



POWER SYSTEM STATISTICS

2020-21

Kerala State Electricity Board Limited

Registered Office: Vidyuthi Bhavanam, Pattom, Thiruvananthapuram – 695004 .
Website: www.kseb.in CIN: **U40100KL2011SGC027424**

Planning Wing, O/o the Director(Planning & Safety, SCM), Vidyuthi Bhavanam, Thiruvananthapuram- 695 004

Tele: 0471 251 4606, 0471 251 4520, e-mail: dceplg@kseb.in, dpskseb@kseb.in

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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	As on 31-3-21
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	3029.61
2	Maximum demand (Restricted)	MW	2998	3119	3348	3268	3588	3602	3860	4004	3884	4242	4316	4284
3	Maximum demand (Unrestricted)	MW	2998	3119	3473	3298	3588	3727	3985	4079	3910	4242	4316	4284
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	25144.99
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	7057.90
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	18912.23
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	25132.92
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	261.43
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	22540.32
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	22801.75
11	Per capita consumption	kWh	420	436	478	499	516	541	569	592	613	626	657	619
12	400kV lines(KSEBL owned)	Ckt km											92.00	177.03
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	3141.40
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	5030.86
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	2004.79
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	2108.00
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	64540
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	295,921
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	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	23159
21	EHT substations	No.	229	235	238	241	244	244	250	256	265	257	263	266
22	33 kV substations	No.	107	114	121	129	133	134	137	146	151	154	159	160
23	Distribution transformers	No.	52,149	57,954	62,329	64,972	67,546	71,195	73,460	75,580	77724	79876	81470	83465
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	10166
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	131.43
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	28302
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	14,12,689	14,17,639	14,22,764	14,47,820	14,76,776
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	5,12,339	5,25,367	5,38,918	5,52,858	4,95,432
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	13,806.20

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					13th 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	4th 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	2020-21
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	113.46
2	400kV line (Ckt km)											0	92	86	
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	238.00
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	324.50
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	8.40
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	39.20
7	11 kV line (km)	1816	3048	3398	3659	2986	1579	1884	1807	2022	1844	1744.11	1773	1939	2195
8	LT Lines (km)	8158	7563	7838	6762	4105	3066	3735	4636	3312	5357.00	3129.73	3401	3689	3650
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	0.00
10	No. of EHT substations including up gradation	6	2	11	6	3	3	6	2	11	3	11	4	12	15
11	No. of 33 kV substations	14	16	18	7	7	8	4	1	3	7	5	5	6	2
12	Step down transformer capacity (MVA)	469	385	1095	934	336	412	505	547.9	318	280.5	1355.2	716.7	362	1581
13	No. of distribution transformers	2553	4109	5790	5805	4375	2643	3200	3547	2389	2271	2353	2410	2023	2372
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	251
15	Service connections effected	482766	442895	447817	442889	413682	403421	415216	422238	381247	465531	353642	368673	380584	372116
16	Connected load (MW)	912.31	2889.44	599.11	815.30	836.57	1005.09	1160.64	707.4	589.3	1059.80	1311.41	1588.27	1902.7	1459
17	Street lights installed (Nos.)	49448	37641	61532	54768	15622	38675	40195	51621	57923	5665	4950	5125	25056	28956
18	Pump sets connected (Nos.)	5285	9213	6132	8583	8618	11211	12160	11607	10026	12257	13028	12686	13940	21143

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	28
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	Urumi Stage I
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	Chonging Electric Machinery Federation Ltd, 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	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	1,562.5
5	Rated voltage (kV)	3.3	3.3	11	11	11	11	11	11	11	11	11	6.3	6.3	6.3
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	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	0.8
8	Speed (RPM)	750 / 500	600	500	333.3	428	600	500	428.6	750	500	750	750	750	1000
9	Synchronous reactance X _d (%)	90 / 100	80	90	100	160	105	216	100	88.4	99	90	110	113	127
10	Transient reactance X' _d (%)	15 / 19	26.2	18	25	37	30	40	26.4		29	25	20.74	26	19.1
11	Sub transient reactance X'' _d (%)	14 / 18	17.4	14	25	27.5	18	21	15	18.4	25	19	13.78	19	13.6
12	Negative sequence reactance X ₂ (%)	11.7/15	17.1	15	18	29.5	24	21		10.25	27	20	14.35	19	14.4
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	4.7
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	≥1.0
15	Grounding of Neutral	Resistance	PT	Resistance	Transformer	Transformer	Transformer	Resistance	Transformer	NGT/NGR	Transformer	Transformer	Ungrounded	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	276

Table 3 continued

TABLE 3
PARTICULARS OF GENERATORS

		29	30	31	32	33	34	35	36	37	38	39	40	41
1	Name of Station	Urumi Stage II	Malankara	KAES	Ranni Perinad	Poozhithode	Peechi	Vilangad	Chimmony	Barapole	Adyanpara	Vellathooval	Perunthenaruvi	Kakkayam SHEP
2	Make of units	Hangzom Electric Equipment Work, China	Kossler Austria/Jyothi	BHEL	Crompton/ Kirlosker	TD Power System / Flovel	Kirlosker	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 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	1,000	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	11	11	3.3	3.3	3.3	3.3	3.3	11	3.3	3.3	6.6	11
6	Nominal output (MW)	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	0.85	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	750	500	750	750	600	750	600	500	750	750	750	750
9	Synchronous reactance X _d (%)	112	93.55	108	100	89.3	85	100	125	122	115	125	125	125
10	Transient reactance X' _d (%)	17.35	27.22	20.6	22	22.06	26	23	35.6	28	21	26	20	26
11	Sub transient reactance X'' _d (%)	13.03	17.22	11.38	15	17.6	19	16	22.4	19	13.4	20	16	18
12	Negative sequence reactance X ₂ (%)	14.13	23.84	11	20	29	18	22	28	21	13.5	28	26	18
13	Zero sequence reactance X ₀ (%)	4.1	8.41	8	15	19	12	16	20	4	14.2	19	19	16
14	Short circuit ratio	>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	Transformer	Transformer	Transformer	Transformer	Transformer	Neutral grounding resistor	Yes	Yes	Yes	NGT	NGT	NGT
16	Rated field current (Amps)	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	37.50	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	51.20	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	52.65	237	60
4	Panniar	Unit #1 - 16.2 Unit #2 - 16.2	29.12.1963 26.01.1964	01.02.2003 23.11.2001	32.40	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	36.00	191	61.25
6	Sholayar	Unit #1 - 18 Unit #2 - 18 Unit #3 - 18	09.05.1966 26.01.1968 14.05.1968		54.00	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	340.00	1338	51
8	Kuttiyadi	Unit #1 - 25 Unit #2 - 25 Unit #3 - 25	11.09.1972 01.11.1972 28.11.1972	NA	75.00	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	780.00	2398	35.92
10	Idamalayar	Unit #1 - 37.5 Unit #2 - 37.5	03.02.1987 28.02.1987	NA	75.00	380	57.73
11	Kallada	Unit #1 - 7.5 Unit #2 - 7.5	05.09.1994 05.01.1994	NA	15.00	65	40.33
12	Peppara	3	15.06.1996	NA	3.00	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	180.00	493	31.28
14	Mattupetty	2	14.01.1998	NA	2.00	6.40	35
15	Poringalkuthu Left Bank Extension	16	20.03.1999	NA	16.00	74	61.25
16	Kakkad	Unit #1 - 25 Unit #2 - 25	13.10.1999	NA	50.00	262	60
17	Kuttiyadi Extension	50	27.01.2001	NA	50.00	75	17.12
18	Malampuzha	2.5	26.11.2001	NA	2.50	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	2.70	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	3.75	9.03	28
21	Urumi Stage I	Unit #1 - 1.25 Unit #2 - 1.25 Unit #3 - 1.25	25.01.2004 25.01.2004 25.01.2004	NA	3.75	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	2.40	6.28	30

Table-4 contd..

Sl. No.	Name of Station	Unit Capacity (MW)	Date of Commissioning		Station Capacity (MW)	Annual Generation Capability (MU)	Design PLF (%)
			Original date	After renovation			
23	Malankara	Unit #1 - 3.5 Unit #2 - 3.5 Unit #3 - 3.5	23.10.2005 23.10.2005 23.10.2005	NA	10.50	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	3.50	7.63	30
25	Neriamangalam Extension	25	27.05.2008	NA	25.00	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	3.75	17.01	50
27	Kuttiadi Additional Extension	Unit #1 - 50 Unit #2 - 50	11.10.2010 30.10.2010	NA	100.00	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	4.80	10.97	26
29	Ranni Perinad	Unit #1 - 2 Unit #2 - 2	16.02.2012 16.02.2012	NA	4.00	16.73	48
30	Peechi	1.25	07.01.2013	NA	1.25	3.21	30
31	Vilangad	Unit #1 - 2.5 Unit #2 - 2.5 Unit #3 - 2.5	26.07.2014	NA	7.50	22.63	34
32	Chimony	2.5	25.05.2015	NA	2.50	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	3.50	9.01	30
34	Poringalkuthu Micro	Unit#011	1.2.2016	NA	0.01	0.082	
35	Barapole	Unit #1 - 5 Unit #2 - 5 Unit #3 - 5	29.02.2016 29.02.2016 29.02.2016	NA	15.00	36	27
36	Vellathooval	Unit #1 - 1.8 Unit #2 - 1.8	26.5.2016	NA	3.60	12.7	40
37	Perunthenaruvi	Unit #1 - 3.0 Unit #2 - 3.0	23.10.2017	NA	6.00	25.77	49
38	Kakkayam	Unit #1 - 1.5 Unit #2 - 1.5	16.07.2018		3.00	7.34	
Total					2058.76	7215.1720	
PART B - WIND							
1	Kanjikode	9 x 0.225 MW	18.05.1995	NA	2.03	4.00	20
Total					2.03	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	63.96	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	96.00	672.00	80
Total					159.96	1035.6000	
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	359.58	2158	68.50
PART D - SOLAR							
1	Kanjikode S/s	1.00	10.08.2015	NA	1.00	1.58	18.00
2	Chaliyoor Colony, Agali	0.096	31.08.2015	NA	0.10	0.15	18.00
3	Poringalkuthu Powerhouse	0.05	10.09.2015	NA	0.05	0.06	14.00
4	Banasurasagar FL, Wayanad	0.01	21.01.2016	NA	0.01	0.01	17.00
5	Meencut RT	0.03	30.06.2016	NA	0.03	0.04	18.00
6	Kothamangalam RT	0.13	31.07.2016	NA	0.13	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	0.35	0.57	19.00

Table-4 contd..

Sl. No.	Name of Station	Unit Capacity (MW)	Date of Commissioning		Station Capacity (MW)	Annual Generation Capability (MU)	Design PLF (%)
			Original date	After renovation			
9	Kollengode Substation	1.00	08.08.2016	NA	1.00	1.66	19.00
10	Padinjarethara Dam Top	0.40	29.08.2016	NA	0.40	0.67	19.00
11	Moozhayar RT	0.13	31.08.2016	NA	0.13	0.19	17.00
12	Edayar Substation premises	1.25	05.09.2016	NA	1.25	2.08	19.00
13	Barapole Canal bank	1.00	07.11.2016	NA	1.00	1.66	19.00
14	Barapole Canal top	3.00	17.11.2016	NA	3.00	4.99	19.00
15	KDPP,Kozhikode	0.035	10.03.2017	NA	0.04	0.06	18.00
16	Thalukulathoor	0.65	22.04.2017	NA	0.65	1.00	17.50
17	Roof Top of Vidyuthi Bhavanam	0.03	17.05.2017	NA	0.03	0.04	14.62
18	Manjeswaram GM	0.50	30.05.2017	NA	0.50	0.70	16.00
19	Kuttiapuram GM	0.50	28.11.2017	NA	0.50	0.83	19.00
20	Roof Top KSEBL Distribution Wing Buildings (12 nos.)	0.46	21.12.2017	NA	0.46	0.46	11.39
21	Pezhayikkappalli	1.25	15.01.2018	NA	1.25	1.75	16.00
22	Pothencode SS	2.00	02.02.2018	NA	2.00	2.80	16.00
23	Roof Top KSEBL Transmission Wing Buildings (27 nos.)	0.91	28.02.2018	NA	0.91	1.02	12.82
24	Poringalkuthu Screw generation	0.01	06.02.2016	NA	0.01	0.01	17.00
25	S/s Ponnani	0.50	16.01.2019	NA	0.50	0.83	19.00
26	S/s Kottiyam	0.60	27.01.2020	NA	0.60	1.00	19.00
27	Floating solar	0.50	2.2019	NA	0.50	0.74	17.00
28	IPDS(South&Central),24 locations	0.49	2019	NA	0.49	0.73	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					17.48	26.85	
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	12.00	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	21.00	79	42.94
3	Ullunkal	Unit #1 - 3.5 Unit #2 - 3.5	13.11.2008 13.11.2008	NA	7.00	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	4.50	15.86	50
5	Pampumkayam (Mankulam)	Unit #1 - 0.055 Unit #2 - 0.055	3.8.2012	NA	0.11	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	15.00	62.42	-
7	Meenvallom	Unit #1 - 1.5 Unit #2 - 1.5	17.6.2014	NA	3.00	8.37	-
8	Kallar	0.05	31.3.2015	NA	0.05	0.13	-
9	Pathankayam	Unit #1 - 3.5 Unit #2 - 3.5 Unit #3 - 1.0	14.7.2017	NA	8.00	21.02	30.00
10	Deviyar	Unit#1-.025 Unit #2-.025	2020-21	NA	0.05	0.02	
Total					70.71	255.3250	
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			
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	10.00	70.08	-
Total					10.00	70.08	

Table-4 contd..

Sl. No.	Name of Station	Unit Capacity (MW)	Date of Commissioning		Station Capacity (MW)	Annual Generation Capability (MU)	Design PLF (%)
			Original date	After renovation			
PART 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	14.25	32.46	26
2	Agali	7 x 0.6 MW 16 x 0.6 MW 2 x 0.6 MW 6 x 0.6 MW	31.03.2008 31.03.2010 29.09.2010 31.10.2010	NA	18.60	37.48	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	8.40	16.19	22
4	INOX	8x2 MW		NA	16.00	30.84	22
5	Kosamattom	1X1 MW		NA	1.00	1.66	19
6	Malayala Manorama	5x2 MW	28.4.2019	NA	10.00	20.15	23
Total					68.25	138.7672	
PART G - PRIVATE SOLAR							
1	Cochin International Airport Ltd. (Prosumer)	38.44 MW	24.3.2018	NA	38.44	60.61	18
2	Solar park, Ambalathara	4 MW	14.12.2016	NA	50.00	78.84	18
		16 MW	04.01.2017				
		8 MW	07.02.2017				
		8 MW	30.03.2017				
		14 MW	13-09-2017				
3	Anert,Kuzhalmandam	2MW	9.12.2016		2.00	3.15	18
4	Hindalco (Prosumer)	3MW	31.03.2016		3.00	4.73	18
5	KMRL	5.395 MW	21.07.2019		5.40	8.98	19
6	THDCIL-Paivalika Solar Park	50 MW	31.12.2020		50.00	78.84	18
7	Grid Connected Prosumers	MW	As on 31.3.2021		134.01	199.57	17
Total					282.85	434.72	
GRAND TOTAL					3029.61	11338.51	

* Note: BSES IPP Thermal , MP Steel Casting limited not considered

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

Brahmputra Diesel Power Plant (BDPP) decommissioned on 05.2020

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	2020-21
Idukki	29.79	33.06	44.52	22.87	40.08	36.5	34.62	20.68	25.04	44.0875	26.74	37.19
Sabarigiri	53.36	55.97	58.49	35.16	66.32	41.12	39.21	26.77	32.55	50.78	37.25	40.83
Idamalayar	49	56.53	52.97	37.89	58.64	56.72	45.4	27.34	45.78	52.62	39.75	44.30
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	23.25
Poringalkuthu	52.3	63.27	59.46	46.02	37.66	57.97	54	42.79	51.29	40.29	34.34	48.65
PLBE	77.64	86.1	72.68	70.47	81.27		75.7			21.25	71.25	73.13
Sholayar	47.34	51.42	46.46	44.12	49.27	50.36	44.3	35.33	43.18	41.57	43.80	57.01
Pallivasal	85.14	84.56	70.27	51.49	65.61	78.94	83.5	68.18	77.36	56.36	43.18	40.22
Sengulam	35.74	38.34	38.49	25.45	33.48	36	38.17	27.49	34.46	27.51	33.79	26.28
Panniar	46.22	63.73	65.63	32.06	60.76	55.26	61.98	22.17	46.18	36.88	62.91	65.56
Neriamangalam	48.58	53.28	53.11	33.48	52.37	50.57	51.72	28.89	45.75	55.39	46.15	52.10
Lower Periyar	32.59	38.21	41.14	22.61	38.12	37.44	33.04	19.99	30.2	33.25	27.08	32.08
Kakkad	59.23	55.21	52.86	32.07	56.54	56.18	54.48	38.04	47.04	50.37	40.25	70.44
Kallada	45.98	54.86	49.94	16.6	51.57	48.53	33.88	35.55	41.22	51.95	25.39	38.00
Peppara	23	37.12	31.19	14.05	29.06	20.34	16.3	14.96	19.84	31.30	21.82	33.66
Madupetty	10.91	13.01	6.96	13.97	34.87	21.87	25.01	13.17	18.55	9.65	24.47	42.55
Malampuzha	0	0	12.63	8.69	20.03	25.14	9.2	2.85	6.38	19.41	18.79	12.41
Chembukadavu	14.98	23.96	21.23	16.56	21.85	20.32	16.65	15.26	18.83	13.50	13.92	0.51
Urumi	21.5	29.58	24.63	19.69	25.43	24.09	16.93	16.44	20.76	12.07	20.85	20.11
Malankara	56.14	63.87	55.25	45.79	32.99	64.23	35.2	47.08	53.94	36.15	30.71	34.10
Lower Meenmutty	11.17	23.47	15.86	7.04	17.9	20.78	18.78	8.14	16.48	19.81	15.82	3.54
Kuttiady Tailrace	21.09	19.84	26.09	23.96	24.86	35.93	25.39	19.29	25.11	62.06	18.39	51.06
Poozhithode	-	-	22.27	25.38	28.59	26.94	22.19	24.86	27.63	0.74	15.88	18.00
Ranni-Perinad	-	-	0.16	4.68	26.1	33.57	22.35	16.61	17.99	10.01	19.53	22.43
Peechi	-	-	-	-	-	16.39	12.86	3.53	10.21	22.84	22.00	4.31
Vilangad	-	-	-	-	-	10.98	19.23	23.84	23.32	11.83	19.49	22.71
Chimmony	-	-	-	-	-	-	20.68	6.95	15.22	30.60	29.27	37.25
Adyanpara	-	-	-	-	-	-	7	16.32	12	1.05	7.85	22.33
Vellathooval	-	-	-	-	-	-	-	9.66	14.34	1.61	1.61	0.00
Barapole	-	-	-	-	-	-	-	-	31.22	9.15	14.65	32.63
Perunthenaruvi	-	-	-	-	-	-	-	-	5.94	14.63	23.23	25.45
Kakkayam SHEP											30.91	45.94

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%
21	2020-21	3029.61	25132.93	4284	66.97%

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	Poringalkuthu Micro	1 x 0.11	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 x 3	0.025	17.33	24	20.98

TABLE 8
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 8 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 9
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 9 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 10
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 10 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 11

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

	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
<i>Table 11 contd..</i>														
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	Ramakkalmedu 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 12
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 12 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	Meenvalloom	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 13
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 13 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
	Meenvallo	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
S	Loss in KSEBL system (P-S)													3267.02

TABLE 14
STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS & SYSTEM LOSSES FOR 2016-17

Sl. No	Stations	(in Million Units)												TOTAL
		04/16	05/16	06/16	07/16	08/16	09/16	10/16	11/16	12/16	01/17	02/17	03/17	
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
	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 14 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
	Meenvallo	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 15
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	Perunthenaruvi	0	0	0	0	0	0	0	1.88	0.92	0.14	0.16	0.03	3.14
31	Poringalkuthu Micro	0.01	0	0.01	0.01	0.01	0	0	0.01	0	0	0.01	0.01	0.05
Ia	KSEBL Hydro Gross	155.78	411.39	312.19	410.49	481.23	608.91	547.61	412.32	399.8	375.28	389.66	632.69	5488.94
	Auxiliary Consumption (Hydro Generating station)	2.43	2.43	2.04	2.56	3.02	3.21	3.15	2.24	2.28	2.15	2.03	2.39	29.93
Ib	KSEBL Net Hydro	504.95	408.96	310.15	407.92	478.21	605.7	544.45	410.08	397.52	373.13	387.63	630.3	5458.99
IIa	KSEBL Wind													
1	Kanjikode	0.17	0.17	0.16	0.19	0.16	0.09	0.08	0.06	0.1	0.09	0.12	0.09	1.48
	Auxiliary consumption wind	0	0	0	0	0	0	0	0	0	0	0	0	0
IIb	Net Generation wind (KSEBL)	0.17	0.17	0.16	0.19	0.16	0.09	0.08	0.06	0.1	0.09	0.12	0.09	1.48
IIIa	KSEBL Solar													
1	Total solar	1.17	1.04	0.78	0.87	0.85	0.93	1.10	1.12	1.69	1.22	1.25	1.43	13.45
	Auxiliary Consumption Solar	0	0	0	0	0	0	0	0	0	0	0	0	0
IIIb	KSEBL Net Solar	1.17	1.04	0.78	0.87	0.85	0.93	1.10	1.12	1.69	1.22	1.25	1.43	13.45
IV a	KSEBL Thermal													
1	BDPP,Brahmapuram	0	0	0	0	0.31	0	0	0	0	0	0	0.15	0.46
2	KDPP, Nallalam	0.13	0.18	0	0	0.09	0	0	0	0	0	0.09	0.92	1.4

Table 15 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
VIIa	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(VIYYAT)	0.24	0.37	2.14	4.08	4.22	4.06	3.97	2.93	1.35	0.61	0.4	0.32	24.69
3	Kaarikkayam (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 (MREPPPL)	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
VIIIa	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 15 Condid..

