolf	11.2	
214	Ottappalam - Vadakkanchery	Wolf	27	
215	Ottappalam - Vennakkara	Wolf	28.96	
216	Pala - Ayarkunnam No.I	Wolf	13.5	
217	Pala - Ayarkunnam No.II	Wolf	13.5	
218	Palakkad - Kanjikode No.I	Wolf	5.46	
219	Palakkad - Kanjikode No.II	Wolf	5.46	
220	Palakkad - Kollengode	Wolf	26.5	
221	Palakkad - Kozhinjampara	Wolf	10.61	
222	Palakkad - Traction, Kanjikode	Wolf	3.15	

Table 35 -110 kV lines contd..

223	Palakkad - Vennakkara No.I	Wolf	20.86	
224	Palakkad - Vennakkara No.II	Wolf	20.86	
225	Palakkad - Walayar No.I	Wolf	6.35	
226	Palakkad - Walayar No.II	Wolf	6.8	
227	Palakkad - INOX Air (Deposit Work - UG Cable)	Wolf	1.2	
228	Pallom - Ayarkunnam	Wolf	14.9	
229	Pallom - Chengalam	Wolf	14.1	
230	Pallom - Kanjirappally	Wolf	29	
231	Pallom - Kodimatha	Wolf	4.54	
232	Pallom - Mallappally	Wolf	32.2	
233	Pallom - Pambady	Wolf	12.5	
234	Pallom - Thrikodithanam	Wolf	12.5	
235	Pambady - Mundakkayam	Wolf	26	
236	Panangad - Aroor	Wolf	6.5	
237	Panniar - Sengulam No.I	Wolf	0.5	
238	Panniar - Sengulam No.II	Wolf	0.5	
239	Panoor - Mahe No.I	Wolf	2.4	
240	Panoor - Mahe No.II	Wolf	2.4	
241	Parali - Vennakkara	Wolf	9.5	
242	Parappanangadi- Keezhissery	Wolf	32.9	
243	Parassala - Kuzhithura (Inter state)	Mink	4.83	
244	Parassala - Neyyattinkara No.I	Wolf	11	
245	Parassala - Neyyattinkara No.II	Wolf	11	
246	Paripally - Varkala No.I	Wolf	9.8	
247	Paripally - Varkala No.II	Wolf	9.8	
248	Paruthippara - Medical College No.I	Wolf	2.87	
249	Paruthippara - Medical College No.II	Wolf	2.87	
250	Pathanamthitta - Kozhenchery	Wolf	11.9	
251	Pathanamthitta - Ranni	Wolf	25.38	
252	Pathanapuram - Koodal	Wolf	8.23	
253	Pathiripala - Parali	Wolf	11.2	
254	Payangadi - Ezhimala No.I	Wolf	7.2	
255	Payangadi - Ezhimala No.II	Wolf	7.2	
256	Payyannur - Cherupuzha No.I	Wolf	21.6	
257	Payyannur - Cherupuzha No.II	Wolf	21.6	
258	Payyannur - Cheruvathur	Tiger	13.6	
259	Pazhayannur - Vadakkanchery	Wolf	15.8	
260	Perinadu - Traction Perinadu	Wolf	2.1	
261	Pinarayi - Thalassery	Tiger	9.1	
262	Ponnani - Tirur	Wolf	29.03	
263	Poringalkuthu - Chalakudy No.I	Tiger	32.5	
264	Poringalkuthu - Chalakudy No.II	Tiger	32.5	
265	Poringalkuthu - Sholayar	Wolf	12.9	
266	Pothencode - Aruvikkara	Wolf	19.2	
267	Pothencode - Attingal No.I	Wolf	10.2	
268	Pothencode - Attingal No.II	Wolf	10.2	
269	Pothencode - Kattakkada	Wolf	29.7	
270	Pothencode - Paruthippara No.I	Wolf	10.39	
271	Pothencode - Paruthippara No.II	Wolf	10.39	
272	Pothencode - Technopark No.I	Wolf	5.87	
273	Pothencode - Technopark No.II	Wolf	5.87	
274	Pullazhy - Kandassankadavu	Wolf	11.4	
275	Punalur - Koodal	Wolf	19.5	
276	Punalur - Kottarakkara	Wolf	20.1	
277	Punalur - Kundara	Wolf	33.6	
278	Punalur - Pathanapuram	Wolf	12.25	
279	Punnapra - Autocast	Wolf	26.6	
280	Punnapra - Edathua No.I	Wolf	15.7	
281	Punnapra - Edathua No.II	Wolf	15.7	
282	Punnapra - Traction S/s, Punnapra	Wolf	0.47	
283	Rayonpuram - Perumbavoor	Wolf	1.5	
284	Sasthamkotta - KMML	Wolf	18.1	
285	Sengulam - Udumpanoor	Wolf	18.5	

Table 35 -110 kV lines contd..

