

POWER SYSTEM STATISTICS

2016-17



KERALA STATE ELECTRICITY BOARD LIMITED

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TABLE 1
GROWTH OF KERALA POWER SYSTEM

Sl. No.	Particulars	Unit	As on 31-3-06	As on 31-3-07	As on 31-3-08	As on 31-3-09	As on 31-3-10	As on 31-3-11	As on 31-3-12	As on 31-3-13	As on 31-3-14	As on 31-3-15	As on 31-3-16	As on 31-3-17
1	Installed capacity	MW	2650.41	2662.96	2676.66	2744.76	2752.96	2869.56	2878.36	2881.22	2891.72	2835.63 *	2880.18	2915.80
2	Maximum demand (Restricted)	MW	2578	2742	2745	2765	2998	3119	3348	3268	3588	3602	3860	4004
3	Maximum demand (Unrestricted)	MW	2578	2862	2745	2765	2998	3119	3473	3298	3588	3727	3985	4079
4	Annual energy requirement (Unrestricted)	MU	13567.99	14695.17	15442.73	16357.16	17350.02	17807.77	19521.41	20736.19	21264.51	22040.04	22944.45	23849.54
5	Own generation (gross)	MU	7554.08	7695.11	8647.69	6440.44	7189.51	7359.97	8289.91	5334.27	8163.03	7286.90	6739.25	4325.08
6	Power purchase (gross)	MU	6700.50	8149.84	8074.62	9628.87	10204.21	10512.27	11263.21	14908.82	14070.42	15031.71	16448.36	19734.93
7	Energy available for sale (incl. PGCIL loss)	MU	13331.03	14427.96	15065.15	15293.41	16982.29	17340.27	18938.80	19877.21	20542.49	21573.16	22727.34	23839.6642
8	Energy sale to other states	MU	635.91	1046.89	1346.76	463.33	53.90	130.24	201.10	0.97	1414.60	358.09	53.48	49.30
9	Energy sale (within the state)	MU	10269.80	11331.00	12049.85	12414.32	13971.09	14547.90	15980.53	16838.29	17470.86	18430.73	19460.32	20452.91
10	Total sale including export	MU	10905.71	12377.89	13396.61	12877.65	14024.99	14678.14	16181.63	16839.26	18885.46	18788.82	19513.80	20502.21
11	Per capita consumption	kWh	314	345	366	375	420	436	478	499	516	541	569	592.430551
12	220 kV Lines	km	2640.85	2640.85	2641.86	2641.86	2734.70	2734.70	2734.70	2761.57	2765.00	2801.20	2801.88	2801.88
13	110 kV Lines	km	3965.97	3993.71	4050.09	4067.59	4115.89	4150.11	4151.00	4178.55	4260.27	4299.67	4345.52	4460.75***
14	66 kV Lines	km	2120.51	2150.78	2161.91	2161.91	2161.91	2161.91	2161.91	2166.51	2202.81	2202.81	2220.56	2154.75
15	33 kV Lines	km	778.72	909.77	1015.21	1184.78	1390.20	1453.80	1534.80	1599.70	1719.28	1761.57	1826.66	1902.43
16	HT lines (11 kV & 22 kV)	km	34,753	36,576	38,392	41,440	44,839	48,503	51,489	53,068	53,740	55,547	57,650	59,496
17	LT lines	km	2,17,899	2,26,128	2,34,286	2,41,849	2,49,687	2,56,449	2,60,554	2,63,620	2,64,117	2,68,753	2,85,970 **	2,91,328
18	Step up transformer capacity	MVA	2,427.40	2,427.40	2,427.40	2,465.60	2,472.20	2,594.40	2,605.40	2,612.00	2,615.00	2659	2691.05	2699.05
19	Step down transformer capacity	MVA	13,669	13,777	14,246	14,631	15,726	16,660	16,996	17,408	17,913	18,461	18,779	19143.4 ***
20	EHT substations	No.	206	210	216	218	229	235	238	241	244	244	250	258 ***
21	33 kV substations	No.	49	59	73	89	107	114	121	129	133	134	137	144
22	Distribution transformers	No.	37,573	39,697	42,250	46,359	52,149	57,954	62,329	64,972	67,546	71,195	73,460	75,580
23	Distribution transformer capacity	MVA	4,938.73	5,062.97	5,328.14	5,842.81	6,613.80	7,225.02	7,673.92	7,940.37	8,329.11	8,694.21	8,950.01	9,141.12
24	Number of consumers	Lakh	82.95	87.14	90.34	93.63	97.43	101.28	104.58	108.07	111.93	114.31	116.68	119.95
25	Connected load	MW	10,907.20	11,465.69	12,378.00	15,267.44	15,866.55	16,681.85	17,518.42	18,523.51	19,684.15	20391.53	20980.82	22040.62
26	Street lights	No.	9,60,839	9,99,599	10,49,047	10,86,688	11,48,220	12,02,988	12,18,610	12,57,285	12,97,480	13,49,101	14,07,024	1412689
27	Irrigation pumpsets	No.	4,23,571	4,35,673	4,40,958	4,31,745	4,37,877	4,46,460	4,55,078	4,66,289	4,78,449	4,90,056	5,00,082	512339
28	Total revenue from sale of power	Rs.Crore	3,367.30	4,009.71	4,696.95	4,893.02	4,747.17	5,198.52	5,593.02	7,223.39	9974.18	9879.34	10487.71	11035.88

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

** Corrected as per SCM progress report *** corrected as per data from O/o Director (T & SO)

TABLE 2
PLAN WISE ACHIEVEMENTS

Sl. No	Particulars					11th Plan					12th Plan				
		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	5th Year
		2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
1	Installed capacity (MW)	12.6	2.55	26.55	12.55	13.7	68.1	7	116.6	8.8	2.86	10.5	18.55	44.55	35.62
2	220 kV line (km)	4.26	12.20	46.50	0	1.01	0	18.26	0	0	26.87	0	36.2	0.68	0.00
3	110 kV line (km)	175.7	71.86	71.30	27.74	56.38	17.5	48.3	34.22	0.89	27.55	112.59	39.4	66.60	67.66*
4	66 kV line (km)	10.25	5.04	48.45	30.27	11.13	0	0	0	0	4.60	36	0	6.00	0.00
5	33 kV line (km)	106.07	171.77	92.71	131.05	105.44	169.57	205.42	63.6	81	64.90	71.44	42.29	66.79	75.77
6	11 kV line (km)	1226	956	1062	1823	1816	3048	3398	3659	2986	1579	1884	1807	2103	1846
7	LT Lines (km)	4664	6073	7440.60	8229	8158	7563	7838	6762	4105	3066	3735	4636	3312	5358.00
8	Step up transformer capacity (MVA)	17.15	0	40.5	0	0	38.2	6.6	122.2	11	6.60	3	44	32	8
9	No. of EHT substations including upgradation	7	6	7	4	6	2	11	6	3	3	6	2	11	3
10	No. of 33 kV substations	7	15	10	10	14	16	18	7	7	8	4	1	3	7
11	Step down transformer capacity (MVA)	732	605	799	108	469	385	1095	934	336	412	505	547.9	318	280.5*
12	No. of distribution transformers	1303	1882	1751	2124	2553	4109	5790	5805	4375	2643	3200	3547	2389	2271
13	Distribution transformer capacity (MVA)	203.79	217.40	175.18	124.24	265.17	514.67	770.99	611.22	448.9	266.45	388.74	365.1	255.8	191.11
14	Service connections effected	391815	548307	548521	478745	482766	442895	447817	442889	413682	403421	415216	422238	381247	465531 **
15	Connected load (MW)	515.65	423.36	573.69	558.49	912.31	2889.44	599.11	815.30	836.57	1005.09	1160.64	707.4	589.3	1059.80
16	Street lights installed (Nos)	34383	43432	64884	38760	49448	37641	61532	54768	15622	38675	40195	51621	57923	5665
17	Pump sets connected (Nos)	8520	13606	10969	12102	5285	9213	6132	8583	8618	11211	12160	11607	10026	12257

* corrected as per data received from O/o Director (T & SO) ;

*** corrected as per Orumanet

**TABLE 3
PARTICULARS OF GENERATORS**

1	Name of Station	Pallivasal	Sengulam	Poringalkuthu	Neriamangalam	Panniar	Sholayar	Sabirigiri	Kuttiyadi	Idukki	Idamalayar	Kallada
2	Make of units	Alstom Canada	Alstom Canada	English Electric UK	Alstom Switzerland	Alstom Canada	Rade Koncar Yugoslavia	VA Tech Hydro Austria	Fuji Japan	Canada Gen. Elec. Canada	BHEL	BHEL
3	Prime mover	Horizontal Pelton	Horizontal Pelton	Vertical Francis	Vertical Francis	Vertical Francis	Vertical Francis	Vertical Pelton	Vertical Pelton	Vertical Pelton	Vertical Francis	Vertical Kaplan
4	Rated kVA	5,550/9,330	14,125	9,400	19,500	18,000	22,000	55,500/66,667	28,000	1,44,000	41,118	8,824
5	Rated voltage (kV)	11	11	11	11	11	11	11	11	11	11	11
6	Nominal output (MW)	5/7.5	12.8	8	17.55	16.2	18	55/60	25	130	37.5	15
7	Power factor	0.9	0.9	0.85	0.9	0.9	0.85	0.9	0.9	0.9	0.85	0.85
8	Speed (RPM)	750	600	600	600	600	750	500	600	375	333.3	428.5
9	Synchronous reactance X_d (%)	117/113	114	71	95	71.7	90	102/123	85	94	105	124
10	Transient reactance $X'd$ (%)	30/25	26	18	20	15.8	27.6	33/29	29	26	29	21
11	Subtransient reactance $X''d$ (%)	24/22	22	15.5	13	12	20	28/25	20	15	23	12.5
12	Negative sequence reactance X_2 (%)	28/26	28	16	16	12.5	22	28/26	19.5	17.7	27	14.5
13	Zero sequence reactance X_0 (%)	9/10	10	3.4	6	5	13	14/13	10.5	5.7	9	6.5
14	Short circuit ratio	1	1	1.6	1.08	1.55	1.2	1.1/0.96	1.1	1.23	1.05	1.1
15	Grounding of Neutral	Resistance	PT	PT with resistance	PT	PT	PT	PT with resistance	PT	PT with resistance	Transformer	Transformer
16	Rated field current (Amps)	798/813	801	414	430	447	675	711/688	900	1170	850	840

Table 3 continued

**TABLE 3
PARTICULARS OF GENERATORS**

1	Name of Station	Kanjikode wind farm	Lower Meenmutty	Kuttiadi Tail Race	Peppara	Lower Periyar	BDPP	PLBE	KDPP	Kakkad	Mattupetty	KES	Malampuzha
2	Make of units	Vestas Denmark	VA Tech Flovel / TD Power	Jyothi	Jyothi / Kirloskar	BHEL	GEC Alstom France	BHEL	ABB	BHEL	Jyothi	GE Canada	Jyothi
3	Prime mover	Wind	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 Kaplan
4	Rated kVA	265	1667/ 555.61	1,470	3,500	66,670	23,690	17,800	17,778	29,412	2,353	55,556	2,941
5	Rated voltage (kV)	0.4	3.3	3.3	11	11	11	11	11	11	11	11	11
6	Nominal output (MW)	0.225	1.5 / 0.5	1.25	3	60	21.32	16	16	25	2	50	2.5
7	Power factor	0.85	0.9	0.85	0.85	0.9	0.9	0.9	0.9	0.85	0.85	0.9	0.85
8	Speed (RPM)	1000	750 / 500	600	500	333.3	428	600	500	428.6	750	500	750
9	Synchronous reactance X _d (%)	-	90 / 100	80	90	1	160	105	216	100	88.4	99	90
10	Transient reactance X' _d (%)	-	15 / 19	26.2	18	0.25	37	30	40	26.4		29	25
11	Subtransient reactance X'' _d (%)	-	14 / 18	17.4	14	0.25	27.5	18	21	15	18.4	25	19
12	Negative sequence reactance X ₂ (%)	-	11.7/15	17.1	15	0.18	29.5	24	21		10.25	27	20
13	Zero sequence reactance X ₀ (%)	-	6/7	11.06	1	0.1	14.3	6	10.5		8.52	7	8
14	Short circuit ratio	-	1.31/1.3	1.1	1.1	1	0.75	1	0.531	1	1	1.1	1.11
15	Grounding of Neutral		Resistance	PT	Resistance	Transformer	Transformer	Transformer	Resistance	Transformer	Dial Earthing	Transformer	Transformer
16	Rated field current (Amps)	-	192.34/140.51	240/95	4.8	1062	1085	750	405	950	265	1304	280