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, Kuzhalmandam	0.25	0.24	0.18	0.19	0.18	0.22	0.23	0.22	0.25	0.33	0.23	0.28	2.79
2	Ambalathara -Solar Park IPP	3.76	4.25	1.62	2.16	1.63	3.27	4.95	4.46	5.88	5.8	4.95	6.97	49.69
3	CIAL net injection-solar prosumer	0.22	0.16	0.03	0.06	0.17	0.28	0.27	0.18	0.05	0.36	0.66	0.17	2.6
4	Grid connected consumers net injection	0.13	0.11	0.08	0.09	0.09	0.10	0.12	0.12	0.18	0.13	0.14	0.15	1.46
Xb	Solar IPPs Total	4.36	4.76	1.91	2.50	2.07	3.87	5.57	4.98	6.36	6.62	5.98	7.57	56.54
	Total IPPS, CPP and Co-gen (VIb+VIIb+VIIIb+IXb+Xb)	17.87	32.14	69.00	29.31	38.63	32.25	22.74	17.66	17.90	14.24	13.53	19.47	324.73
	Traders													
XI.a	LTOA contracts													
1	Maithon I	87.19	93.50	93.77	95.25	101.08	98.04	81.92	45.01	50.88	91.14	89.34	95.14	1022.25
2	Maithon-II	74.99	93.51	93.77	95.25	101.08	98.04	81.92	45.01	50.88	91.03	89.35	95.15	1009.96
3	DVC Mejia	65.92	59.09	62.11	43.94	34.32	30.27	22.53	28.25	34.34	42.74	57.41	64.51	545.43
4	DVC RTPS	5.96	33.03	14.12	11.40	9.96	8.70	1.68	9.42	10.18	7.96	8.30	8.49	129.20
5	Jindal-I	123.58	125.43	124.30	130.98	114.43	115.33	116.73	126.91	128.74	123.44	101.58	68.62	1400.07
6	Jhabua-I	74.64	76.05	75.65	56.05	54.50	39.44	37.06	58.92	73.09	77.76	52.54	62.11	737.79
7	Balco	0.00	0.00	0.00	0.00	0.00	0.00	54.77	65.75	55.37	59.54	53.17	27.89	316.49
8	Jindal-II	0.00	0.00	0.00	0.00	0.00	0.00	91.32	95.18	94.09	92.51	76.07	53.38	502.57
9	Jhabua-II	0.00	0.00	0.00	0.00	0.00	0.00	22.06	50.16	44.33	67.62	45.77	54.04	283.97
10	JITPL	0.00	0.00	0.00	0.00	0.00	0.00	68.80	63.29	68.18	68.08	57.41	64.25	390.01
XI.b	Sub Total LTOA	432.27	480.61	463.72	432.87	415.36	389.80	578.79	587.88	610.08	721.82	630.95	593.58	6337.72
XII.a	Short Term Contracts													
1	PTC-Jindal	135.11	140.58	136.6	0	0	0	0	0	0	0	0	0	412.28
2	Tata-JITPL	72.99	73.56	0	0	0	0	0	0	0	0	0	0	146.55
XII.b	Sub Total STO	208.1	214.13	136.6	0	0	0	0	0	0	0	0	0	558.83
	Power Exchanges													
XII.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
XII.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
XIII.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
XIII.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
XIV	KPTCL-Overarching	0	0	0	0	0	0	0	0	0	0	0.37	0.78	1.15
XV	GMRETL-Swap	0	0	0	0	0	0	26.5	27.33	27.27	24.58	27.22	27.22	132.9
XVI	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 XIIIb)+XIV +XV+XVI)	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 15 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 16														
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 16 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 16 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 (MREPPL)	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+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

Table 16 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
10	JITPL	61.10	56.38	59.07	48.08	23.37	47.75	61.18	57.59	63.10	60.31	54.28	61.77	653.99
XI.b	Sub Total LTOA	628.75	662.72	651.82	541.06	506.45	587.50	593.21	643.08	698.09	717.53	657.63	764.20	7652.05
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													
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 BSHPCL	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 16 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	14.365163	12.044713	29.007383	25.606145	24.032133	13.824305	3.075685	16.34134	15.287105	17.326888	14.658995	19.87094	205.44
L	Energy sale inside the state by KSEBL	1938.30	1854.13	1708.88	1618.67	1573.64	1738.24	1847.22	1797.29	1827.85	1797.09	1816.31	2019.14	21536.77
M	Energy given to RGCCPP for meeting auxiliary consumption during non operational period													8.04
N	Energy sale with in the state including open access and aux power to RGCCPP (K+L+M)	1952.66	1866.17	1737.89	1644.28	1597.67	1752.06	1850.30	1813.63	1843.14	1814.42	1830.97	2039.01	21750.25
O	Loss in KSEBL system (J-N)	292.80	296.85	172.83	269.47	196.55	260.05	229.34	248.22	300.07	185.18	214.99	440.59	3098.90
P	% Loss within Kerala	13.04%	13.72%	9.05%	14.08%	10.95%	12.92%	11.03%	12.04%	14.00%	9.26%	10.51%	17.77%	12.47%

TABLE 17														
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	Chembukadvu - 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 17 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
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

Table 17 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
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
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

Table 17 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
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+VIIB+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
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

Table 17 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
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	19.6026995
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
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

Table 17 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
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	21.28	29.86	31.73	35.53	33.31	41.17	41.62	34.29	24.68	26.43	30.41	36.21	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 18

STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS & SYSTEM LOSSES FOR 2020-21

(in Million Units)

Sl. No	Stations	04/20	05/20	06/20	07/20	08/20	09/20	10/20	11/20	12/20	01/21	02/21	03/21	TOTAL
A	KSEBL Internal Generation													
1	Idamalayar	32.98	32.18	24.07	4.76	4.35	14.87	31.69	21.35	24.47	33.77	33.00	32.64	290.13
2	Idukki	200.94	251.85	294.33	131.48	103.58	152.95	168.02	153.99	174.95	243.81	309.65	341.39	2526.93
3	Kakkad	16.86	24.01	5.74	9.44	16.92	14.68	18.01	16.01	14.95	14.55	15.98	17.77	184.91
4	Kallada	4.23	3.69	3.00	2.99	3.43	4.84	5.33	4.54	3.73	5.25	4.70	4.14	49.87
5	Kuttiyadi+KES+KAES	52.72	50.96	54.52	57.69	108.31	103.57	81.63	26.24	52.10	73.67	45.12	47.77	754.29
6	KuttiyadiTail Race	0.52	0.61	0.65	0.63	1.20	1.13	0.79	0.33	0.52	0.76	0.45	0.47	8.06
7	Lower Meenmutty	0.08	0.49	0.97	0.76	0.95	1.09	0.75	0.42	0.22	0.25	0.05	0.04	6.08
8	Lower Periyar	15.12	22.50	22.14	54.46	95.66	100.49	83.92	50.79	29.46	28.94	17.10	17.15	537.75
9	Maduppatty	0.45	0.84	0.44	0.00	0.00	0.00	0.60	0.13	0.41	0.49	0.74	0.95	5.04
10	Malampuzha	0.00	0.00	0.00	0.00	0.00	0.24	0.12	0.74	0.95	0.64	0.02	0.00	2.70
11	Malankara	2.90	3.46	2.52	2.24	1.79	2.69	2.48	2.15	2.15	3.00	2.88	3.16	31.42
12	Neriamangalam	7.17	10.06	7.90	15.13	32.23	34.30	34.01	19.67	10.47	9.30	7.80	17.61	205.65
13	NES	7.34	12.17	9.20	16.54	18.15	17.40	18.32	15.82	13.29	14.08	7.58	0.00	149.88
14	Pallivasal	9.56	11.59	12.35	12.22	12.92	12.70	13.10	9.50	8.15	10.95	8.67	10.54	132.26
15	Panniyar	9.96	16.58	4.68	6.08	19.18	21.10	22.00	21.46	15.38	17.45	12.66	15.16	181.67
16	Peppara	0.41	0.05	0.52	0.62	1.28	1.97	1.17	0.80	0.48	0.53	0.55	0.47	8.85
17	Poringalkuthu	6.08	5.54	11.07	19.44	19.61	16.61	18.75	9.35	5.92	14.52	13.82	14.22	154.92
18	PLBE	4.55	7.48	10.49	11.92	11.76	10.94	12.14	6.48	10.49	0.00	0.00	0.00	86.25
19	Sabarigiri	119.72	172.48	26.51	31.33	107.96	100.05	151.52	110.19	93.35	94.33	106.25	114.86	1228.54
20	Sengualm	8.54	9.25	11.65	15.45	17.21	16.35	16.21	14.98	7.00	0.00	0.00	0.88	117.52
21	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
22	Sholayar	22.84	24.65	12.14	0.08	7.77	82.60	17.53	17.88	24.53	24.36	25.79	29.78	289.95
23	Chembukadavu - I	0.00	0.00	0.45	0.98	0.69	0.90	0.45	0.06	0.02	0.04	0.00	0.00	3.60
24	Chembukadavu- II	0.00	0.00	0.68	1.57	1.09	1.47	0.70	0.10	0.04	0.07	0.00	0.00	5.71
25	Urumi - I	0.00	0.00	1.15	1.46	1.36	1.46	0.88	0.10	0.00	0.03	0.00	0.00	6.43
26	Urumi - II	0.00	0.00	0.81	1.12	0.82	0.95	0.57	0.09	0.00	0.02	0.00	0.00	4.38
27	Poozhithode	0.00	0.00	0.50	2.81	1.38	1.81	1.21	0.25	0.08	0.06	0.00	0.00	8.13
28	Ranni-Perinadu	0.53	0.96	0.76	0.95	0.25	0.60	1.07	0.67	0.61	0.44	0.40	0.52	7.75
29	Peechi	0.40	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46
30	Vilangadu	0.00	0.00	1.25	5.38	3.71	3.27	2.14	0.39	0.10	0.06	0.00	0.00	16.29
31	Chimmony	0.62	0.53	0.27	0.00	0.00	0.46	1.25	0.46	1.27	0.93	1.24	0.99	8.02
32	Addyanpara	0.00	0.00	0.63	1.71	1.25	1.74	0.89	0.30	0.14	0.15	0.04	0.02	6.88
33	Barapole	0.00	0.00	0.00	3.22	5.43	6.78	8.40	2.95	1.13	0.62	0.12	0.05	28.69
34	Perunthenaruvi	0.00	0.07	2.32	3.80	0.64	1.78	1.93	1.26	1.00	0.29	0.03	0.00	13.11
35	Kakkayam	0.70	0.56	0.62	0.73	1.23	1.07	1.14	0.55	0.41	0.93	0.60	0.66	9.21
36	Poringal kuthu screw generation	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.05

Table 18 contd..

Sl. No	Stations	04/20	05/20	06/20	07/20	08/20	09/20	10/20	11/20	12/20	01/21	02/21	03/21	TOTAL
Ia	KSEBL Net Hydro	525.22	662.63	524.35	417.00	602.12	732.83	718.71	510.01	497.76	594.27	615.24	671.22	7071.37
	Auxiliary consumption	2.52	2.65	2.73	1.79	2.97	2.96	3.21	2.76	2.80	2.11	2.14	2.45	31.08
Ib	KSEBL Net Hydro	522.69	659.98	521.62	415.21	599.15	729.88	715.50	507.25	494.96	592.17	613.10	668.78	7040.29
IIa	KSEBL Wind													
37	Kanjikode	0.04	0.12	0.13	0.10	0.15	0.11	0.09	0.07	0.10	0.11	0.08	0.05	1.14
	Auxiliary consumption wind													0.00
IIb	Net Generation wind (KSEBL)	0.04	0.12	0.13	0.10	0.15	0.11	0.09	0.07	0.10	0.11	0.08	0.05	1.1402
IIIa	KSEBL Solar													
38	Total solar	3.61	4.00	2.60	1.80	1.58	2.39	2.07	1.88	1.76	1.99	2.33	2.73	28.73
	Auxiliary Consumption Solar													
IIIb	KSEBL Net Solar	3.61	4.00	2.60	1.80	1.58	2.39	2.07	1.88	1.76	1.99	2.33	2.73	28.73
IV a	KSEBL Thermal													
39	BDPP,Brahmapuram	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
40	KDPP, Nallalam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.33	4.87	0.64	0.00	7.845
	Aux. cons.- BDPP (Thermal)	0.05	0.05	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1667
	Aux cons.-KDPP (Thermal)	0.06	0.06	0.05	0.06	0.06	0.05	0.00	0.03	0.18	0.22	0.09	0.05	0.9051
IVb	KSEBL Net Thermal Generation	-0.11	-0.11	-0.09	-0.09	-0.06	-0.05	0.00	-0.03	2.15	4.66	0.55	-0.05	6.77
A	Net Generation- KSEBL (Ib+IIb+IIIb+IVb)	526.23	663.99	524.25	417.03	600.81	732.33	717.66	509.16	498.97	598.92	616.06	671.52	7076.93
B	Power Purchase													
Va	Central Generating Stations at Kerala periphery (KSEB end)													
1	RSTPS (Unit 1 to 6)	112.11	106.32	118.56	161.84	137.68	75.10	100.15	136.80	147.43	115.52	129.22	147.73	1488.45
2	RSTPS (Unit 7)	0.00	0.00	26.31	40.84	39.54	32.31	31.69	39.65	37.10	40.84	36.68	38.27	363.22
3	TALCHER STAGE II	263.67	276.56	257.99	285.36	253.43	209.68	254.43	204.02	235.59	222.45	200.23	278.31	2941.71
4	Simhadri TPS Stage II	16.11	13.78	15.69	46.28	26.61	20.03	2.92	18.68	34.43	57.32	55.50	55.80	363.16
5	Kudgi STPS	2.76	0.00	0.03	0.00	0.00	0.96	0.00	0.00	34.29	78.50	59.15	71.58	247.27
6	NLC II STAGE 1	20.17	16.35	20.33	13.33	15.38	15.88	10.02	34.14	30.36	36.17	36.27	39.04	287.46
7	NLC II STAGE 2	20.90	13.17	19.53	0.35	0.00	9.08	8.85	28.11	22.95	28.14	35.38	42.75	229.22
8	NLC I EXPANSION	38.05	37.84	37.69	44.81	39.16	16.12	23.11	21.06	32.85	28.96	38.64	22.61	380.90
9	NLC II EXPANSION	22.13	19.04	24.82	8.88	26.09	24.91	25.48	20.52	25.23	26.13	31.17	24.34	278.73
10	NTPL	18.88	10.89	21.92	41.63	30.92	22.62	23.88	39.66	22.63	40.18	42.05	36.35	351.62
11	VALLUR STPS	1.34	1.32	0.58	0.03	0.01	0.10	0.40	14.14	14.80	24.81	28.24	24.90	110.66
12	MAPS	6.27	6.07	6.28	6.06	6.87	6.55	5.71	2.19	6.53	5.25	4.51	5.70	67.99
13	KAPS I & II	9.08	14.73	24.49	24.40	25.61	24.74	25.30	24.04	24.90	24.81	22.43	18.92	263.45
14	KAPS III& IV	22.88	23.35	22.62	23.65	23.71	22.81	23.40	19.06	5.30	15.45	22.09	24.27	248.61
15	KKNPP	48.74	33.75	-2.16	-1.75	15.27	86.00	92.37	69.47	89.08	95.51	86.67	84.39	697.32
16	KKNPP unit 2	79.41	67.46	87.92	58.74	78.90	86.72	89.96	87.62	73.74	43.78	-1.29	-1.53	751.44
17	NNTPP	7.31	8.61	6.95	9.61	3.45	7.38	7.62	8.15	6.19	6.71	9.34	14.76	96.06
Vb	TOTAL CGS	689.81	649.25	689.54	764.04	722.63	661.00	725.29	767.31	843.40	890.51	836.28	928.20	9167.26

Table 18 contd..

Sl. No	Stations	04/20	05/20	06/20	07/20	08/20	09/20	10/20	11/20	12/20	01/21	02/21	03/21	TOTAL
Via	Thermal IPPs/Co-Gen													
1	RGCCPPnet Gen	-0.66	-0.70	-0.66	-0.66	-0.72	-0.60	-0.66	-0.66	-0.31	-0.74	-0.77	99.66	92.53
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	0.43	1.53	2.68	0.60	0.43	0.24	0.17	0.17	0.29	0.28	-0.33	0.20	6.70
VI.b	Thermal IPPs /Co-Gen total	-0.23	0.83	2.01	-0.05	-0.29	-0.36	-0.48	-0.48	-0.01	-0.47	-1.10	99.86	99.24
VIIa	IPPs-Small hydro(net)													
1	Ullunkal (EDCL)	1.31	2.18	1.11	1.67	0.59	1.51	2.26	1.39	1.18	1.12	1.14	0.00	15.45
2	Iruttukanam(VIYYAT)	0.30	0.47	1.90	3.60	3.78	3.80	3.68	2.16	1.13	0.89	0.31	0.17	22.17
3	Kaarikkayam (AHPL)	0.00	3.80	2.51	3.98	4.68	4.53	5.04	2.84	2.34	2.17	2.15	2.32	36.35
4	Meenvallam (PSHCL)	0.07	0.07	0.27	0.56	1.25	1.57	1.39	0.56	0.25	0.17	0.09	0.05	6.29
5	Pathankayam (MREPPL)	0.00	0.00	0.00	0.00	4.23	4.45	2.43	0.50	0.20	0.39	0.00	0.00	12.21
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
8	Deviyar micro	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.02
VIIb	IPPs-Small hydro Total	1.68	6.51	5.78	9.80	14.53	15.86	14.80	7.45	5.10	4.75	3.68	2.56	92.50
VIIIa	Captive Power plants													
1	Maniyar IPP hydel net	1.49	0.41	0.22	1.40	1.08	1.53	0.38	-1.60	-3.34	-2.26	-2.52	-1.62	-4.81
2	Kuthungal IPP hydel net	6.62	4.92	0.37	0.22	5.13	4.55	2.91	3.30	0.04	0.81	-2.00	2.10	28.98
VIIIb	CPP -Total	8.11	5.33	0.60	1.62	6.21	6.08	3.30	1.70	-3.29	-1.45	-4.51	0.48	24.17
IX.a	Wind IPPs/Prosumers													
1	Ramakkalmedu, Wind	0.45	1.19	4.10	3.51	1.17	2.28	2.03	1.06	1.11	1.07	0.91	0.67	19.53
2	Agali, Wind	0.70	2.27	4.99	6.83	1.57	3.95	3.94	0.46	0.36	0.58	0.24	0.41	26.31
3	Koundikkal	0.39	0.79	1.77	1.86	0.46	1.30	1.31	0.32	0.27	0.33	0.16	0.26	9.20
4	Ahalya Wind	0.79	1.83	1.98	1.75	2.64	1.99	1.79	1.13	1.37	1.45	0.92	0.86	18.51
5	INOX	1.27	3.48	3.61	3.42	4.49	3.47	3.25	2.23	3.23	3.21	2.32	1.78	35.76
6	Kosamattam	0.01	0.01	0.26	0.23	0.11	0.12	0.19	0.06	0.06	0.06	0.06	0.04	1.22
7	Malayala Manorama net injection	0.00	0.99	1.74	0.82	1.79	1.17	0.77	-0.29	0.04	0.13	-0.29	-0.45	6.42
IX.b	Wind IPPs Total	3.61	10.55	18.44	18.43	12.23	14.28	13.27	4.97	6.44	6.83	4.33	3.57	116.95
Xa	Solar IPPs /Prosumer													
1	Anert, Kuzhalmandam	0.30	0.48	0.17	0.18	0.20	0.16	0.21	0.21	0.20	0.23	0.25	0.28	2.86
2	Ambalathara -Solar Park IPP	7.69	6.81	5.00	4.69	4.25	3.78	5.27	6.31	6.97	7.13	7.23	7.91	73.05
3	THDCIL Paivalika Solar Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.29	6.29	5.66	17.24
4	CIAL net injection-solar prosumer	2.21	1.80	0.94	1.02	1.11	0.48	1.23	1.33	1.23	1.38	1.69	1.61	16.04
5	HINDALCO net injection	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.23	0.39	0.42	0.42	0.49	2.29
6	Grid connected consumers net injection	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	22.67
Xb	Solar IPPs Total	12.09	10.98	8.00	7.77	7.46	6.31	8.94	9.98	10.67	16.33	17.78	17.84	134.15

Table 18 contd..

Sl. No	Stations	04/20	05/20	06/20	07/20	08/20	09/20	10/20	11/20	12/20	01/21	02/21	03/21	TOTAL
	Total IPP, CPP and Co-gen (Vib+VIIb+VIIIb+IXb+Xb)	25.26	34.20	34.83	37.57	40.14	42.17	39.82	23.62	18.91	26.00	20.17	124.32	467.00
	TRADERS													
XI.a	LTOA contracts													
1	MAITHON (MPL)	73.16	73.67	72.51	94.06	88.92	72.54	68.01	93.67	96.96	54.77	54.52	96.57	939.38
2	MAITHON (MPL)	73.16	73.67	72.34	94.06	88.92	72.54	68.00	93.67	96.96	54.77	54.52	96.57	939.19
3	DVC-MEJIA	50.54	47.34	47.34	61.72	56.93	50.63	51.81	54.57	63.30	48.31	31.63	63.19	627.31
4	DVC RAGHUNATHPUR	11.22	9.35	8.34	20.70	16.02	12.85	10.16	21.75	25.85	17.99	27.70	28.13	210.05
5	Jindal Power Limited ((Bid I)	118.30	124.75	119.10	122.93	92.59	112.42	104.48	130.76	133.87	117.11	113.92	125.92	1416.14
6	Jindal Power Limited ((Bid II)	88.74	93.56	89.33	92.17	69.56	84.34	78.34	98.05	100.39	87.85	85.48	94.49	1062.30
7	Jhabua Power Limited ((Bid I)	66.69	75.01	71.89	71.54	60.85	55.81	61.35	72.12	75.44	63.08	70.26	78.32	822.37
8	Jhabua Power Limited ((Bid II)	57.99	65.23	61.50	61.94	52.93	48.55	53.37	62.72	65.60	54.85	61.10	68.10	713.90
9	BALCO	56.99	62.60	58.88	60.58	54.29	53.37	45.05	57.14	61.24	64.14	55.40	58.67	688.33
10	JITPL	57.18	68.10	57.63	56.75	48.99	48.13	38.69	59.46	62.82	60.33	60.88	60.74	679.71
11	REMC Purchase from AMEKIL-L_SR_2021_01												4.62	4.62
12	REMC Purchase from AMEKIL-L_SR_2021_02												1.36	1.36
XI.b	Sub Total LTOA	653.97	693.28	658.86	736.44	630.00	611.19	579.26	743.91	782.44	623.21	615.41	776.68	8104.65
XII.a	Short Term Contracts													
XII.b	Sub Total STO A	65.98245	101.03382	0	0	0	0	0	0	0	0	0	0	167.01627
	POWER EXCHANGES													
XIII.a	TAM													
1	IEX	0.34	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49
2	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
XIII.b	TAM Sub Total	0.34	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49
XIV.a	DAM													
1	IEX	0.57	0.00	0.00	7.72	1.57	3.22	0.00	10.66	0.99	34.81	3.13	5.68	68.35
2	PXIL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.11
XIV.b	DAM Sub Total	0.57	0.00	0.00	7.72	1.57	3.22	0.00	10.66	0.99	34.92	3.13	5.68	68.46
XV.a	RTM													
1	IEX	0.00	0.00	0.01	1.60	0.25	0.26	0.37	0.79	1.43	12.70	5.17	3.17	25.76
2	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
XV.b	RTM Sub Total	0.00	0.00	0.01	1.60	0.25	0.26	0.37	0.79	1.43	12.70	5.17	3.17	25.76
XVI	KPTCL-Overarching													0.00
XVII	Swap-inwards	56.4303	0	0	0	0	0	0	0	0	0	0	65.84504	122.28
XVIII	Deviation Settlement Mechanism (Net)	25.44	17.73	12.82	30.03	11.15	-3.12	-5.11	10.64	23.13	10.35	-0.09	6.46	139.43
B	Total Power Purchase at Kerala Periphery ((Sum(Vb to XVb)+XVI +XVII+XVIII))	1517.80	1495.65	1396.06	1577.40	1405.73	1314.72	1339.64	1556.94	1670.29	1597.69	1480.07	1910.35	18262.34
C	Total KSEBL Generation & Power Purchase (A+B)	2044.03	2159.65	1920.31	1994.43	2006.54	2047.05	2057.30	2066.09	2169.26	2196.61	2096.13	2581.87	25339.27
D	Substation Auxiliary consumption	1.63	1.63	1.47	1.79	1.47	1.41	1.63	1.59	1.54	1.52	1.54	1.81	19.03

Table 18 contd..