286	Sholayar - Chalakudy	Wolf	53.1	
287	Shornur - Edappal	Wolf	31.6	
288	Shornur - Koottanad	AAAC	17.86	
289	Shornur - Koppam	Tiger	14.5	
290	Shornur - Ottappalam	Wolf	13.6	
291	Shornur - Pathiripala	Wolf	26.3	
292	Shornur - Traction Shornur	Tiger	4.98	
293	SL Puram - Eramalloor	Wolf	23.16	
294	SL Puram - Punnapra	Wolf	27.85	
295	Sreekantapuram - Chemberi	Wolf	10.34	
296	Tap No.I to Aluva from KLCB feeder	Wolf	2	
297	Tap No.I to BSES from KLKA feeder	Wolf	1.3	
298	Tap No.I to CIAL from KLCB feeder	Wolf	1.81	
299	Tap No.I to CSEZ from KLBR No.I feeder	Wolf	0.05	
300	Tap No.I to HNL from BRVK feeder	Wolf	8.7	
301	Tap No.I to IAC from KLED No.I feeder	Wolf	0.05	
302	Tap No.I to Nedumangad from PCAV feeder	Wolf	0.2	
303	Tap No.I to Piravam from HNL Tap No.I	Wolf	7.7	
304	Tap No.I to Rubber Park from KLMV feeder	Wolf	2.1	
305	Tap No.I to TCC from KLFA No.I feeder	Wolf	0.8	
306	Tap No.II to Aluva from KLKR feeder	Wolf	2	
307	Tap No.II to BSES from KLEP feeder	Wolf	1.3	
308	Tap No.II to CIAL from CHKR feeder	Wolf	1.81	
309	Tap No.II to CSEZ from KLBR No.II feeder	Wolf	0.05	
310	Tap No.II to HNL from KNVK feeder	Wolf	8.7	
311	Tap No.II to IAC from KLED No.II feeder	Wolf	0.05	
312	Tap No.II to Nedumangad from PCKK feeder	Wolf	0.2	
313	Tap No.II to Piravam from HNL Tap No.II	Wolf	7.7	
314	Tap No.II to Rubber Park from KZMV feeder	Wolf	2.1	
315	Tap No.II to TCC from KLFA No.II feeder	Wolf	0.8	
316	Tap No.III to BSES from KLED No.I feeder	Wolf	0.8	
317	Tap No.IV to BSES from KLED No.II feeder	Wolf	0.8	
318	Tap to Arangottukara from SHED feeder	Wolf	0.5	
319	Tap to BPCL from BRFA No.II feeder	Wolf	2.81	
320	Tap to Chingavanam Traction from PLTN feeder	Wolf	1.7	
321	Tap to Co-op. Med. College from KLBR No.II	Wolf	0.04	
322	Tap to GTN Textiles from KLPM feeder	Wolf	0.86	
323	Tap to IPRK from SL- Chellanam	Wolf	0.125	
324	Tap to koyilandy from Meppayur - West hill	Wolf	0.6	
325	Tap to Kuthuparamba from Parambai	Wolf	6.7	
326	Tap to Melattur from MRML No.II	Tiger	20.3	
327	Tap to MPS Steel from PKKE feeder	Wolf	0.05	
328	Tap to Paper Mill from PNKU feeder	Wolf	1.4	
329	Tap to Paragon Steel from PKKJ No.II	Wolf	0.05	
330	Tap to PATSPIN from PKKJ No.II	Wolf	0.05	
331	Tap to Perinthalmanna from Malaparamba - Melattur	Wolf	10	
332	Tap to Petronet from BRFA No.I feeder	Wolf	2.81	
333	Tap to Precot Meridian from WLMC No.II	Wolf	0.22	
334	Tap to Sasthamkotta from EPKD feeder	Wolf	0.5	
335	Tap to Technopark Ph.II from TPTE No.I	Wolf	0.05	
336	Tap to TECIL from PLTN feeder	Wolf	2.12	
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	
341	TERLS -VSSC I	Wolf	0.8	
342	TERLS -VSSC I	Wolf	0.8	
343	Thalassery - Panoor	Tiger	9.1	
344	Thaliparamba - Mangad	Wolf	10.5	
345	Thaliparamba - Payangadi No.I	Wolf	9.5	
346	Thaliparamba - Payangadi No.II	Wolf	9.5	
347	Thaliparamba - Payannur	Wolf	25.6	
348	Thykkattussery - SL Puram	Wolf	16.15	

Table 35 -110 kV lines contd..

349	Udumpanoor - Erattupetta	Wolf	28.4	
350	Vadakara - Koyilandy	Wolf	23.2	
351	Vennakkara - Malampuzha	Wolf	10.25	
352	Vidyanagar - Kubanur	AAAC	21.7	
353	Vidyanagar - Mulleria No.I	Wolf	17.8	
354	Vidyanagar - Mulleria No.I	Wolf	17.8	
355	Viyur - Kandassankadavu	Wolf	15.7	
356	Viyur - Pullazhy	Wolf	6.96	
357	Vytilla - New Vytilla UG	UG Cable	0.71	
358	Wadakkanchery - Shornur	Wolf	16.56	
359	Walayar - Malabar Cement No.I	Wolf	4.41	
360	Walayar - Malabar Cement No.II	Wolf	4.63	
361	West Hill - GIS, Kozhikode	630Sq.mm Al	7.14	
362	West Hill -Traction Elathur	400 Sq mm UG Cable	4.4	
363	Willington Island - Port Trust	UG Cable	2.31	
110kV LINE-Total in Ckt.KM			4797.75	
IV. 66 kV Lines				
1	Adoor - Pathanamthitta	Mink	12.6	
2	Adoor- Enathu	Wolf	11.4	New line
3	Alappuzha - Pathirappally	Tiger	6.3	
4	Aluva - Edayar	Mink / Copper	5.65	
5	Aluva - Kizhakambalam	Dog	12.06	
6	Aluva - Kothamangalam No.I	Copper	31	
7	Aluva - Kothamangalam No.II	Copper	31	
8	Aluva - North Paravur	Mink	13.35	
9	Aroor - Mattanchery	Dog	8.9	
10	Attingal - Palode	Mink	19.4	
11	Chalakkudy - Aluva I	Mink	26.78	
12	Chalakkudy - Aluva II	Mink	26.78	
13	Chalakkudy - Ollur	AAAC	23.8	
14	Chalakkudy - Viyyur	AAAC	34.5	
15	Chevayur - Puthiyara	400 Sq.mm XLPE	4.4	
16	Chumathra - Thiruvalla	Dog	7.25	
17	Edappon - Adoor No.I	Dog	16	
18	Edappon - Adoor No.II	Dog	16	
19	Edappon - Mavelikkara No.I	Dog	10.8	
20	Edappon - Mavelikkara No.II	Dog	10.8	
21	Edathala - Aluva	Copper	4	
22	Ettumanur - Gandhi Nagar	Dog	8	
23	Ettumanur - Pala	Dog	16.2	
24	Ettumanur - Pallom	Dog	17	
25	Gandhi Nagar - Pallom	Dog	9	
26	Kakkanadu tap I	Tiger	0.1	
27	Kakkanadu tap II	Tiger	0.1	
28	Kalamassery - Aluva	Dog	5.88	
29	Kalamassery - Njarakkal No.I	Dog	13.6	
30	Kalamassery - Njarakkal No.II	Dog	13.6	
31	Kalamassery - NPOL (Thrikkakara)	Tiger	4.7	
32	Kalamassery - Premier Tyres No.I	Wolf	2	
33	Kalamassery - Premier Tyres No.II	Wolf	2	
34	Kalamassery - Vyttila	Tiger	11.93	
35	Kallada - Edamon No.I	Dog	9.24	
36	Kallada - Edamon No.II	Dog	9.24	
37	Kaloor - Marine Drive	400 Sq.mm XLPE	3.85	
38	Kaniyampetta - Anchukunnu	AAAC	9.2	
39	Kaniyampetta - Kuthumunda I	wolf	14	
40	Kaniyampetta - Kuthumunda II	Wolf	14	
41	Kanjikode - Chittoor No.I	Dog	15.58	
42	Kanjikode - Chittoor No.II	Dog	15.58	
43	Kanjikode - ITI	Mink	0.36	
44	Kanjikode - MCL Quarry	Mink	23.45	
45	Karimanal - Kothamangalam	Copper	30.4	
46	Karuvatta - Mavelikkara	Dog	17.3	