Table 3 continued

**TABLE 3
PARTICULARS OF GENERATORS**

1	Name of Station	Chembukadavu Stage I	Chembukadavu Stage II	Urumi Stage I	Urumi Stage II	Malankara	KAES	Ranni Perinad	Poozhithode	Peechi	Vilangad	Chimmony	Barapole	Adyanpara	Vellathooval
2	Make of units	Zhejiang Linhai Co Ltd. China	Kumming Electric Machinery Work, China	Chonging Electric Machinery Federation Ltd, China	Hangzom Electric Equipment Work, China	Kossler Austria	BHEL	Crompton/ Kirlosker	TD Power System / Flovel	Kirloskar	TD Power System / Flovel	TD Power Systems Ltd	WEG Industries Pvt. Ltd.	Crompton Greaves	TD Power Systems Ltd
3	Prime mover	Horizontal Francis	Horizontal Francis	Horizontal Francis	Horizontal Francis	Horizontal Kaplan	Vertical Pelton	Horizontal Kaplan	Horizontal Francis	Horizontal Kaplan	Horizontal Francis	Horizontal Francis	Horizontal Francis	Horizontal Francis	Axial Flow 'S' type Horizontal Kaplan
4	Rated kVA	1,125	1,562.5	1,562.5	1,000	4,118	55,560	2,222	1,778	1,388	2,778	2,778	5,556	1,667	2,000
5	Rated voltage (kV)	6.3	6.3	6.3	6.3	11	11	3.3	3.3	3.3	3.3	3.3	11	3.3	3.3
6	Nominal output (MW)	0.9	1.25	1.25	0.8	3.5	50	2	1.6	1.25	2.5	2.5	5	1.5	1.8
7	Power factor	0.8	0.8	0.8	0.8	0.85	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
8	Speed (RPM)	750	750	1000	1000	750	500	750	750	600	750	600	500	750	750
9	Synchronous reactance X _d (%)	110	113	127	112	93.55	108	1	89.3	85	100	1.25	1.22	1.15	1.25
10	Transient reactance X' _d (%)	20.74	26	19.1	17.35	27.22	20.6	22	22.06	26	23	0.356	0.28	0.21	0.26
11	Subtransient reactance X'' _d (%)	13.78	19	13.6	13.03	17.22	11.38	15	17.6	19	16	0.224	0.19	0.134	0.2
12	Negative sequence reactance X ₂ (%)	14.35	19	14.4	14.13	23.84	11	20	29	18	22	0.28	0.21	0.135	0.28
13	Zero sequence reactance X ₀ (%)	5.33	5.9	4.7	4.1	8.41	8	15	19	12	16	0.2	0.04	0.142	0.19
14	Short circuit ratio	1.095	1	≥1.0	>1.0	1	>1	1	1.12	1	1.08	0.8	0.81	0.87	0.8
15	Grounding of Neutral	Ungrounded	Ungrounded	Ungrounded	Ungrounded	Transformer	Transformer	Transformer	Transformer	Transformer	Neutral grounding resistor	Yes	Yes	Yes	NGT
16	Rated field current (Amps)	230	272	276	260	650	2916	140	204.6	184	178	486	291.6	95	161

**TABLE 4
INSTALLED GENERATING CAPACITY (STATION WISE)**

Sl. No.	Name of Station	Unit Capacity (MW)	Date of Commissioning		Station Capacity (MW)	Annual Generation Capability (MU)	Design PLF (%)
			Original date	After renovation			
PART A - HYDEL							
1	Pallivasal	Unit #1 - 5 Unit #2 - 5 Unit #3 - 5 Unit #4 - 7.5 Unit #5 - 7.5 Unit #6 - 7.5	19.03.1940 02.02.1941 10.02.1942 01.05.1948 01.10.1949 07.03.1951	19.11.2001 17.11.2001 20.11.2001 26.08.2002 21.08.2002 19.08.2002	37.5000	284	86.67
2	Sengulam	Unit #1 - 12.8 Unit #2 - 12.8 Unit #3 - 12.8 Unit #4 - 12.8	01.05.1954 25.07.1954 11.11.1954 05.01.1955	30.11.2002 04.10.2002 05.12.2001 01.12.2001	51.2000	182	43.33
3	Neriamangalam	Unit #1 - 17.55 Unit #2 - 17.55 Unit #3 - 17.55	27.01.1961 09.04.1961 11.05.1963	20.10.2004 31.11.2005 29.09.2006	52.6500	237	60
4	Panniar	Unit #1 - 16.2 Unit #2 - 16.2	29.12.1963 26.01.1964	01.02.2003 23.11.2001	32.4000	158	60
5	Poringalkuthu	Unit #1 - 9 Unit #2 - 9 Unit #3 - 9 Unit #4 - 9	06.03.1957 13.01.1958 24.04.1959 06.02.1960	23.04.2014 15.08.2014 08.02.2015 29.05.2015	36.0000	170	61.25
6	Sholayar	Unit #1 - 18 Unit #2 - 18 Unit #3 - 18	09.05.1966 26.01.1968 14.05.1968		54.0000	233	38.15
7	Sabarigiri	Unit #1 - 55 Unit #2 - 55 Unit #3 - 55 Unit #4 - 60 Unit #5 - 55 Unit #6 - 60	18.04.1966 14.06.1966 29.12.1966 22.06.1967 09.09.1967 26.11.1967	08.11.2009 07.02.2009 17.03.2008 06.05.2014 05.05.2006 01.07.2005	340.0000	1338	51
8	Kuttiyadi	Unit #1 - 25 Unit #2 - 25 Unit #3 - 25	11.09.1972 01.11.1972 28.11.1972	NA	75.0000	268	40.80
9	Idukki	Unit #1 - 130 Unit #2 - 130 Unit #3 - 130 Unit #4 - 130 Unit #5 - 130 Unit #6 - 130	12.02.1976 07.06.1976 24.12.1976 04.11.1985 22.03.1986 09.09.1986	NA	780.0000	2398	35.92
10	Idamalayar	Unit #1 - 37.5 Unit #2 - 37.5	03.02.1987 28.02.1987	NA	75.0000	380	57.73
11	Kallada	Unit #1 - 7.5 Unit #2 - 7.5	05.09.1994 05.01.1994	NA	15.0000	65	40.33
12	Peppara	3	15.06.1996	NA	3.0000	11.50	43.33

Table 4 continued

Sl. No.	Name of Station	Unit Capacity (MW)	Date of Commissioning		Station Capacity (MW)	Annual Generation Capability (MU)	Design PLF (%)
			Original date	After renovation			
13	Lower Periyar	Unit #1 - 60 Unit #2 - 60 Unit #3 - 60	27.09.1997 22.10.1997 28.11.1997	NA	180.0000	493	31.28
14	Mattupetty	2	14.01.1998	NA	2.0000	6.40	35
15	Poringalkuthu Left Bank Extension	16	20.03.1999	NA	16.0000	74	61.25
16	Kakkad	Unit #1 - 25 Unit #2 - 25	13.10.1999	NA	50.0000	262	60
17	Kuttiyadi Extension	50	27.01.2001	NA	50.0000	75	17.12
18	Malampuzha	2.5	26.11.2001	NA	2.5000	5.60	25.60
19	Chembukadavu Stage I	Unit #1 - 0.9 Unit #2 - 0.9 Unit #3 - 0.9	19.08.2003 19.08.2003 19.08.2003	NA	2.7000	6.59	28
20	Chembukadavu Stage II	Unit #1 - 1.25 Unit #2 - 1.25 Unit #3 - 1.25	04.09.2003 04.09.2003 04.09.2003	NA	3.7500	9.03	28
21	Urumi Stage I	Unit #1 - 1.25 Unit #2 - 1.25 Unit #3 - 1.25	25.01.2004 25.01.2004 25.01.2004	NA	3.7500	9.72	30
22	Urumi Stagell	Unit #1 - 0.8 Unit #2 - 0.8 Unit #3 - 0.8	25.01.2004 25.01.2004 25.01.2004	NA	2.4000	6.28	30
23	Malankara	Unit #1 - 3.5 Unit #2 - 3.5 Unit #3 - 3.5	23.10.2005 23.10.2005 23.10.2005	NA	10.5000	65	70
24	Lower Meenmutty	Unit #1 - 1.5 Unit #2 - 1.5 Unit #3 - 0.5	25.03.2006 25.03.2006 25.03.2006	NA	3.5000	7.63	30
25	Neriamangalam Extension	25	27.05.2008	NA	25.0000	58.27	30
26	Kuttiadi Tailrace	Unit #1 - 1.25 Unit #2 - 1.25 Unit #3 - 1.25	19.06.2008 22.06.2008 23.10.2009	NA	3.7500	17.01	50
27	Kuttiadi Additional Extension	Unit #1 - 50 Unit #2 - 50	11.10.2010 30.10.2010	NA	100.0000	223	30
28	Poozhithode	Unit #1 - 1.6 Unit #2 - 1.6 Unit #3 - 1.6	25.06.2011 25.06.2011 25.06.2011	NA	4.8000	10.97	26
29	Ranni perinad	Unit #1 - 2 Unit #2 - 2	16.02.2012 16.02.2012	NA	4.0000	16.73	48
30	Peechi	1.25	07.01.2013	NA	1.2500	3.21	30
31	Vilangad	Unit #1 - 2.5 Unit #2 - 2.5 Unit #3 - 2.5	26.07.2014	NA	7.5000	22.63	34

Table 4 continued

Sl. No.	Name of Station	Unit Capacity (MW)	Date of Commissioning		Station Capacity (MW)	Annual Generation Capability (MU)	Design PLF (%)
			Original date	After renovation			
32	Chimony	2.5	25.05.2015	NA	2.5000	6.7	30
33	Adyanpara	Unit #1 - 1.5 Unit #2 - 1.5 Unit #3 - 0.5	03.09.2015 03.09.2015 03.09.2015	NA	3.5000	9.01	30
34	Barapole	Unit #1 - 5 Unit #2 - 5 Unit #3 - 5	29.02.2016 29.02.2016 29.02.2016	NA	15.0000	36	27
35	Vellathooval	Unit #1 - 1.8 Unit #2 - 1.8	26.5.2016	NA	3.6000	12.7	40
	Total				2049.7500	7160.98	
	PART B - WIND						
1	Kanjikode	9 x 0.225 MW	18.05.1995	NA	2.0250	4	20
	Total				2.0250	4	
	PART C - THERMAL						
1	Brahmapuram Diesel Power Plant (BDPP)	Unit #1 - 21.32 Unit #4 - 21.32 Unit #5 - 21.32	06.05.1997 17.12.1997 24.11.1998	NA	63.9600	606	68.50
2	Kozhikode Diesel Power Plant (KDPP)	Unit #2 - 16 Unit #3 - 16 Unit #5 - 16 Unit #6 - 16 Unit #7 - 16 Unit #8 - 16	11.09.1999 18.09.1999 30.09.1999 11.09.1999 25.10.1999 06.11.1999	NA	96.0000	896	80
	Total				159.9600	1502.00	
3	Kayamkulam (NTPC)	Unit #1 - 116.6 Unit #2 - 116.6 Unit #3 - 126.6	02.11.1999 28.02.1999 11.12.1999	NA	359.5800	2158	68.50
	PART D - SOLAR						
1	Kanjikode Ss	1.00	10.08.2015	NA	1.0000	1.63	18
2	Chaliyoor Colony, Agali	0.096	31.08.2015	NA	0.0960	0.15	18
3	Poringalkuthu Powerhouse	0.05	10.09.2015	NA	0.0500	0.06	14
4	Banasurasagar, Wayanad	0.01	21.01.2016	NA	0.0100	0.014	17
5	Kollengode Substation	1.00	08.08.2016	NA	1.0000	1.664	19
6	Padinjarethara Dam Top	0.44	29.08.2016	NA	0.4400	0.732	19
7	Edayar Substation premises	1.25	05.09.2016	NA	1.2500	2.080	19
8	Barapole Canal bank	1.00	7.11.2016	NA	1.0000	1.664	19
9	Barapole Canal top	3.00	17.11.2016	NA	3.0000	4.990	19
10	Roof top of Generation buildings (18 nos)	0.70	3.1.2017	NA	0.7000	3.000	14
	Total				8.5460	4.25	
	PART D - PRIVATE HYDRO						
1	Maniyar	Unit #1 - 4 Unit #2 - 4 Unit #3 - 4	31.03.1994 30.12.1994 29.12.1994	NA	12.0000	36	30.83

Table 4 continued

Sl. No.	Name of Station	Unit Capacity (MW)	Date of Commissioning		Station Capacity (MW)	Annual Generation Capability (MU)	Design PLF (%)
			Original date	After renovation			
2	Kuthungal	Unit #1 - 7 Unit #2 - 7 Unit #3 - 7	01.06.2001 01.06.2001 01.06.2001	NA	21.0000	79	42.94
3	Ullunkal	Unit #1 - 3.5 Unit #2 - 3.5	13.11.2008 13.11.2008	NA	7.0000	32.22	53
4	Iruttukkanam	Unit #1 - 1.5 Unit #2 - 1.5 Unit #3 - 1.5	18.09.2010 19.09.2010 4.04.2012	NA	4.5000	15.86	50
5	Pampunkayam (Mankulam)	Unit #1 - 0.055 Unit #2 - 0.055	3.8.2012	NA	0.1100	0.29	-
6	Karikkayam	Unit #1 - 3.5 Unit #2 - 3.5 Unit #3 - 3.5	29.08.2013 2.09.2013 28.09.2013	NA	10.5000	43.69	-
7	Meenvallom	Unit #1 - 1.5 Unit #2 - 1.5	17.6.2014	NA	3.0000	8.37	-
8	Kallar	0.05	31.3.2015	NA	0.0500	0.13	-
	Total				58.1600	215.56	
	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	157.0000	1099	80
2	Kasargode Power Corporation*	Unit #1 - 7.3 Unit #2 - 7.3 Unit #3 - 7.3	01.01.2001	NA			
3	MPS Steel Castings Ltd (Co-generation plant)	10	19.02.2009	NA	10.0000	67.63	77.20
4	Phillips Carbon Black Ltd (Co-generation plant)	10	31.03.2011	NA	10.0000	70.08	-
	Total				177.0000	1236.71	
	PART F - PRIVATE WIND						
1	Ramakalmedu	6 x 0.75 MW 12 x 0.75 MW 1 x 0.75 MW	31.03.2008 31.03.2009 31.03.2010	NA	14.2500	32.46	26
2	Agali	7 x 0.6 MW 16 x 0.6 MW 2 x 0.6 MW 6 x 0.6 MW	31.03.2008 31.03.2010 29.09.2010 31.10.2010	NA	18.6000	37.47	23
3	Ahalia Alternate Energy Pvt Ltd, Kanjikode	1 x 2.1 MW 3 x 2.1 MW	22.02.2016 23.03.2016	NA	8.4000	16.19	22
	Total				41.2500	86.12	
	PART G - PRIVATE SOLAR						
1	Cochin International Airport Ltd	1MW 12MW 2.4 MW 5.1273	30.11.13 18.08.15 26.5.16 9.3.17	NA	20.5273	32.37	18
2	Solar park, Ambalathara	4 MW 16 MW 8 MW 8 MW	14.12.2016 04.01.2017 07.02.2017 30.03.2017		36.0000	56.76	
3	Anert, Kuzhalmandam	2MW	9.12.2016		2.0000	3.15	
4	Hindalco	1MW	31.03.2016		1.0000	1.58	
	Total				60	94	
	GRAND TOTAL				2915.80	12461.48	