Sl. No	Stations	04/20	05/20	06/20	07/20	08/20	09/20	10/20	11/20	12/20	01/21	02/21	03/21	TOTAL
E	Net Generation and Power Purchase (C-D)	2042.41	2158.01	1918.84	1992.64	2005.07	2045.64	2055.67	2064.50	2167.72	2195.09	2094.59	2580.06	25320.24
F	Energy injected by private developers at Generator end for sale outside the state through open access	1.10	2.65	1.51	3.55	3.85	3.68	3.90	3.92	3.86	3.92	2.56	4.16	38.66
G	Energy purchased by consumers through open access at Kerala periphery	13.08	33.09	48.17	49.91	45.73	44.22	43.15	39.98	36.15	21.88	18.21	13.85	407.41
	Out side State Sale by KSEBL													
a	DAM(Kerala Periphery)-IEX	-0.91	-2.03	-5.76	-0.04	-8.09	-10.53	-45.99	-3.98	-22.27	-25.91	-23.06	-30.44	-179.00
b	DAM(Kerala Periphery)-PXIL	0.00	0.00	0.00	0.00	0.00	-1.54	-4.94	-0.84	-3.41	-1.28	-3.39	-2.28	-17.67
c	TAM (Kerala Periphery)-IEX	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
d	TAM (Kerala Periphery)-PXIL	0.00	0.00	-0.06	0.00	0.00	0.00	-0.05	0.00	0.00	0.00	0.00	0.00	-0.11
e	RTM (Kerala Periphery)-IEX	0.00	0.00	-2.48	-0.07	-3.40	-9.41	-14.58	-1.44	-5.80	-10.18	-5.99	-11.30	-64.65
f	RTM (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
e	Sale through BSHPCL													0.00
f	Sale through CSPDCL													0.00
i	Total Sale outside the state(a+b+c+d+e+f)	-0.91	-2.03	-8.30	-0.11	-11.49	-21.49	-65.56	-6.25	-31.48	-37.37	-32.44	-44.02	-261.43
a	SWAP Return through BYPL	0.00	0.00	-11.81	-24.42	-24.46	-23.76	0.00	0.00	0.00	0.00	0.00	0.00	-84.45
b	SWAP Return through PTCIL	0.00	0.00	-26.63	-55.08	-55.15	-53.27	0.00	0.00	0.00	0.00	0.00	0.00	-190.13
c	SWAP return TPDDL thru manikaran	0.00	0.00	0.00	-30.10	-30.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-60.25
ii	Total SWAP return (a+b+c)	0.00	0.00	-38.44	-109.60	-109.75	-77.03	0.00	0.00	0.00	0.00	0.00	0.00	-334.82
H	Energy sale outside the State by KSEBL and Swap return(i+ii)	-0.91	-2.03	-46.74	-109.71	-121.23	-98.52	-65.56	-6.25	-31.48	-37.37	-32.44	-44.02	-596.25
I	Energy injected by private developers at Kerala periphery for sale outside state through open access	-1.06	-2.54	-1.45	-3.41	-3.70	-3.54	-3.75	-3.76	-3.70	-3.77	-2.46	-4.00	-37.14
J	Net energy available for sale inside the state (E+F+G+H+I)	2054.62	2189.18	1920.33	1932.97	1929.72	1991.49	2033.41	2098.38	2172.55	2179.75	2080.46	2550.05	25132.92
K	Energy purchased by consumers through open access at consumer end	12.377165	31.59018	45.871795	47.583835	43.594353	42.200195	41.213408	38.175805	34.50289	20.861778	17.368323	13.209795	388.55
L	Energy sale inside the state by KSEBL	1840.42	1901.68	1746.09	1680.40	1718.21	1709.04	1780.82	1838.02	1878.40	1944.34	1926.68	2187.50	22151.60
M	Energy sale within the state including open access (K+L)	1852.80	1933.27	1791.96	1727.99	1761.80	1751.24	1822.03	1876.20	1912.90	1965.20	1944.04	2200.71	22540.15
N	Loss in KSEBL system (J-M)	201.83	255.91	128.37	204.99	167.92	240.25	211.38	222.19	259.64	214.55	136.42	349.34	2592.78
O	% Loss within Kerala(N/J *100)	9.82%	11.69%	6.68%	10.60%	8.70%	12.06%	10.40%	10.59%	11.95%	9.84%	6.56%	13.70%	10.32%

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	2020-21
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	49.89
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	8.60
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	31.43
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	4.73
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	9.35
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	11.61
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	2.50
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	6.17
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	7.89
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	86.44
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	150.05
12	Poozhithode	4.8			9.36	10.67	12.10	11.33	8.62	10.44	11.78	7.56	6.70	8.12
13	Ranni Perunad	4			0.21	6.15	9.52	7.35	7.66	5.85	6.32	3.83	7.03	7.72
14	Peechi	1.25				0.26	3.29	1.92	1.43	0.40	1.78	2.46	2.41	0.46
15	Vilangad	7.5						0.45	12.75	15.77	15.56	7.83	14.43	15.09
16	Chimmony	2.5							4.59	1.55	2.09	6.65	6.40	7.89
17	Adyanpara	3.5							2.36	5.01	3.88	0.33	2.40	6.70
18	Barapole	15							0.00	19.32	42.69	1.21	20.86	28.01
19	Vellathooval	3.6								3.05	4.69	2.72	0.07	0.00
20	Poringalkuthu Micro	0.011									0.05	0.06	0.07	0.05
21	Perunthenaravi	6									3.12	7.76	12.30	13.04
22	Kakkayam	3										2.62	7.46	9.21
23	Mankulam GP IPP hydel	0.11											0.00	0.00
24	Deviyar MHEP	0.05											0.00	0.01
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	30.02
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	54.77
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	16.25
2	Iruttukkanam	4.5		8.87	17.62	18.56	23.06	23.18	24.83	20.08	24.83	10.51	19.16	22.58
3	Kaarikkayam	15					17.18	27.17	26.99	21.93	37.14	45.78	36.46	39.29
4	Meenvallom	3						2.37	5.56	5.99	10.48	7.41	6.72	6.27

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	2020-21	
5	Kallar	0.05										0.08		0.00	0.00
6	Pathankayam	8										11.40	0.07	0.26	18.89
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	1.14	
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	20.56	
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	26.72	
3	Ahalia Alternate Energy Ltd	8.4							0.00	17.39	21.07	18.15	19.22	18.79	
4	INOX	16									12.31	38.90	38.43	37.24	
5	Kosamattom	1										1.13	1.64	1.22	
6	Koundikkal (Wind-IPP)	4.80											10.75	9.20	
7	Malayal Manorama (Wind- CPP)	10.00											23.04	25.97	
8	SECI Wind 200 MW													5.98	
	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	790.61	
VI	Solar (KSEB)														
1	Kanjikode	1	-	-	-	-	-	-	0.81	0.87	1.13	0.82	1.51	1.11	
2	Poringalkuthu Powerhouse	0.05	-	-	-	-	-	-	0.04		0.06	0.06	0.06	0.06	
3	Floating solar RT- Banasurasagar	0.01									0.01	0.13	0.62	0.43	
4	Meencut RT	0.03									0.01	0.01	0.01	0.00	
5	Kothamangalam RT	0.13									0.14	0.13	0.10	0.08	
6	Moolamattom RT	0.05									0.05	0.05	0.05	0.05	
7	Thrissur RT	0.35									0.31	0.25	0.36	0.22	
8	Kollengode	1									1.47	1.26	1.24	1.41	

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	2020-21	
9	Padinjarethara DT	0.44										0.50	0.50	0.54	0.40
10	Moozhiyar RT	0.13										0.54	0.12	0.11	0.10
11	Edayar Substation Premise	1.25										1.65	1.08	2.39	1.26
12	Barapole Canal Bank	1										1.02	1.28	0.95	1.02
13	Barapole Canal Top	3										2.68	2.23	1.36	1.91
14	KDPP,Kozhikode	0.035										0.04	0.04	0.04	0.04
15	Thalakulathoor	0.65										0.88	0.93	0.97	0.96
16	Vydyuthi bhavan RT	0.03										0.04	0.05	0.03	0.06
17	Manjeswaram	0.5										0.65	0.81	0.74	0.53
18	Moovattupuzha	1.25										0.39	1.55	1.57	1.64
19	Pothencode	2										0.48	2.72	2.15	1.91
20	Kuttippuram	0.5											0.71	0.69	0.61
21	220kV S/Sn Kundara RT	0.03											0.08	0.05	0.05
22	110kV S/Sn Kanjikode RT	0.025											0.06	0.04	0.04
23	220kV S/Sn Palakkad RT	0.035											0.08	0.15	0.14
24	220kV S/Sn Edappon RT	0.03											0.07	0.25	0.04
25	220kV S/Sn Edappon RT	0.045											0.09	0.28	0.06
26	110kV S/Sn Kunnamangalam RT	0.02											0.11	0.03	0.03
27	220kV S/Sn Orkattery RT	0.035											0.08	0.05	0.05
28	220kV S/Sn Nallalam RT	0.035											0.09	0.05	0.05
29	220kV S/Sn Brahmapuram RT	0.055											0.13	0.07	0.05
30	110kV S/Sn Thycattussery RT	0.02											0.09	0.21	0.03

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	2020-21	
31	220kV S/Sn Kattakkada RT	0.02											0.03	0.03	0.03
32	110kV S/Sn Paruthippara RT	0.03											0.08	0.12	0.04
33	220kV S/Sn Pothencode RT	0.035											0.53	0.34	0.04
34	66kV S/Sn GIS LA Complex RT	0.025											0.06	0.04	0.02
35	66kV S/Sn GIS Power house RT	0.025											0.06	0.03	0.04
36	66KV S/SnVeli RT	0.02											0.06	0.03	0.03
37	TMR Thirumala RT	0.035											0.08	0.05	0.05
38	VB Pathanamthita RT	0.045											0.08	0.06	0.06
39	220kV S/Sn Malaparamba RT	0.02											0.03	0.03	0.03
40	VB Manjeri RT	0.03											0.05	0.10	0.04
41	220kV S/Sn Areacode RT	0.03											0.05	0.04	0.03
42	PTRU-Kalamassery RT	0.04											0.06	0.06	0.05
43	220kV S/Sn Mylatty RT	0.03											0.05	0.05	0.04
44	220kV S/Sn Kanhirode RT	0.035											0.07	0.05	0.05
45	110kV S/Sn Viyyur RT	0.02											0.03	0.21	0.03
46	110kV S/Sn Pathanamthitta RT	0.025											0.21	0.12	0.15
47	MCR& W Madakkathara RT	0.045											0.12	0.06	0.05
48	MCM& W Madakkathara RT	0.15											0.15	0.21	0.19
49	Ele Dvn Kollam RT	0.035											0.05	0.05	0.15
50	Ele Dvn Kundara RT	0.025											0.04	0.04	0.04
51	Vaidyuthi bhavanam Chathnnoor RT	0.025											0.03	0.04	0.04
52	VB, Kottarakkara RT	0.08											0.08	0.11	0.08
53	220kV S/Sn New pallom RT	0.02											0.06	0.03	0.13
54	220kV S/Sn Ambalamughal RT	0.02											0.04	0.03	0.02
55	Vaidyuthi bhavanam Thodupuzha-50KW COD(25	0.05											0.12	0.20	0.06
56	Ele Sn.Beach RT	0.02											0.08	0.03	0.02
57	Vaidyuthi bhavanam Thrissur RT	0.045											0.16	0.05	0.06
58	SLDC Building RT	0.035											0.10	0.05	0.05
59	ES Kesavadasapuram RT	0.025											0.03	0.03	0.03
60	110kV S/S Ponnani RT	0.5											0.15	0.65	0.57
61	Peerumedu RT	0.5											0.69	0.61	0.41
62	Dam Safety Pallom GM (IPDS)	0.05												0.00	0.10
63	Kottiyam GM (IPDS)	0.6												0.22	0.62
64	Various IPDS projects	0.45										1.31		5.52	4.33
Solar (IPP)															
1	Cochin International Airport Ltd	38.44							11.42	10.99	33.29	37.38	45.21	46.85	
2	Anert, Kuzhalmandam	2.00								0.93	2.79	2.54	2.59	2.56	
3	Ambalathara -Solar Park	50.00								7.55	49.62	76.54	71.26	73.37	
4	Hindalco	3.00													2.29
5	THDCIL Paivalika Solar Park	50.00													17.00
6	Net Metered Solar Prosumer	130.26									25.72	38.42	97.01	198.79	
7	Chaliyoor Colony, Agali	0.096							0.05		0.07	0.07	0.08	0.08	
8	Solar Off Grid with Gen Based Incentives										0.80	2.67	1.98	0.18	
9	SOURA Solar	3.46													5.76
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	368.88	
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	1159.49	

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 %)

2020-21 RPO achievement:- Non-solar- 5.59 (Target -9%) ; Solar – 2.61 %(Target- 5.25%)

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	2010-11	7359.97	10512.27	401.73	17470.51			130.24			17340.27		14547.90	14547.90	2792.37	16.10%	17.63	
2	2011-12	8289.91	11263.21	413.21	19139.91			201.10			18938.81		15980.53	15980.53	2958.28	15.62%	17.16	
3	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	
4	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	
5	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	
6	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
7	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
8	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
9	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
10	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
11	2020-21	7057.90	18912.23	649.89	25320.24	38.66	407.41	261.43	334.82	37.14	25132.92	388.72	22151.60	22540.32	2592.60	10.32%		7.76

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
25	2020-21	22151.60	22413.03	22540.32	13806.20	619

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

Name of ISGS		NTPC										NLC				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		2400		630		840		420		500	
Firm allocation (% and MW)		11.66	244.93	12.20	61.00	21.35	427.00	8.56	85.55	4.66	111.72	10.00	63.00	10.71	89.96	16.25	68.24	16.25	81.23
Total allocation (firm + unallocated)																			
Period	Time Slot	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)
w.e.f. 1.04.20	18.00-22.00	11.67	245.07	12.20	61.00	21.35	427.00	8.57	85.70	4.67	112.08	10.00	63.00	10.71	89.96	16.33	68.59	16.33	81.65
	02.00- 06.00	11.67	245.07	12.20	61.00	21.35	427.00	8.56	85.60	4.66	111.84	10.00	63.00	10.71	89.96	16.27	68.33	16.27	81.35
	Rest of the day	11.66	244.86	12.20	61.00	21.35	427.00	8.55	85.50	4.65	111.60	10.00	63.00	10.71	89.96	16.22	68.12	16.22	81.10

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

Table-22 contd..

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

(Continued from previous page) p2

Name of ISGS	NTECL		NTPL		NNTPP		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		500		440		440		440		1000		1000					
Firm allocation (% and MW)	3.33	49.95	7.25	72.50	3.32	16.58	5.23	23.01	8.63	37.99	7.95	34.99	14.02	140.17	13.30	133.00	1740.82	0.00	1740.82	
Total allocation (firm + unallocated)																				
Period	Time Slot	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(MW)	(MW)	(MW)
w.e.f. 1.04.20	18.00-22.00	3.33	49.95	7.25	72.50	3.47	17.35	5.23	23.01	8.64	38.02	7.95	34.98	14.04	140.40	13.30	133.00	1743.26	0.00	1615.49
	02.00- 06.00	3.33	49.95	7.25	72.50	3.47	17.35	5.23	23.01	8.64	38.02	7.96	35.02	14.02	140.20	13.30	133.00	1742.21	0.00	1614.30
	Rest of the day	3.33	49.95	7.25	72.50	3.24	16.20	5.23	23.01	8.63	37.97	7.95	34.98	14.01	140.10	13.30	133.00	1739.86	0.00	1613.18

Kudgi stage 1- first unit operational da

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
21	2020-21	13,142,910	28,302.20

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
21	2020-21	1329.58**	3141.40	5030.86	2004.79	2108.00	151	64,389	295,921

* 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 and 1329.58 ckt km 400 kV lines in 2020-21, 177.03 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
21	2020-21	495,432	1,476,776	83,465

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	2020-21
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	10076070
	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	18761.41
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	2370483
	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	4604.43
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	143013
	Connected Load	1,425.26	1,472.69	1,516.56	1,560.32	1,539.24	1,620.52	1656.73	1647.07	1688.59	1698.11	1736.48	1767.87	1817.47
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	6501
	Connected Load	891.21	920.86	724.11	1,057.38	1,140.19	1,316.68	1,182.90	1445.81	1436.42	1581.579	1639.06	1706.895	1747.926
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	50794
	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	164.59
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	496022
	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	979.65
7	Licensees													
	No. of Consumers	11	12	13	13	10	11	11	12	12	11	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	122.238
8	Railway Traction**													
	No. of Consumers	8	8	8	8	8	8	8	9	12	12	14	16	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	104.49
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	13,142,910
	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	28,302

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

** From 2018-19 onwards Railway Traction includes KMRL also

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

(Sales in MU, Revenue in Rs. Crore)

Sl.No	Category	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
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	12699.64
	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	6206.67
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	2982.47
	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	2929.97
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	1086.67
	B. Revenue	466.89	453.70	460.54	461.39	587.11	682.52	704.89	746.63	754.72	809.19	792.76	837.7	801.41
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	3955.32
	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	3045.07
5	Public Lighting													
	A. Sales	294.32	303	265.68	294.26	313.2	319.06	346.43	366.62	375.76	373.48	377.78	365.86	376.94
	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	179.53
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	403.24
	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	114.54
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	496.37
	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	322.68
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	150.94
	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	101.7
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	261.43
	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	104.63
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	22413.02
	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	13806.20

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

** Railway Traction includes KMRL also

TABLE 28
CAPITAL OUTLAY AND EXPENDITURE

(Amounts in Rs. Crore)

Sl. No	Year	Capital Outlay										Capital Expenditure				
		Generation		Transmission		Distribution		Others		Total		Gen.	Tran.	Dist.	Oth.	Total
		BE	RE	BE	RE	BE	RE	BE	RE	BE	RE					
1	2000-01	174.28	192.00	272.15	190.00	200.03	170.13	72.04	48.57	718.50	600.70	103.55	259.73	243.05	144.16	750.49
2	2001-02	125.7	70.23	275.00	298.00	205.03	287.14	43.27	56.09	649.00	711.46	243.61	62.77	223.67	51.19	581.24
3	2002-03	99.5	71.24	250.42	216.00	256.50	254.00	62.58	29.98	669.00	571.22	101.27	250.17	60.60	29.88	441.92
4	2003-04	148.25	117.59	262.28	250.00	304.82	300.00	49.65	20.76	765.00	688.35	426.50	204.86	154.36	0.00	785.72
5	2004-05	119.11	181.31	256.00	275.54	304.00	257.50	19.16	1.50	698.27	715.85	55.47	253.23	124.50	0.00	433.20
6	2005-06	260.68	160.92	297.53	230.20	393.00	256.87	2.10	2.01	953.31	650.00	125.99	163.19	174.41	0.00	463.59
7	2006-07	250	202.45	218.50	200.18	429.09	378.09	1.50	1.50	899.09	782.22	155.25	137.17	222.03	0.00	514.45
8	2007-08	334.52	344.53	221.80	221.50	464.36	388.59	1.70	4.05	1,022.38	958.67	56.45	125.59	182.84	0.00	364.88
9	2008-09	540.52	310.37	181.00	276.88	422.02	456.24	5.05	4.10	1,148.59	1,047.59	116.88	242.61	285.01	0.00	644.50
10	2009-10	403.33	262.81	366.73	240.66	600.64	436.40	6.40	7.78	1,377.10	947.65	304.86	217.85	346.99	5.83	875.53
11	2010-11	290.32	315.03	270.00	279.12	425.00	450.00	9.84	10.17	995.16	1,054.32	177.04	165.22	637.70	3.66	983.62
12	2011-12	308.28	383.67	254.85	253.00	444.00	540.00	28.87	12.60	1,036.00	1,189.27	159.83	316.17	543.13	2.33	1,021.46
13	2012-13	375.62	274.27	305.00	234.85	710.00	607.30	6.50	5.50	1,397.12	1,121.92	256.71	183.66	403.81	0	844.18
14	2013-14	419.45	256.48	293.00	192.47	800.00	700.00	9.00	9.00	1,521.45	1,157.95	229.82	191.12	566.33	0	987.27
15	2014-15	332.00	338.85	241.00	225.00	700.00	550.00	27.00	15.35	1,300.00	1,129.20	293.86	224.15	643.73	6.35	1,168.09
16	2015-16	385.65	383.30	240.00	185.00	710.00	615.00	17.35	21.70	1,353.00	1,205.00	183.98	328.14	741.53	7.21	1,260.86
17	2016-17	390.00	291.50	260.00	310.00	705.00	725.00	25.00	18.50	1,380.00	1,345.00	341.93	374.81	810.09	12.33	1,539.16
18	2017-18	371.00	455.13	360.00	430.00	750.00	1,203.04	19.00	41.60	1,500.00	2,129.77	286.71	443.74	898.11	23.56	1,652.12
19	2018-19	720.43	654.76	1794.23	883.16	1079.56	1393.9	45.43	125.50	3,639.65	3,057.32	303.31	502.35	810.18	18.63	1,634.47
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
21	2020-21	912.58	692.51	1594.54	1425.6	1745.71	2099.13	225.50	208.58	4,478.33	4,425.82	296.14	967.88	1074.9	21.21	2,360.13

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
26	2020-21	488.73	982.40	737.49	769.87	476.28	284.05		650.08	400.22	673.78	615.99

* 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
20	2020-21	a. Sales/Consumer	1,260	1,258	7,598	608,417	813		7,421	45,124,545	9,433,750
		b. Revenue/Consumer	6,160	12,360	56,038	4,684,002	2,309		35,345	293,345,455	63,562,500

* 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	04/20						05/20						06/20					
	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	3727	2749	2384	70.15	78.43	7244	3517	2554	2341	67.45	79.90	6712	3195	2576	2331	68.17	88.90	6382
Day 2	3765	2789	2476	71.16	78.76	7273	3509	2737	2490	70.23	83.40	6683	3175	2562	2292	65.38	85.81	6247
Day 3	3787	2795	2480	71.19	78.33	7262	3475	2746	2418	68.84	82.54	6616	3141	2519	2234	65.42	86.79	6044
Day 4	3785	2802	2509	71.56	78.77	7498	3713	2764	2541	73.80	82.82	6909	3196	2532	2223	66.01	86.06	6143
Day 5	3039	2869	1982	65.35	89.60	6328	3290	2888	2430	72.26	91.52	6436	3146	2544	2314	65.99	87.39	5999
Day 6	3335	2431	2281	64.45	80.52	6448	3112	2691	2221	68.12	91.19	6168	3055	2537	2215	64.01	87.30	6057
Day 7	3270	2470	2234	62.81	80.04	6721	3451	2585	2508	69.69	84.13	6322	2870	2269	1938	56.92	82.63	5911
Day 8	3270	2454	2248	63.63	81.07	6775	3504	2653	2569	70.97	84.39	6737	3232	2396	2049	63.94	82.42	6312
Day 9	3304	2462	2285	64.09	80.82	6827	3523	2767	2629	72.39	85.62	6822	3299	2594	2356	67.89	85.74	6284
Day 10	3381	2338	2083	62.79	77.37	6789	3408	2821	2299	68.46	83.70	6412	3004	2635	2374	66.74	92.57	6075
Day 11	3558	2493	2281	66.73	78.16	7012	3455	2772	2604	72.19	87.06	6690	3235	2514	2235	65.11	83.87	6313
Day 12	3618	2654	2324	67.63	77.88	7025	3406	2761	2670	72.39	88.54	6592	3186	2462	2127	64.03	83.74	6139
Day 13	3743	2703	2493	70.66	78.66	7193	3450	2757	2676	72.54	87.61	6462	3012	2476	2226	62.41	86.32	6080
Day 14	3712	2758	2180	70.70	79.35	7155	3443	2765	2658	72.97	88.30	6280	2837	2264	1997	56.75	83.34	6008
Day 15	3588	2804	2480	70.43	81.79	6854	3266	2732	2653	71.75	91.54	6505	3239	2496	2068	65.17	83.84	6316
Day 16	3523	2719	2451	69.31	81.98	7092	3570	2634	2564	70.93	82.79	6731	3161	2474	2239	66.16	87.22	6083
Day 17	3658	2696	2451	70.75	80.58	6518	2860	2794	2064	63.60	92.65	5853	2993	2554	2266	65.78	91.58	5900
Day 18	3645	2855	2567	71.88	82.17	6685	3040	2357	2282	63.01	86.35	6210	3170	2445	2115	64.45	84.73	5991
Day 19	3587	2850	2332	69.49	80.73	6813	3227	2448	2273	65.79	84.95	6254	3028	2542	2215	64.22	88.38	5947
Day 20	3730	2687	2486	71.53	79.91	7213	3483	2567	2415	70.06	83.82	6635	3152	2466	2139	64.95	85.85	6017
Day 21	3609	2811	2538	71.32	82.34	6951	3342	2725	2551	71.31	88.92	6031	2689	2378	2007	57.72	89.44	5803
Day 22	3567	2774	2432	70.48	82.33	7103	3536	2684	2579	72.34	85.24	6511	2975	2381	1996	61.79	86.54	6160
Day 23	3584	2730	2445	70.48	81.93	7108	3524	2791	2717	73.92	87.41	6696	3172	2448	2131	64.11	84.21	6308
Day 24	3511	2754	2454	69.77	82.80	7087	3576	2850	2274	69.68	81.20	6801	3226	2553	2253	66.64	86.08	6262
Day 25	3729	2750	2443	70.13	78.36	7372	3643	2868	2691	75.57	86.44	6828	3185	2543	2302	66.89	87.51	6206
Day 26	2996	2864	1789	63.62	88.47	6654	3658	2866	2790	77.09	87.81	6792	3134	2566	2308	65.40	86.96	6088
Day 27	3636	2373	2246	66.12	75.77	7275	3639	2954	2813	77.38	88.61	6682	3044	2471	2208	63.05	86.31	6243
Day 28	3416	2756	2150	68.27	83.26	6835	3419	2846	2733	74.05	90.25	6284	2865	2306	2088	58.40	84.93	5984
Day 29	3444	2397	2277	65.24	78.92	6897	3452	2529	2361	69.57	83.97	6509	3057	2507	2166	63.93	87.13	5688
Day 30	3338	2635	2432	67.74	84.55	6536	3197	2738	2608	70.31	91.63	6342	3145	2466	2076	64.43	85.37	6121
Day 31							3144	2499	2159	63.29	83.89	3144						

Table 31- contd..