Table 35 -66 kV lines contd..

47	Kattanam - Karunagappally	Copper/ACSR Dog/ACSR Wolf	29.65	
48	Kochu Pampa - Sabarigiri	Dog	14.7	
49	Kochu Pampa - Thriveni No.I	Dog	12.1	
50	Kochu Pampa - Thriveni No.II	Dog	12.1	
51	Koothattukulam - Kuravilangad	Copper	12	
52	Kothamangalam - Bhoothathankettu I	Wolf	13.25	
53	Kothamangalam - Bhoothathankettu II	Wolf	13.25	
54	Kothamangalam - Idamalayar	Mink	23.3	
55	Kothamangalam - Koothattukulam	Copper	23	
56	Kunnamangalam - Kuttikkattoor	Dog	7.2	
57	Kunnamangalam - Thamarassery	Dog	15.8	
58	Kuravilangad - Ettumanur	Copper	8	
59	Kuthumunda - Thamarassery	Copper	19.3	
60	Kuthumunda - Uppatty (Inter state)	Mink	16.8	
61	Kuttanad - Alappuzha	Mink	13.8	
62	LA Complex - Powerhouse	400 Sq.mm XLPE	3.5	
63	LILO from Vytilla - Puthencruz No I to Thripunithura	400 Sq.mm XLPE	3	
64	Malankara - Thodupuzha	Dog	14.7	
65	Malappuram - Mankada	Mink	10.708	
66	Malappuram - Nilambur	Mink	34.38	
67	Mananthavadi - Anchukunnu	AAAC	9.7	
68	Mankavu - Puthiyara	400 Sq.mm XLPE	3.2	
69	Mattanchery - Fort Kochi No.I	400 Sq.mm XLPE	4.2	
70	Mattanchery - Fort Kochi No.II	400 Sq.mm XLPE	4.2	
71	Mavelikkara - Kattanam	Copper/ACSR Dog/ACSR Wolf	13.65	New line
72	Mavelikkara - Nangiarkulangara	Dog	9.5	
73	Moolamattom - Malankara	Dog	16.54	
74	Moolamattom - Thodupuzha	Dog	29.7	
75	Mundakkayam - Peerumedu	Dog	13.5	
76	Nallalam - Kuttikkattoor	Copper	9.3	
77	Nedumkandam - Kattappana	Wolf	15.8	
78	Nedumpoyil - Mananthavadi	Copper	29	
79	Nilambur - Edakkara No I	Wolf	12.75	
80	Nilambur - Edakkara No II	Wolf	12.75	New line
81	NPOL (Thrikkakara) - Vytilla	Tiger	8.52	
82	Pallivasal - Aluva	Copper	81	
83	Pallivasal - Edathala	Copper	77	
84	Pallivasal - Karimanal	Copper	26.8	
85	Pallivasal - Kothamangalam	Copper	52	
86	Pallom - Chumathra	Dog	20.4	
87	Pallom - Kuttanad	Dog	18.54	
88	Pallom - Thiruvalla	Dog	22.75	
89	Panampilly Nagar - Perumanoor	Dog	0.4	
90	Paruthippara - Balaramapuram	Mink	17.58	
91	Paruthippara - LA Complex	400 Sq.mm XLPE	4.3	
92	Paruthippara - TERLS	Dog	8.29	
93	Paruthippara - Vattiyoor kavu	Mink	8.13	
94	Paruthippara - Veli	Dog	10.91	
95	Pathanamthitta - Koodal	Mink	14	
96	Pathirappally - Cherthala	Tiger	17.1	
97	PCBL- Puthencruz	Dog	5.85	
98	Peerumedu - Vandiperiyar	Dog	11.5	
99	Perumanoor - Cochin Shipyard	400 Sq.mm XLPE	0.09	
100	Perumanoor - Marine Drive	400 Sq.mm XLPE	4.25	
101	Perumbavoor - Travancore Rayons No.I	Mink	1.3	
102	Perumbavoor - Travancore Rayons No.II	Mink	1.3	
103	Powerhouse - Thirumala	400 Sq.mm XLPE	6.8	
104	Punnapra - Alappuzha No.I	Dog	8.9	
105	Punnapra - Alappuzha No.II	Dog	8.9	
106	Punnapra - Karuvatta	Dog	16.7	
107	Punnapra - Nangiarkulangara	Dog	24.1	

Table 35 -66 kV lines contd..