* PPA ended on 13.05.2016

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	1987-88	1477	5063.31	1127.3	51.27
2	1988-89	1477	5738.04	1201	54.54
3	1989-90	1477	6105.16	1298	53.69
4	1990-91	1477	6794.10	1273.7	60.89
5	1991-92	1477	7153.62	1308.8	62.39
6	1992-93	1477	7219.79	1403	58.74
7	1993-94	1484	7809.17	1459.6	61.08
8	1994-95	1503.53	8794.39	1614.6	62.18
9	1995-96	1505.53	9274.07	1651.4	64.11
10	1996-97	1508.53	8771.25	1572	63.69
11	1997-98	1775.81	9394.67	1785.8	60.05
12	1998-99	2046.33	11164.61	1896.2	67.21
13	1999-00	2350.71	11880.98	2177	62.30
14	2000-01	2422.61	12464.00	2316	61.43
15	2001-02	2605.91	12518.31	2333	61.25
16	2002-03	2608.71	12391.13	2347	60.27
17	2003-04	2621.31	12280.87	2426	57.79
18	2004-05	2623.86	12504.84	2420	58.99
19	2005-06	2650.41	13331.03	2578	59.03
20	2006-07	2662.96	14427.96	2742	60.07
21	2007-08	2676.66	15065.15	2745	62.65
22	2008-09	2744.76	15293.41	2765	63.14
23	2009-10	2752.96	16982.29	2998	64.66
24	2010-11	2869.56	17340.28	3119	63.47
25	2011-12	2878.36	18938.81	3348	64.57
26	2012-13	2881.22	19877.21	3268	69.43
27	2013-14	2891.72	20542.49	3588	65.36
28	2014-15	2835.63 *	21573.16	3602	68.37
29	2015-16	2880.18	22727.34	3860	67.21
30	2016-17	2915.80	23763.57	4004	67.75

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

**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 (m3/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
Poozhithodu	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
Vellathooval	No Reservoir	NA	NA	NA	Vellathooval	2 X 1.8	12.17	12	30.8	15.65

TABLE 8
STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS FOR 2007-08

(in Million Units)

	Name of Station / Source	04/07	05/07	06/07	07/07	08/07	09/07	10/07	11/07	12/07	01/08	02/08	03/08	Total
A	Hydro													
1	Idukki	298.57	321.55	206.44	79.52	133.11	241.38	499.72	373.85	285.04	265.01	330.67	281.19	3316.02
2	Sabarigiri	149.60	127.16	72.58	81.78	150.78	141.72	155.01	148.61	140.73	104.68	101.58	167.13	1541.35
3	Idamalayar	21.88	29.17	30.53	46.22	53.58	52.61	54.25	51.99	51.40	36.16	23.47	23.38	474.63
4	Kuttiadi + KES	42.71	15.79	29.67	84.14	85.13	82.09	76.41	58.08	50.83	52.69	34.83	32.36	644.72
5	Poringalkuthu	7.10	6.52	12.31	23.87	23.68	23.01	22.33	16.34	10.02	6.02	7.99	3.39	162.59
6	Poringalkuthu LBE	7.67	0.91	5.20	11.84	10.97	10.49	0.00	0.00	0.33	1.58	5.02	5.93	59.94
7	Sholayar	29.32	14.46	9.75	7.18	38.21	36.79	35.40	14.85	14.90	12.67	22.12	19.02	254.68
8	Pallivasal	15.82	19.98	17.91	21.45	22.15	21.51	19.52	21.61	17.55	16.14	16.00	19.41	229.04
9	Sengulam	9.34	9.70	12.15	18.91	18.66	16.75	18.27	17.37	15.53	7.27	9.32	11.51	164.77
10	Panniar	9.16	9.04	3.96	23.33	23.75	12.91	0.00	0.00	0.00	0.00	0.00	0.00	82.15
11	Neriamangalam	16.22	16.17	21.75	38.80	38.90	37.51	38.45	35.11	29.84	11.69	12.84	15.78	313.06
12	Lower Periyar	16.96	16.65	42.95	125.49	109.73	112.80	97.53	72.78	35.83	14.24	15.39	17.61	677.97
13	Kakkad	21.51	20.15	14.54	19.98	24.14	24.32	24.11	22.15	20.23	16.52	16.28	22.83	246.75
14	Kallada	4.07	0.74	0.00	3.32	8.98	10.02	9.51	9.63	5.21	5.24	8.64	7.66	73.03
15	Peppara	0.08	0.25	0.25	1.34	1.08	1.44	1.38	1.18	0.38	0.33	0.31	0.16	8.18
16	Malankara	3.89	4.01	3.79	3.86	3.33	3.14	3.31	3.34	3.81	3.49	3.91	3.81	43.70
17	Madupetty	0.87	0.65	0.37	0.00	0.18	0.90	0.82	0.72	0.69	0.55	0.62	0.55	6.91
18	Chembukadavu	0.00	0.00	0.51	2.82	1.95	2.81	1.08	0.12	0.00	0.00	0.00	0.00	9.28
19	Urumi	0.00	0.00	1.66	3.52	2.95	3.18	1.86	0.60	0.00	0.00	0.00	0.00	13.77
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	0.07	0.08	0.59	0.87	0.49	0.89	0.88	0.62	0.18	0.06	0.07	0.12	4.92
	Sub Total Hydro	654.83	612.95	486.89	598.25	751.76	836.27	1059.85	848.95	682.49	554.32	609.05	631.85	8327.45
	Auxiliary consumption	2.56	2.70	3.37	2.52	3.04	2.82	3.33	3.02	2.95	3.13	2.51	2.72	34.67
	Net Hydro Generation	652.27	610.25	483.52	595.73	748.72	833.45	1056.52	845.93	679.54	551.19	606.54	629.13	8292.78
B	Wind	0.07	0.27	0.26	0.22	0.22	0.17	0.10	0.07	0.21	0.19	0.07	0.11	1.96

Table 8 continued

	Name of Station / Source	04/07	05/07	06/07	07/07	08/07	09/07	10/07	11/07	12/07	01/08	02/08	03/08	Total
C	Thermal													
1	BDPP	4.90	12.20	10.06	3.61	0.79	3.47	11.26	8.20	6.85	8.80	7.53	18.11	95.76
2	KDPP	23.94	31.52	18.95	7.97	7.37	5.03	17.64	12.84	26.62	36.51	50.62	39.38	278.38
	Sub Total Thermal	28.85	43.71	29.01	11.59	8.16	8.50	28.91	21.03	33.46	45.30	58.14	57.48	374.14
	Auxiliary consumption	0.85	1.24	0.82	0.47	0.41	0.48	0.92	0.79	0.94	1.16	1.29	1.43	10.80
	Net Thermal Generation	28.00	42.47	28.19	11.12	7.75	8.02	27.99	20.24	32.52	44.14	56.85	56.05	363.34
D	Total Internal Generation (excl. aux. cons.)	680.34	652.99	511.96	607.06	756.69	841.64	1084.60	866.24	712.28	595.52	663.47	685.29	8658.08
E	Central Generating Stations													
1	NTPC-RSTPS	198.21	211.86	197.76	167.92	166.01	151.44	165.66	168.49	202.25	212.89	203.40	208.79	2254.68
2	Talcher Stage-II	257.49	297.44	297.44	261.51	243.74	269.88	291.81	294.84	310.02	307.03	289.08	298.62	3418.95
3	NLC-Stage-I	39.69	41.82	38.80	37.68	30.21	31.35	30.99	13.63	30.00	40.24	33.92	33.45	401.78
4	NLC-Stage-II	58.02	54.34	55.59	50.14	54.21	32.62	36.07	39.99	34.16	55.29	49.91	47.91	568.25
5	NLC Expansion	35.93	46.51	43.61	39.90	42.69	33.36	24.30	40.12	27.65	43.36	43.95	46.20	467.58
6	MAPS	10.30	8.29	6.45	3.30	2.13	3.23	4.72	7.23	7.50	7.45	6.87	7.13	74.60
7	KAIGA	18.78	24.40	15.45	17.90	25.11	9.87	15.23	14.89	15.34	14.94	6.78	10.28	188.97
	Sub Total CGS	618.42	684.66	655.10	578.35	564.10	531.75	568.78	579.19	626.92	681.20	633.91	652.38	7374.80
F	UI Import	15.93	38.25	36.42	-22.30	77.94	-79.97	-235.00	-97.28	41.59	39.99	17.08	25.44	-141.89
G	IPPs													
1	RGCCPP	0.00	0.00	29.81	29.88	0.10	0.00	30.72	23.48	85.97	89.18	100.64	63.50	453.28
2	BSES	84.09	15.47	47.45	0.15	0.01	-0.03	19.50	-0.02	4.49	68.83	57.62	55.59	353.15
3	KPCL	9.81	8.56	1.81	1.31	1.30	1.44	3.09	1.15	1.62	2.02	1.47	1.70	35.28
	Sub Total IPPs	93.90	24.03	79.07	31.34	1.41	1.41	53.31	24.61	92.08	160.03	159.73	120.79	841.71
H	Total power purchase (E+F+G)	728.26	746.94	770.60	587.40	643.46	453.20	387.10	506.53	760.60	881.22	810.72	798.61	8074.62
I	External PGCIL loss	26.03	28.82	27.57	24.34	23.74	22.38	23.94	24.38	26.39	28.67	26.68	27.46	310.40
J	Net power purchase at KSEB bus	702.23	718.12	743.02	563.05	619.71	430.82	363.16	482.15	734.21	852.55	784.04	771.15	7764.22
K	Total Generation & Power Purchase (D+J)	1382.56	1371.11	1254.99	1170.12	1376.40	1272.46	1447.76	1348.39	1446.49	1448.07	1447.51	1456.45	16422.30
L	Auxiliary consumption in substations	0.87	0.87	0.79	0.74	0.87	0.81	0.92	0.85	0.92	0.92	0.92	0.92	10.39
M	Net energy available for sale	1381.69	1370.25	1254.19	1169.38	1375.53	1271.65	1446.85	1347.53	1445.57	1447.16	1446.59	1455.53	16411.91
N	Energy sale outside the state	120.10	39.97	98.98	0.00	152.66	61.79	192.04	110.67	142.09	125.82	169.99	132.65	1346.76
O	Net energy available for sale in the State	1261.59	1330.28	1155.21	1169.38	1222.87	1209.86	1254.81	1236.86	1303.48	1321.34	1276.60	1322.88	15065.15

TABLE 9
STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS FOR 2008-09

(in Million Units)