TABLE 31
DEMAND AND CONSUMPTION

Day	07/20						08/20						09/20					
	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	3187	2562	2247	66.53	87.00	6057	2871	2304	1910	59.32	86.09	6040	3170	2450	2227	65.41	85.98	6492
Day 2	3072	2588	2254	64.06	86.87	5626	2554	2154	1913	54.47	88.88	5551	2997	2508	2308	65.14	90.56	6179
Day 3	2904	2428	2087	61.91	88.85	5708	2805	2338	1834	58.44	86.83	6093	3288	2511	2215	67.08	85.00	6581
Day 4	2947	2398	2023	61.20	86.54	5737	2791	2284	1870	59.34	87.55	6139	3348	2628	2340	69.55	86.55	6431
Day 5	2853	2253	2056	57.35	83.75	5708	2855	1555	1234	50.50	73.31	6195	3340	2605	2367	69.27	86.40	6724
Day 6	3002	2413	2071	62.23	86.38	5822	2820	2150	1881	57.20	84.52	5478	2658	2494	1974	58.27	91.34	6075
Day 7	3041	2423	2027	61.96	84.90	5803	2763	2146	1697	55.54	83.76	5965	3203	2305	1958	62.50	81.31	6611
Day 8	3079	2441	2041	62.71	84.85	5757	2678	2294	1820	55.71	86.58	5885	3208	2512	2173	65.98	85.71	6559
Day 9	2984	2554	2138	62.53	87.30	5481	2497	2135	1747	51.15	85.36	5623	3126	2626	2202	65.38	87.14	6496
Day 10	3072	2455	2050	62.43	84.68	5896	2825	2311	1706	55.91	82.47	5839	3014	2457	2073	63.04	87.14	6239
Day 11	3078	2498	2175	63.88	86.47	6053	2975	2325	1833	59.12	82.81	5929	2955	2423	1985	61.56	86.82	5882
Day 12	2953	2344	2044	59.06	83.32	5972	3018	2377	1975	61.76	85.25	5910	2892	2409	1958	60.26	86.84	5982
Day 13	3068	2508	2144	64.00	86.93	6183	3116	2454	2050	63.66	85.14	5847	2732	2188	1887	54.99	83.87	5872
Day 14	3171	2542	2229	65.33	85.85	6302	3131	2487	2132	64.54	85.88	6238	3107	2383	1778	61.23	82.11	6307
Day 15	3077	2625	2258	65.19	88.27	6089	3012	2343	2137	61.40	84.95	6208	3197	2444	2018	63.75	83.10	6398
Day 16	2922	2490	2138	62.50	89.13	5839	2918	2336	2122	59.16	84.49	6080	3163	2469	2085	64.38	84.82	6347
Day 17	2907	2299	1969	58.44	83.76	6137	3230	2515	2074	64.80	83.60	6349	3120	2494	2117	63.84	85.26	6380
Day 18	2821	2397	1977	59.85	88.41	6028	3207	2495	2164	65.63	85.28	6366	3159	2485	2037	63.68	84.00	6241
Day 19	2920	2233	1974	56.89	81.19	6154	3234	2517	2217	66.13	85.18	6186	2952	2440	2012	60.50	85.40	6373
Day 20	2864	2427	2128	62.49	90.90	6052	3188	2534	2245	66.71	87.19	5977	2789	2051	1809	53.85	80.44	6159
Day 21	3113	2420	2135	64.11	85.80	6356	3242	2563	2252	67.40	86.62	6247	3005	2306	1888	59.96	83.15	6345
Day 22	3185	2565	2240	66.80	87.38	6382	3196	2548	2322	67.46	87.93	6324	3127	2421	1935	62.07	82.70	6494
Day 23	3136	2561	2281	66.86	88.85	6144	3008	2457	2182	62.02	85.91	6207	3199	2437	2042	63.91	83.25	6540
Day 24	3037	2575	2229	64.29	88.22	6388	3351	2557	2234	68.37	85.00	6663	3312	2486	2128	65.54	82.46	6547
Day 25	3021	2403	2141	63.37	87.39	6406	3384	2634	2404	70.62	86.95	6640	3256	2563	2185	66.35	84.91	6335
Day 26	2954	2328	2092	59.29	83.63	6428	3475	2751	2477	71.17	85.34	6693	3218	2560	2182	66.19	85.70	6622
Day 27	3199	2447	2156	65.54	85.36	6737	3538	2688	2479	71.26	83.93	6639	3101	2392	2122	61.17	82.19	6468
Day 28	3119	2558	2295	65.73	87.80	6643	3524	2700	2486	71.83	84.94	6892	3368	2561	2240	68.28	84.46	6863
Day 29	2631	2447	2074	60.32	95.51	6080	3449	2638	2454	70.93	85.69	6737	3288	2641	2282	68.34	86.60	6810
Day 30	2977	2287	1816	59.99	83.98	6241	3265	2567	2346	66.13	84.40	6569	3305	2582	2275	67.41	85.00	6830
Day 31	2787	2375	1967	58.59	87.59	5990	3203	2531	2271	64.09	83.36	3203						

Table 31- contd..

TABLE31
DEMAND AND CONSUMPTION

Day	10/20						11/20						12/20						Max. 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)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)	
Day 1	3322	2587	2228	67.69	84.90	6601	3278	2605	2336	66.84	84.95	6932	3653	2794	2538	73.88	84.26	7104	3451
Day 2	3182	2449	2301	64.48	84.44	6809	3628	2716	2448	72.95	83.79	7152	3524	2747	2494	72.42	85.61	7031	3506
Day 3	3293	2495	2203	66.80	84.53	6872	3579	2856	2561	72.70	84.64	6987	3408	2837	2455	70.32	85.99	6617	3209
Day 4	3083	2418	2136	62.32	84.22	6602	3519	2774	2413	72.28	85.58	7031	3512	2726	2299	69.11	82.00	6980	3468
Day 5	3384	2524	2218	67.87	83.58	6764	3380	2760	2423	71.25	87.83	6862	3482	2709	2311	69.45	83.12	7059	3578
Day 6	3416	2634	2350	69.61	84.90	7009	3593	2686	2347	71.02	82.37	6733	3141	2543	2297	64.10	85.04	6385	3244
Day 7	3408	2693	2363	70.47	86.16	7000	3592	2726	2493	72.82	84.47	7035	3443	2733	2263	69.11	83.64	7014	3572
Day 8	3351	2706	2341	69.93	86.95	6529	3178	2641	2237	66.36	87.01	6660	3482	2663	2320	69.38	83.03	6943	3461
Day 9	3370	2559	2106	67.83	83.87	7027	3657	2719	2381	73.25	83.46	7218	3561	2729	2402	72.39	84.71	6974	3413
Day 10	3224	2629	2396	67.88	87.72	6864	3640	2811	2578	74.13	84.86	7094	3454	2718	2470	70.18	84.65	6659	3204
Day 11	2928	2362	2168	60.41	85.98	6511	3583	2734	2506	72.35	84.13	7214	3631	2817	2462	72.71	84.92	7145	3514
Day 12	3090	2424	2064	63.43	85.52	6675	3584	2777	2503	73.12	84.99	7130	3545	2817	2487	72.26	84.92	6966	3421
Day 13	3140	2462	2014	64.20	85.18	6392	3251	2895	2553	72.28	92.63	6511	3259	2602	2338	65.60	83.87	6662	3403
Day 14	3200	2432	2068	64.50	83.97	6712	3512	2619	2432	69.18	82.08	7037	3525	2684	2371	69.76	82.46	7045	3520
Day 15	3201	2500	2078	65.27	84.95	6516	3315	2511	2330	65.94	82.89	6873	3558	2754	2374	71.15	83.32	7114	3556
Day 16	3185	2548	2076	65.21	85.32	6566	3381	2766	2396	71.13	87.65	6926	3544	2910	2421	72.42	85.14	7068	3524
Day 17	3260	2464	2129	65.60	83.84	6581	3321	2707	2354	68.75	86.26	6797	3476	2861	2432	72.00	86.29	6792	3315
Day 18	3082	2393	2194	62.19	84.07	6633	3551	2690	2299	69.94	82.07	7089	3538	2872	2456	71.84	84.60	7096	3558
Day 19	3421	2559	2259	69.10	84.15	7000	3579	2756	2402	71.88	83.69	6986	3408	2749	2400	69.39	84.84	7030	3622
Day 20	3370	2711	2365	68.92	85.21	6830	3460	2776	2472	72.21	86.96	6604	3144	2508	2240	62.62	82.98	6773	3629
Day 21	3340	2636	2255	68.19	85.06	6849	3509	2691	2483	71.21	84.55	6950	3441	2714	2261	67.80	82.10	7171	3730
Day 22	3367	2667	2168	67.61	83.68	3367	3170	2549	2253	64.14	84.32	6775	3605	2739	2315	69.92	80.81	7268	3663
Day 23	3341	2618	2213	67.24	83.86	6831	3490	2604	2283	69.18	82.60	7051	3561	2823	2399	71.61	83.78	7176	3614
Day 24	3235	2459	2201	65.50	84.36	6808	3573	2763	2370	70.95	82.73	7205	3632	2822	2416	72.75	83.46	6941	3309
Day 25	3079	2407	2213	61.75	83.58	6651	3572	2830	2444	72.24	84.26	6868	3296	2635	2462	67.22	84.98	6815	3519
Day 26	3404	2578	2213	67.54	82.67	6707	3303	2672	2408	67.04	84.55	6673	3369	2751	2392	69.41	85.83	6762	3393
Day 27	3367	2699	2357	70.09	86.73	6951	3584	2721	2418	72.12	83.85	6821	3237	2571	2299	64.02	82.41	6791	3554
Day 28	3495	2723	2366	71.20	84.89	7016	3521	2732	2501	71.67	84.80	7101	3580	2747	2354	70.70	82.30	7157	3577
Day 29	3522	2708	2420	71.18	84.22	6866	3345	2587	2337	66.11	82.36	7003	3659	2785	2426	72.17	82.18	7181	3522
Day 30	3525	2719	2474	72.03	85.15	7241	3716	2746	2453	73.43	82.35	7377	3661	2899	2509	74.34	84.60	7255	3593
Day 31	3505	2727	2436	72.10	85.71	3505							3468	2933	2625	72.74	87.39	6871	3403

Table 31- contd..

TABLE31
DEMAND AND CONSUMPTION

Day	01/21					02/21						03/21					
	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	2732	2340	69.49	83.90	7136	3685	2854	2409	74.07	83.74	7669	3984	3088	2807	80.94	84.64	3984
Day 2	2647	2284	68.77	81.72	7223	3717	2914	2529	74.55	83.58	7609	3892	3035	2861	80.36	86.03	3892
Day 3	2593	2365	64.39	83.60	6927	3718	2975	2571	75.70	84.82	7692	3974	3128	2843	80.67	84.58	3974
Day 4	2755	2337	70.75	85.01	7171	3703	3012	2568	74.87	84.24	7623	3920	3117	2789	79.70	84.72	3920
Day 5	2852	2434	72.11	83.98	7200	3622	2975	2585	74.72	85.96	7570	3948	3111	2721	80.21	84.66	3948
Day 6	2879	2448	70.69	90.78	6833	3589	2948	2573	74.28	86.24	7590	4001	3176	2827	81.38	84.74	4001
Day 7	2745	2347	69.99	81.65	6909	3337	2671	2364	66.60	83.16	7208	3870	3056	2733	76.33	82.17	3870
Day 8	2854	2406	70.25	84.57	7072	3611	2803	2381	71.34	82.31	7724	4112	3217	2861	83.80	84.91	4112
Day 9	2750	2385	69.45	84.78	7016	3603	2892	2418	72.30	83.63	7603	4001	3279	3031	84.14	87.64	4001
Day 10	2620	2348	63.85	83.03	6858	3654	2905	2410	72.28	82.44	7596	3943	3199	2930	82.80	87.51	3943
Day 11	2784	2314	69.88	82.86	7226	3711	2861	2382	72.26	81.12	7410	3699	2886	2623	76.42	86.09	3699
Day 12	2830	2377	68.96	84.01	7048	3627	2921	2386	72.76	83.58	7593	3966	3021	2750	80.14	84.20	3966
Day 13	2729	2296	68.12	83.41	7019	3616	2903	2452	72.35	83.36	7543	3926	3108	2848	80.67	85.61	3926
Day 14	2715	2161	68.21	80.74	6869	3349	2726	2427	67.03	83.40	7366	4017	2960	2584	75.97	78.79	4017
Day 15	2841	2357	70.99	83.18	7334	3778	2915	2504	74.85	82.55	8003	4225	3167	2819	83.65	82.50	4225
Day 16	2825	2410	71.53	84.59	7337	3814	3103	2637	76.99	84.11	8023	4209	3232	3007	84.84	83.98	4209
Day 17	2651	2346	66.31	83.34	7087	3772	3127	2605	6081.84	84.98	8030	4257	3264	3034	86.43	84.59	4257
Day 18	2771	2437	70.96	83.11	7396	3839	3090	2703	6241.12	84.14	8078	4240	3379	3085	86.90	85.41	4240
Day 19	2817	2440	71.52	82.27	7453	3831	3065	2703	77.29	84.07	8086	4256	3394	3137	88.42	86.57	4256
Day 20	2901	2405	72.91	83.70	7299	3669	3079	2639	5783.21	86.99	7603	3934	3298	2935	84.91	89.93	3934
Day 21	2970	2556	75.19	84.01	7084	3355	2775	2471	5912.25	85.18	7070	3716	3062	2780	76.28	85.54	3716
Day 22	2970	2633	75.92	86.35	7498	3834	2903	2512	6117.30	82.27	7897	4063	3101	2849	82.73	84.85	4063
Day 23	2985	2626	75.29	86.80	7481	3867	3005	2678	78.43	84.50	7978	4110	3226	2961	85.95	87.13	4110
Day 24	2772	2439	68.06	85.70	7207	3899	3079	2728	79.50	84.97	8083	4184	3275	3082	87.13	86.77	4184
Day 25	2819	2234	71.79	84.99	7375	3856	3147	2841	80.38	86.87	7992	4137	3299	3067	85.54	86.16	4137
Day 26	2644	2431	68.05	83.57	7252	3859	3159	2682	81.07	87.53	8081	4222	3223	3030	86.55	85.41	4222
Day 27	2793	2245	70.20	82.31	7483	3929	3210	2899	81.85	86.79	7974	4045	3333	3084	86.67	89.28	4045
Day 28	2785	2388	70.24	81.82	7342	3765	2975	2721	75.26	83.28	7472	3707	3107	2716	77.10	86.66	3707
Day 29	2869	2338	71.17	84.20	3522							3637	3041	2815	79.66	91.26	3637
Day 30	2955	2453	72.53	84.11	3593							4225	2964	2694	82.66	81.53	4225
Day 31	2708	2450	67.53	82.70	3403							4284	3296	3019	87.02	84.64	4284

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
2020-21	56.66	44.96	13.31	21.22	4.85	5.80	17.65	22.06	1.80	0.83			1.68	1.30	2.21	2.34	1.17	0.76	0.67	0.74

* included in Industrial LT from 2002-03

** Commercial LT includes General LT VI and LTX Electric Vehicle Charging Stations(from 2020-21 onwards)

*** Railway Traction includes KMRL also

TABLE 33
LIST OF EHT CONSUMERS 2020-21

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)	Annual Consumption (kWh)	Product
1	13/1306	APOLLO TYRES LTD	EHT I (66 kV) INDUSTRIAL	66	10000	9960	9724	9480	55832800	Tyre
2	21/1029	ASSISTANT SECRETARY, THRISSUR CORPORATION	Licensee: Thrissur Corporation	66	8000	9171.8	7922.6	6589.6	41385600	Distribution Licensee
3	12/941	AUTOKAST LIMITED	EHT II (110 kV) INDUSTRIAL	110	3000	3100	2990	2920	5096578	Fost Gray Iron, & Cast Iron casting
4	31/3416	BELIEVERS CHURCH	EHT GENERAL (A)	110	2000	1790	1760	1460	10423480	Biblical Seminary & CBSE school
5	15/3809	BHARAT PETROLEUM CORPORATION LTD	EHT II (110 kV) INDUSTRIAL	110	2600	2300.88	2285.94	2301	11468160	Nil
6	16/1666	BHARATH PETROLEUM CORPORATION, ERNAKULAM	EHT II (110 kV) INDUSTRIAL	110	850	840	843.5	951.1	2241000	NIL
7	8/1234	CARBORUNDUM UNIVERSAL LTD, EDAPPALLY	EHT I (66 kV) INDUSTRIAL	66	18000	19648	19704	19749.33	85158466	BROWN FUSED ALUMINA
8	8/854	CARBORUNDUM UNIVERSAL LTD, KORATTY	EHT II (110 kV) INDUSTRIAL	110	7500	6338	6242	6263	39275600	Abresive grains
9	29/3507	COCHIN INTERNATIONAL AIRPORT	EHT GENERAL (B)	110	9000	6394.2	6904.05	6527.1	0	air transport (SOLAR GENERATION)
10	21/1135	COCHIN PORT TRUST	Licensee: CPT	110	6500	5622.3	4865.4	4891.65	24201900	
11	2/201	COCHIN REFINERIES LTD	EHT III (220 kV) INDUSTRIAL	220	40000	47500	42200	36800	74961200	Petroleum Products
12	21/845	COCHIN SHIPYARD LIMITED	EHT I (66 kV) INDUSTRIAL	66	8500	6870	6154	4902	27807297	
13	8/4201	COCHIN SPECIAL ECONOMIC ZONE AUTHORITY (CSEZA)	Licensee: CSEZ	110	13000	10762	8944	8064	48636450	LICENSEE
14	5/202	FACT COCHIN DIVISION	EHT II (110 kV) INDUSTRIAL	110	12000	12048	9332	10041.6	62673775	FACTOMFOS 20-20
15	5/501	FACT, UDYOGAMANDAL	EHT II (110 kV) INDUSTRIAL	110	14000	17680	12720	12600	69111000	
16	8/4208	GOVERNMENT MEDICAL COLLEGE	EHT GENERAL (A)	110	1000	900	590	630	2789900	medical college co.op sector
17	4/437	GRASIM INDUSTRIES LTD	EHT I (66 kV) INDUSTRIAL	66	500	30.7	25.6	41.1	76400	Water supply to colony & power supply to colony % street light
18	1/124	GTN TEXTILES LTD	EHT II (110 kV) INDUSTRIAL	110	4500	3438	3362	3376	9503530	Yarn
19	3/325	HINDALCO INDUSTRIES LTD	EHT II (110 kV) INDUSTRIAL	110	5000	2552	2688	2900	9823556	Aluminium billets & extrusions
20	8/851	HINDUSTAN MACHINE TOOLS LTD	EHT I (66 kV) INDUSTRIAL	66	2900	2206.75	1552.8	1862.6	2261350	CNC Lathes, Conventional Lathes, Printing Machines
21	11/1141	HINDUSTAN NEWS PRINT LTD	EHT II (110 kV) INDUSTRIAL	110	22000	1740	1400	1580	5255000	Newsprint
22	15/1515	HINDUSTAN ORGANIC CHEMICALS LTD	EHT I (66 kV) INDUSTRIAL	66	8000	6208	6210	6254	34331300	
23	13/1320	INDIAN TELEPHONE INDUSTRIES	EHT I (66 kV) INDUSTRIAL	66	1500	1180	600	460	2462800	ELECTRONIC TELEPHONE EXCHANGES PRINTED CIRCUIT BOARDS, SIM CARDS
24	1/153	INDSIL ELECTROMELTS LTD	EHT I (66 kV) INDUSTRIAL	66	14000	9375	9054	9351	24880710	SILICO MANGANESE
25	3/9049	INOX AIR PRODUCTS PVT LTD	EHT II (110 kV) INDUSTRIAL	110	6700	6157.6	5977.88	6027.58	38696240	
26	13/1351	INTERNATIONAL AIRPORT AUTHORITY OF INDIA	EHT GENERAL (B)	66	3000	2363.4	2365.56	2263.68	11925900	AIRPORT
27	18/635	KERALA MINERALS & METALS LTD.	EHT II (110 kV) INDUSTRIAL	110	15000	13388	13177	13387	82073600	Titanium dioxide pigment
28	8/4008	KINESCO POWER & UTILITIES PVT LTD (KPUPL)	Licensee: KPUPL	110	13000	17206	15236	10580	58261450	LICENSEE
29	33/8720	KINFRA MEGA FOOD PARK	Licensee: KPUPL	22	300	159.73	146.8	137.2	262264	
30	26/8963	KOCHI METRO RAIL LIMITED	KMRL (Kochi Metro Rail Ltd)	110	3000	2957.7	3057.45	1519.65	4060650	
31	26/7876	KOCHI METRO RAIL PROJECT	KMRL (Kochi Metro Rail Ltd)	110	3000	4140	4700	3040	5657498	
32	2/3737	KOCHI REFINERIES LTD - PUMPING STATION	EHT I (66 kV) INDUSTRIAL	66	1400	1346.18	1352.63	1357.35	6591075	water pumping
33	7/716	MADRAS RUBBER FACTORY LTD (MRF)	EHT II (110 kV) INDUSTRIAL	110	10000	8524.2	8376	7582	45080800	Tyre, Tube, Tyre Repair Materials, Masticated Rubber
34	15/14/1337	MALABAR CEMENTS, WALAYAR (15/14/1337)	EHT II (110 kV) INDUSTRIAL	110	10000	9374	5642	9340	42762450	CEMENT
35	19/4025	PARAGON STEELS PVT. LTD.-UNIT II	EHT II (110 kV) INDUSTRIAL	110	7000	6240.3	5426.1	6483.1	16125600	CTD/TMT BARS - STEEL
36	26/7324	PATSPIN INDIA LTD	EHT II (110 kV) INDUSTRIAL	110	4400	3758	3702	3686	20839800	

Table- 33 contd..