108	Sasthamkotta - Karunagappally	Dog	13	
109	Sengulam - Pallivasal No.I	Copper	6.5	
110	Sengulam - Pallivasal No.II	Copper	6.5	
111	Sengulam - Vazhathopu	Mink	22.4	
112	Tap line to KAMCO from CHAL feeder	Mink	0.47	
113	Tap No.I to Appollo Tyres from CHVY feeder	Mink	0.75	
114	Tap No.I to Changanassery from PLCU feeder	Dog	0.03	
115	Tap No.I to Ernakulam North from KLNJ No.I feeder	Dog	4.96	
116	Tap No.I to HOC from VTPT No.I feeder	Dog	0.3	
117	Tap No.I to Karukutty from CHAN feeder	Mink	0.15	
118	Tap No.I to Perumbavoor from ALKM No.I feeder	Mink	1.8	
119	Tap No.I to TELK from CHAL feeder	Mink	0.35	
120	Tap No.II to Appollo Tyres from CHOL feeder	Mink	0.75	
121	Tap No.II to Changanassery from PLTV feeder	Dog	0.03	
122	Tap No.II to Ernakulam North from KLNJ No.II feeder	Dog	4.96	
123	Tap No.II to HOC from VTPT No.II feeder	Dog	0.3	
124	Tap No.II to Karukutty from CHAL feeder	Mink	0.15	
125	Tap No.II to Perumbavoor from ALKM No.II feeder	Mink	1.8	
126	Tap No.II to TELK from CHAN feeder	Mink	0.35	
127	Tap to Ambalaparamba from KGKT feeder	Mink	13.56	
128	Tap to Aroor from VKCT feeder	Dog	13.8	
129	Tap to Carborandum from KLPR No.II feeder	Mink	2.6	
130	Tap to Cyber park from Nallalam - Kuttikkattoor	Wolf	0.225	
131	Tap to Edamula KRL Pumphouse from KLAL feeder	Dog	1.9	
132	Tap to Gwalior Rayons from Ambalaparamba Tap line	Mink	0.6	
133	Tap to HMT from KLVV feeder	Mink	0.37	
134	Tap to INDSIL from KJCI No.I feeder	Dog	0.1	
135	Tap to Iruttukanam PH from PVKR feeder	Wolf	1.25	
136	Tap to Kannampully from VNNM feeder	Mink	0.05	
137	Tap to Koothattukulam from MLTD feeder	Mink	11.3	
138	Tap to Kottayam from ETPL feeder	Dog	0.3	
139	Tap to Kulamavu from SGML feeder	Mink	1.35	
140	Tap to Kuravilangad	Dog	0.9	
141	Tap to Madura Coats from CHAL feeder	Copper	0.85	
142	Tap to Mulavukad from KLNJ No.II feeder	Dog	0.1	
143	Tap to Nangiarkulangara from KVMV feeder	Dog	0.01	
144	Tap to Palakkad Medical College from VNKJ feeder	Mink	0.1	
145	Tap to PRECOT Mills from VNKJ No.I feeder	Dog	1.0	
146	Tap to SEPR from KJMQ feeder	Mink	1.1	
147	Tap to Sulthan Bathery from KNKU feeder	Mink	20.5	
148	Tap to Thenmala	Mink	0.06	
149	Tap to Thrissur Municipality from VIOL feeder	Dog	2.1	
150	Tap to TTP from PPVL feeder	Dog	1.1	
151	Tap to Vizhinjam from PPBL feeder	Mink	10	
152	TERLS - Veli	240 Sq.mm XLPE	4.8	
153	Thirumala - Balaramapuram	Mink	8.89	
154	Thiruvalla - Mavelikkara	Dog	18.2	
155	Thiruvalla - Mavelikkara	Dog	18.2	
156	Vaikom - Cherthala	Dog	22.9	
157	Vaikom - Ettumanur	Dog	21	
158	Valiavelicham - Nedumpoil	Wolf	15.46	
159	Vandiperiyar - Kochu Pampa	Dog	21.8	
160	Vattioorkavu - Thirumala	Mink	7.08	
161	Vazhathope - Nedumkandam	Wolf	26.6	
162	Vazhathopu - Moolamattom	Mink	18.8	
163	Veli - Airport No.I	240 Sq.mm XLPE	4.3	
164	Veli - Airport No.II	240 Sq.mm XLPE	4.3	
165	Vennakkara - Kanjikode No.I	Dog	12.97	
166	Vennakkara - Kanjikode No.II	Dog	12.97	
167	Vennakkara - Nemmara	Mink	20.94	

Table 35 -66 kV lines contd..