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

Table 9 continued

	Name of Station / Source	04/08	05/08	06/08	07/08	08/08	09/08	10/08	11/08	12/08	01/09	02/09	03/09	Total
	Sub Total Thermal	53.16	63.40	50.90	50.80	48.93	42.57	55.44	57.50	60.06	49.33	48.66	72.80	653.54
	Auxiliary consumption	1.40	1.67	1.34	1.34	1.29	1.12	1.46	1.51	1.58	1.30	1.28	1.91	17.19
	Net Thermal Generation	51.76	61.73	49.56	49.46	47.64	41.45	53.98	55.99	58.48	48.03	47.38	70.88	636.35
D	Total Internal Generation (excl. aux. cons.)	784.38	709.70	475.72	508.23	567.93	568.72	561.47	472.84	434.85	386.16	447.82	532.59	6450.41
E	Central Generating Stations													
1	NTPC-RSTPS	200.32	192.62	186.70	184.39	193.86	197.84	185.63	195.85	218.57	216.46	183.79	219.64	2375.67
2	Talcher Stage-II	296.03	268.10	221.40	224.05	187.56	214.87	237.18	183.39	267.33	291.88	279.84	310.27	2981.90
3	NLC-Stage-I	26.32	32.14	17.99	35.03	26.20	20.46	22.79	17.12	18.01	36.82	36.69	40.72	330.29
4	NLC-Stage-II	38.35	47.72	33.45	34.94	30.43	36.79	47.42	35.13	32.97	56.83	51.76	57.23	503.02
5	NLC Expansion	45.42	43.58	37.17	46.77	46.34	35.66	23.86	28.42	22.57	45.12	42.43	47.15	464.49
6	MAPS	5.37	4.24	5.51	6.41	1.36	6.34	7.42	6.18	4.39	3.40	3.81	8.50	62.93
7	KAIGA	23.28	15.19	26.01	22.89	10.37	13.91	17.25	19.76	15.27	13.97	6.50	17.32	201.72
	Sub Total CGS	635.09	603.59	528.23	554.48	496.12	525.87	541.55	485.85	579.11	664.48	604.82	700.83	6920.02
F	UI Import	-54.57	4.33	142.02	57.59	76.36	90.39	31.12	19.67	20.18	-3.67	-29.64	-35.75	318.03
G	IPPs													
1	RGCCPP	51.69	101.75	65.98	90.68	21.79	0.00	102.57	106.31	68.06	117.59	106.44	116.62	949.48
2	BSES	61.18	95.83	70.52	20.52	-0.04	50.30	59.64	97.07	87.19	98.73	101.04	105.28	847.26
3	KPCL	0.26	8.23	12.52	10.05	6.72	5.22	8.38	11.28	9.63	7.98	8.38	8.63	97.28
4	Ramakkalmedu Wind	0.19	1.49	3.81	3.43	2.90	2.55	0.76	0.67	1.89	2.42	1.12	0.48	21.72
5	Agali Wind	0.22	0.06	1.40	1.41	1.69	2.95	0.64	0.26	0.38	0.60	0.40	0.28	10.28
6	Ullunkal									0.72	0.59	0.72	1.10	3.12
	Sub Total IPPs	113.54	207.36	154.24	126.10	33.06	61.02	172.00	215.59	167.86	227.91	218.10	232.39	1929.14
H	Power purchase through Traders (KSEB bus)	0.00	6.75	0.00	43.10	57.25	46.33	53.06	83.60	107.73	30.01	9.51	24.34	461.68
I	Total power purchase (E+F+G+H)	694.06	822.03	824.49	781.27	662.79	723.61	797.73	804.71	874.88	918.73	802.79	921.81	9628.87
J	External PGCIL loss	28.69	27.26	23.86	25.05	22.41	23.75	24.46	21.95	26.16	30.01	27.32	31.66	312.57
K	Net power purchase at KSEB bus	665.37	794.76	800.63	756.22	640.38	699.85	773.27	782.76	848.73	888.71	775.47	890.15	9316.30
L	Total Generation & Purchase (D+K)	1449.75	1504.46	1276.35	1264.45	1208.31	1268.57	1334.74	1255.60	1283.58	1274.87	1223.28	1422.74	15766.71
M	Auxiliary consumption in substations	0.92	0.95	0.81	0.80	0.76	0.80	0.84	0.79	0.81	0.81	0.77	0.90	9.97
N	Net energy available for sale	1448.83	1503.51	1275.54	1263.65	1207.55	1267.77	1333.90	1254.81	1282.77	1274.06	1222.51	1421.84	15756.74
O	Energy sale outside the state	145.60	101.94	25.57	36.79	1.55	66.46	75.12	10.30	0.00	0.00	0.00	0.00	463.33
P	Net energy available for sale in the State	1303.23	1401.57	1249.97	1226.86	1206.00	1201.31	1258.78	1244.51	1282.77	1274.06	1222.51	1421.84	15293.41

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

(in Million Units)

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

Table 10 continued

	Name of Station / Source	04/09	05/09	06/09	07/09	08/09	09/09	10/09	11/09	12/09	01/10	02/10	03/10	Total
	Auxiliary consumption	2.04	1.69	0.96	0.91	1.21	1.02	1.29	1.07	1.30	1.58	1.76	2.52	17.37
	Net Thermal Generation	67.63	56.10	31.86	30.20	40.09	33.61	42.73	35.57	43.06	52.30	58.32	83.42	574.90
D	Total Internal Generation (excl. aux. cons.)	546.22	543.30	448.01	586.54	600.20	646.81	698.87	629.06	576.26	557.33	577.52	791.34	7201.45
E	Central Generating Stations													
1	NTPC-RSTPS	209.36	210.79	187.25	170.18	180.45	174.51	214.87	208.47	215.08	218.53	194.31	218.44	2402.24
2	Eastern Region												0.66	0.66
3	Talcher Stage-II	297.02	275.10	266.07	213.04	227.25	236.86	253.32	252.73	292.04	303.27	268.09	292.84	3177.63
4	NLC-Stage-I	38.55	38.96	38.93	27.48	25.81	37.42	31.37	21.85	26.86	29.00	33.43	34.20	383.86
5	NLC-Stage-II	50.06	56.12	57.95	42.59	44.49	49.37	53.25	36.37	48.40	57.39	49.05	51.58	596.62
6	NLC Expansion	45.22	43.07	41.41	44.87	35.57	38.77	23.40	16.95	26.06	35.61	32.52	18.32	401.77
7	MAPS	8.13	8.41	7.21	8.57	8.54	8.11	6.78	3.80	5.35	7.81	7.10	7.91	87.72
8	KAIGA	20.93	20.39	19.98	21.83	22.26	22.05	19.40	14.62	18.40	19.26	16.26	20.65	236.03
	Sub Total CGS	669.27	652.84	618.80	528.56	544.37	567.09	602.39	554.79	632.19	670.87	600.76	644.60	7286.53
F	UI Import	12.10	81.59	16.94	7.23	10.60	56.87	6.66	40.27	71.12	44.52	24.25	-0.76	371.39
G	IPPs													
1	RGCCPP	110.76	100.28	114.00	88.64	104.98	43.63	71.15	81.75	103.10	122.37	95.64	117.59	1153.89
2	BSES	97.40	98.25	97.91	71.33	69.77	5.42	1.05	13.75	19.87	8.35	20.20	73.40	576.70
3	KPCL	7.14	8.31	7.93	4.33	8.48	3.84	5.78	4.26	4.95	7.05	5.42	7.57	75.06
4	Ramakkalmedu Wind	0.93	2.67	4.93	6.79	4.21	3.92	2.20	1.47	1.83	1.63	0.99	0.97	32.54
5	Agali Wind	1.87	4.59	6.18	6.24	5.16	5.21	2.27	0.95	0.55	0.41	0.21	1.44	35.07
6	Ullunkal	0.92	0.82	1.36	2.56	2.19	2.45	2.10	2.29	1.48	1.11	0.85	1.68	19.83
7	MP Steel	3.30	3.68	3.58	3.22	2.22	3.53	3.10	3.05	3.12	2.77	2.18	3.41	37.16
	Sub Total IPPs	222.31	218.60	235.89	183.12	197.02	68.00	87.65	107.53	134.89	143.69	125.49	206.06	1930.24
H	Power purchase through traders (KSEB bus)	0.00	-6.78	34.08	4.75	58.65	32.47	56.66	67.15	86.66	79.42	107.79	95.20	616.05
I	Total power purchase (E+F+G+H)	903.68	946.25	905.71	723.66	810.64	724.43	753.36	769.74	924.86	938.50	858.29	945.10	10204.21
J	External PGCIL loss	32.84	32.03	30.36	25.93	26.71	27.83	29.56	27.22	31.02	32.92	29.48	31.63	357.53
K	Net power purchase at KSEB bus	870.84	914.22	875.35	697.72	783.93	696.61	723.80	742.51	893.84	905.58	828.81	913.47	9846.68
L	Total Generation & Purchase (D+K)	1417.07	1457.51	1323.36	1284.26	1384.13	1343.41	1422.66	1371.58	1470.10	1462.92	1406.33	1704.81	17048.13
M	Auxiliary consumption in substations	0.99	1.02	0.93	0.90	0.97	0.94	1.00	0.96	1.03	1.02	0.98	1.19	11.94
N	Net energy available for sale	1416.07	1456.49	1322.43	1283.36	1383.16	1342.47	1421.67	1370.61	1469.07	1461.89	1405.35	1703.61	17036.19
O	Energy sale outside the state					5.03		7.40					41.47	53.90
P	Net energy available for sale in the State	1416.07	1456.49	1322.43	1283.36	1378.13	1342.47	1414.27	1370.61	1469.07	1461.89	1405.35	1662.14	16982.29

TABLE 11
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

Table 11 continued

	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
	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
4	NLC-Stage-1	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 12
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	Chembukadav	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	Poozhithodu			0.60	2.53	3.03	2.27	0.48	0.33	0.09	0.04	0.00	0.00	9.36
24	Ranni-Perinadu											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

Table 12 continued

	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
	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
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-1	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	Ullumkal	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 13
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	Chembukadav	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	Poozhithodu	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-Perinadu	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
														Table 13 continued

TABLE 14

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	Poozhithodu	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-Perinadu	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

Table 14 continued

TABLE 15
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	Poozhithodu	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-Perinadu	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

Table 15 continued

TABLE 16

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	Chembukadav	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-Perinadu	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

Table 16 continued

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	5.11
	Net Thermal Generation	22.73	16.71	14.88	9.51	9.34	32.23	10.60	5.37	2.44	2.52	-0.03	19.24	145.53
	Total Internal Generation	636.63	767.04	529.48	711.97	678.21	613.05	539.31	407.34	400.18	406.36	454.91	608.91	6753.39
	Auxiliary Consumption of Substations	1.43	1.26	1.10	1.10	1.09	1.11	1.14	1.13	1.16	1.19	1.12	1.31	14.14
E	Total Internal Generation (excl. aux. cons.)	635.20	765.78	528.38	710.87	677.12	611.94	538.17	406.21	399.02	405.17	453.79	607.60	6739.25
F	Central Generating Stations at Kerala periphery	984.76	961.54	927.79	866.35	873.36	833.73	966.29	934.02	927.14	947.14	922.30	904.27	11048.70
G	UI Import/ Deviation Settlement	45.86	47.95	43.53	52.97	59.31	66.10	74.41	72.10	57.97	47.06	48.16	77.92	693.34
H	IPP's													
	RGCCPP (NPTC Kayamkulam)	-0.90	-0.80	3.08	-0.85	17.76	100.65	14.33	-0.71	-0.39	-0.86	-0.78	-0.71	129.80
	BSES	-0.16	5.04	-0.12	-0.15	-0.17	-0.16	-0.11	-0.15	-0.16	-0.15	0.15	-0.16	3.71
	KPCL	0.00	0.00	0.00	0.00	7.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.21
	Wind	1.40	4.30	6.93	13.53	10.88	7.31	2.93	1.18	3.23	2.35	1.86	1.50	57.40
	Ullunkal	1.84	1.76	1.95	2.24	2.21	1.59	1.73	1.13	1.08	0.87	0.84	1.02	18.26
	Iruttukkanam I	0.34	0.44	1.53	2.64	2.56	2.34	2.35	1.39	1.19	0.57	0.20	0.16	15.69
	Iruttukkanam II	0.27	0.45	0.77	1.36	1.30	1.22	1.26	1.11	0.78	0.24	0.21	0.15	9.14
	MP Steel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Karikkayam	2.24	2.19	2.77	3.15	3.30	2.32	2.98	2.05	1.76	1.30	1.31	1.61	26.99
	Meenvallom	0.09	0.23	0.50	1.12	0.87	0.73	0.80	0.58	0.29	0.15	0.11	0.08	5.56
	INDSIL	0.00	0.00	4.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.25
	Kallar	0.05	0.02	0.01	0.01	0.02	0.01	0.01	0.01	0.03	0.02	0.02	0.02	0.22
	Pambukayam (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

Table 16 continued

TABLE 17
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	Chembukadav	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-Perinadu	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	Vellathuval 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

Table 17 continued

A	Auxiliary Consumption	2.57	2.32	2.25	2.92	2.90	2.38	2.24	1.77	2.24	1.51	1.52	2.36	26.97
	Net Hydro Generation	565.88	383.65	337.32	431.41	434.63	422.90	356.50	242.83	221.88	211.37	238.53	422.80	4292.06
B	Wind	0.12	0.16	0.17	0.21	0.26	0.24	0.13	0.05	0.08	0.12	0.11	0.07	1.71
	Auxiliary Consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Net Wind Generation	0.11	0.16	0.17	0.21	0.26	0.24	0.13	0.05	0.08	0.12	0.11	0.07	1.71
C	Solar	0.12	0.08	0.10	0.04	0.19	0.32	0.47	0.41	0.73	0.75	0.86	1.12	5.20
	Auxiliary Consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.03
	Net Solar Generation	0.12	0.08	0.10	0.04	0.19	0.31	0.47	0.41	0.73	0.74	0.85	1.11	5.17
D	Thermal													
1	BDPP,Brahmapuram	4.30	1.19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	5.54
2	KDPP, Nallalam	27.98	7.30	0.00	0.22	0.35	0.00	0.50	0.47	0.37	0.00	0.07	0.75	38.01
	Sub Total Thermal	32.27	8.49	0.01	0.22	0.35	0.00	0.50	0.47	0.37	0.00	0.07	0.79	43.55
	Auxiliary Consumption	0.85	0.35	0.15	0.15	0.14	0.13	0.14	0.14	0.15	0.12	0.12	0.17	2.61
	Net Thermal Generation	31.42	8.14	-0.14	0.07	0.21	-0.13	0.36	0.32	0.22	-0.12	-0.05	0.62	40.93
	Total Internal Generation	597.54	392.03	337.45	431.74	435.29	423.32	357.46	243.62	222.91	212.11	239.45	424.60	4317.51
	Auxiliary Consumption of Substations	1.35	1.34	1.30	1.13	1.20	1.18	1.23	1.19	1.24	1.19	1.19	1.29	14.84
E	Total Internal Generation (excl. aux. cons.)	596.19	390.69	336.15	430.61	434.09	422.14	356.22	242.43	221.68	210.92	238.25	423.31	4325.04
F	Central Generating Stations at Kerala periphery	904.68	913.31	779.98	799.80	818.03	821.50	845.81	801.42	847.16	906.35	850.40	917.37	10205.80
G	IPP's													
	RGCCPP (NPTC Kayamkulam)	14.30	-0.79	-0.65	-0.63	-0.68	-0.71	-0.72	-0.65	-0.66	-0.72	-0.63	-0.70	6.77
	Wind	4.11	6.80	13.02	13.87	17.29	13.76	7.44	2.23	3.50	3.45	3.76	3.09	92.32
	Ullunkal	1.40	1.08	1.68	1.76	1.51	1.17	0.84	0.89	0.68	0.42	0.44	1.11	12.98
	Iruttukkanam I & II	0.29	0.47	2.93	4.17	4.16	3.49	2.02	0.99	0.60	0.31	0.17	0.40	19.98
	Karikkayam	2.09	1.83	3.05	3.34	2.56	1.85	1.30	1.41	1.01	0.62	0.71	2.04	21.80
	Meenvallom	0.06	0.08	0.72	1.86	1.04	0.72	0.52	0.46	0.22	0.12	0.08	0.10	5.98
	Kallar													0.03
	Mankulam Grama panchayath													0.08
	Deviation in 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