TABLE 33

LIST OF EHT CONSUMERS 2020-21

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)	Annual Consumption (kWh)	Product
37	9/333	PHILLIPS CARBON BLACK LTD	EHT I (66 kV) INDUSTRIAL	66	1500	4848	4952	4788	726500	CARBON BLACK Factamfos Ammonium Sulphate Caprolactam (Final Products)
38	9/731	PRECOT MERIDIAN 'A' UNIT	EHT I (66 kV) INDUSTRIAL	66	4500	3900	3868	3884	23144560	COTTON YARN
39	9/4487	PRECOT MERIDIAN LTD (C & D UNITS)	EHT II (110 kV) INDUSTRIAL	110	2700	2526	2466	2510	15343900	Cotton yarn(fine),cotton yarn
40	4/438	PREMIER TYRES LTD	EHT I (66 kV) INDUSTRIAL	66	4750	3990	3634	3350	20226950	Automotive Tyres
41	2/3975	RUBBER PARK INDIA PVT. LTD,IRAPURAM,ERNAKULAM	Licensee: RPL	110	6700	6580	5856	6240	28488460	Licensee (Power given to Various Product Manufacturing companies)
42	8/1140	SAINT GOBAIN INDIA (P) LIMITED	EHT II (110 kV) INDUSTRIAL	110	12000	9338	9460	9150	35343950	
43	30/4748	SOUTHERN RAILWAY,TRACTION SUB STATION,CHINGAVANAM	EHT II (110 kV) RT	110	7000	6190	5810	5300	8551500	RLWY TRACTION
44	30/8080	SOUTHERN RAILWAY,TRACTION SUB STATION,PALAKKAD	EHT II (110 kV) RT	110	8000	8960	8280	5780	9066000	RLWY TRACTION
45	30/8392	SOUTHERN RAILWAY TRACTION UPPALA	EHT II (110 kV) RT	110	5000	4860	5560	4900	4220000	RLWY TRACTION
46	30/7701	SOUTHERN RAILWAY, TRACTION SUB STATION, KANNUR	EHT II (110 kV) RT	110	7000	6860	6580	6790	7228000	RLWY TRACTION
47	30/8629	SOUTHERN RAILWAY,PALAKKAD	EHT II (110 kV) RT	110	8000	6720	5720	7160	8602400	RLWY TRACTION
48	30/4462	SOUTHERN RAILWAY,TRACTION SUB STATION, KAZHAKUTTAM	EHT II (110 kV) RT	110	8500	8830	7800	6460	12000000	RLWY TRACTION
49	30/4337	SOUTHERN RAILWAY,TRACTION SUB STATION, PUNNAPRA	EHT II (110 kV) RT	110	5000	4680	0	0	4098943	RLWY TRACTION
50	30/3444	SOUTHERN RAILWAY,TRACTION SUB STATION, SHORANUR	EHT II (110 kV) RT	110	12000	10570	9620	11000	18102000	RLWY TRACTION
51	30/3899	SOUTHERN RAILWAY,TRACTION SUB STATION,KADAVANTHRA	EHT II (110 kV) RT	110	8000	7950	7840	7500	12881000	RLWY TRACTION
52	30/3116	SOUTHERN RAILWAY,TRACTION SUB STATION,KANJIKODE	EHT II (110 kV) RT	110	12500	11240	13440	13280	14924150	RLWY TRACTION
53	30/4619	SOUTHERN RAILWAY,TRACTION SUB STATION,PERINAD	EHT II (110 kV) RT	110	10500	9204.1	8760	7280	12445300	RLWY TRACTION
54	30/3607	SOUTHERN RAILWAY,TRACTION SUB STATION, CHALAKUDY	EHT II (110 kV) RT	110	9500	8976.5	7880	8930	16113500	RLWY TRACTION
55	30/8000	SOUTHERN RAILWAY,TRACTION SUBSTATION,,ELATHUR	EHT II (110 kV) RT	110	8000	7390	7090	6400	9564000	RLWY TRACTION
56	2/256	TECHNO PARK	Licensee: Technopark	110	15000	13678.95	11364.45	5958.3	37140750	IT Software firm
57	33/9195	TECHNOCITY	Licensee: Technopark	110	1000	340	264	102	500650	
58	2/5163	TECHNOPARK PHASE II&III,THIRUVANANTHAPURAM	Licensee: Technopark	110	5000	6722.63	5544	3578.4	15974325	IT Software firm
59	6/602	TRANSFORMERS & ELECTRICALS KERALA LTD	EHT I (66 kV) INDUSTRIAL	66	2000	1349.9	1018.35	934.4	3620000	Power Transformer
60	1/102	TRAVANCORE COCHIN CHEMICALS LTD(TCC)	EHT II (110 kV) INDUSTRIAL	110	24000	20522	20488	20516	150182350	1)CAUSTIC SODA-LYE& FLAKES. 2)COMMERCIAL HCL ACID 3)LIQUID CHLORINE 4)SODIUM HYDROCLORITE
61	1/103	TRAVANCORE TITANIUM PRODUCTS LTD	EHT I (66 kV) INDUSTRIAL	66	3500	2841	2070	2844	12349250	Titanium Dioxide (Anatase Grade)
62	7/709	VIKRAM SARABHAI SPACE CENTRE,ISRO,THUMBA	EHT GENERAL (B)	110	12000	11736	4208	3840	25518400	Research Organisation
63	2/502	WESTERN INDIA PLYWOOD LTD	EHT II (110 kV) INDUSTRIAL	110	3500	2648.3	2393.1	2257.2	10001628	Hardboard, Plywood, Free compressed press board

TABLE 34									
LIST OF EHV AND 33 kV SUBSTATIONS									
Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	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	
	400 kV TRANSMISSION SUBSTATION			1	SWITCH YARD		0	8	
II. 220 kV Substations in operation									
1	Aluva GIS	Kalamassery	220/110	200	2	400	31/03/2021		New Substation
			110/66	63	2	126	1979	16	
			110/11	12.5	1	12.5			
			66/11	10	3	30			
2	Ambalamugal (BPCL)	Kalamassery	220/33	50	2	100	Apr-12, May-13	0	
3	Areacode	Malappuram	220/110	160	1	160	May-98	7	
			110/11	12.5	1	12.5			
			110/11	12.5	1	12.5			Replaced 10 MVA with 12.5 MVA
4	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
5	Chalakkudy	Thrissur	220/110	100	2	200	11.12.2020	9	Substation upgraded on 15.12.2020
			110/66	16	2	32			
			110/11	12.5	2	25			
			66/11	50	1	50			
6	Edamon	Kottarakara	220/110	200	1	200	23.07.2016	5	
			110/66	40	2	80			
			66/11	10	2	20	1978, May-13		
7	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			
					0				
8	Elankur		220/110	100	2	200	01/04/2020	4	
			110/11	12.5	2	25	01/03/2020		
9	Kalamassery	Kalamassery	220/110	200	3	600	1965	8	
			220/110	120	1	120			
			110/66	63	2	126			
			110/11	20	2	40	21.08.2017 &16.10.2017		
10	Kaloor	Kalamassery	220/110	160	2	320			New Substation commissioned on 01.11.2021
			110/66	25	2	50			
			110/33	25	2	50			
			110/11	20	2	40			
			110/11	12.5	1	12.5			
	66/11	10	1	10					
11	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		
12	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
13	Kothamangalam	Thodupuzha	220/110	100	2	200	15/01/2019		Upgraded during 2020-21
			110/11	10	3	30		10	
14	Kundara	Kottarakara	220/110	200	2	400	Jan-06	16	
			110/11	12.5	3	37.5			
15	Malaparamba	Malappuram	220/110	100	2	200	Nov-07	7	6 nos. to 7
			220/110	200	1	200	01/02/2020		New transformer
16	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			

Table 34- 220 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	31.5	1	31.5			GTR
17	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
			66/11	10	2	20			
18	New Kattakkada	Thiruvananthapuram	220/110	200	1	200	24.7.2017	0	
			110/11	12.5	2	25	01.03.2020		
19	New Pallom	Poovanthuruthu		-	-	-	Nov-99		Switching Station
				-	-	-			
20	Orkatteri (Vadakara)	Kozhikode	220/110	100	2	200	May-09	5	
			110/11	12.5	2	25	May-09, Feb-14		
21	Palakkad	Palakkad	220/110	160	3	480	May-97, 03/16/2019	20	transformer 1 newly added
			110/22	25	5	125	May-97, May-12		All 20 are 22kV feeders
22	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			
23	Pothencode	Thiruvananthapuram	220/110	200	3	600	1989	14	11 nos. to 14
			110/11	12.5	3	37.5			
			110/11	10	1	10			
24	Punnappa	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		Table 34 -220kV Continued
25	Shornur	Palakkad	220/110	100	2	200	Jan-04	8	7 nos. to 8 including industrial urban
			220/110	200	1	200			newly added; no details found
			110/11	12.5	2	25			
26	Solar Park, Ambalathara	Kannur	220/33	100	2	200	30.08.2017	1	
			220/110	100	1	100	26.05.2020		newly added
			33/11	5	1	5	15.01.2018		
27	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		
a	Moolamattom (Switch Yard)	Gen. Circle, Moolamattom	220/66	50	1	50	2.2000	4	
			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				0			6 220 kV feeders
27+c	Total				165	10868.1		221	
	220 kV TRANSMISSION SUBSTATION			27	SWITCH YARD		3		excl. Palakkad 22 kV feeders
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	Ambalappuram	Kottarakara	110/33	16	2	32	Mar-03	6	5 nos. to 6
			110/11	12.5	2	25			
4	Anchal	Kottarakara	66/11	10	0	0	01/02/2011	7	not in service
			110/11	12.5	2	25	15/06/2020		newly added 2 transf
5	Angamally	Thrissur	110/11	20	2	40	12/2015 07/2017	12	12.5 replaced with 20 on 27.07.2017

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
6	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
7	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
			66/11	16	1	16	08/16		Newly added Replacing 10 MVA
8	Aruvikkara	Thiruvananthapuram	110/11	10	1	10	Aug-98	7	Replaced 2 transf ; feeders 5 nos. to 7
			110/11	12.5	1	12.5	01/07/2016		Newly added Replacing 10 MVA
9	Athani	Thrissur	110/33	16	2	32	2001, _	10	feeders 8 nos. to 10; 1 16 MVA newly added
			110/11	12.5	2	25	1992		
10	Attingal	Thiruvananthapuram	110/66	20	2	40	Mar-05	11	feeders 10 nos. to 11
			110/33	16	2	32	2010, 2012		
			66/11	16	1	16	08/2018		newly added transf 1, Replaced 1 transf 12.5 MVA
			110/11	12.5	0	0			
			66/11	10	1	10			Replaced 1 transf
11	Ayarkunnam	Poovanthuruthu	110/11	12.5	2	25	Mar-10	6	
12	Ayathil	Kottarakara	110/11	12.5	3	37.5	Mar-09	13	feeders 12 nos to 13
13	Ayoor	Kottarakara	66/11	10	0	0	15. June 1905	8	not in service transf , feeder 7 to 8
			110/11	12.5	2	25	5/2020, 02/2020		newly added 2 transf
14	Ayyampuzha	Thrissur	110/11	12.5	1	12.5	May-11	4	
			110/11	10	2	20	01/12/2018		Newly added
15	Azhikode	Kannur	110/33	16	2	32	2005/2017	9	feeders 5 to 9
			110/11	12.5	2	25	Apr-00		
16	Balaramapuram	Thiruvananthapuram	66/11	10	2	20	16. January 2014	6	feeders 3 to 6. Substation upgraded
			110/11	12.5	2	25	04/06/2020 27/08/2020		newly added 2 transf
17	Chakkittapara	Kozhikode	110/11	12.5	1	12.5	Dec-04	6	feeders 5 to 6
			110/11	10	1	10			
18	Chavara	Kottarakara	110/11	12.5	2	25	Mar-10	8	
19	Chelari	Malappuram	110/33	16	2	32	2003, 2009	8	Table 34 -110kV Continued
			110/11	12.5	2	25	Feb-03		
20	Chellanam	Alapuzha	110/11	12.5	2	25	Mar-07	7	feeders 6 to 7
21	Chemperi	Kannur	110/11	12.5	1	12.5	01.06.2020		New Substation commissioned on 30.05.2020
			110/11	10	1	10	18.11.2020		10 MVA added
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	01/03/2009	9	
			110/11	12.5	1	12.5	June/1905		
			110/11	10	1	10			
24	Cherai	Kalamassery	110/12	12.5	2	25	6/2019, 10/2019		newly added
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 trasnfr
			33/11	5	0	0			
			110/11	10	1	10	15.01.2021		5MVA replaced with 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

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
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 transf
			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	01/05/2003		
34	Edathala	Kalamassery	110/33	16	2	32		12	feeders 9 to 12
			110/11	12.5	3	37.5	03/27/2003		upgraded S/s commissioned on 17.02.2021
35	Edathuva	Alapuzha	110/33	16	2	32	Mar-08, 03/2019	6	newly added transformer 1 nos
			33/11	5	2	10			
36	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		
37	Eramallor	Alappuzha	110/11	12.5	2	25	01/06/2019	6	newly entered
38	Eranakulam North	Kalamassery	110/11	12.5	2	25	06/2016 , 03/2017	13	
			66/11	10	1	10			
39	Erattupetta	Poovanthuruthu	110/11	12.5	2	25	Apr-01	6	
40	Erumeli	Poovanthuruthu	110/11	12.5	1	12.5	4.5.2017	6	feeders 4 to 6
			110/11	10	1	10			
41	Ezhimala	Kannur	110/11	12.5	1	12.5	Aug-01	3	
			110/11	10	1	10			
42	Gandhi Road (GIS)	Kozhikode	110/11	20	2	40	01/08/2016	13	
43	GIS, Kollam	Kottarakara	110/11	20	2	40	27.03.2017	10	feeders 6 to 10
44	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
45	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
46	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
47	Kadavanthra	Kalamassery	110/11	10	2	20	Aug-97	9	tranfrs 3 nos. to 2
			110/11	12.5	0	0			not in service
48	Kalladikode	Palakkad	110/11	12.5	1	12.5	Mar-10	6	
			110/11	10	1	10			
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 trasnfr
			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	2	25	26.11.2017 12.08.2020	7	feeder 5 to 7 New Transformer
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

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
61	Kizhissery	Malappuram	110/33	16	2	32	2001, 2004	8	
			110/11	20	2	40	1990		Replaced 12.5 trsnfris 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	
			66/11	6.3	0	0			
			110/11	12.5	2	25	09/2019, 8/1/2019		newly added 2 transf
65	Koduvally	Kozhikode	110/11	12.5	2	25	Oct-09	6	
66	Kollengode	Palakkad	110/33	16	2	32	Dec-03	6	
			110/11	10	1	10	17.11.2020		5MVA replaced with 10 MVA
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	1	12.5	08.02.2021	8	New transformer
			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	Kuttikattoor	Kozhikode	66/11	10	2	20	1974	11	feeders 9 to 11.upgraded 66 kv S/s commissioned on 17.08.2020
			66/11	8	1	8			
			110/11	12.5	1	12.5			
			110/11	20	1	20	10/05/2020		
81	Kuttippuram	Malappuram	110/11	20	1	20	13.07.2020	11	feeders 10 to 11 Replace 2 10 MVA Transformers with one 20 MVA
			110/33	16	1	16	Mar-14		
			110/33	16	1	16	17/9/2020 15.11.2020		Newly added DOE 17/9/20
			110/11	20	1	20			newly added trasnfr
82	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
83	Mahe (Pondicherry Govt)	Kannur	110/11	10	2	20	1989		
84	Mala	Thrissur	66/11	10	0	0	1993	7	feeders 6 to 7
			110/11	12.5	2	25	01.09.2019 30.11.2020		newly added transf
85	Malampuzha	Palakkad	110/11	10	2	20	1994	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
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 transfr, 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			
92	Mankada	Malappuram	110/11	10	1	10	30/09/2015	4	feeders 3 to 4.upgraded S/s commissioned on 20.03.2021
93	Mankavu	Kozhikode	110/11	12.5	1	12.5	September/2019		S/s upgraded 07.04.2020
			110/11	20	1	20	04.01.2020		newly added transformer
			66/11	8	2	16			
			66/11	10	0	0		10	feeders 9 to 10
94	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		
95	Marady	Thodupuzha	66/11	10	1	10	29.03.2018	3	feeders 1 to 3
			110/11			0			upgraded S/s commissioned on 27.01.2021
96	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	0	0			66/11kV 8MVA replaced with 66/11kV 10MVA
97	Mattanur	Kannur	110/33	16	2	32	Jul-10	6	
			110/11	12.5	2	25	Jul-10		
98	Mavelikkara	Alappuzha	110/66	40	2	80	Dec-09	9	
			66/11	10	3	30	Dec-09		
99	Medical College	Thiruvananthapuram	110/11	12.5	1	12.5	May-98	8	one tranfomer 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
100	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
101	Meppayur	Kozhikode	110/33	16	2	32	Aug-04	4	
			110/11	10	1	10			newly added transf
			33/11	5	1	5			one tranfomer replaced
102	Mulleria	Kannur	110/33	16	1	16		6	feeders 5 to 6
			110/11	10	3	30	Mar-01,-,-		newly added transformer 1 nos
103	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	December/2015		newly added transf
			66/11	8	1	8			newly added transf
			66/11	10	1	10			
104	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			
105	Muttathara	Thiruvananthapuram	110/11	12.5	1	12.5	01/05/2020	1	New Substation commissioned on 28.05.2020
106	Muttom	Thodupuzha	110/11	12.5	1	12.5	22.01.2018	4	feeder 3 to 4
107	Muvattupuzha	Thodupuzha	110/33	16	2	32	2004	13	feeders 9 to 11

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	3	37.5	1989, Dec-13		
108	Myloor (Pothanikad)	Thodupuzha	110/11	12.5	2	25	Mar-10	5	feeders 4 to 5
109	Nadapuram	Kozhikode	110/33	16	1	16	Dec-13	6	feeders 5 to 6
			110/11	12.5	2	25	Feb-01		
110	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 tranformer replaced
111	Nedumpoil	Kannur	66/11	6.3	1	6.3	24. May 1905	4	replaced 1 tranfr, feeders 3 to 4
			66/11	10	1	10	1. December 2019		newly added trasnfr 1 nos
			110/11	10	1	10	1. April 2019		newly added trasnfr 1 nos
			110/33	16	1	16	01/07/2019		newly added trasnfr 1 nos
112	Nemmara	Palakkad	110/11	10	1	10		6	feeders 5 to 6. Upgraded S/s commissioned on 17.02.2021
113	New Vytila	Kalamassery	110/11	12.5	2	25	Dec-09	9	feeders 7 to 9
114	Neyyattinkara	Thiruvananthapuram	66/11	10	0	0	1968	9	not in service
			66/11	8	0	0			not in service
			110/11	12.5	2	25			newly added trasnfr 2 nos. Substation upgraded
115	North Paravur	Kalamassery	110/33	16	2	32	2005	8	feeders 7 to 8
			110/11	12.5	2	25	1989 15.02.2021		newly added transformer
			66/11	10	0	0			66/11kV 10MVA replaced with 110/11kV 12.5MVA
116	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
			66/11	10	0	0	Aug-01		not in service
117	Ottapalam	Palakkad	110/11	12.5	2	25	1989, 11/26/2004	7	feeders 5 to 7, 1 newly added transf
			110/11	10	1	10			
118	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		
119	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
120	Panangad	Kalamassery	110/11	12.5	2	25	28/05/2012	7	feeders 4 to 7
121	Panoor	Kannur	110/33	16	2	32	2003	5	newly added transformer 1 nos
			110/11	10	2	20	1994		
122	Parali	Palakkad	110/33	16	2	32	2005	6	
			110/11	10	2	20	1988		
123	Parappanagadi	Malappuram	110/11	12.5	2	25	30.12.2016	6	
124	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		
125	Parippally	Kottarakara	110/33	16	1	16	Nov-13	9	feeders 8 to 9
			110/11	12.5	2	25	Sep-10		
126	Paruthippara	Thiruvananthapuram	110/66	63	2	126	1978	15	
			110/11	20	3	60			
127	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		
128	Pathanapuram	Kottarakara	110/11	12.5	2	25	Sep-09	8	
129	Pathirippala	Palakkad	110/11	12.5	1	12.5	Oct-13	4	
			110/11	10	1	10	Aug-11,		
130	Payyangadi	Kannur	110/11	12.5	2	25	Dec-97	6	feeders 5 to 6
						0			

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
131	Payyannur	Kannur	110/33	16	1	16	June-05	9	
			110/11	12.5	2	25	Apr-81		
			110/11	10	1	10			
132	Pazhayannur	Thrissur	110/11	12.5	1	12.5	Apr-97	5	feeders 4 to 5
			110/11	10	1	10			
133	Perinadu	Kottarakara	110/11	12.5	2	25	08-02-16	6	feeders 4 to 6
134	Perinthalmanna	Malappuram	110/11	20	2	40	31.03.2017	13	feeders 7 to 13, 10MVA replaced with 20 22.01.2018
135	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			
136	Pinarayi	Kannur	110/33	16	2	32	Mar-01	6	feeders 4 to 6
			110/11	12.5	1	12.5	16.10.2020		5MVA replaced with 12.5
137	Piravom	Thodupuzha	110/11	12.5	1	12.5	01/03/2014	11	
			110/11	10	2	20			
138	Ponnani	Malappuram	110/11	12.5	2	25	Jan-03	6	
139	Pudukkad	Thrissur	110/11	12.5	2	25	18-5-2015 31-7-2015	7	
140	Pullazhy	Thrissur	110/11	20	2	40	Mar-08	8	feeders 7 to 8 , 12.5MVA replaced with 20 on 25.04.17
141	Punalur	Kottarakara	110/11	12.5	2	25	Jan-03	11	feeders 9 to 11
142	Punnayurkulam	Thrissur	110/11	12.5	2	25	Aug-05	7	feeders 6 to 7
143	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		
144	Ranni	Pathanamthitta	110/11	12.5	2	25	Mar-01	9	feeders 6 to 9
			110/33	16	1	16			newly added transf
145	Rayonpuram	Thodupuzha	110/11	12.5	2	25	Sep-11, Nov-13	8	feeders 3 to 8
			110/33	16	1	16			
146	S.L. Puram (Kanjikuzhi)	Alappuzha	110/11	12.5	2	25	Aug-09	8	feeders 6 to 8
147	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 transf
148	Sreekantapuram	Kannur	66/11	10	0	0	Apr-97	7	feeders 8 to 7
			110/11	12.5	2	25	07/2019		Newly added transf
149	Technopark (Kazhakkuttam)	Thiruvananthapuram	110/11	12.5	1	12.5	Jun-99	12	not in service one transformer replaced
			110/11	10	0	0			not in service
			110/11	20	3	60	11.06.2020		newly added 2 trans
150	TERLS	Thiruvananthapuram	110/66	40	2	80	Nov-04	10	feeders 9 to 10
			110/11	12.5	2	25			
151	Thalassery	Kannur	110/11	12.5	2	25	1990	12	
			110/11	10	1	10			
152	Thambalamanna	Kozhikode	33/11	5	2	10	Oct-09	3	33 kv substation
			110/33	16	1	16	June-2020		upgraded on 06.11.2020
153	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			
154	Thiruvalla	Pathanamthitta	66/11	10	2	20	2010	9	feeders 8 to 9 upgraded S/s commissioned on 21.12.2020
			110/11	20	1	20			
155	Thrikodithanam	Poovanthuruthu	110/11	12.5	2	25	Mar-08	6	
			110/33	16	1	16	Feb-13		
156	Thycattussery	Alappuzha	110/33	16	2	32	2008	8	feeders 6 to 8
			110/11	10	1	10	Dec-03		
			110/11	20	1	20	08.01.2021		10 MVA replaced with 20 MVA

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
157	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
158	Udumbannoor	Thodupuzha	110/33	16	2	32	Apr-05	4	
			33/11	5	2	10	Dec-05		
159	Vadakara	Kozhikode	110/33	16	1	16	2008	10	feeders 8 to 10
			110/11	10	1	10			newly added transf
			110/11	12.5	2	25	1970		replaced 1 transfr with 10 MVA
160	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	12.5	1	12.5	10.07.2019		10MVA replaced with 12.5 MVA
161	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	01/07/2013		
			110/11	10	2	20			
162	Valapad	Thrissur	110/33	16	2	32	Dec-05	9	feeders 7 to 9
			110/11	10	3	30	Dec-00		newly added 1 trasnfr
163	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
164	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 trasnfr
165	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
166	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 trasnfr
			66/11	10	1	10			
167	Vidhya Nagar	Kannur	110/33	16	2	32	11.08.1974, 29.04.17	10	feederes 8 to 10
			110/11	20	2	40			
168	Viyur	Thrissur	110/66	63	2	126	1998	9	feederes 8 to 9
			110/33	16	2	32	2007		
			110/11	12.5	2	25	1998		
169	Vyttila	Kalamassery	110/66	63	1	63	May-05	9	
			110/66	40	1	40			
			110/11	12.5	2	25			
170	Wadakkanchery	Thrissur	110/33	16	1	16	Dec-05	6	
			110/11	12.5	2	25			
171	Walayar	Palakkad	110/22	25	1	25	Mar-11	0	
			110/22	10	1	10			newly added trasnfr
172	West Hill	Kozhikode	110/11	12.5	3	37.5	June/1905	14	feeder 13 to 14
173	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
173+g	Total				565	8701.8		1330	
	110 kV TRANSMISSION SUBSTATION		173		SWITCHYARD	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 transfr