168	Viyur - Ollur	AAAC	10.7	
169	Vyttila - Panampilly Nagar	Dog	3	
170	Vyttila - PCBL	Dog	15.35	
171	Vyttila - Perumanoor	Dog	3.4	
172	Vyttila - Puthencruz No.I	Dog	17.5	
66kV LINE-Total in Ckt.KM			2000.75	
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 - Kacheri UG Cable	UG	4.8	
12	Attingal - Kadakkavur	Dog	11	
13	Attingal - Venjaramoodu	Dog	10.4	
14	Azhikode - Coast Guard	UG	13.74	
15	Azhikode - Kannur Town	Dog	5.3	
16	Belur - Rajapuram	Dog	15.36	New line
17	Chalakudy - Kallettumkara	Dog	11.8	
18	Chalakudy - Koratty	Dog	6.9	
19	Chalakudy - Pariyaram (Thrissur)	Dog	7.8	
20	Chalakudy - Vellikulangara	Dog	12.9	
21	Chavakkad (Punna) - Blangad	Dog(OH+UG)	6.8	
22	Chelari - KINFRA No.I	Dog	2.5	
23	Chelari - KINFRA No.II	Dog	2.5	
24	Chembukadavu-II PH - Chembukadavu-I PH	Dog	1.1	
25	Chengannur - Mannar	Dog	11.3	
26	Cherpu - Chirakkal	Dog	5.8	
27	Cherpu - Palakkal	Dog	5.4	
28	Cheruvathur - Thrikkarippur	Dog	11.2	
29	Cheruvathur - West Elery	Dog	17.5	
30	Edappon - Kattanam	Dog	9.2	
31	Edappon - Pandalam	Dog	8	
32	Edarikode - Kooriyad (Kakkad)	Dog	8	
33	Edarikode - Othukungal	Dog	8.1	
34	Edarikode - Thirunavaya	Dog	23	
35	Edathua - Kadapra	Dog	9.2	
36	Edavanna - Wandoor	Dog	12.5	
37	Guruvayoor - Chavakkad	Dog	6.7	
38	Irinjalakuda - Parappukara No.I	Dog	11.6	
39	Irinjalakuda - Parappukara No.II	Dog	11.6	
40	Irinjalakuda - Vellangallur	Dog	6.6	
41	Iritty-Barapole 1	UG	14.7	
42	Iritty-Barapole 2	UG	14.7	
43	Kaduthuruthy - Kallara	Dog	7.7	
44	Kaipamangalam - Anchangady No.I	Dog	8.6	
45	Kaipamangalam - Anchangady No.II	Dog	8.6	
46	Kaloor - Lulu Mall No.I	300 Sq.mm XLPE	5.38	
47	Kaloor - Lulu Mall No.II	300 Sq.mm XLPE	5.38	
48	Kaloor - Lulu Mall No.III	300 Sq.mm XLPE	5.38	
49	Kaloor - Thammanam UG Cable	300 Sq.mm XLPE	4	
50	Kandassankadavu - Mullassery	Dog	7.6	
51	Kandassankadavu - Vadanappilly	Dog	4.2	
52	Kanhangad - Belur	Dog	11.5	
53	Kanhangad - Neeleswaram	Dog	10.5	
54	Kanhangad - Solar Park Ambalathara	Dog	12.4	
55	Kanhangad - Kanhangad Town	Dog	6.85	
56	Kanhirode - Kuttiyattoor	Dog	8.9	

Table 35 -33 kV lines contd..

57	Kanhirode - Pazhassi	Dog	18.7	
58	Kaniyampetta - Kalpetta	Dog	10.8	
59	Kaniyampetta - Meenangadi	Dog	11.5	
60	Kaniyampetta - Padinjarethara	Dog	17.8	
61	Kaniyampetta - Pulpally	Dog	26	
62	Kattanam - Vallikunnam	Dog	8.5	
63	Kayamkulam - Oachira	Dog	11	
64	Keezhissery - Chelari	Dog	14	
65	Keezhissery - Edavanna	Dog	19	
66	Keezhissery - Valluvambram	Dog	8	
67	Kilimanoor - Kadakkal	Dog	9.5	
68	Kilimanoor - Kallambalam	Dog	15	
69	Kollenkode - Koduvayur	Dog	11.7	
70	Kollenkode - Muthalamada	Dog	9.7	
71	Kollenkode - Nellyampathy	Dog	9.5	
72	Kollenkode - Pallassena	Dog	8.7	
73	Koottanad - Chalissery	Dog	4.5	
74	Koottanad - Thrithala	Dog	5.3	
75	Koppam - Pattambi	Dog	10.1	
76	Koppam - Thazhekcode	Dog	18	
77	Koppam - Thiruvegappura	Dog	13.2	
78	Kottiyam - Adichanallur	Dog	10	
79	Kottiyam - Kannanallur	Dog	8	
80	Kottiyam - Paravoor	Dog	4.7	
81	Koyilandi - Balussery	Dog	12.5	
82	Kozhinjampara - Meenakshipuram	Dog	16	
83	Kozhinjampara - Vannamada	Dog	4	
84	Kozhinjampara - Velanthavalam	Dog	9.2	
85	Kunnamkulam - Kongannur	Dog	9.4	
86	Kurumassery - Puthenvelikkara	Dog	7.2	
87	Kurumassery 110 - Kurumassey 33	Dog	1.2	
88	Kurumassery-Annamanada	Dog	9.1	
89	Kuthunkal-Senapathy	Dog	16.79	
90	Kuttiapuram - Thirunavaya	Dog	16.5	
91	Kuttiapuram - Vairamkode	Dog	11	
92	Kuttiyadi - Poozhithodu PH	Dog	14	
93	Makkaraparamba - Pulamanthole	Dog	16	
94	Malappuram - Makkaraparamba	Dog	8.7	
95	Malappuram - Valluvambram	Dog	11.3	
96	Malayattoor - Kalady	Dog	6.3	
97	Malayattoor - Koovapady	Dog	4.2	
98	Mallappally - Karukachal	Dog	7.1	
99	Mallappally - Kumbanad	Dog	10.5	
100	Mannarkkad - Agali No.I	Dog	28.5	
101	Mannarkkad - Agali No.II	Dog	28.5	
102	Mannarkkad - Alanellur	Dog	16.2	
103	Mattannur - Kuyiloor (KWA) No.I	Dog	4.6	
104	Mattannur - Kuyiloor (KWA) No.II	Dog	4.6	
105	Mattannur- KIAL 33 DC	Dog	12.4	
106	Medical college, TVM - Pattoor SC UG	UG	3.3	
107	Medical college, TVM - Vidyuthi Bhavanam	UG	4	New line
108	Melattur - Thazhekcode	Dog	23	
109	Melattur - Wandoor	Dog	18.7	
110	Meppayur - Melady	Dog	9.4	
111	Meppayur - Perambra	Dog	8	
112	Moovattupuzha - Kalloorkkad	Dog	14	
113	Moovattupuzha - Mazhuvannur	Dog	4.8	
114	Mulleria - Badiyadka	Dog	12.5	
115	Mulleria - Perla	Dog	15.8	
116	Mulloorkara - Chelakkara	Dog	8.4	
117	Mundakkayam - Kootikkal	Dog	8.09	
118	Mundayad - Puthiyatheru	Dog	6.5	
119	Mundayad - Thottada	Dog	8.8	