Table 17 continued

	Deviations in injection to the grid against banking facility by prosumers													
	Maniar	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													
	Hindal co Generation	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, Kuzhalmadam	0.00	0.00	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 (E+J)	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	23839.66
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-18
ANNUAL GENERATION FROM RENEWABLE SOURCES**

Sl. No.	Stations	Installed capacity (MW)								
			2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
I	Small Hydro (KSEB)									
1	Kallada	15	60.42	72.25	65.63	25.54	67.55	68.99	44.81	44.36
2	Peppara	3	6.05	9.75	8.20	3.69	7.63	5.13	4.71	3.94
3	Malankara	10.5	32.46	36.90	31.94	26.69	30.38	34.15	32.43	24.74
4	Madupetty	2	1.91	2.28	1.22	2.49	5.75	3.57	4.29	3.94
5	Chembukadavu	6.45	8.46	13.54	11.99	9.52	12.42	10.95	9.04	8.64
6	Urumi	6.15	11.58	15.94	13.27	10.79	13.67	12.98	9.30	9.03
7	Malampuzha	2.5	0	0	2.77	1.94	4.96	5.19	2.03	0.634
8	Lower Meenmutty	3.5	3.43	7.20	4.86	8.01	5.62	4.74	5.56	2.481
9	Kuttiyadi Tailrace	3.75	4.62	4.35	8.57	8.00	7.96	7.92	8.05	6.349
10	Poringalkuthu LBE	16	108.82	120.69	102.15	99.86	114.03	107.45	106.43	94.37
11	Neriamangalam Extention	25	92.60	95.48	63.03	94.52	143.66	120.20	133.33	102.08
12	Poozhithode	4.8	--	--	9.36	10.67	12.10	11.33	8.62	10.44
13	Ranni Perinadu	4	--	--	0.21	6.15	9.52	7.35	7.66	5.85
14	Peechi	1.25	--	--	--	0.26	3.29	1.92	1.43	0.4
15	Vilangad	7.5	--	--	--	--	--	0.45	12.75	15.77
16	Chimmony	2.5	--	--	--	--	--	--	4.59	1.55
17	Adyanpara	3.5	--	--	--	--	--	--	2.36	5.01
18	Barapole	15	--	--	--	--	--	--	0.0008	19.32
II	Small Hydro (CPP)									
1	Maniyar	12	33.79	41.24	36.91	21.49	39.72	33.93	30.3	1.66
2	Kuthungal	21	34.25	47.05	44.16	22.95	42.48	45.26	49.31	14.03
III	Small Hydro (IPP)									
1	Ullunkal	7	19.83	24.29	23.16	14.37	23.62	20.80	18.26	13.1
2	Iruttukkanam	4.5	--	8.87	17.62	18.56	23.06	23.18	24.83	20.08
3	Karikkayam	10.5	--	--	--	--	17.18	27.17	26.99	21.93
4	Pambumkayam	0.11	--	--	--	0.13	0.25	0.14	0.06	
5	Meenvallom	3	--	--	--	--	--	2.37	5.56	5.99
IV	Wind (KSEB)									
1	Kanjikode	2.025	1.84	1.51	2.03	1.76	1.80	1.06	1.38	1.71
V	Wind (IPP)									
1	Ramakalmedu	14.25	32.54	29.39	31.27	30.91	33.21	26.73	23.65	28.75
2	Agali	18.6	35.07	33.48	35.71	38.06	40.86	40.41	23.79	46.47
3	Ahalia Alternate Energy Ltd	--	--	--	--	--	--	--	0.00	17.39
VI	Solar (KSEB)									
1	Kanjikode	1	-	-	-	-	-	-	0.81	0.87
2	Chaliyoor Colony, Agali	0.096		-	-	-	-	-	0.05	
3	Poringalkuthu Powerhouse	0.05	-	-	-	-	-	-	0.04	
4	Banasurasagar, Wayanad	0.01	-	-	-	-	-	-	*	
VI	Solar (IPP)									
1	Cochin International Airport Ltd	13							11.42	10.99
2	Hindal co Generation									1.61
3	Anert, Kuzhalmadam									0.93
4	Ambalathara -Solar Park IPP									7.55
	Total	239.54	487.66	564.21	514.07	456.37	660.74	623.36	613.83	551.97

* 10kW floating solar project at Banasurasagar is an innovative project

TABLE 19
GENERATION, PURCHASE, SALES AND LOSSES

Sl. No.	Year	Total internal Generation excluding auxillary consumption (MU)	Power purchase (CGS, IPPs, Traders) (MU)	External PGCIL Line Losses (MU)	Net generation & purchase (MU)	Energy injected at gen.end by open access consumers for sale outside state (MU)	Energy purchased by open access consumers at Kerala periphery (MU)	Energy Sale by KSEBL to outside State (MU)	Energy injected at Kerala periphery by CPP's 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 (%)
														(MU)	(%)	
		(1)	(2)	(3)	(4)= (1) +(2)-(3)	(5)	(6)	(7)	(8)	(9)=(4+5+6-7-8)	(10)	(11)	(12)=(10 +11)	(13)=(9-12)	(13/9)*100**	
1	1997-98	5158.48	4236.92		9395.40			0.73		9394.67		7715.50	7715.50	1679.17	17.87	
2	1998-99	7569.05	3595.56		11164.61			0.00		11164.61		9183.00	9183.00	1981.61	17.75	
3	1999-00	7605.94	4275.04		11880.98			0.00		11880.98		9813.00	9813.00	2067.98	17.41	
4	2000-01	6921.00	5543.00		12464.00			0.00		12464.00		10319.00	10319.00	2145.00	17.21	
5	2001-02	7085.73	5699.54	255.06	12530.21			11.90		12518.31		8667.31	8667.31	3851.00	30.76	
6	2002-03	5420.34	7330.80	238.81	12512.33			121.20		12391.13		8752.10	8752.10	3639.03	29.37	
7	2003-04	4439.96	8015.41	174.50	12280.87			0.00		12280.87		8910.84	8910.84	3370.03	27.44	30.34
8	2004-05	6328.98	6390.79	214.93	12504.84			0.00		12504.84		9384.40	9384.40	3120.44	24.95	27.67
9	2005-06	7554.08	6700.50	287.64	13966.94			635.91		13331.03		10269.80	10269.80	3061.23	22.96	23.90
10	2006-07	7695.11	8149.84	370.10	15474.85			1046.89		14427.96		11331.00	11331.00	3096.96	21.46	22.29
11	2007-08	8647.69	8074.62	310.40	16411.91			1346.76		15065.15		12049.85	12049.85	3015.30	20.02	21.68
12	2008-09	6440.44	9628.87	312.57	15756.74			463.33		15293.41		12414.32	12414.32	2879.09	18.83	21.09
13	2009-10	7189.51	10204.21	357.53	17036.19			53.90		16982.29		13971.09	13971.09	3011.20	17.73	19.62
14	2010-11	7359.97	10512.27	401.73	17470.51			130.24		17340.27		14547.90	14547.90	2792.37	16.10	17.63
15	2011-12	8289.91	11263.21	413.21	19139.90			201.10		18938.80		15980.53	15980.53	2958.27	15.62	17.28
16	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	16.25
17	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	16.14
18	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	15.75
19	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	15.71
20	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	16.26

** AT & C loss =((9) - ((12) x collection efficiency)) / (9) x 100

TABLE 20
SALES, REVENUE AND PERCAPITA CONSUMPTION

Sl. No.	Year	Total energy sales by KSEBL (MU)	Energy sales within the State (MU)	Energy sales within the State including open access (MU)	Revenue from sale of electricity (Rs. Crore)	Percapita consumption (kWh)
1	1990-91	5332.00	5327.27		280.47	185
2	1991-92	5598.18	5596.00		330.37	192
3	1992-93	5838.50	5651.73		431.77	198
4	1993-94	6234.16	6218.21		530.88	208
5	1994-95	7027.69	7027.69		633.15	231
6	1995-96	7418.71	7414.62		711.16	240
7	1996-97	7022.74	7020.77		691.88	224
8	1997-98	7716.23	7715.50		977.29	243
9	1998-99	9183.00	9183.00		1205.28	278
10	1999-00	9813.00	9813.00		1624.09	301
11	2000-01	10319.00	10319.00		1746.79	312
12	2001-02	8679.21	8667.31		1946.00	271
13	2002-03	8873.30	8752.10		2480.69	272
14	2003-04	8910.84	8910.84		2756.09	275
15	2004-05	9384.40	9384.40		2917.36	289
16	2005-06	10905.70	10269.80		3367.30	314
17	2006-07	12377.89	11331.00		4009.71	345
18	2007-08	13396.61	12049.85		4696.95	366
19	2008-09	12877.65	12414.32		4893.02	375
20	2009-10	14024.99	13971.09		4747.17	420
21	2010-11	14678.14	14547.90		5198.52	436
22	2011-12	16181.63	15980.53		5593.02	478
23	2012-13	16839.21	16838.24	16838.29	7223.39	499
24	2013-14	18868.65	17454.05	17470.86	9974.18	516
25	2014-15	18784.35	18426.27	18430.73	9879.34	541
26	2015-16	19378.58	19325.07	19460.32	10487.71	569
27	2016-17	20087.54	20038.25	20452.91	11035.88	592

TABLE 21
ALLOCATION FROM CENTRAL GENERATING STATIONS TO KERALA

Name of ISGS	NTPC								NLC								NTECL		NTPL		NPCL								Total Allocation from SR	Allocation from Northern Region	Grand Total Allocation						
	Ramagundam Stage I&II		Ramagundam Stage III		Talcher Stage II		Simhadri Stage II		NLC TPS-II Stage I		NLC TPS-II Stage II		NLC TPS-I Expn.		NLC TPS-II Expn.		Vallur		Tutucorin		MAPS		Kaiga 1&2		Kaiga 3&4		Koodankulam					Koodankulam U2		Kudgi			
Installed Capacity (MW)	2100		500		2000		1000		630		840		420		500		1500		1000		440		440		440		1000		1000		800						
Firm allocation (% and MW)	11.67%	245	12.20%	61	12.35%	247	8.09%	81	10%	63	10.71%	90	14%	59	14%	70	3.33%	50	7.25%	72.5	5.23%	23	8.64%	38	7.95%	35	###	133	13.30%	133	4.38%	35	1242.74	0	1242.74		
Total allocation (firm + unallocated)																																					
Period	Time Slot	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)
w.e.f. 2.03.16	18.00-22.00	11.67	245.07	12.20	61.00	21.35	427.00	8.98	89.80	10.00	63.00	10.71	89.96	16.14	67.79	16.14	80.70	3.33	49.95	7.25	72.50	5.23	23.01	8.64	###	7.95	34.98	13.30	133					1475.78	0.00	1475.78	
	02.00- 06.00	11.67	245.07	12.20	61.00	21.35	427.00	8.98	89.80	10.00	63.00	10.71	89.96	16.02	67.28	16.14	80.70	3.33	49.95	7.25	72.50	5.23	23.01	8.64	###	7.95	34.98	13.30	133					1475.28	0.00	1475.28	
	Rest of the day	11.67	245.07	12.20	61.00	21.35	427.00	8.98	89.80	10.00	63.00	10.71	89.96	15.91	66.82	15.91	79.55	3.33	49.95	7.25	72.50	5.23	23.01	8.64	###	7.95	34.98	13.30	133					1473.66	0.00	1473.66	
w.e.f. 14.09.16	18.00-22.00	11.67	245.07	12.20	61.00	21.35	427.00	8.98	89.80	10.00	63.00	10.71	89.96	16.13	67.75	16.13	80.65	3.33	49.95	7.25	72.50	5.23	23.01	8.64	###	7.95	34.98	13.98	140	15.65	156.50			1638.99	0.00	1638.99	
	02.00- 06.00	11.67	245.07	12.20	61.00	21.35	427.00	8.98	89.80	10.00	63.00	10.71	89.96	16.04	67.37	16.04	80.20	3.33	49.95	7.25	72.50	5.23	23.01	8.64	###	7.96	35.02	13.94	139	15.65	156.50			1637.80	0.00	1637.80	
	Rest of the day	11.67	245.07	12.20	61.00	21.35	427.00	8.98	89.80	10.00	63.00	10.71	89.96	15.94	66.95	15.94	79.70	3.33	49.95	7.25	72.50	5.23	23.01	8.64	###	7.96	35.02	13.92	139	15.65	156.50			1636.68	0.00	1636.68	
w.e.f. 31.03.17	18.00-22.00	11.67	245.07	12.20	61.00	21.35	427.00	8.98	89.80	10.00	63.00	10.71	89.96	16.13	67.75	16.13	80.65	3.33	49.95	7.25	72.50	5.23	23.01	8.64	###	7.95	34.98	13.98	140	13.30	133.00			1615.49	0.00	1615.49	
	02.00- 06.00	11.67	245.07	12.20	61.00	21.35	427.00	8.98	89.80	10.00	63.00	10.71	89.96	16.04	67.37	16.04	80.20	3.33	49.95	7.25	72.50	5.23	23.01	8.64	###	7.96	35.02	13.94	139	13.30	133.00			1614.30	0.00	1614.30	
	Rest of the day	11.67	245.07	12.20	61.00	21.35	427.00	8.98	89.80	10.00	63.00	10.71	89.96	15.94	66.95	15.94	79.70	3.33	49.95	7.25	72.50	5.23	23.01	8.64	###	7.96	35.02	13.92	139	13.30	133.00			1613.18	0.00	1613.18	