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
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	Ambalavayal	Kozhikode	66/11	10	1	10			New Substation commissioned on 13.02.2021
			33/11	5	1	5			
4	Anju Kunnu	Malappuram	66/11	5	1	5	Nov-12	3	
			66/11	10	1	10	13.6.17		5 MVA replaced with 10
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
			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	Enathu	Pathanamthitta	66/11	10	1	10			newly added
13	Ettumanoor	Poovanthuruthu	66/11	10	3	30	1965	10	feeders 9 to 10
14	Fort Kochi (GIS)	Kalamassery	66/11	10	2	20	12/1/2006	6	
15	Gandhinagar	Poovanthuruthu	66/11	10	3	30	1987	9	feeders 7 to 9
16	Kakkanad (CEPZ)	Kalamassery	66/11	16	2	32	1987	14	
			66/11	10	1	10	10/06/1999		newly added tranfr
17	Kannampully	Palakkad	66/11	4	2	8	1976	4	
			66/11	6.3	2	12.6	01/2016, 03/2017		newly added 2 tranfr
18	Karimanal	Thodupuzha	66/11	6.3	2	12.6	1987	3	newly added tranfr, feeder 2 to 3
			66/11	4	0	0			not in service
19	Karukutty	Thrissur	66/11	10	2	20	1971	9	feeders 8 to 9
20	Karunagappally	Kottarakara	66/11	10	3	30	1994	11	feeders 10 to 11
21	Karuvatta	Alappuzha	66/11	10	2	20	1972	6	
22	Kattanam	Alappuzha	66/11	10	2	20	11/1/2019, 02/2020	4	newly added tranfr 2 nos, feeders 0 to 4
			33/11	5	0	0	'30.10.2010		newly added tranfr 2 nos
23	Kattappana	Thodupuzha	66/11	10	2	20	06/05	7	newly added 1 tranfr, feeder 5 to 7
			66/11	6.3	0	0			not in service
24	Kochu pampa	Pathanamthitta	66/11	4	2	8	01/12/1998	4	
25	Koothattukulam	Poovanthuruthu	66/11	10	1	10	20.6.14	5	
			66/11	6.3	1	6.3	1973		
26	Kottayam (Kanjikuzhy)	Poovanthuruthu	66/11	10	3	30	05/05	11	feeders 9 to 11
27	Kulamavu	Thodupuzha	66/11	4	1	4	1967	4	feeders 3 to 4
28	Kuravilangadu	Poovanthuruthu	66/11	10	2	20	01/01/2005	5	
29	Kuthumunda	Kozhikode	66/11	10	2	20	Prior nos. to 1st plan	7	feeders 6 to 7
30	Kuttanadu	Alappuzha	66/11	10	2	20	1973	8	
31	L A Complex (GIS)	Thiruvananthapuram	66/11	16	2	32	05/05	8	
32	Mananthavady	Kozhikode	66/11	10	2	20	1955	6	
33	Marine Drive GIS	Kalamassery	66/11	16	2	32	01/11/2007	8	
34	Mavoor (Ambalaparamba)	Kozhikode	66/11	6.3	1	6.3	1973	4	
				10	1	10	30.12.17		6.3 MVA replaced with 10
35	Mulavukadu	Kalamassery	66/11	6.3	2	12.6	01/02/2001	3	newly added tranfr 1 nos
			66/11	4	0	0			not in service
36	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
37	Nedumkandom	Thodupuzha	66/33	20	1	20	2006	5	feeders 4 to 5
			66/11	8	1	8			replaced 1 tranfr
			66/11	10	1	10	01/06/2018		newly added tranfr 1 nos
38	Nilambur	Malappuram	66/33	16	1	16	Aug-13	7	feeders 6 to 7
			66/11	10	2	20	1979		

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
39	Njarakkal	Kalamassery	66/11	10	2	20	1973	9	feeders 8 to 9
			66/11	8	1	8			
			66/11	16	1	16	01/03/2019		newly added trasnfr 1 nos
40	NPOL (Thrikkakara)	Kalamassery	66/11	10	1	10	1990	13	feeders 9 to 13
			66/11	8	2	16			
			66/11	16	2	32	01/05/2019		newly added trasnfr 2 nos
41	Odakkali	Thodupuzha	66/11	10	1	10	31.03.2018	5	feeders 3 to 5
42	Palode	Thiruvananthapuram	66/11	10	1	10	2010	6	
			66/11	5	1	5	1980		
43	Panampally Nagar	Kalamassery	66/11	10	2	20	1989	6	
44	Pathirappally	Alappuzha	66/11	10	2	20	1978	9	feeders 8 to 9
45	Peerumedu	Thodupuzha	66/33	16	1	16	2009	7	feeders 6 to 7
			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 trasnfr 2 nos
46	Perumanoor (Shipyard)	Kalamassery	66/11	10	2	20	1972	11	
			66/11	12.5	1	12.5			
47	Powerhouse (GIS)	Thiruvananthapuram	66/11	16	2	32	Jan-05	8	
48	Puthencruz	Kalamassery	66/11	10	3	30	1984	10	feeders 9 to 10
49	Puthiyara (GIS)	Kozhikode	66/11	16	2	32	Mar-04	8	
50	Sultan Bathery	Kozhikode	66/11	10	1	10	1986	6	feeders 4 to 6
			66/11	6.3	1	6.3			
51	Thamarassery	Kozhikode	66/11	10	2	20	1965	7	feeders 6 to 7
52	Thenmala	Kottarakara	66/11	6.3	1	6.3	04/10/2015	5	
53	Thodupuzha	Thodupuzha	66/11	10	3	30	1980	11	feeders 10 to 11
54	Thriveni	Pathanamthitta	66/11	10	2	20	19.03.2021	6	feeders 3 to 6 66/11kV 4 MVA replaced with 66/11kV 10MVA
55	Tripunithura	Kalamassery	66/11	10	2	20	07.02.2018,	6	newly added trasnfr 1 nos, feeders 0 to 6
56	Vandiperiyar	Thodupuzha	66/11	10	2	20	1990	4	
			66/11	6.3	1	6.3			
			66/11	16	1	16	02/19		newly added trasnfr 1 nos
57	Vattiyookavu	Thiruvananthapuram	66/11	10	2	20	Nov-04	10	feeders 5 to 7
58	Vazhathoppu	Thodupuzha	66/11	10	1	10	01/01/2013	7	feeders 8 to 11
			66/11	8	1	8	1966		
59	Vizhinjam	Thiruvananthapuram	66/11	10	2	20	1976	10	feeders 8 to 10
			66/11	4	0	0			not in service
60	Walayar (MCL Quarry)	Palakkad	66/11	10	2	20			
a	Pallivasal	Gen. circle, Meencut	66/11	10	3	30	1940, Feb-12	9	
60+a	Total				146	1479.60		422	
	66 kV TRANSMISSION SUBSTATION		60	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

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
13	Balussery	Kozhikode	33/11	5	1	5	Apr-02	4	replaced one transf
				8	1	8	43709		newly added 1 transf
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 transf, 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	newly added
35	Kalikavu	Malappuram	33/11	5	2	10	Mar-10 31.03.2021	2	New transformer
36	Kallambalam	Thiruvananthapuram	33/11	5	2	10	Jul-08	3	
37	Kallara	Poovanthuruthu	33/11	5	2	10	18.03.2017 25.02.2020		5 MVA added
38	Kalletumkkara	Thrissur	33/11	5	2	10	Nov-05	3	
39	Kalloorkadu	Thodupuzha	33/11	5	2	10	Mar-09	3	
40	Kalpakanery	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	Kannanalloor	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	
49	Kelakam	Kannur	33/11	5	2	10		2	New Substation 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	

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
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	Maruthur (Pattambi)	Palakkad	33/11	5	3	15	23.03.2000 Jan-02	4	Renamed Pattambi 33 kV as Maruthur
72	Mazhuvanoor	Thodupuzha	33/11	5	2	10	Dec-04	3	
73	Meenakshipuram	Palakkad	33/11	5	2	10	Mar-10	2	
74	Meenangady	Kozhikode	33/11	5	2	10	Oct-04	3	
75	Melady	Kozhikode	33/11	5	1	5	Jun-08	3	
				8	1	8	29.08.17		5 MVA nos. to 8 MVA
76	Methala	Thrissur	33/11	5	2	10	Mar-14	2	
77	Mullassery	Thrissur	33/11	5	1	5	Feb-06	3	
78	Mulloorkara	Thrissur	33/11	5	2	10	Jan-08	3	
79	Mundur	Thrissur	33/11	5	2	10	Mar-01	4	
80	Muthalamada	Palakkad	33/11	5	2	10	Dec-03	3	
81	Nadukani	Kannur	33/11	5	1	5	Feb-06	4	
			33/11	8	1	8	09.10.2020		5 MVA replaced with 8 MVA
82	Neeleswaram	Kannur	33/11	5	2	10	Mar-07	4	
83	Nelliampathy	Palakkad	33/11	5	1	5	Jun-05	2	
84	Ochira	Kottarakara	33/11	8	2	16	01.09.2020	4	2x5mVA replaced with 2x8MVA newly added
85	Olavakode	Palakkad	33/11	5	2	10		4	
86	Othukkungal	Malappuram	33/11	5	1	5	Mar-09	2	
87	Padinjarethara	Kozhikode	33/11	5	2	10	Nov-04	3	
88	Paika	Poovanthuruthu	33/11	5	2	10	Mar-10	5	
89	Palakkal	Thrissur	33/11	5	2	10	Mar-08	3	
90	Pallassena	Palakkad	33/11	5	2	10	Sep-11	3	
91	Pandalam	Kollam	33/11	5	3	15		6	New Substation commissioned on 28.03.2019
92	Parappukara	Thrissur	33/11	5	2	10	Aug-03	4	
93	Parappur	Thrissur	33/11	5	2	10	Oct-08	4	
94	Paravoor	Kottarakara	33/11	5	2	10	Nov-12	4	
95	Pariyaram	Thrissur	33/11	5	2	10	Jul-03	4	
96	Pariyaram	Kannur	33/11	5	2	10	Mar-07	4	
97	Pattikadu	Thrissur	33/11	5	2	10	Aug-03	2	
98	Pattoor	Thiruvananthapuram	33/11	5	2	10	18.05.17	1	
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	Perumthenaruvu	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	Pothukallu	Malapuram	33/11	5	1	5	Aug-2020	2	New Substation commissioned on 14.08.2020
110	Pulamanthole	Malappuram	33/11	5	2	10	Nov-04 31.03.2021	2	New transformer
111	Pulpally	Kozhikode	33/11	5	2	10	Dec-04, 4.3.15	2	
112	Puthenvelikara	Kalamassery	33/11	5	2	10	May-06	4	
113	Puthiyatheruvu	Kannur	33/11	5	2	10	Feb-01	3	
114	Puthur	Thrissur	33/11	5	2	10	Mar-01	4	
115	Puthur	Kottarakara	33/11	5	1	5	Aug-10	3	
116	Puthur	Kannur	33/11	5	2	10	Mar-03	3	
117	Rajapuram	Kasargod	33/11	5	2	10		4	New Substation commissioned on 04.03.2020
118	Ramanattukara	Kozhikode	33/11	5	2	10	Nov-09	4	
119	Ramapuram	Poovanthuruthu	33/11	5	2	10	Oct-09, 25.6.14	4	
120	Ranni-Perunad	Pathanamthitta	33/11	5	1	5	Jan-11	4	
121	Senapathy	Thodupuzha	33/11	5	1	5	Oct-14	2	
122	Sreekrishnapuram	Palakkad	33/11	5	2	10	Jan-06	4	
123	Tarur	Palakkad	33/11	5	2	10	Apr-10	3	

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
124	Thakazhy	Alappuzha	33/11	5	2	10	Oct-08	2	
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	2	10	'Jan-14 06.06.2020	2	New transformer
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	2	10	'Dec-09 24.06.2020	2	New transformer
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	Vagamom	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	Valluambram	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	Vilakulam	Thiruvananthapuram	33/11	5	1	5		2	New Substation commissioned on 15.02.2021
156	Vithura	Thiruvananthapuram	33/11	5	2	10	Oct-11	3	
157	Vyddhyuthi Bhavanam-Typm	Thiruvananthapuram	33/11	5	2	10	01/07/2019	3	newly added
158	Vydyuthi bhavan-pkkd	Palakkad	33/11	5	2	10	27-6-2015	4	
159	Wandoor	Malappuram	33/11	5	2	10	Aug-97, Nov-13	3	
160	West Elery	Kannur	33/11	5	1	5	Feb-07	2	
a	Barapole	Gen. Circle, Kakkayam	33/11	5	1	5		1	
b	Vilangand	Gen. Circle, Kakkayam	33/11	5	1	5		1	
160+ b	nos. total				305	1561.00		519	
	33 kV TRANSMISSION SUBSTATION		160	SWITCH YARD	2				

Remarks-Switch yards with outgoing HT feeders included

** Substation not in control of KSEBL(110 kV Mahe and 33 kV Kinfra)

ABSTRACT-EHT

	Transmission substations	Gen. Switch yard with HT feeder	MVA Capacity	HT Feeders
400kV	1+5*	0	1565	8
220kV	27	3	10868	0
110kV	173	7	8702	1330
66kV	60	1	1480	422
EHT S/S	266	11	22615	1760
33kV	160	2	1561	519
TOTAL	426	13	24176	2279

* 5 no. of 400 kV Substations owned by PGCIL

TABLE 35
LIST OF EHV AND 33 kV TRANSMISSION LINES

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
I. 400 kV Lines (PGCIL owned)				
1	Thirunelveli - Pallippuram No.I	Twin Moose	160 (74.9 in Kerala)	PGCIL
2	Thirunelveli - Pallippuram No.II	Twin Moose	160 (74.9 in Kerala)	PGCIL
3	Udumalpet - Elappully No.I	Twin Moose	95.7 (48.1 in Kerala)	PGCIL
4	Udumalpet - Elappully No.II	Twin Moose	95.7 (48.1 in Kerala)	PGCIL
5	Elappully - Madakkathara No.I	Twin Moose	84.78	PGCIL
6	Elappully - Madakkathara No.II	Twin Moose	84.78	PGCIL
7	Madakkathara - Areacode I(KSEBL)	Twin Great hornbill	88.513	(KSEBL)
8	Madakkathara - Areacode II (KSEBL)	Twin Great hornbill	88.513	(KSEBL)
9	Kochi East - HVDC I	Quad Moose	78.2	PGCIL
10	Kochi East - HVDC 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			1329.586	
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 - Kaloore No.I	1200 Sq mm UG+OH (Panther)	11.5	
10	Brahmapuram - Kaloore No.II	1200 Sq mm UG+OH (Panther)	11.5	
11	Brahmapuram - Kochi East No.I	Kundah	6.79	
12	Brahmapuram - Kochi East No.II	Kundah	6.79	
13	Chalakkudy - Madakkathara			
14	Edamon - Edappon	Twin Moose	67.18	
15	Edamon - Kundara	Twin Moose	60.91	
16	Edamon - Pothencode No.I	Kundah	47.69	
17	Edamon - Pothencode No.II	Kundah	47.69	
18	Edamon - Thirunelveli No.I (PGCIL)	Quad Moose	81	
19	Edamon - Thirunelveli No.II (PGCIL)	Quad Moose	81	
20	Elamkur - Areacode	Kundah	16.2	
21	Elappully - Madakkathara	Kundah	82.53	
22	Elappully - Palakkad No.I	Kundah	3.44	
23	Elappully - Palakkad No.II	Kundah	3.44	
24	Elappully - Palakkad No.III	Kundah	3.66	
25	HVDC - Malaparamba I	AAAC Drake	51.29	
26	HVDC - Nallalam	AAAC Drake	104.55	
27	Idukki - Kalamassery No.I	Kundah	68.8	
28	Idukki - Kalamassery No.II	Kundah	68.8	
29	Idukki - Kothamangalam	Kundah/ double panther	44.2	
30	Idukki - Lower Periyar No.I	Kundah	35	
31	Idukki - Lower Periyar No.II	Kundah	35	
32	Idukki - New Pallom	Kundah	50	
33	Idukki - Udumalpet (Inter state)	Kundah	111.6 (84.4 in Kerala)	
34	Kanhirode - Ambalathara	Kundah	62.19	
35	Kanhirode - Thaliparamba	Kundah	28.02	

Table 35 -220 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
36	Kaniyampetta - Kadakola (Inter state)	Kundah	92 (25.4 in Kerala)	
37	Kayamkulam - Edappon	Twin Moose	28.57	
38	Kayamkulam - Kundara	Twin Moose	64.91	
39	Kayamkulam - New Pallom No.I	Zebra	47	
40	Kayamkulam - New Pallom No.II	Zebra	47	
41	Kochi East - Aluva I	Panther	11.45	
42	Kochi East - Aluva II	Panther	11.45	
43	Kochi East - Kalamassery No.I	Kundah	14.4	
44	Kochi East - Kalamassery No.II	Kundah	14.4	
45	Kothamangalam - Aluva		34	
46	Lower Periyar - Brahmapuram No.I	Kundah	58.46	
47	Lower Periyar - Brahmapuram No.II	Kundah	58.46	
48	Lower Periyar - Chalakkudy	Kundah	102	
49	Lower Periyar - Madakkathara	Kundah	102	
50	Madakkathara - Elamkur	Kundah	77.4	
51	Madakkathara - Palakkad	Kundah	82.26	
52	Madakkathara - Shornur	Kundah	29.35	
53	Malaparamba - Areacode I	Kundah	53.83	
54	Malaparamba - Nallalam	AAAC Drake	55.345	
55	New Pallom - Pallom	Twin Moose	0.8	
56	Orkatteri - Kanhirode	Kundah	37.14	
57	Pallippuram - Pothencode No.I	Moose	3.49	
58	Pallippuram - Pothencode No.II	Moose	3.49	
59	Pallippuram - Pothencode No.III	Moose	3.49	
60	Pallippuram - Pothencode No.IV	Moose	3.49	
61	Pallom - Ambalamugal	Kundah	56.3	
62	PGCIL Areacode - 220 kV Areacode No I	Twin Moose	0.225	
63	PGCIL Areacode - 220 kV Areacode No II	Twin Moose	0.225	
64	PGCIL Areacode - 220 kV Areacode No III	Twin Moose	0.225	
65	Pothencode - Kattakkada I	Twin Moose	27.5	
66	Pothencode - Kattakkada II	Twin Moose	27.5	
67	Sabarigiri - Ambalamugal	Kundah	123.5	
68	Sabarigiri - Edamon No.I	Kundah	52.89	
69	Sabarigiri - Edamon No.II	Kundah	52.93	
70	Sabarigiri - Edamon No.III	Kundah	52.93	
71	Sabarigiri - Pallom	Kundah	67.32	
72	Sabarigiri - Theni (Inter state)	Kundah	106.5 (44.8 in Kerala)	
73	Shornur - Areacode	Kundah	72.53	
74	Thaliparamba - Mylatty	Kundah	63.04	
75	Veeyapuram - Punnappa No.I	Zebra	18.1	
76	Veeyapuram - Punnappa No.II	Zebra	18.1	
220kV LINE-Total in Ckt.KM			3141.40	
III. 110 kV Lines				

1	Agasthiamoozhy - Thambalamanna	630 Sq mm UG	11.5	
2	Aluva - Edathala	Wolf	4	
3	Aluva - Kothamangalam	Wolf	34	
4	Aluva-KWA	UG	1.61	
5	Ambalappuram - Kottiyam	Wolf	18.9	
6	Ambalathara - Cheruvathoor	Wolf	19.36	
7	Anchal - Ayoor	Wolf	9	upgraded
8	Angamaly - Kurumassery	Wolf	8.89	
9	Areacode - Keezhissery No.I	Wolf	7.435	
10	Areacode - Keezhissery No.II	Wolf	7.435	
11	Aroor - Mattanchery	Wolf	9.1	
12	Aroor - Thykkattussery	Wolf	15.6	
13	Aruvikkara - Kattakkada	Wolf	11.71	

Table 35 -110 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
14	Athani - Kandassankadavu	Wolf	36.8	
15	Attingal - Paripally No.I	Wolf	15.3	
16	Attingal - Paripally No.II	Wolf	15.3	
17	Autocast (SILK) - SL Puram	Wolf	1.7	
18	Ayarkunnam - MRF	Wolf	6.3	
19	Ayathil - GIS Kollam DC UG No. I	UG Cable	3.75	
20	Ayyampuzha - Chalakudy	Wolf	16.8	
21	Azhikode - WIPL	Wolf	0.23	
22	Bilievers Church - Thrikodithanam	Wolf	4.72	
23	Brahmapuram - FACT (CD) No.I	Wolf	3.8	
24	Brahmapuram - FACT (CD) No.II	Wolf	3.8	
25	Brahmapuram - Kadavanthara	Wolf	10.77	
26	Brahmapuram - Kandanad	Wolf	11.64	
27	Brahmapuram - KINFRA No.I	Wolf	1.85	
28	Brahmapuram - KINFRA No.II	Wolf	1.85	
29	Brahmapuram - New Vyttila	Wolf	7.3	
30	Brahmapuram - Vaikom	Wolf	29.64	
31	Chakkittappara - Nadapuram	Wolf	20	
32	Chalakkudy - Kodungallur	Wolf	20.61	
33	Chalakkudy - Puthukkad	Wolf	15.68	
34	Chalakkudy -Mala	Wolf	12.5	
35	Chalakkudy - Angamaly	Wolf	21.28	
36	Chalakkudy - Carborandum	Wolf	7.3	
37	Chalakkudy - Kodakara	Wolf	7.1	
38	Chalakkudy - Traction S/s, Chalakudy	Wolf	2.3	
39	Chavara - Kavanad No.I	Wolf	9.1	
40	Chavara - Kavanad No.II	Wolf	9.1	
41	Chavara - KMML	Wolf	5.5	
42	Chelari - Parappanangadi	Wolf	15.9	
43	Chemberi - Mattannur	Wolf	31.87	
44	Chengalom- Punnapra	Wolf	29.4	
45	Chengannoor - Bilievers Church	Wolf	16.45	
46	Chengannoor - Edappon No.I	Wolf	14.1	
47	Chengannoor - Edappon No.II	Wolf	14.1	
48	Cherai - North paravur	Wolf	8.08	
49	Cherpu - Irinjalakuda	Wolf	20.84	
50	Cheruvathur - Traction Cheruvathur SC UG	SC UG	2.63	
51	Chevayoor - West Hill	Tiger	12.8	
52	Chevayur - GIS, Gandhioroad	UG	6.3	
53	Chovva-Traction S/s, Kannur South	UG Cable	0.78	
54	Edamon - Ambalappuram	Wolf	29	
55	Edamon - Anchal	Wolf	12	upgraded
56	Edamon - Ayoor	Wolf	21	
57	Edamon - Kilimanoor	Wolf	33.9	
58	Edamon - Paruthippara	Wolf	54	
59	Edamon - Punalur No.I	Wolf	9.89	
60	Edamon - Punalur No.II	Wolf	9.89	
61	Edappal - Kuttippuram	Wolf	26.92	
62	Edappal - Ponnani	Wolf	10.37	
63	Edappally - Kaloore	Wolf	4.43	
64	Edappon - Kayamkulam	Wolf	18.5	
65	Edappon - Kundara	Wolf	31	
66	Edappon - Mavelikkara	Wolf	14	
67	Edappon - Pathanamthitta No.I	Wolf	23.1	
68	Edappon - Pathanamthitta No.II	Wolf	23.1	
69	Edappon - Sasthamkotta	Wolf	18.5	
70	Edarikode - Tirur	Wolf	11.7	