Table 35 -33 kV lines contd..

120	Nadukani - Alakode	Dog	16.7	
121	Nallalam - Feroke	(OH+UG)	7.5	
122	Nedumangad - Aryanadu (OH+UG,10.03+.45)	OH+UG	10.48	
123	Nedumangad - Chullimanur	Dog	5.8	
124	Nedumangad - Vithura No.I	Dog	12.6	
125	Nedumangad - Vithura No.II	300 sq.mm XLPE	12.6	
126	Nedumangad to LPSC SC UG	UG	5.1	
127	Nedumkandam - Ramakkalmedu No.I	Dog	8	
128	Nedumkandam - Ramakkalmedu No.II	Dog	8	
129	Nedumkandam - Vandamedu	Dog	21	New line
130	Nedumpoil - Kelakom	UG	10.3	New line
131	Nilambur - Adyanpara SC line	Dog	13.5	
132	Nilambur - Pookkottumpadam	Dog	7.8	
133	North Parur - Alangad	Dog	9	
134	North Parur - Vadakkekara	Dog	9.3	
135	North Parur - Varappuzha	Dog	8.5	
136	Ollur - Pattikkad	Dog	16	
137	Ollur - Puthur (Thrissur)	Dog	4.3	
138	Pala - Kidangoor	Dog	9.6	
139	Pala - Paika	Dog	10	
140	Pala - Ramapuram	Dog	10	
141	Palakkad Vydhyuthi Bhavan - Olavakkode	Covered conductor/ABC	2.78	
142	Panoor - Kodyeri	Dog	6.5	
143	Panoor - Puthur (Kannur)	Dog	8.9	
144	Parali - Kongad	Dog	12	
145	Parali - Maniyampara	Dog	8	
146	Parali - Sreekrishnapuram	Dog	30	
147	Parassala - Poovar	Dog	15.5	
148	Parassala - Vellarada	Dog	14.5	
149	Pathanamthitta - Konny	Dog	8.3	
150	Pathanamthitta - Ranni Perinad	Dog	18.6	
151	Payyannur - Payyannur Town	Dog	5.3	
152	Peerumedu - Upputhara	Dog	21.5	
153	Peerumedu - Vagaman	Dog	17	
154	Perumbavoor - Kurupampady	Dog	8.5	
155	Perumbavoor - Vengola	Dog	4.8	
156	Pinarayi - Dharmadom	Dog	5.5	
157	Pinarayi - Tholambra	Dog	31.7	
158	Pinarayi - Thottada	Dog	10.5	
159	Punnapra - Kalarcode	Cov C	4.5	New line
160	Punnapra - Thakazhy	Dog	11.4	
161	Ranni - Manimala	Dog	18.5	
162	Santhinagar - Pookkottumpadam Tap	Dog	10	
163	Tap from Edarikode - Thirunavaya to Kalpakanchery	Dog	0.8	
164	Tap Line from Nedumangad -Vithura	Dog	0.82	
165	Tap to Alanellur from METZ feeder	Dog	6	
166	Tap to Pulamanthole from KPTZ feeder	Dog	2	
167	Tap to Ramanattukara from CLRA No.I feeder	Dog	5.92	
168	Tap to Veliambra from Mattannur Kuyiloor	Dog	0.5	
169	Thaliparamba - Nadukani No.I	Dog	12.5	
170	Thaliparamba - Nadukani No.II	Dog	12.5	
171	Thaliparamba - Pariyaram (Kannur)	Dog	9.2	
172	Thambalamanna - Chembukadavu-II PH	Dog	11	
173	Thambalamanna - Urumi	Dog	5.3	
174	Thirumala - Karamana	300 sq.mm XLPE	4.5	
175	Thirumala - Peyad	300 sq.mm XLPE	7	
176	Thirunavaya - Thrikkannapuram (Thavanur)	Dog	3.1	
177	Thrikodithanam - Vakathanam	300sq.mmXLPE+Dog	8.7	
178	Thycattussery - Kuthiyathodu No.I	Dog	6	
179	Thycattussery - Kuthiyathodu No.II	Dog	6	
180	Udumpannoor - Vannapuram	Dog	17	
181	Urumi - Urumi-II PH	Dog	0.2	