TABLE 22
TRANSMISSION & DISTRIBUTION LINES

Sl.No.	Year	Particulars in kilometers						
		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
7	2000-01	2577.89	3558.09	1999.05	185.12	99.94	29,334	1,89,917
8	2001-02	2577.89	3610.72	2012.37	305.42	102.94	30,269	1,94,678
9	2002-03	2577.89	3647.11	2056.77	408.17	102.94	31,352	1,99,721
10	2003-04	2582.15	3822.81	2067.02	514.24	156.59	32,578	2,04,385
11	2004-05	2594.35	3894.67	2072.06	686.01	156.59	33,534	2,10,458
12	2005-06	2640.85	3965.97	2120.51	778.72	156.59	34,596	2,17,899
13	2006-07	2640.85	3993.71	2150.78	909.77	156.59	36,419	2,26,128
14	2007-08	2641.86	4050.09	2161.91	1015.21	156.59	38,235	2,34,286
15	2008-09	2641.86	4067.59	2161.91	1184.78	156.59	41,283	2,41,849
16	2009-10	2734.70	4115.89	2161.91	1390.20	156.59	44,682	2,49,687
17	2010-11	2734.70	4150.11	2161.91	1453.80	160.59	48,342	2,56,449
18	2011-12	2734.70	4151.00	2161.91	1534.80	160.59	51,328	2,60,554
19	2012-13	2761.57	4178.55	2166.51	1599.70	160.59	52,907	2,63,620
20	2013-14	2765.00	4260.27	2202.81	1719.28	160.59	53,579	2,64,117
21	2014-15	2801.20	4299.67	2202.81	1761.57	160.59	55,386	2,68,753
22	2015-16	2801.88	4345.52	2220.56	1826.66	160.59	57,489	2,85,970
23	2016-17	2801.88	4460.75	2154.75	1902.43	160.59	59,335	2,91,328

TABLE 23
PUMPSETS, STREET LIGHTS AND DISTRIBUTION TRANSFORMERS

Sl. No	Year	No. of Pumpsets energised	No. of Street lights installed	No. of Distribution transformers
1	1988-89	1,93,062	4,81,221	15,177
2	1989-90	1,99,504	4,98,493	16,394
3	1990-91	2,18,446	5,21,297	17,838
4	1991-92	2,38,206	5,44,744	18,843
5	1992-93	2,60,433	5,68,709	19,885
6	1993-94	2,71,192	5,74,273	21,141
7	1994-95	2,85,322	5,88,808	22,231
8	1995-96	2,99,288	6,02,582	24,711
9	1996-97	3,09,313	6,12,334	25,940
10	1997-98	3,23,573	6,29,410	26,826
11	1998-99	3,47,208	6,58,643	28,058
12	1999-00	3,67,919	7,16,390	29,551
13	2000-01	3,86,416	7,63,912	30,511
14	2001-02	3,88,913	7,97,053	31,767
15	2002-03	3,90,476	8,20,201	32,637
16	2003-04	3,98,996	8,54,584	33,940
17	2004-05	4,12,602	9,08,016	35,822
18	2005-06	4,23,571	9,60,839	37,573
19	2006-07	4,35,673	9,99,599	39,697
20	2007-08	4,40,958	10,49,047	42,250
21	2008-09	4,31,745	10,86,688	46,359
22	2009-10	4,37,877	11,48,220	52,149
23	2010-11	4,46,460	12,02,988	57,954
24	2011-12	4,55,078	12,18,610	62,329
25	2012-13	4,66,289	12,57,285	64,972
26	2013-14	4,78,449	12,97,480	67,546
27	2014-15	4,90,056	13,49,101	71,195
28	2015-16	5,00,082	14,07,024	73,460
29	2016-17	5,12,339	14,12,689	75,580

TABLE 24
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	1989-90	31,92,139	4,165.70
2	1990-91	34,49,888	4,642.68
3	1991-92	36,97,711	5,526.01
4	1992-93	39,30,290	6,575.94
5	1993-94	41,54,504	4,932.73
6	1994-95	44,17,366	5,397.21
7	1995-96	46,85,880	5,776.09
8	1996-97	49,23,041	6,089.41
9	1997-98	52,10,674	6,460.68
10	1998-99	56,39,130	7,275.00
11	1999-00	60,29,744	8,150.00
12	2000-01	64,46,298	8,552.00
13	2001-02	66,62,528	8,917.08
14	2002-03	69,48,571	9,394.50
15	2003-04	73,00,078	9,910.15
16	2004-05	77,99,276	10,333.51
17	2005-06	82,95,081	10,907.20
18	2006-07	87,13,870	11,465.69
19	2007-08	90,33,756	12,378.00
20	2008-09	93,63,461	15,267.44
21	2009-10	97,43,476	15,866.55
22	2010-11	1,01,27,946	16,681.85
23	2011-12	1,04,57,637	17,518.42
24	2012-13	1,08,06,890	18,523.51
25	2013-14	1,11,92,890	19,684.15
26	2014-15	1,14,30,895	20,391.53
27	2015-16	1,16,68,031	20,980.82
28	2016-17	1,19,94,816	22,040.62

TABLE 25
CONSUMERS AND CONNECTED LOAD - CATEGORY WISE

(Connected load in MW)

Sl.No	Category	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
1	Domestic												
	No. of Consumers	65,45,692	68,80,500	71,37,739	74,81,601	77,90,132	80,92,072	83,24,961	85,73,938	87,88,916	89,87,947	91,24,747	9384957
	Connected Load	6,646.73	7,014.07	7,420.56	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
2	Commercial LT												
	No. of Consumers	12,02,674	12,71,150	13,29,206	13,25,109	13,88,981	14,57,682	15,39,025	16,33,952	17,82,286	18,30,937	19,23,402	1360200
	Connected Load	1,335.52	1,443.67	1,902.79	2,341.44	2,413.56	2,778.91	2,635.81	2,790.58	2,905.34	3,176.57	3309.08	1852.58
3	Industrial LT												
	No. of Consumers	1,19,021	1,22,308	1,22,449	1,19,871	1,22,325	1,27,354	1,32,051	1,31,583	1,37,744	1,42,001	1,36,693	141683
	Connected Load	1,239.35	1,284.95	1,290.82	1,425.26	1,472.69	1,516.56	1,560.32	1,539.24	1,620.52	1656.73	1647.07	1688.59
4	HT & EHT												
	No. of Consumers	1,782	1,897	1,014	2,387	1,166	1,269	3,341	3,631	4,256	3,475	5,005	5335
	Connected Load	780.04	800.90	658.03	891.21	920.86	724.11	1,057.38	1,140.19	1,316.68	1,182.90	1445.81	1436.42
5	Public lighting												
	No. of Consumers	2,325	2,325	2,325	2,729	2,927	3,038	3,160	3,505	3,789	4,072	4,281	20350
	Connected Load	84.98	88.81	118.54	82.66	93.80	91.09	93.12	105.70	110.99	118.55	124.13	140.95
6	Agricultural												
	No. of Consumers	4,23,571	4,35,673	4,41,005	4,31,745	4,37,925	4,46,510	4,55,078	4,60,263	4,63,006	4,61,333	4,73,882	447551
	Connected Load	738.58	740.49	886.18	887.90	899.38	924.49	926.68	956.77	952.77	949.82	950.19	874.17
7	Licensees												
	No. of Consumers	11	11	11	11	12	13	13	10	11	11	12	12
	Connected Load	53.58	54.58	57.96	60.88	83.31	83.71	83.67	83.42	79.13	106.75	88.99	111.17
8	Railway Traction												
	No. of Consumers	5	6	7	8	8	8	8	8	8	8	9	12
	Connected Load	28.42	38.22	43.12	56.35	64.19	65.27	65.27	65.27	66.25	66.25	65.79	91
9	General												
	No. of Consumers									12,874	1,111		634716
	Connected Load									204.23	217.13		1639.49
	Total												
	No. of Consumers	82,95,081	87,13,870	90,33,756	93,63,461	97,43,476	1,01,27,946	1,04,57,637	1,08,06,890	1,11,92,890	1,14,30,895	1,16,68,031	1,19,94,816
	Connected Load	10,907.20	11,465.69	12,378.00	15,267.44	15,866.55	16,681.85	17,518.42	18,523.51	19,684.15	20,391.53	20,980.82	22,040.62

TABLE 26
SALES AND REVENUE - CATEGORY WISE

(Sales in MU, Revenue in Rs. Crore)

Sl.No	Category	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
1	Domestic												
	A. Sales	4668.36	5213.15	5602.85	5931.27	6559	6877.83	7705.86	8313.36	8739.52	9367.26	9943.5	10280.74
	B. Revenue	797.66	869.18	962.92	1,135.91	1,254.98	1,363.44	1,531.84	2,154.16	2699.20	3176.56	3744.1	3953.34
2	Commercial												
	A. Sales	1092.66	1245.8	1378.33	1501.6	1793	1951.74	2141.22	2224.06	2229.33	2418.28	2735.36	1434.09
	B. Revenue	724.44	823.07	921.00	1,116.66	1,259.39	1,410.83	1,592.83	1,855.38	2102.15	2172.38	2448.5	1356.61
3	Industrial LT												
	A. Sales	873.9	933.93	984.18	1015.4	1064	1053.45	1097.04	1101.96	1096.57	1096.93	1103.23	1131.906
	B. Revenue	362.41	387.33	408.19	466.89	453.70	460.54	461.39	587.11	682.52	704.89	746.63	754.72
4	HT & EHT												
	A. Sales	2883.5	3081.63	3139.5	2986.97	3417.09	3563.14	3829.39	3905.15	4035.48	4139.71	4106	4128.21
	B. Revenue	1,128.70	1,214.59	1,259.70	1,433.06	1,416.30	1,512.83	1,600.75	2,146.40	2576.37	2581.31	2816.9	2854.08
5	Public Lighting												
	A. Sales	207.78	228.74	248.56	294.32	303	265.68	294.26	313.2	319.06	346.43	366.62	375.76
	B. Revenue	38.07	42.81	47.26	58.96	58.07	56.28	63.86	94.32	118.99	137.81	156.36	156.64
6	Agricultural												
	A. Sales	189.57	220.24	230.55	225.22	257	231.56	286.18	306.08	310.25	298.28	279.48	321.98
	B. Revenue	18.88	22.54	24.31	30.48	28.24	26.65	30.77	47.28	56.57	60.44	65.62	102.01
7	Licencees												
	A. Sales	296.09	335.35	356.62	317.47	413	448.11	472.09	500.76	523.15	554.06	578.08	612.1
	B. Revenue	80.90	92.67	102.23	144.68	143.33	163.46	183.27	255.31	293.64	313.29	347.04	363.25
8	Railway Traction												
	A. Sales	57.94	72.16	109.26	142.07	165	156.39	154.49	173.67	200.69	205.31	212.83	229.58
	B. Revenue	19.72	24.15	39.23	67.60	65.65	64.46	61.68	82.5	107.77	113.1	120.86	130.52
9	Export												
	A. Sales	635.9	1046.89	1346.76	463.33	53.9	130.24	201.1	0.97	1414.60	358.09	53.48	49.3
	B. Revenue	196.51	533.36	932.12	438.79	67.51	140.03	66.63	0.93	1336.98	619.56	41.7	12.27
10	LT General												
	A. Sales												1523.87
	B. Revenue												1352.44
	Total												
	A. Sales	10905.70	12377.89	13396.61	12877.65	14024.99	14678.14	16181.63	16839.21	18868.65	18784.35	19378.58	20087.54
	B. Revenue	3,367.30	4,009.71	4,696.95	4,893.02	4,747.17	5,198.52	5,593.02	7,223.39	9,974.18	9,879.34	10,487.71	11,035.88

TABLE 27
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	1997-98	198.82	197.96	254.03	141.70	175.50	205.50	111.65	41.95	740.00	587.11	284.42	130.11	194.38	15.17	624.08
2	1998-99	264.35	428.86	139.00	110.50	154.85	250.47	192.80	49.99	751.00	839.82	391.85	123.57	144.96	5.53	665.91
3	1999-00	377.82	214.51	95.85	231.00	240.50	240.03	126.58	31.73	840.75	717.27	231.56	112.02	202.39	153.81	699.78
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	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
19	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
20	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

* Provisional figures

TABLE 28
AVERAGE REALISATION - CATEGORY WISE

(All figures in Ps./kWh)

Sl. No	Year	Domestic	Commercial	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* 498.58**	334.73	324.13
8	2007-08	172.1	668.2	414.75	401.24	190.15	105.45		286.65	397.67* 966.36**	359.04	350.81
9	2008-09	191.71	743.65	459.81	479.77	200.31	135.35		455.72	947.03	475.84	380.14
10	2009-10	191.46	702.39	426.41	414.47	191.64	109.9		347.05	851.50* 715.96**	397.87	338.03
11	2010-11	198.32	722.86	437.17	424.58	211.82	115.11		364.77	1207.34* 1071.85**	412.16	354.24
12	2011-12	201.54	745.97	421.87	418.02	217.01	110.3		388.2	1144* 1075.78**	399.25	347.39
13	2012-13	259.18	834.23	533.35	549.63	301.15	152.47		509.84	958.76	475.04	428.98
14	2013-14	308.85	942.95	622.41	638.43	372.95	182.34		561.29	945.13	536.99	528.61
15	2014-15	339.11	898.32	642.60	623.55	397.80	202.63		565.44	1730.18	550.87	525.93
16	2015-16	376.54	895.13	676.77	686.04	426.49	234.79		600.33	779.73	567.87	541.20
17	2016-17	384.54	945.97	666.77	691.36	416.86	316.82		593.45	248.88	568.52	549.39

* interstate sale to TNEB

** Sale through traders/ power exchanges

TABLE 29
AVERAGE ENERGY SALES AND REVENUE PER CONSUMER

(Sales in kWh, Revenue in Rs.)