Table 35 -110 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
71	Edathala - Kothamangalam	Wolf	30	
72	Edayar - Binani Zinc No.I	Wolf	1.35	
73	Edayar - Binani Zinc No.II	Wolf	1.35	
74	Edayar - Cherai	Wolf	16.12	
75	Edayar - North Paravur No.I	Wolf	9.41	
76	Eramalloor - Chellanam	Wolf	11.82	
77	Erattupetta - Pala	Wolf	15.9	
78	Erumeli - Mundakkayam	Wolf	17.62	
79	Guruvayur - Kandassankadavu	Wolf	16.3	
80	Idamalayar - Ayyampuzha	Wolf	32	
81	Idamalayar - Malayattoor	Wolf	28.5	
82	Irinjalakuda - Kattoor	Wolf	7.08	
83	Kadavanthara - Traction S/s, Kadavanthara	UG Cable	0.15	
84	Kadavanthara - Willington Island No.I	UG Cable + OH	3.47	
85	Kadavanthara - Willington Island No.II	UG Cable + OH	2.3	
86	Kakkad - Karikkayam	Wolf	10.6	
87	Kakkad - Pathanamthitta	Wolf	28.7	
88	Kakkayam - Chakkittappara	Wolf	9.2	
89	Kakkayam - Kinaloor	Wolf	11.6	
90	Kakkayam - Kuttiady	Wolf	20.2	
91	Kalamassery - Aroor	Wolf	23.5	
92	Kalamassery - Brahmapuram No.I	Wolf	11.6	
93	Kalamassery - Brahmapuram No.II	Wolf	11.6	
94	Kalamassery - Brahmapuram No.III	Wolf	11.6	
95	Kalamassery - Brahmapuram No.IV	Wolf	11.6	
96	Kalamassery - Carborandum	Wolf	33.63	
97	Kalamassery - Edappally	Wolf	7	
98	Kalamassery - Edayar No.I	Wolf	4.2	
99	Kalamassery - Edayar No.II	Wolf	4.2	
100	Kalamassery - FACT (UD) No.I	Wolf	5	
101	Kalamassery - FACT (UD) No.II	Wolf	5	
102	Kalamassery - Kaloor	Wolf	11.9	
103	Kalamassery - Kizhakambalam	Wolf	9.53	
104	Kalamassery - Kurumassery	Wolf	20.1	
105	Kalamassery - Moovattupuzha	Lynx	26.4	
106	Kalamassery - Panangad	Wolf	17	
107	Kalamassery - Perumbavoor	Wolf	19.61	
108	Kalamassery - Vyttila	Wolf	11.58	
109	Kalladikode - Mannarkkad	Wolf	14	
110	Kaloor- Ernankulam North UG	UG	4.1	
111	Kaloor- Ernankulam North UG	UG	4.1	
112	Kandanad - Vaikom	Wolf	18	
113	Kanhangad - Ambalathara	Wolf	6.23	
114	Kanhirode - Mattannur	Wolf	18.71	
115	Kanhirode - Mundayad No.I	Wolf	9.6	
116	Kanhirode - Mundayad No.II	Wolf	9.6	
117	Kanhirode - Sreekanthapuram	Wolf	20.79	
118	Kanjirappally - Erumeli	Wolf	11.81	
119	Kanjirappally - Mundakkayam	Wolf	15	
120	Karikkayam - Maniyar	Wolf	3.9	
121	Kattakkada - Balaramapuram No.I	Wolf	10.2	
122	Kattakkada - Balaramapuram No.II	Wolf	10.2	
123	Kattakkada - Parassala No.I	Wolf	18.98	
124	Kattakkada - Parassala No.II	Wolf	18.98	
125	Kattakkada - Thirumala No.I	Wolf	9.24	
126	Kattakkada - Thirumala No.II	Wolf	9.24	
127	Kattoor - Valappad	Wolf	11.16	

Table 35 -110 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
128	Kazhakkuttam - Traction S/s, Kazhakkuttam	Wolf	0.87	
129	Keezhissery - Malappuram No.I	Tiger	18.1	
130	Keezhissery - Malappuram No.II	Wolf	18.1	
131	Kilimanoor - Paruthippara	Wolf	39.9	
132	Kinaloor - Chevayoor	Wolf	24.1	
133	Kizhakambalam - Moovattupuzha	Wolf	16.87	
134	Kodimatha -Punnapra	Wolf	28.96	
135	Koduvally - Kakkayam	Wolf	24.3	
136	Kollengode - Nennmara	Wolf	19	
137	Kollengode - Vadakkenchery	Wolf	39	
138	Koottanad - Edappal	AAAC	15.26	
139	Kothamangalam - Marady	Wolf	12.5	
140	Kottarakkara - Kundara	Wolf	13.5	
141	Kottiyam - Kundara	Wolf	16.9	
142	Kozhenchery - Ranni	Wolf	13.4	
143	Kozhinjampara - Kollengode	Wolf	24.28	
144	Kubanur - Manjeswaram	Wolf	12.6	
145	Kubanur - Traction Uppala		5.3	
146	Kundara - Ayathil No.I	Wolf	13	
147	Kundara - Ayathil No.II	Wolf	13	
148	Kundara - Chavara	Wolf	26	
149	Kundara - Parippally No.I	Wolf	24	
150	Kundara - Parippally No.II	Wolf	24	
151	Kundara - Perinadu	Wolf	9	
152	Kundara - Traction Perinad No.I	Wolf	7	
153	Kundara-Technopark	UG	2.6	
154	Kunnamangalam - Agasthiamoozhy No.I	AAAC	9.5	
155	Kunnamangalam - Agasthiamoozhy No.II	AAAC	9.5	
156	Kunnamangalam - Koduvally	Wolf	7.4	
157	Kunnamangalam - Kuttikkattoor	Wolf	5.6	
158	Kunnamkulam - Guruvayur	Wolf	5.9	
159	Kunnamkulam - Punnayurkulam No.I	AAAC	15.2	
160	Kunnamkulam - Punnayurkulam No.II	AAAC	15.2	
161	Kuthuparamba - Valiavelicham	Wolf	8.399	
162	Kuthupramba - Nedumpoil	Wolf	18.93	
163	Kuttiady - Kanhirode	Wolf	54.3	
164	Kuttiapuram - Tirur	Wolf	22.33	
165	Madakkathara - Athani	Wolf	10.9	
166	Madakkathara - Cherpu	Wolf	19.7	
167	Madakkathara - Kodakara	Wolf	24.2	
168	Madakkathara - Kunnamkulam	Wolf	27.4	
169	Madakkathara - Ollur	Wolf	15.7	
170	Madakkathara - Shornur	Wolf	30.2	
171	Madakkathara - Valappad	Wolf	28.1	
172	Madakkathara - Viyyur No.I	Wolf	10.2	
173	Madakkathara - Viyyur No.II	Wolf	10.2	
174	Madakkathara - Wadakkanchery	Wolf	15.09	
175	Mala - Kodungallur	Mink	7.36	
176	Malampuzha - Kalladikode	Wolf	19.25	
177	Malaparamba - Koppam	Tiger	10	
178	Malaparamba - Kuttippuram No.I	Wolf	18.1	
179	Malaparamba - Kuttippuram No.II	Wolf	18.1	
180	Malaparamba - Malappuram No.I	Tiger	14	
181	Malaparamba - Malappuram No.II	Tiger	14	
182	Malaparamba - Shornur	Tiger	24	
183	Malappuram - Edarikode	Wolf	13.5	
184	Malappuram - Manjeri	Wolf	14	

Table 35 -110 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
185	Malappuram -Tirur	Wolf	26	
186	Malayattoor - Rayonpuram	Wolf	12	
187	Mallappally - Chengannoor	Wolf	24.3	
188	Mangad - Azhikode	Wolf	14.2	
189	Maniyar - Pathanamthitta	Wolf	18	
190	Manjeri - Elamkur	Wolf	4.7	
191	Manjeswaram - Konaje (Inter state)	Wolf	13.9 (7.4 in Kerala)	
192	Marady - Koothattukulam	Wolf	9.3	
193	Mattanchery - Chellanam	Wolf	11.1	
194	Mattannur - Iritty No.I	Wolf	13	
195	Mattannur - Iritty No.II	Wolf	13	
196	Mavelikkara - Kayamkulam	Wolf	14	
197	Meppayur - West hill	Wol f/Tiger	33.27	
198	Moovattupuzha - Myloor (Pothanikad)	Lynx	10.56	
199	MRF - Pallom	Wolf	8.6	
200	Mundayad - Azhikode	Tiger	13.3	
201	Mundayad - Chovva	Wolf	3.1	
202	Mundayad - Pinarayi	Tiger	11.3	
203	Mylatty - Kanhangad	Tiger	14.8	
204	Mylatty - Vidyanagar	Tiger	11.9	
205	Myloor (Pothanikad) - Adimali	Lynx	34.92	
206	Nadapuram - Kanhirode	Wolf	45.3	
207	Nallalam - Chelari	Tiger	12.319	
208	Nallalam - Chevayur No.I	Wolf	7.5	
209	Nallalam - Chevayur No.II	Wolf	8.2	
210	Nallalam - Keezhissery	Tiger	20.4	
211	Nallalam - Kunnamangalam	Wolf	19.6	
212	Nallalam - Steel Complex	Tiger	0.8	
213	Nenmara - Vadakkenchery	Wolf	20	
214	Neriamangalam - Adimali	Lynx	10.49	
215	Neriamangalam - Kuthungal No.I	Wolf	16.5	
216	Neriamangalam - Kuthungal No.II	Wolf	16.5	
217	Neriamangalam - Moovattupuzha	Lynx	51	
218	Neriamangalam - Pala	Wolf	37.8	
219	Neriamangalam - Sengulam	Lynx	5.8	
220	New Vytila - Kadavanthara	Wolf	3.47	
221	Neyyattinkara - Balaramapuram No.I	Wolf	4.3	
222	Neyyattinkara - Balaramapuram No.I	Wolf	4.3	
223	Ollur - Puthukkad	Wolf	12.83	
224	Orkatteri - Meppayur	AAAC/Wolf	24.66	
225	Orkatteri - Panoor	Tiger	11.27	
226	Orkatteri - Vadakara	AAAC/Wolf	8.9	
227	Ottappalam - Cherpulassery No.I	Wolf	18.95	
228	Ottappalam - Cherpulassery No.II	Wolf	18.95	
229	Ottappalam - Pazhayannur	Wolf	11.2	
230	Ottappalam - Vadakkanchery	Wolf	27	
231	Ottappalam - Vennakkara	Wolf	28.96	
232	Pala - Ayarkunnam No.I	Wolf	13.5	
233	Pala - Ayarkunnam No.II	Wolf	13.5	
234	Palakkad - Kanjikode No.I	Wolf	5.46	
235	Palakkad - Kanjikode No.II	Wolf	5.46	
236	Palakkad - Kollengode	Wolf	26.5	
237	Palakkad - Kozhinjampara	Wolf	10.61	
238	Palakkad - Traction, Kanjikode	Wolf	3.15	
239	Palakkad - Vennakkara No.I	Wolf	20.86	
240	Palakkad - Vennakkara No.II	Wolf	20.86	
241	Palakkad - Walayar No.I	Wolf	6.35	

Table 35 -110 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
242	Palakkad - Walayar No.II	Wolf	6.8	
243	Palakkad - INOX Air (Deposit Work - UG Cable)	Wolf	1.2	
244	Pallom - Ayarkunnam	Wolf	14.9	
245	Pallom - Chengalam	Wolf	14.1	
246	Pallom - Kanjirappally	Wolf	29	
247	Pallom - Kodimatha	Wolf	4.54	
248	Pallom - Mallappally	Wolf	32.2	
249	Pallom - Pambady	Wolf	12.5	
250	Pallom - Thrikodithanam	Wolf	12.5	
251	Pambady - Mundakkayam	Wolf	26	
252	Panangad - Aroor	Wolf	6.5	
253	Panniar - Sengulam No.I	Wolf	0.5	
254	Panniar - Sengulam No.II	Wolf	0.5	
255	Panoor - Mahe No.I	Wolf	2.4	
256	Panoor - Mahe No.II	Wolf	2.4	
257	Parali - Vennakkara	Wolf	9.5	
258	Parappanangadi- Keezhissery	Wolf	32.9	
259	Parassala - Kuzhithura (Inter state)	Mink	4.83	
260	Parassala - Neyyattinkara No.I	Wolf	11	
261	Parassala - Neyyattinkara No.II	Wolf	11	
262	Paripally - Varkala No.I	Wolf	9.8	
263	Paripally - Varkala No.II	Wolf	9.8	
264	Paruthippara - Medical College No.I	Wolf	2.87	
265	Paruthippara - Medical College No.II	Wolf	2.87	
266	Pathanamthitta - Kozhenchery	Wolf	11.9	
267	Pathanamthitta - Ranni	Wolf	25.38	
268	Pathanapuram - Koodal	Wolf	8.23	
269	Pathiripala - Parali	Wolf	11.2	
270	Payangadi - Ezhimala No.I	Wolf	7.2	
271	Payangadi - Ezhimala No.II	Wolf	7.2	
272	Payyannur - Cherupuzha No.I	Wolf	21.6	
273	Payyannur - Cherupuzha No.II	Wolf	21.6	
274	Payyannur - Cheruvathur	Tiger	13.6	
275	Pazhayannur - Vadakkanchery	Wolf	15.8	
276	Perinadu - Traction Perinadu	Wolf	2.1	
277	Pinarayi - Thalassery I	Tiger	9.1	
278	Pinarayi - Thalassery II	Wolf	9.1	
279	Ponnani - Tirur	Wolf	29.03	
280	Poringalkuthu - Chalakudy No.I	Tiger	32.5	
281	Poringalkuthu - Chalakudy No.II	Tiger	32.5	
282	Poringalkuthu - Sholayar	Wolf	12.9	
283	Pothencode - Aruvikkara	Wolf	19.2	
284	Pothencode - Attingal No.I	Wolf	10.2	
285	Pothencode - Attingal No.II	Wolf	10.2	
286	Pothencode - Kattakkada	Wolf	29.7	
287	Pothencode - Paruthippara No.I	Wolf	10.39	
288	Pothencode - Paruthippara No.II	Wolf	10.39	
289	Pothencode - Technopark No.I	Wolf	5.87	
290	Pothencode - Technopark No.II	Wolf	5.87	
291	Pullazhy - Kandassankadavu	Wolf	11.4	
292	Punalur - Koodal	Wolf	19.5	
293	Punalur - Kottarakkara	Wolf	20.1	
294	Punalur - Kundara	Wolf	33.6	
295	Punalur - Pathanapuram	Wolf	12.25	
296	Punnappa - Autocast	Wolf	26.6	
297	Punnappa - Edathua No.I	Wolf	15.7	

Table 35 -110 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
298	Punnapra - Edathua No.II	Wolf	15.7	
299	Punnapra - Traction S/s, Punnapra	Wolf	0.47	
300	Rayonpuram - Perumbavoor	Wolf	1.5	
301	Sasthamkotta - KMML	Wolf	18.1	
302	Sengulam - Udumpanoor	Wolf	18.5	
303	Sholayar - Chalakudy	Wolf	53.1	
304	Shornur - Edappal	Wolf	31.6	
305	Shornur - Koottanad	AAAC	17.86	
306	Shornur - Koppam	Tiger	14.5	
307	Shornur - Ottappalam	Wolf	13.6	
308	Shornur - Pathiripala	Wolf	26.3	
309	Shornur - Traction Shornur	Tiger	4.98	
310	SL Puram - Eramalloor	Wolf	23.16	
311	SL Puram - Punnapra	Wolf	27.85	
312	Sreekantapuram - Chemberi	Wolf	10.34	
313	Tap No.I to Aluva from KLCB feeder	Wolf	2	
314	Tap No.I to BSES from KLKA feeder	Wolf	1.3	
315	Tap No.I to CIAL from KLCB feeder	Wolf	1.81	
316	Tap No.I to CSEZ from KLBR No.I feeder	Wolf	0.05	
317	Tap No.I to HNL from BRVK feeder	Wolf	8.7	
318	Tap No.I to IAC from KLED No.I feeder	Wolf	0.05	
319	Tap No.I to Nedumangad from PCAV feeder	Wolf	0.2	
320	Tap No.I to Piravam from HNL Tap No.I	Wolf	7.7	
321	Tap No.I to Rubber Park from KLMV feeder	Wolf	2.1	
322	Tap No.I to TCC from KLFA No.I feeder	Wolf	0.8	
323	Tap No.II to Aluva from KLKR feeder	Wolf	2	
324	Tap No.II to BSES from KLEP feeder	Wolf	1.3	
325	Tap No.II to CIAL from CHKR feeder	Wolf	1.81	
326	Tap No.II to CSEZ from KLBR No.II feeder	Wolf	0.05	
327	Tap No.II to HNL from KNVK feeder	Wolf	8.7	
328	Tap No.II to IAC from KLED No.II feeder	Wolf	0.05	
329	Tap No.II to Nedumangad from PCKK feeder	Wolf	0.2	
330	Tap No.II to Piravam from HNL Tap No.II	Wolf	7.7	
331	Tap No.II to Rubber Park from KZMV feeder	Wolf	2.1	
332	Tap No.II to TCC from KLFA No.II feeder	Wolf	0.8	
333	Tap No.III to BSES from KLED No.I feeder	Wolf	0.8	
334	Tap No.IV to BSES from KLED No.II feeder	Wolf	0.8	
335	Tap to Arangottukara from SHED feeder	Wolf	0.5	
336	Tap to BPCL from BRFA No.II feeder	Wolf	2.81	
337	Tap to Chingavanam Traction from PLTN feeder	Wolf	1.7	
338	Tap to Co-op. Med. College from KLBR No.II	Wolf	0.04	
339	Tap to GTN Textiles from KLPM feeder	Wolf	0.86	
340	Tap to IPRK from SL- Chellanam	Wolf	0.125	
341	Tap to koyilandy from Meppayur - West hill	Wolf	0.6	
342	Tap to Kuthuparamba from Parambai	Wolf	6.7	
343	Tap to Melattur from MRML No.II	Tiger	20.3	
344	Tap to MPS Steel from PKKE feeder	Wolf	0.05	
345	Tap to Paper Mill from PNKU feeder	Wolf	1.4	
346	Tap to Paragon Steel from PKKJ No.II	Wolf	0.05	
347	Tap to PATSPIN from PKKJ No.II	Wolf	0.05	
348	Tap to Perinthalmanna from Malaparamba - Melattur	Wolf	10	
349	Tap to Petronet from BRFA No.I feeder	Wolf	2.81	
350	Tap to Precot Meridian from WLMC No.II	Wolf	0.22	
351	Tap to Sasthamkotta from EPKD feeder	Wolf	0.5	
352	Tap to Technopark Ph.II from TPTE No.I	Wolf	0.05	

Table 35 -110 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
353	Tap to TECIL from PLTN feeder	Wolf	2.12	
354	Tap to Thiruvalla from Mallappally - Chengannoor	630 Sq mm SC UG	0.38	
355	Tap to Thrissur Corpn. from VIPL feeder	Wolf	1.6	
356	Technopark - TERLS No.I	Wolf	4.53	
357	Technopark - TERLS No.II	Wolf	4.53	
358	TERLS - VELI	Wolf	8	
359	TERLS -VSSC I	Wolf	0.8	
360	TERLS -VSSC I	Wolf	0.8	
361	Thalassery - Panoor	Tiger	9.1	
362	Thaliparamba - Mangad	Wolf	10.5	
363	Thaliparamba - Payangadi No.I	Wolf	9.5	
364	Thaliparamba - Payangadi No.II	Wolf	9.5	
365	Thaliparamba - Payyannur	Wolf	25.6	
366	Thykkattussery - SL Puram	Wolf	16.15	
367	Udumpannoor - Erattupetta	Wolf	28.4	
368	Vadakara - Koyilandy	Wolf	23.2	
369	Veli - Muttathara	630 Sq mm SC UG	8.45	
370	Vennakkara - Malampuzha	Wolf	10.25	
371	Vidyanagar - Kubanur	AAAC	21.7	
372	Vidyanagar - Mulleria No.I	Wolf	17.8	
373	Vidyanagar - Mulleria No.I	Wolf	17.8	
374	Viyyur - Kandassankadavu	Wolf	15.7	
375	Viyyur - Pullazhy	Wolf	6.96	
376	Vytilla - New Vytilla UG	UG Cable	0.71	
377	Wadakkanchery - Shornur	Wolf	16.56	
378	Walayar - Malabar Cement No.I	Wolf	4.41	
379	Walayar - Malabar Cement No.II	Wolf	4.63	
380	West Hill - GIS, Kozhikode	630Sq.mm Al	7.14	
381	West Hill -Traction Elathur	400 Sq mm UG Cable	4.4	
382	Willington Island - Port Trust	UG Cable	2.31	
110kV LINE-Total in Ckt.KM			5030.86	
IV. 66 kV Lines				
1	Adoor - Pathanamthitta	Mink	12.6	
2	Adoor- Enathu	Wolf	11.4	
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	Ambalavayal - Sulthan Bathery	Mink/Wolf	10.5	
10	Aroor - Mattanchery	Dog	8.9	
11	Attingal - Palode	Mink	19.4	
12	Chalakkudy - Aluva I	Mink	26.78	
13	Chalakkudy - Aluva II	Mink	26.78	
14	Chalakkudy - Ollur	AAAC	23.8	
15	Chalakkudy - Viyyur	AAAC	34.5	
16	Chevayur - Puthiyara	400 Sq.mm XLPE	4.4	
17	Chumathra - Thiruvalla	Dog	7.25	
18	Edappon - Adoor No.I	Dog	16	
19	Edappon - Adoor No.II	Dog	16	
20	Edappon - Mavelikkara No.I	Dog	10.8	
21	Edappon - Mavelikkara No.II	Dog	10.8	
22	Ettumanur - Gandhi Nagar	Dog	8	
23	Ettumanur - Pala	Dog	16.2	
24	Ettumanur - Pallom	Dog	17	

Table 35 -66 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
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	
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	Panther	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	
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	

Table 35 -66 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
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 - Vattiyookavu	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	
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 Ambalavayal from KNKU feeder	Mink/Wolf	18.036	
129	Tap to Aroor from VKCT feeder	Dog	13.8	
130	Tap to Carborandum from KLPR No.II feeder	Mink	2.6	

Table 35 -66 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
131	Tap to Cyber park from Nallalam - Kuttikkattoor	Wolf	0.225	
132	Tap to Edamula KRL Pumphouse from KLAL feeder	Dog	1.9	
133	Tap to Gwalior Rayons from Ambalaparamba Tap line	Mink	0.6	
134	Tap to HMT from KLVT feeder	Mink	0.37	
135	Tap to INDSIL from KJCI No.I feeder	Dog	0.1	
136	Tap to Iruttukanam PH from PVKR feeder	Wolf	1.25	
137	Tap to Kannampully from VNNM feeder	Mink	0.05	
138	Tap to Koothattukulam from MLTD feeder	Mink	11.3	
139	Tap to Kottayam from ETPL feeder	Dog	0.3	
140	Tap to Kulamavu from SGML feeer	Mink	1.35	
141	Tap to Kuravilangad	Dog	0.9	
142	Tap to Madura Coats from CHAL feeder	Copper	0.85	
143	Tap to Mulavukad from KLNJ No.II feeder	Dog	0.1	
144	Tap to Nangiarkulangara from KVMV feeder	Dog	0.01	
145	Tap to Palakkad Medical College from VNKJ feeder	Mink	0.1	
146	Tap to PRECOT Mills from VNKJ No.I feeder	Dog	1.0	
147	Tap to SEPR from KJMQ feeder	Mink	1.1	
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	Vattiyoor kavu - 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	
168	Viyyur - 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			2004.79	
V. 33 kV Lines				
1	Adyanpara - Pothukallu	Dog	9.5	
2	Agastyamoozhi - Thambalamanna No.I	Dog	8.6	
3	Agastyamoozhi - Thambalamanna No.II	Dog	8.6	
4	Agastyamoozhi - Vellannur	Dog	8.3	
5	Ambalappuram - Chengamanad	Dog	12.5	
6	Ambalappuram - Ezhukone	Dog	4.6	
7	Ambalappuram - Pooyappally	Dog	11.2	
8	Ambalappuram - Puthur (Kollam)	Dog	10.4	