182	Urumi-II PH - Urumi-I PH	Dog	0.82	
183	Vadakara - Thiruvallur	Dog	9.6	
184	Vadakkenchery - Alathur	Dog	13.6	
185	Vadakkenchery - Chittadi	Dog	12.5	
186	Vadakkenchery - Tarur	Dog	11	
187	Vaikom - Kaduthuruthy No.I	Dog	10	
188	Vaikom - Kaduthuruthy No.II	Dog	10	
189	Valappad - Anthikadu No.I	Dog	6.2	
190	Valappad - Anthikadu No.II	Dog	6.2	
191	Valappad - Kaipamangalam No.I	Dog	10.7	
192	Valappad - Kaipamangalam No.II	Dog	10.7	
193	Vandiperiyar - Kumily	Dog	17	
194	Vennakkara- Palakkad Vydhyuthi Bhavan	UG Cable + OH	5	
195	Vidyanagar - Ananthapuram	Dog	9.3	
196	Vidyanagar - Kasargod Town	Dog	5	
197	Vilangad HEP-Nadapuram	300 Sq.mm XLPE	14.5	
198	Vithura - IISER	300 sq.mm XLPE	13.4	
199	Viyyur - Parappur No.I	Dog	13	
200	Viyyur - Parappur No.II	Dog	13	
201	Viyyur - Poomala	Dog	11	
202	Wadakkanchery - Mulloorkara	Dog	7.5	
203	Wandoor - Kalikavu	Dog	14	
	33kV LINE-Total in Ckt.KM		2057.49	
	Grand Total		13053.21	

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	2001-02	220	195	251	210	341	281
2	2002-03	262	254	319	266	417	352
3	2003-04	284	255	330	279	422	400
4	2004-05	217	195	260	220	347	289
5	2005-06	193	175	233	201	352	304
6	2006-07	179	173	213	202	368	336
7	2007-08	207	202	243	234	393	369
8	2008-09	321	321	349	347	474	447
9	2009-10	291	291	320	319	457	438
10	2010-11	289	289	321	319	472	466
11	2011-12	305	301	332	326	493	455
12	2012-13	487	480	515	501	666	632
13	2013-14	417	408	446	428	659	614
14	2014-15	382	379	422	416	625	578
15	2015-16	357	354	393	388	586	542
16	2016-17	413	410	448	443	659	613
17	2017-18	339	332	394	377	637	569
18	2018-19	60	42	398	389	653	618
19	2019-20	76	67	399	395	632	609

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	2019-20
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	-	10
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	49.96
	Total	598.05	2.86	10.50	18.55	44.56	57.52	133.98	774.00	79.76	27.63	59.96
B. TRANSMISSION												
1	400 kV Substations (Nos)								1	0	0	0
2	220 kV Substations (Nos)	9	1	-	1	-	-	2.00	22	2	0	1
3	110 kV Substations (Nos)	60	1	5	1	8	3	18.00	72	6	3	9
4	66 kV Substations (Nos)	12	1	1	-	3	-	5.00	9	3	1	2
5	33 kV Substations (Nos)	47	8	4	1	3	7	23.00	34	5	5	6
6	400 kV Lines (Ckt-km)								178	0	0	92
7	220 kV Lines (km)	227	26.87	-	36.2	0.68	-	63.75	845.37	54.1	0	73.18
8	110 kV Lines (km)	1216	27.55	112.59	39.4	66.60	67.66	313.80	2004.98	79.76	134.2	235.24
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	100.06
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	380,584
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	1,939
3	LT lines (km)	26,900	3,066	3,735	4,636	3,312	5,358	20,107	8,537	3,130	3,401	3,689
4	Distribution Transformers (Nos)	18,543	2,643	3,200	3,547	2,389	2,271	14,050	6,249	2,353	2,410	2,023
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	1,197,183

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

As on 31-3-2020

Region	Sector	Source wise breakup								Total
		Thermal					Nuclear	Hydro	Renewable*	
		Coal	Lignite	Gas	Diesel	Total				
Northern Region	State	16659.00	250.00	2879.20	0.00	19788.20	0.00	5777.25	701.01	26266.46
	Private	22425.83	1080.00	558.00	0.00	24063.83	0.00	2817.00	15788.13	42668.96
	Central	14354.96	250.00	2344.06	0.00	16949.02	1620.00	11491.52	379.00	30439.54
	Sub Total	53439.79	1580.00	5781.26	0.00	60801.05	1620.00	20085.77	16868.14	99374.96
Western Region	State	21740.00	1040.00	2849.82	0.00	25629.82	0.00	5446.50	555.54	31631.86
	Private	32847.17	500.00	4676.00	0.00	38023.17	0.00	481.00	24652.05	63156.22
	Central	18347.95	0.00	3280.67	0.00	21628.62	1840.00	1695.00	666.30	25829.92
	Sub Total	72935.12	1540.00	10806.49	0.00	85281.61	1840.00	7622.50	25873.89	120618.00
Southern Region	State	19512.50	0.00	791.98	159.96	20464.44	0.00	11774.83	586.88	32826.15
	Private	12747.00	250.00	5340.24	273.70	18610.95	0.00	0.00	41277.52	59888.47
	Central	11835.02	3240.00	359.58	0.00	15434.60	3320.00	0.00	541.90	19296.50
	Sub Total	44094.52	3490.00	6491.80	433.66	54509.99	3320.00	11774.83	42406.30	112011.12
Eastern Region	State	7450.00	0.00	100.00	0.00	7550.00	0.00	3537.92	275.11	11363.03
	Private	6153.00	0.00	0.00	0.00	6153.00	0.00	96.00	1211.86	7460.86
	Central	13682.05	0.00	0.00	0.00	13682.05	0.00	1005.20	10.00	14697.25
	Sub Total	27285.05	0.00	100.00	0.00	27385.05	0.00	4639.12	1496.97	33521.13
North Eastern Region	State	0.00	0.00	497.71	36.00	533.71	0.00	422.00	233.25	1188.95
	Private	0.00	0.00	24.50	0.00	24.50	0.00	0.00	100.95	125.45
	Central	770.02	0.00	1253.60	0.00	2023.62	0.00	1155.00	30.00	3208.62
	Sub Total	770.02	0.00	1775.81	36.00	2581.83	0.00	1577.00	364.20	4523.02
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	7.84	7.84
	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	18.19	58.24
ALL INDIA	State	65361.50	1290.00	7118.71	236.01	74006.21	0.00	26958.50	2357.03	103321.74
	Private	74173.00	1830.00	10598.74	273.70	86875.45	0.00	3394.00	83038.35	173307.79
	Central	58990.00	3490.00	7237.91	0.00	69717.91	6780.00	15346.72	1632.30	93476.93
	Total	198524.50	6610.00	24955.36	509.71	230599.57	6780.00	45699.22	87027.68	370106.46