Sl. No	Year	Particulars	Domestic	Commercial	Industrial LT	HT & EHT	Agriculture	Public Water works*	Public Lighting	Bulk Supply	Traction
1	2001-02	a. Sales/Consumer	709	848	5,674	16,36,878	477	1,61,492	64,766	2,50,14,285	1,55,70,000
		b. Revenue/Consumer	776	4,972	20,561	42,81,384	440	3,33,232	99,088	4,59,77,143	3,09,31,333
2	2002-03	a. Sales/Consumer	727	889	6,511	17,42,136	452		66,933	2,60,92,857	1,54,66,667
		b. Revenue/Consumer	1,063	5,542	25,914	60,03,184	437		1,09,396	5,35,60,000	4,86,50,667
3	2003-04	a. Sales/Consumer	696	847	6,965	26,46,558	506		71,260	2,09,30,000	1,15,30,000
		b. Revenue/Consumer	1,223	4,51,871	28,352	1,03,42,697	493		1,21,142	6,44,05,000	4,19,95,000
4	2004-05	a. Sales/Consumer	694	842	6,805	16,18,126	462		78,581	2,35,00,000	1,09,00,000
		b. Revenue/Consumer	1,223	5,633	28,222	63,33,886	456		1,43,600	6,40,08,444	4,00,60,750
5	2005-06	a. Sales/Consumer	713	909	7,342	16,18,126	448		89,368	2,69,17,273	2,69,17,273
		b. Revenue/Consumer	1,219	6,024	30,449	63,33,886	446		1,63,756	7,35,46,727	7,35,46,727
6	2006-07	a. Sales/Consumer	758	980	7,632	16,24,143	506		1,02,804	3,04,86,364	1,20,26,667
		b. Revenue/Consumer	1,263	6,475	31,668	64,02,706	517		1,92,409	8,42,49,066	4,02,57,272
7	2007-08	a. Sales/Consumer	785	1,037	8,037	30,96,154	523		1,06,908	3,24,20,000	1,56,08,571
		b. Revenue/Consumer	1,349	6,929	33,335	1,24,23,007	551		2,03,285	9,29,31,909	5,60,41,757
8	2008-09	a. Sales/Consumer	793	1,133	8,471	12,51,349	522		1,07,849	2,88,60,909	1,77,58,750
		b. Revenue/Consumer	1,518	8,427	38,949	60,03,584	706		2,16,036	13,15,24,188	8,45,03,653
9	2009-10	a. Sales/Consumer	842	2,010	8,698	11,98,979	587		1,03,519	3,44,16,667	2,06,25,000
		b. Revenue/Consumer	1,611	9,078	37,090	49,69,464	645		1,98,384	11,94,43,056	8,20,61,187
10	2010-11	a. Sales/Consumer	850	1,339	8,272	21,25,398	537		87,452	3,44,70,000	1,95,48,750
		b. Revenue/Consumer	1,685	9,679	36,162	1,19,21,432	597		1,85,244	12,57,36,615	8,05,71,875
11	2011-12	a. Sales/Consumer	926	1,391	8,308	11,46,181	629		93,120	3,63,14,615	1,93,11,250
		b. Revenue/Consumer	1,840	10,350	34,940	47,91,231	676		2,02,084	14,09,74,538	7,71,01,125
12	2012-13	a. Sales/Consumer	970	1,361	8,375	10,75,503	665		89,358	5,00,76,000	2,17,08,750
		b. Revenue/Consumer	2,512	11,355	44,619	59,11,319	1,027		2,69,101	25,53,10,000	10,31,25,000
13	2013-14	a. Sales/Consumer	994	1,251	7,961	9,48,186	670		84,207	4,75,59,091	2,50,86,250
		b. Revenue/Consumer	3,071	11,795	49,550	60,53,505	1,222		3,14,048	26,69,44,500	13,47,10,698
14	2014-15	a. Sales/Consumer	1,042	1,321	7,725	11,91,283	647		85,076	5,03,69,091	2,56,63,750
		b. Revenue/Consumer	3,534	11,865	49,640	74,28,230	1,310		3,38,433	28,48,09,091	14,13,75,000
15	2015-16	a. Sales/Consumer	1,090	1,422	8,071	8,20,380	590		85,639	4,81,73,333	2,36,47,778
		b. Revenue/Consumer	4,103	14,221	54,621	56,28,172	1,385		3,65,242	28,92,00,000	13,42,88,889
16	2016-17	a. Sales/Consumer	1,095	1,054	7,989	7,73,798	719		18,465	5,10,08,333	1,91,31,667
		b. Revenue/Consumer	4,212	29,064	53,268	53,49,728	2,279		76,973	30,27,08,333	10,87,66,667

* included in Industrial LT from 2002-03

**TABLE 30
DEMAND AND CONSUMPTION**

Day	April-16						May-16						June-16						July-16					
	Max. D (MW)	Mor. Peak (MW)	Min. D (MW)	Con. (MU)	LF (%)	Urs. D * (MW)	Max. D (MW)	Mor. Peak (MW)	Min. D (MW)	Con. (MU)	LF (%)	Urs. D (MW)	Max. D (MW)	Mor. Peak (MW)	Min. D (MW)	Con. (MU)	LF (%)	Urs. D (MW)	Max. D (MW)	Mor. Peak (MW)	Min. D (MW)	Con. (MU)	LF (%)	Urs. D (MW)
Day 1	3823	2979	2635	76.51	83.39	3948	3612	2851	2411	70.36	81.15	3612	3173	2588	2092	61.93	81.33	3173	3294	2428	1990	61.79	78.16	3294
Day 2	3718	3036	2734	76.21	85.40	3843	3939	2998	2788	79.14	83.71	4014	3358	2606	2076	62.33	77.34	3358	3302	2462	2103	63.20	79.76	3302
Day 3	3696	2897	2541	70.79	79.80	3696	3861	3140	2750	79.36	85.64	3986	3435	2647	2098	64.25	77.93	3435	3159	1911	1602	54.49	71.88	3159
Day 4	3823	2923	2691	75.96	82.78	3923	3747	3112	2762	77.27	85.92	3747	3396	2618	2165	63.97	78.48	3396	3096	2416	2005	59.85	80.53	3096
Day 5	3825	2999	2700	76.64	83.49	3950	3499	2939	2641	75.04	89.38	3624	3195	2358	2130	59.05	77.01	3195	3226	2468	1907	61.26	79.12	3226
Day 6	3834	3042	2699	76.74	83.41	3959	3828	2801	2617	75.43	82.11	3828	3496	2483	2152	63.68	75.89	3496	2929	2468	1919	57.33	81.57	2929
Day 7	3901	2952	2710	77.25	82.51	4001	3722	2668	2383	72.08	80.69	3847	3292	2458	2212	62.79	79.47	3292	3201	2339	1873	60.02	78.11	3201
Day 8	3749	2997	2720	76.90	85.47	3824	3549	2837	2398	68.94	80.93	3549	3209	2420	2084	60.39	78.41	3209	3103	2510	1936	60.20	80.84	3103
Day 9	3584	2873	2559	72.03	83.75	3584	3750	2748	2610	75.33	83.69	3875	3198	2471	1966	60.43	78.74	3198	3135	2267	1782	58.14	77.28	3135
Day 10	3473	2780	2374	67.86	81.41	3473	3124	2898	2220	69.45	94.37	3124	2846	2482	2031	58.66	85.88	2846	2852	2133	1834	53.47	78.13	2852
Day 11	3786	2847	2616	74.51	82.01	3911	3394	2509	2168	65.24	80.10	3469	2998	2262	1905	57.43	79.81	2998	3130	2460	1784	58.20	77.48	3130
Day 12	3770	3003	2708	76.15	84.16	3895	3399	2453	2202	66.58	81.61	3399	3121	2228	1902	54.87	73.26	3121	3141	2422	1859	57.96	76.89	3141
Day 13	3831	3075	2675	77.22	83.99	3906	3551	2649	2444	70.18	82.35	3551	3315	2382	1962	60.80	76.43	3315	3210	2511	1856	59.55	77.29	3210
Day 14	3463	3044	2519	73.82	87.74	3563	3175	2763	2403	67.64	92.63	3175	3377	2511	2105	62.58	77.20	3377	3141	2561	1869	59.99	79.58	3141
Day 15	3844	2884	2581	76.79	83.22	3919	3160	2382	2094	60.07	79.21	3160	3334	2542	2096	63.47	79.31	3334	3230	2590	1877	60.96	78.65	3230
Day 16	3823	3142	2824	77.66	84.64	3948	3274	2447	2243	61.53	78.29	3274	3094	2503	2183	60.74	81.78	3094	3152	2452	1973	60.82	80.40	3152
Day 17	3620	2969	2553	71.87	82.72	3745	3191	2451	2193	61.70	80.56	3191	3111	2512	2025	60.40	80.88	3111	3008	2287	1974	56.26	77.92	3008
Day 18	3870	2991	2753	77.30	83.22	3995	3475	2398	2024	64.31	77.12	3475	3014	2364	2065	58.75	81.21	3014	3211	2567	1898	60.37	78.33	3211
Day 19	3883	3059	2802	77.93	83.64	4008	3471	2743	2179	68.51	82.25	3471	2934	2122	1895	53.42	75.86	2934	3255	2591	1956	61.05	78.16	3255
Day 20	3776	3121	2794	77.37	85.37	3876	3482	2341	1991	64.07	76.68	3482	3189	2386	1887	58.73	76.74	3189	3337	2645	2010	62.34	77.84	3337
Day 21	3884	3023	2855	77.96	83.64	4009	3615	2637	2306	68.09	78.49	3615	3220	2491	1945	59.16	76.55	3220	3326	2647	2051	62.45	78.24	3326
Day 22	3844	3009	2828	78.51	85.11	3969	3536	2640	2357	66.53	78.41	3536	2835	2473	1935	57.22	84.10	2835	3265	2656	2048	62.23	79.41	3265
Day 23	3740	3039	2777	76.98	85.77	3815	3757	2678	2456	71.68	79.49	3757	3002	2303	1775	55.27	76.72	3002	3124	2390	1939	59.50	79.35	3124
Day 24	3640	3033	2506	71.74	82.13	3640	3676	2866	2571	73.71	83.55	3676	3013	2322	1823	56.70	78.42	3013	2921	2264	1863	54.74	78.08	2921
Day 25	3768	3000	2719	77.65	85.87	3918	3529	2740	2504	70.28	82.97	3529	3058	2283	1834	56.70	77.25	3058	3346	2550	1874	60.85	75.76	3346
Day 26	3850	3073	2853	78.63	85.11	3925	3658	2657	2373	69.30	78.94	3658	3024	2158	1842	54.23	74.72	3024	3373	2653	2015	63.02	77.85	3373
Day 27	4004	3142	2860	80.34	83.61	4079	3481	2747	2449	69.24	82.88	3481	3039	2392	1890	58.32	79.96	3039	3244	2683	2062	62.74	80.59	3244
Day 28	3902	3097	2930	80.44	85.90	3977	3184	2588	2287	64.98	85.02	3184	3133	2385	1890	57.69	76.74	3133	3306	2630	2021	62.73	79.05	3306
Day 29	3922	3151	2836	80.44	85.46	3997	3228	2484	2064	59.65	76.99	3228	3150	2393	1879	58.29	77.12	3150	3321	2658	2053	62.85	78.86	3321
Day 30	3534	3093	2882	77.54	91.42	3659	3360	2507	2215	64.98	80.58	3360	3202	2234	1689	58.18	75.71	3202	3262	2512	2020	62.70	80.09	3262
Day 31							3300	2579	2195	63.80	80.56	3300							3118	2374	2010	57.84	77.30	3118