Table 35 -33 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
9	Anchangady - Methala	Dog	9.6	
10	Athani - Erumappetty	Dog	13	
11	Athani - Mundoor	Dog	8	
12	Attingal - Kacheri UG Cable	UG	4.8	
13	Attingal - Kadakkavur	Dog	11	
14	Attingal - Venjaramoodu	Dog	10.4	
15	Azhikode - Coast Guard	UG	13.74	
16	Azhikode - Kannur Town	Dog	5.3	
17	Belur - Rajapuram	Dog	15.36	
18	Chalakydy - Kallettumkara	Dog	11.8	
19	Chalakydy - Koratty	Dog	6.9	
20	Chalakydy - Pariyaram (Thrissur)	Dog	7.8	
21	Chalakydy - Vellikulangara	Dog	12.9	
22	Chavakkad (Punna) - Blangad	Dog(OH+UG)	6.8	
23	Chelari - KINFRA No.I	Dog	2.5	
24	Chelari - KINFRA No.II	Dog	2.5	
25	Chembukadavu-II PH - Chembukadavu-I PH	Dog	1.1	
26	Chengannur - Mannar	Dog	11.3	
27	Cherpu - Chirakkal	Dog	5.8	
28	Cherpu - Palakkal	Dog	5.4	
29	Cheruvathur - Thrikkarippur	Dog	11.2	
30	Cheruvathur - West Elery	Dog	17.5	
31	Edappon - Kattanam	Dog	9.2	
32	Edappon - Pandalam	Dog	8	
33	Edarikode - Kooriyad (Kakkad)	Dog	8	
34	Edarikode - Othukungal	Dog	8.1	
35	Edarikode - Thirunavaya	Dog	23	
36	Edathua - Kadapra	Dog	9.2	
37	Edavanna - Wandoor	Dog	12.5	
38	Guruvayoor - Chavakkad	Dog	6.7	
39	Irinjalakuda - Parappukara No.I	Dog	11.6	
40	Irinjalakuda - Parappukara No.II	Dog	11.6	
41	Irinjalakuda - Vellangallur	Dog	6.6	
42	Iritty-Barapole 1	UG	14.7	
43	Iritty-Barapole 2	UG	14.7	
44	Kaduthuruthy - Kallara	Dog	7.7	
45	Kaipamangalam - Anchangady No.I	Dog	8.6	
46	Kaipamangalam - Anchangady No.II	Dog	8.6	
47	Kaloor - Lulu Mall No.I	300 Sq.mm XLPE	5.38	
48	Kaloor - Lulu Mall No.II	300 Sq.mm XLPE	5.38	
49	Kaloor - Lulu Mall No.III	300 Sq.mm XLPE	5.38	
50	Kaloor - Thammanam UG Cable	300 Sq.mm XLPE	4	
51	Kandassankadavu - Mullassery	Dog	7.6	
52	Kandassankadavu - Vadanappilly	Dog	4.2	
53	Kanhangad - Belur	Dog	11.5	
54	Kanhangad - Neeleswaram	Dog	10.5	
55	Kanhangad - Solar Park Ambalathara	Dog	12.4	
56	Kanhangad - Kanhangad Town	Dog	6.85	
57	Kanhirode - Kuttiyattoor	Dog	8.9	
58	Kanhirode - Pazhassi	Dog	18.7	
59	Kaniyampetta - Kalpetta	Dog	10.8	
60	Kaniyampetta - Meenangadi	Dog	11.5	
61	Kaniyampetta - Padinjarethara	Dog	17.8	
62	Kaniyampetta - Pulpally	Dog	26	
63	Kattanam - Vallikunnam	Dog	8.5	
64	Kayamkulam - Oachira	Dog	11	
65	Keezhissery - Chelari	Dog	14	

Table 35 -33 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
66	Keezhissery - Edavanna	Dog	19	
67	Keezhissery - Valluvambram	Dog	8	
68	Kilimanoor - Kadakkal	Dog	9.5	
69	Kilimanoor - Kallambalam	Dog	15	
70	Kollenkode - Koduvayur	Dog	11.7	
71	Kollenkode - Muthalamada	Dog	9.7	
72	Kollenkode - Nellyampathy	Dog	9.5	
73	Kollenkode - Pallassena	Dog	8.7	
74	Koottanad - Chalissery	Dog	4.5	
75	Koottanad - Thrithala	Dog	5.3	
76	Koppam - Pattambi	Dog	10.1	
77	Koppam - Thazhekode	Dog	18	
78	Koppam - Thiruvegappura	Dog	13.2	
79	Kottiyam - Adichanallur	Dog	10	
80	Kottiyam - Kannanallur	Dog	8	
81	Kottiyam - Paravoor	Dog	4.7	
82	Koyilandi - Balussery	Dog	12.5	
83	Kozhinjampara - Meenakshipuram	Dog	16	
84	Kozhinjampara - Vannamada	Dog	4	
85	Kozhinjampara - Velanthavalam	Dog	9.2	
86	Kunnamangalam - Vellannur	UG	5	
87	Kunnamkulam - Kongannur	Dog	9.4	
88	Kurumassery - Puthenvelikkara	Dog	7.2	
89	Kurumassery 110 - Kurumassey 33	Dog	1.2	
90	Kurumassery-Annamanada	Dog	9.1	
91	Kuthunkal-Senapathy	Dog	16.79	
92	Kuttipuram - Thirunavaya	Dog	16.5	
93	Kuttipuram - Vairamkode	Dog	11	
94	Kuttiyadi - Poozhithodu PH	Dog	14	
95	LILO to Mundur	Dog	0.715	
96	Makkaraparamba - Pulamanthole	Dog	16	
97	Malappuram - Makkaraparamba	Dog	8.7	
98	Malappuram - Valluvambram	Dog	11.3	
99	Malayattoor - Kalady	Dog	6.3	
100	Malayattoor - Koovapady	Dog	4.2	
101	Mallappally - Karukachal	Dog	7.1	
102	Mallappally - Kumbanad	Dog	10.5	
103	Mannarkkad - Agali No.I	Dog	28.5	
104	Mannarkkad - Agali No.II	Dog	28.5	
105	Mannarkkad - Alanellur	Dog	16.2	
106	Mattannur - Kuyiloor (KWA) No.I	Dog	4.6	
107	Mattannur - Kuyiloor (KWA) No.II	Dog	4.6	
108	Mattannur- KIAL 33 DC	Dog	12.4	
109	Medical college, TVM - Pattoor SC UG	UG	3.3	
110	Medical college, TVM - Vidyuthi Bhavanam	UG	4	
111	Melattur - Thazhekode	Dog	23	
112	Melattur - Wandoor	Dog	18.7	
113	Meppayur - Melady	Dog	9.4	
114	Meppayur - Perambra	Dog	8	
115	Moovattupuzha - Kalloorkkad	Dog	14	
116	Moovattupuzha - Mazhuvannur	Dog	4.8	
117	Mulleria - Badiyadka	Dog	12.5	
118	Mulleria - Perla	Dog	15.8	
119	Mulloorkara - Chelakkara	Dog	8.4	
120	Mundakkayam - Koottikkal	Dog	8.09	
121	Mundayad - Puthiyatheru	Dog	6.5	
122	Mundayad - Thottada	Dog	8.8	

Table 35 -33 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
123	Nadukani - Alakode	Dog	16.7	
124	Nallalam - Feroke	(OH+UG)	7.5	
125	Nedumangad - Aryanadu (OH+UG,10.03+.45)	OH+UG	10.48	
126	Nedumangad - Chullimanur	Dog	5.8	
127	Nedumangad - Vithura No.I	Dog	12.6	
128	Nedumangad - Vithura No.II	300 sq.mm XLPE	12.6	
129	Nedumangad to LPSC SC UG	UG	5.1	
130	Nedumkandam - Ramakkalmedu No.I	Dog	8	
131	Nedumkandam - Ramakkalmedu No.II	Dog	8	
132	Nedumkandam - Vandamedu	Dog	21	
133	Nedumpoil - Kelakom	UG	10.3	
134	Nilambur - Adyanpara SC line	Dog	13.5	
135	Nilambur - Pookkottumpadam	Dog	7.8	
136	North Parur - Alangad	Dog	9	
137	North Parur - Vadakkekara	Dog	9.3	
138	North Parur - Varappuzha	Dog	8.5	
139	Ollur - Pattikkad	Dog	16	
140	Ollur - Puthur (Thrissur)	Dog	4.3	
141	Pala - Kidangoor	Dog	9.6	
142	Pala - Paika	Dog	10	
143	Pala - Ramapuram	Dog	10	
144	Palakkad Vydhyuthi Bhavan - Olavakkode	Covered conductor/ABC	2.78	
145	Panoor - Kodyeri	Dog	6.5	
146	Panoor - Puthur (Kannur)	Dog	8.9	
147	Parali - Kongad	Dog	12	
148	Parali - Maniyampara	Dog	8	
149	Parali - Sreekrishnapuram	Dog	30	
150	Parappur - Mullassery	Dog	7.5	
151	Parassala - Poovar	Dog	15.5	
152	Parassala - Vellarada	Dog	14.5	
153	Pathanamthitta - Konny	Dog	8.3	
154	Pathanamthitta - Ranni Perinad	Dog	18.6	
155	Payyannur - Payyannur Town	Dog	5.3	
156	Peerumedu - Upputhara	Dog	21.5	
157	Peerumedu - Vagaman	Dog	17	
158	Perumbavoor - Kurupampady	Dog	8.5	
159	Perumbavoor - Vengola	Dog	4.8	
160	Pinarayi - Dharmadom	Dog	5.5	
161	Pinarayi - Tholambra	Dog	31.7	
162	Pinarayi - Thottada	Dog	10.5	
163	Punnapra - Kalarcode	Cov C	4.5	
164	Punnapra - Thakazhy	Dog	11.4	
165	Ranni - Manimala	Dog	18.5	
166	Ranni - Perumthenaruvi	OH+UG	13.06	
167	Santhinagar - Pookkottumpadam Tap	Dog	10	
168	Tap from Edarikode - Thirunavaya to Kalpakaknchery	Dog	0.8	
169	Tap Line from Nedumangad -Vithura	Dog	0.82	
170	Tap to Alanellur from METZ feeder	Dog	6	
171	Tap to Pulamanthole from KPTZ feeder	Dog	2	
172	Tap to Ramanattukara from CLRA No.I feeder	Dog	5.92	
173	Tap to Ranni perunadu	UG	9.24	
174	Tap to Veliambra from Mattannur Kuyiloor	Dog	0.5	
175	Thaliparamba - Nadukani No.I	Dog	12.5	
176	Thaliparamba - Nadukani No.II	Dog	12.5	
177	Thaliparamba - Pariyaram (Kannur)	Dog	9.2	
178	Thambalamanna - Chembukadavu-II PH	Dog	11	

Table 35 -33 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
179	Thambalamanna - Urumi	Dog	5.3	
180	Thirumala - Karamana	300 sq.mm XLPE	4.5	
181	Thirumala - Peyad	300 sq.mm XLPE	7	
182	Thirunavaya - Thrikkannapuram (Thavanur)	Dog	3.1	
183	Thrikodithanam - Vakathanam	300sq.mmXLPE+Dog	8.7	
184	Thycattussery - Kuthiyathodu No.I	Dog	6	
185	Thycattussery - Kuthiyathodu No.II	Dog	6	
186	Udumpannoor - Vannapuram	Dog	17	
187	Urumi - Urumi-II PH	Dog	0.2	
188	Urumi-II PH - Urumi-I PH	Dog	0.82	
189	Vadakara - Thiruvallur	Dog	9.6	
190	Vadakkenchery - Alathur	Dog	13.6	
191	Vadakkenchery - Chittadi	Dog	12.5	
192	Vadakkenchery - Tarur	Dog	11	
193	Vaikom - Kaduthuruthy No.I	Dog	10	
194	Vaikom - Kaduthuruthy No.II	Dog	10	
195	Valappad - Anthikadu No.I	Dog	6.2	
196	Valappad - Anthikadu No.II	Dog	6.2	
197	Valappad - Kaipamangalam No.I	Dog	10.7	
198	Valappad - Kaipamangalam No.II	Dog	10.7	
199	Vandiperiyar - Kumily	Dog	17	
200	Varkala - Vilakulam	300 sq.mm UG (3.7)+ OH (1.8)	5.5	
201	Vennakkara- Palakkad Vydhyuthi Bhavan	UG Cable + OH	5	
202	Vidyanagar - Ananthapuram	Dog	9.3	
203	Vidyanagar - Kasargod Town	Dog	5	
204	Vilangad HEP-Nadapuram	300 Sq.mm XLPE	14.5	
205	Vithura - IISER	300 sq.mm XLPE	13.4	
206	Viyyur - Parappur No.I	Dog	13	
207	Viyyur - Parappur No.II	Dog	13	
208	Viyyur - Poomala	Dog	11	
209	Wadakkanchery - Mulloorkara	Dog	7.5	
210	Wandoor - Kalikavu	Dog	14	
	33kV LINE-Total in Ckt.KM		2108.005	
	Grand Total		13614.64	

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	1991-92	7.80	0.64	35.25	22.99	76.93	55.65
2	1992-93	8.11	0.54	27.89	15.69	75.95	49.65
3	1993-94	8.83	0.56	41.43	28.24	93.05	64.91
4	1994-95	9.55	0.93	44.65	30.29	96.91	65.70
5	1995-96	10.64	1.31	49.50	35.02	115.94	79.54
6	1996-97	14.79	1.01	67.26	46.84	144.71	96.88
7	1997-98	32.95	4.82	95.46	69.13	175.89	125.82
8	1998-99	33.07	12.18	92.38	67.95	173.30	125.88
9	1999-00	47.70	23.07	125.01	95.13	211.05	156.87
10	2000-01	64.84	34.26	183.36	149.66	286.17	223.75
11	2001-02	220	195	251	210	341	281
12	2002-03	262	254	319	266	417	352
13	2003-04	284	255	330	279	422	400
14	2004-05	217	195	260	220	347	289
15	2005-06	193	175	233	201	352	304
15	2006-07	179	173	213	202	368	336
16	2007-08	207	202	243	234	393	369
17	2008-09	321	321	349	347	474	447
18	2009-10	291	291	320	319	457	438
19	2010-11	289	289	321	319	472	466
20	2011-12	305	301	332	326	493	455
21	2012-13	487	480	515	501	666	632
22	2013-14	417	408	446	428	659	614
23	2014-15	382	379	422	416	625	578
24	2015-16	357	354	393	388	586	542
25	2016-17	413	410	448	443	659	613
26	2017-18	339	332	394	377	637	569
27	2018-19	60	42	398	389	653	618
28	2019-20	76	67	399	395	632	609
29	2020-21	81	72	403	397	730	693

TABLE 37
FIVE YEAR PLAN TARGET AND ACHIEVEMENT

SI. 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	2020-21
	A. GENERATION												
1	Hydro Electric Projects (MW)	248.05	2.86	10.5	18.55	22	3.6	57.51	249	18.511	3	-	0.05
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	113.41
	Total	598.05	2.86	10.50	18.55	44.56	57.52	133.98	774.00	79.76	27.63	59.96	113.46
	B. TRANSMISSION												
1	400 kV Substations (Nos)								1	0	0	0	0
2	220 kV Substations (Nos)	9	1	-	1	-	-	2.00	22	2	0	1	4
3	110 kV Substations (Nos)	60	1	5	1	8	3	18.00	72	6	3	9	10
4	66 kV Substations (Nos)	12	1	1	-	3	-	5.00	9	3	1	2	1
5	33 kV Substations (Nos)	47	8	4	1	3	7	23.00	34	5	5	6	2
6	400 kV Lines (Ckt-km)								178	0	0	92	86
7	220 kV Lines (Ckt-km)	227	26.87	-	36.2	0.68	-	63.75	845.37	54.1	0	73.18	238
8	110 kV Lines (Ckt-km)	1216	27.55	112.59	39.4	66.60	67.66	313.80	2004.98	79.76	134.2	235.24	324.5
9	66 kV Lines (Ckt-km)	20	4.60	-	0	6	-	10.60	425.9	0.44	29.5	-	8.4
10	33 kV Lines (Ckt-km)	600	64.90	71.44	42.29	66.79	75.77	321.19	827.46	41.08	60.9	100.06	39.2
	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	372,116
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	2,195
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	3,650
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	2,372
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	440,687

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

As on 31-3-2021

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	5888.25	725.51	26401.96
	Private	22425.83	1080.00	558.00	0.00	24063.83	0.00	2916.00	17487.12	44466.95
	Central	15742.56	250.00	2344.06	0.00	18336.62	1620.00	11484.52	379.00	31820.14
	Sub Total	54827.39	1580.00	5781.26	0.00	62188.65	1620.00	20288.77	18591.63	102689.05
Western Region	State	21500.00	900.00	2849.82	0.00	25249.82	0.00	5446.50	569.28	31265.60
	Private	32847.17	500.00	4676.00	0.00	38023.17	0.00	481.00	28016.71	66520.88
	Central	19972.95	0.00	3280.67	0.00	23253.62	1840.00	1635.00	666.30	27394.92
	Sub Total	74320.12	1400.00	10806.49	0.00	86526.61	1840.00	7562.50	29252.29	125181.40
Southern Region	State	20322.50	0.00	791.98	159.96	21274.44	0.00	11774.83	586.88	33636.15
	Private	12747.00	250.00	5340.24	273.70	18610.95	0.00	0.00	43471.37	62082.32
	Central	11835.02	3390.00	359.58	0.00	15584.60	3320.00	0.00	541.90	19446.50
	Sub Total	44904.52	3640.00	6491.80	433.66	55469.99	3320.00	11774.83	44600.15	115164.97
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	1300.22	7549.22
	Central	14249.45	0.00	0.00	0.00	14249.45	0.00	1005.20	10.00	15264.65
	Sub Total	27852.45	0.00	100.00	0.00	27952.45	0.00	4639.12	1585.33	34176.90
North Eastern Region	State	0.00	0.00	466.36	36.00	502.36	0.00	422.00	233.25	1157.61
	Private	0.00	0.00	24.50	0.00	24.50	0.00	0.00	105.92	130.42
	Central	770.02	0.00	1253.60	0.00	2023.62	0.00	1522.00	30.00	3575.62
	Sub Total	770.02	0.00	1744.46	36.00	2550.48	0.00	1944.00	369.17	4863.65
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	24.87	24.87
	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	35.22	75.27
ALL INDIA	State	65931.50	1150.00	7087.36	236.01	74404.87	0.00	27069.50	2395.28	103869.65
	Private	74173.00	1830.00	10598.74	273.70	86875.45	0.00	3493.00	90406.21	180774.66
	Central	62570.00	3640.00	7237.91	0.00	73447.91	6780.00	15646.72	1632.30	97506.93
	Total	202674.50	6620.00	24924.01	509.71	234728.23	6780.00	46209.22	94433.79	382151.24

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		
4786.81	39247.05	10145.92	168.64	40085.37	94433.79

Source -CEA Annual Report 2020-21

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

State / UT / Utilities	In MW								As on 31-3-2021
	Source wise breakup					Nuclear	Hydro	Renewable (MNRE)	Total
	Thermal								
Coal	Lignite	Gas	Diesel	Total					
Delhi	4403.56	0	2115.41	0	6518.97	102.83	723.09	244.97	7589.86
Haryana	8682.61	0	685.61	0	9368.22	100.94	2318.52	693.19	12480.87
Himachal Pradesh	151.69	0	62.01	0	213.7	28.95	2923.88	988.04	4154.57
Jammu & Kashmir	577.14	0	304.07	0	881.21	67.98	2321.88	206.71	3477.78
Punjab	8351.5	0	414.01	0	8765.51	196.81	3809.12	1617.25	14388.69
Rajasthan	10939.59	1580	824.9	0	13344.49	556.74	1939.19	10204.5	26044.92
Uttar Pradesh	19753.84	0	549.49	0	20303.33	289.48	3424.03	3878.86	27895.7
Uttarakhand	491.6	0	519.66	0	1011.26	31.24	1975.89	712.95	3731.34
Chandigarh	44.83	0	15.03	0	59.86	8.01	101.71	45.16	214.74
Central unallocated	1431.03	0	291.05	0	1722.08	237.03	751.45	0	2710.56
Total Northern Region	54827.39	1580	5781.24	0	62188.63	1620.01	20288.76	18591.63	102689.03
Goa	492.27	0	67.67	0	559.94	26	2	7.83	595.77
Daman & Diu	164.74	0	43.34	0	208.08	7	0	40.55	255.63
Gujarat	15422.96	1400	6586.82	0	23409.78	559	772	13152.63	37893.41
Madhya Pradesh	16455.09	0	332	0	16787.09	273	3223.66	5205.57	25489.32
Chattisgarh	12221.89	0	0	0	12221.89	48	233	573.38	13076.27
Maharashtra	26364.18	0	3512.73	0	29876.91	690	3331.84	10266.87	44165.62
Dadra & Nagar Haveli	427.99	0	66.34	0	494.33	9	0	5.46	508.79
Central unallocated	2771	0	197.59	0	2968.59	228	0	0	3196.59
Total Western Region	74320.12	1400	10806.49	0	86526.61	1840	7562.5	29252.29	125181.4
Andhra Pradesh	10430.71	180.23	4066.72	36.8	14714.46	127.27	1673.6	8968.59	25483.92
Telangana	9168.8	210.57	831.82	0	10211.19	148.73	2479.93	4377.99	17217.84
Karnataka	9846.3	471.9	0	25.2	10343.4	698	3586.6	15462.8	30090.8
Kerala	2058.92	314.2	533.58	159.96	3066.66	362	1856.5	551.79	5836.95
Tamilnadu	11832.99	1767.3	1027.18	211.7	14839.17	1448	2178.2	15229.65	33695.02
NLC	0	166	0	0	166	0	0	0	166
Pondicherry	140.8	111.8	32.5	0	285.1	86	0	9.33	380.43
Central unallocated	1426	418	0	0	1844	450	0	0	2294
Total Southern Region	44904.52	3640	6491.8	433.66	55469.98	3320	11774.83	44600.15	115164.96
Bihar	5855.89	0	0	0	5855.89	0	110	354.91	6320.8
Jharkhand	2296.46	0	0	0	2296.46	0	191	60.41	2547.87
West Bengal	8972.62	0	100	0	9072.62	0	1396	568.26	11036.88
DVC	3457.02	0	0	0	3457.02	0	186.2	0	3643.22
Odisha	5893.98	0	0	0	5893.98	0	2150.92	549.57	8594.47
Sikkim	105.65	0	0	0	105.65	0	520	52.18	677.83
Central unallocated	1270.83	0	0	0	1270.83	0	85.01	0	1355.84
Total Eastern Region	27852.45	0	100	0	27952.45	0	4639.13	1585.33	34176.91
Assam	403.5	0	789.42	0	1192.92	0	522.08	79.1	1794.1
Arunachal Pradesh	37.05	0	46.82	0	83.87	0	544.55	136.72	765.14
Meghalaya	50.62	0	109.69	0	160.31	0	409.27	46.45	616.03
Tripura	56.1	0	573.95	0	630.05	0	68.49	25.42	723.96
Manipur	47.1	0	71.57	36	154.67	0	95.34	11.81	261.82
Nagaland	32.1	0	48.93	0	81.03	0	66.33	31.67	179.03
Mizoram	31.05	0	40.46	0	71.51	0	97.94	38	207.45
Central unallocated	112.5	0	63.62	0	176.12	0	140	0	316.12
Total North Eastern Region	770.02	0	1744.46	36	2550.48	0	1944	369.17	4863.65
Andaman & Nicobar Island	0	0	0	40.05	40.05	0	0	34.47	74.52
Lakshadweep	0	0	0	0	0	0	0	0.75	0.75
Total Islands	0	0	0	40.05	40.05	0	0	35.22	75.27
GRAND TOTAL	202674.5	6620	24923.99	509.71	234728.2	6780.01	46209.22	94433.79	382151.22

Fig at decimal may not tally due to rounding off

Source: CEA Annual Report 2020-21