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		
4683.16	37693.75	9875.31	147.64	34627.82	87027.68

Source -CEA Annual Report 2019-20

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

In MW

As on 31-3-2020

State / UT / Utilities	Source wise breakup								Total
	Thermal					Nuclear	Hydro	Renewable	
	Coal	Lignite	Gas	Diesel	Total				
Delhi	4406.35	0	2115.41	0	6521.76	102.83	740.09	217.16	7581.84
Haryana	8660.57	0	685.61	0	9346.18	100.94	2312.02	531.3	12290.44
Himachal Pradesh	151.69	0	62.01	0	213.7	28.95	2812.88	951.64	4007.17
Jammu & Kashmir	523.42	0	304.07	0	827.49	67.98	2321.88	199.78	3417.13
Punjab	8327.47	0	414.01	0	8741.48	196.81	3818.62	1448.5	14205.41
Rajasthan	10862.57	1580	824.9	0	13267.47	556.74	1953.19	9582.78	25360.18
Uttar Pradesh	18690.29	0	549.49	0	19239.78	289.48	3396.53	3235.71	26161.5
Uttarakhand	461.17	0	519.66	0	980.83	31.24	1876.89	660.72	3549.68
Chandigarh	40.74	0	15.03	0	55.77	8.01	102.21	40.55	206.54
Central unallocated	1315.53	0	291.05	0	1606.58	237.03	751.45	0	2595.06
Total Northern Region	53439.8	1580	5781.24	0	60801.04	1620.01	20085.76	16868.14	99374.95
Goa	481.33	0	67.67	0	549	26	1	5.17	581.17
Daman & Diu	153.55	0	43.34	0	196.89	7	0	19.86	223.75
Gujarat	15142.62	1540	6586.82	0	23269.44	559	796	10586.14	35210.58
Madhya Pradesh	15981.38	0	332	0	16313.38	273	3239.66	4995.01	24821.05
Chattisgarh	12009.05	0	0	0	12009.05	48	226.5	551.85	12835.4
Maharashtra	26223.82	0	3512.73	0	29736.55	690	3359.34	9710.4	43496.29
Dadra & Nagar Haveli	412.36	0	66.34	0	478.7	9	0	5.46	493.16
Central unallocated	2531	0	197.59	0	2728.59	228	0	0	2956.59
Total Western Region	72935.11	1540	10806.49	0	85281.6	1840	7622.5	25873.89	120618
Andhra Pradesh	10430.71	153.98	4066.72	36.8	14688.21	127.27	1673.6	8364.92	24854
Telangana	8358.8	179.92	831.82	0	9370.54	148.73	2479.93	4024.82	16024.02
Karnataka	9846.3	436.65	0	25.2	10308.15	698	3586.6	15232.06	29824.81
Kerala	2058.92	298	533.58	159.96	3050.46	362	1856.5	427.47	5696.43
Tamilnadu	11832.99	1790.75	1027.18	211.7	14862.62	1448	2178.2	14351.52	32840.34
NLC	0	133	0	0	133	0	0	0	133
Pondicherry	140.8	109.7	32.5	0	283	86	0	5.51	374.51
Central unallocated	1426	388	0	0	1814	450	0	0	2264
Total Southern Region	44094.52	3490	6491.8	433.66	54509.98	3320	11774.83	42406.3	112011.11
Bihar	5338.39	0	0	0	5338.39	0	110	343.47	5791.86
Jharkhand	2276.46	0	0	0	2276.46	0	191	46.75	2514.21
West Bengal	8997.62	0	100	0	9097.62	0	1396	532.88	11026.5
DVC	3455.02	0	0	0	3455.02	0	186.2	0	3641.22
Odisha	5893.98	0	0	0	5893.98	0	2150.92	521.69	8566.59
Sikkim	102.25	0	0	0	102.25	0	520	52.18	674.43
Central unallocated	1221.33	0	0	0	1221.33	0	85.01	0	1306.34
Total Eastern Region	27285.05	0	100	0	27385.05	0	4639.13	1496.97	33521.15
Assam	403.5	0	788.27	0	1191.77	0	489.58	75.34	1756.69
Arunachal Pradesh	37.05	0	46.82	0	83.87	0	158.05	136.72	378.64
Meghalaya	50.62	0	109.69	0	160.31	0	401.77	46.45	608.53
Tripura	56.1	0	606.45	0	662.55	0	75.99	25.42	763.96
Manipur	47.1	0	71.57	36	154.67	0	102.34	10.61	267.62
Nagaland	32.1	0	48.93	0	81.03	0	61.83	31.67	174.53
Mizoram	31.05	0	40.46	0	71.51	0	102.44	37.99	211.94
Central unallocated	112.5	0	63.62	0	176.12	0	185	0	361.12
Total North Eastern Region	770.02	0	1775.81	36	2581.83	0	1577	364.2	4523.03
Andaman & Nicobar Island	0	0	0	40.05	40.05	0	0	17.44	57.49
Lakshadweep	0	0	0	0	0	0	0	0.75	0.75
Total Islands	0	0	0	40.05	40.05	0	0	18.19	58.24
GRAND TOTAL	198524.5	6610	24955.34	509.71	230599.6	6780.01	45699.22	87027.69	370106.5

Fig at decimal may not tally due to rounding off

Source: CEA Annual Report 2019-20