Note : Urs.D * -Unrestricted demand

Table 30 continued

**TABLE30
DEMAND AND CONSUMPTION**

Day	August-16						September-16						October-16						November-16					
	Max. D (MW)	Mor. Peak (MW)	Min. D (MW)	Con. (MU)	LF (%)	Urs. D* (MW)	Max. D (MW)	Mor. Peak (MW)	Min. D (MW)	Con. (MU)	LF (%)	Urs. D (MW)	Max. D (MW)	Mor. Peak (MW)	Min. D (MW)	Con. (MU)	LF (%)	Urs. D (MW)	Max. D (MW)	Mor. Peak (MW)	Min. D (MW)	Con. (MU)	LF (%)	Urs. D (MW)
Day 1	3318	2621	2030	62.77	78.83	3318	3328	2657	1995	63.29	79.23	3328	3390	2604	2110	65.09	80.00	3390	3357	2786	2179	64.40	79.92	3357
Day 2	3356	2484	2063	63.90	79.35	3356	2893	2198	1891	54.67	78.73	2893	3121	2383	2079	58.09	77.56	3121	3560	2685	2083	64.81	75.86	3560
Day 3	3447	2750	2089	64.60	78.08	3447	3310	2512	1852	61.60	77.54	3310	3473	2572	2023	64.72	77.65	3473	3487	2701	2113	65.33	78.06	3487
Day 4	3374	2684	2134	64.05	79.09	3374	3113	2463	2091	58.82	78.72	3113	3536	2773	2206	66.90	78.83	3536	3428	2758	2102	65.14	79.17	3428
Day 5	3358	2634	2066	62.51	77.56	3358	3481	2601	2029	64.74	77.51	3481	3529	2830	2214	67.56	79.78	3529	3429	2653	2084	65.32	79.37	3429
Day 6	3384	2586	2078	63.55	78.24	3384	3466	2714	2178	65.73	79.01	3466	3543	2847	2261	67.29	79.13	3543	3082	2543	2089	58.73	79.39	3082
Day 7	3088	2383	2058	57.98	78.23	3088	3463	2715	2132	65.67	79.01	3463	3441	2744	2187	66.42	80.43	3441	3444	2696	2015	62.85	76.05	3444
Day 8	3445	2651	2018	62.77	75.91	3445	3398	2708	2153	65.40	80.18	3398	3311	2626	2157	65.26	82.12	3311	3441	2693	2090	64.09	77.61	3441
Day 9	3367	2675	2059	64.04	79.25	3367	3513	2757	2150	65.88	78.14	3513	3082	2443	2129	59.83	80.87	3082	3390	2741	2070	63.68	78.26	3390
Day 10	3453	2699	2121	64.34	77.63	3453	3428	2605	2157	65.96	80.17	3428	3253	2424	2077	61.57	78.86	3253	3435	2727	2072	64.37	78.09	3435
Day 11	3410	2691	2162	65.46	79.98	3460	3279	2518	2179	62.17	79.01	3279	3308	2484	2093	62.62	78.87	3308	3429	2699	2148	64.99	78.97	3429
Day 12	3405	2756	2174	64.74	79.23	3405	3320	2686	1910	62.70	78.70	3320	3447	2576	2131	66.51	80.40	3447	3389	2633	2204	65.30	80.29	3389
Day 13	3295	2554	2153	64.81	81.96	3295	3151	2452	2084	61.59	81.44	3151	3175	2424	2130	60.35	79.21	3175	3232	2516	2154	60.48	77.97	3252
Day 14	3071	2394	2099	58.77	79.72	3071	2804	2452	1946	56.33	83.71	2804	3429	2550	2007	63.42	77.06	3429	3476	2724	2113	65.56	78.58	3476
Day 15	3144	2414	1984	58.51	77.55	3144	3103	2261	1864	58.76	78.91	3103	3287	2688	2131	64.39	81.61	3287	3572	2800	2030	65.38	76.26	3572
Day 16	3315	2572	1956	62.59	78.68	3455	3169	2391	1996	60.85	80.01	3169	3183	2448	2102	59.43	77.79	3183	3492	2832	2251	66.60	79.47	3492
Day 17	3385	2733	2100	63.91	78.67	3510	3249	2379	1925	62.32	79.94	3249	3501	2759	2072	65.68	78.17	3501	3596	2804	2217	67.15	77.82	3596
Day 18	3377	2722	2039	63.83	78.75	3377	3051	2369	2085	58.31	79.62	3051	3604	2804	2230	67.13	77.62	3604	3517	2862	2317	67.77	80.29	3517
Day 19	3327	2688	2102	64.68	81.01	3477	3397	2598	2022	63.83	78.30	3397	3540	2829	2241	67.78	79.78	3540	3403	2741	2226	67.18	82.26	3403
Day 20	3361	2580	2159	65.38	81.06	3361	3355	2734	2138	65.15	80.93	3455	3559	2836	2258	67.44	78.96	3634	3167	2569	2152	60.68	79.84	3167
Day 21	3228	2562	2160	60.86	78.55	3228	3383	2498	2148	64.39	79.30	3533	3378	2785	2259	66.14	81.59	3453	3567	2707	2095	65.79	76.86	3567
Day 22	3532	2723	2154	65.89	77.72	3532	3421	2669	2105	64.46	78.50	3421	3403	2676	2117	65.28	79.94	3403	3599	2811	2205	67.18	77.77	3599
Day 23	3425	2775	2244	65.42	79.59	3425	3480	2732	2083	65.05	77.89	3480	3163	2492	2114	59.53	78.41	3163	3568	2817	2235	67.57	78.91	3568
Day 24	3463	2601	2164	66.69	80.23	3463	3439	2617	2115	64.26	77.85	3439	3463	2660	2125	65.24	78.51	3463	3591	2865	2217	67.25	78.03	3591
Day 25	3426	2720	2157	65.47	79.62	3426	3089	2403	2098	58.89	79.43	3089	3564	2805	2206	66.76	78.05	3564	3519	2808	2266	66.84	79.14	3519
Day 26	3364	2777	2126	65.25	80.81	3364	3448	2631	2030	64.13	77.48	3448	3511	2798	2257	67.27	79.83	3511	3405	2617	2200	65.07	79.63	3455
Day 27	3289	2642	2073	64.29	81.45	3289	3445	2712	2088	65.25	78.91	3445	3535	2864	2179	66.74	78.67	3535	3160	2510	2178	60.36	79.59	3160
Day 28	3083	2396	2002	58.42	78.95	3083	3457	2786	2176	65.76	79.25	3457	3527	2795	2212	66.99	79.14	3527	3258	2406	2098	59.77	76.43	3258
Day 29	3367	2602	2012	63.73	78.86	3367	3409	2766	1934	64.81	79.20	3409	3357	2593	2147	65.34	81.11	3357	3562	2730	2091	65.31	76.39	3562
Day 30	3331	2718	2122	63.42	79.33	3331	3454	2763	2125	65.36	78.86	3454	3131	2486	2208	59.51	79.19	3131	3435	2752	2159	65.22	79.12	3435
Day 31	3315	2683	2033	63.38	79.67	3315							3505	2499	1984	62.83	74.69	3505						

Note : Urs.D * -Unrestricted demand

Table 30 continued

**TABLE30
DEMAND AND CONSUMPTION**

Day	December-16						January-17						February-17						March-17					
	Max. D (MW)	Mor. Peak (MW)	Min. D (MW)	Con. (MU)	LF (%)	Urs. D* (MW)	Max. D (MW)	Mor. Peak (MW)	Min. D (MW)	Con. (MU)	LF (%)	Urs. D (MW)	Max. D (MW)	Mor. Peak (MW)	Min. D (MW)	Con. (MU)	LF (%)	Urs. D (MW)	Max. D (MW)	Mor. Peak (MW)	Min. D (MW)	Con. (MU)	LF (%)	Urs. D (MW)
Day 1	3340	2762	2087	62.92	78.50	3340	3010	2306	2025	56.26	77.88	3010	3540	2834	2269	68.35	80.46	3540	3613	2873	2420	70.38	81.17	3613
Day 2	3304	2648	1872	60.70	76.55	3304	3404	2442	1978	63.08	77.22	3404	3417	2808	2304	66.85	81.52	3417	3616	2830	2363	70.30	80.99	3616
Day 3	3200	2621	1969	61.56	80.16	3200	3483	2736	2090	64.65	77.35	3483	3417	2824	2241	66.06	80.54	3417	3601	2870	2477	71.21	82.41	3601
Day 4	3115	2298	1963	56.72	75.87	3115	3513	2744	2085	65.13	77.25	3513	3383	2667	2252	65.58	80.78	3383	3238	2829	2458	68.15	87.70	3238
Day 5	3454	2660	1982	64.10	77.34	3454	3431	2687	2159	64.55	78.40	3431	3123	2487	2117	59.13	78.90	3123	3359	2538	2242	63.28	78.50	3359
Day 6	3502	2765	2178	67.12	79.84	3502	3485	2768	2115	64.61	77.24	3485	3471	2770	2137	65.26	78.33	3471	3361	2692	2320	66.72	82.71	3361
Day 7	3426	2730	2171	64.06	77.91	3426	3344	2605	2097	63.64	79.29	3344	3533	2816	2273	67.29	79.36	3533	3398	2835	2320	68.80	84.37	3398
Day 8	3416	2706	2126	64.18	78.28	3416	3121	2455	2111	58.75	78.44	3121	3491	2812	2281	67.74	80.86	3491	3507	2799	2368	68.98	81.95	3507
Day 9	3431	2756	2085	64.88	78.80	3431	3433	2743	2084	63.63	77.23	3433	3506	2908	2311	67.57	80.29	3506	3426	2860	2353	69.53	84.55	3426
Day 10	3335	2660	2118	64.42	80.48	3335	3515	2764	2074	64.28	76.20	3515	3483	2828	2344	67.32	80.54	3483	3477	2877	2380	69.36	83.11	3477
Day 11	3070	2390	2080	57.41	77.91	3070	3458	2793	2107	63.74	76.81	3458	3453	2695	2292	66.77	80.57	3453	3462	2729	2384	68.19	82.08	3462
Day 12	3205	2373	1945	59.77	77.71	3205	3455	2770	2034	63.98	77.15	3455	3208	2566	2071	61.38	79.72	3208	3323	2637	2269	63.39	79.47	3323
Day 13	3097	2562	1969	59.89	80.56	3097	3408	2777	2068	64.22	78.51	3408	3464	2728	2146	64.93	78.09	3464	3572	2748	2340	68.48	79.88	3572
Day 14	3294	2608	1853	59.92	75.79	3294	3292	2639	2093	63.27	80.08	3292	3572	2833	2227	67.33	78.54	3572	3514	2855	2374	70.05	83.06	3514
Day 15	3360	2576	1894	61.12	75.79	3360	3115	2440	2059	57.90	77.46	3115	3614	2886	2330	68.85	79.38	3614	3212	2842	2415	67.26	87.24	3212
Day 16	3392	2646	2041	63.14	77.57	3392	3412	2674	2014	63.77	77.88	3412	3529	2851	2394	67.93	80.20	3529	3461	2707	2221	66.39	79.93	3461
Day 17	3409	2565	2060	63.64	77.78	3409	3481	2801	2045	64.30	76.97	3481	3447	2750	2276	65.84	79.60	3447	3593	2758	2251	68.22	79.11	3593
Day 18	3148	2406	2120	58.99	78.07	3148	3399	2703	2057	63.68	78.07	3399	3398	2643	2215	64.72	79.37	3398	3460	2732	2348	69.06	83.16	3460
Day 19	3470	2621	2055	64.12	76.98	3470	3405	2686	2072	62.69	76.72	3405	3223	2460	2099	59.73	77.22	3223	3402	2647	2288	64.14	78.56	3402
Day 20	3527	2752	2096	64.85	76.60	3527	3460	2768	2045	64.02	77.09	3460	3630	2741	2170	66.84	76.73	3630	3615	2843	2397	71.18	82.04	3615
Day 21	3469	2796	2101	66.40	79.75	3469	3396	2743	2154	64.80	79.52	3396	3662	2902	2301	69.02	78.54	3662	3477	2864	2484	70.98	85.05	3477
Day 22	3528	2833	2155	67.53	79.75	3528	3229	2446	2053	59.87	77.25	3229	3694	2965	2404	71.05	80.14	3694	3685	2872	2422	71.87	81.26	3685
Day 23	3460	2754	2214	67.51	81.31	3460	3413	2713	2128	64.47	78.71	3413	3592	2995	2468	71.22	82.61	3692	3711	2981	2548	73.61	82.65	3711
Day 24	3390	2649	2165	64.96	79.85	3390	3485	2775	2162	65.24	78.01	3485	3393	2794	2376	68.89	84.60	3493	3710	2919	2557	74.08	83.21	3710
Day 25	3006	2410	2143	58.23	80.73	3006	3438	2791	2185	65.50	79.38	3438	3592	2845	2446	69.27	80.36	3592	3727	2903	2617	74.02	82.75	3727
Day 26	3394	2432	2021	63.16	77.53	3394	3332	2633	2145	62.92	78.68	3332	3419	2716	2348	65.40	79.69	3419	3535	2844	2393	68.12	80.28	3585
Day 27	3476	2576	2107	65.47	78.46	3476	3285	2795	2163	64.98	82.42	3285	3663	2886	2423	70.68	80.39	3663	3805	2849	2476	74.31	81.37	3805
Day 28	3465	2670	2177	65.49	78.75	3465	3331	2661	2183	64.70	80.94	3331	3693	2999	2485	71.12	80.23	3693	3749	2963	2661	75.70	84.14	3749
Day 29	3275	2587	2194	62.75	79.83	3375	3271	2485	2126	60.80	77.45	3271							3792	2966	2673	75.81	83.31	3792
Day 30	3214	2522	2155	63.67	82.55	3514	3597	2774	2208	67.96	78.72	3597							3719	3033	2697	75.83	84.97	3744
Day 31	3313	2525	2076	62.76	78.93	3313	3591	2901	2334	68.70	79.71	3591							3658	2872	2645	75.29	85.76	3658

Note : Urs.D * -Unrestricted demand

TABLE 31
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
1998-99	45.73	27.11	8.57	19.42	6.32	8.33	29.78	47.88	3.87	1.78	2.27	2.48	1.53	1.37	1.81	1.53	-	-	0.12	0.10
1999-00	46.22	22.59	8.36	22.02	6.35	9.24	28.85	38.58	3.83	1.55	2.62	2.88	1.82	1.32	1.77	1.60	-	-	0.18	0.22
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	1.23	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	7.14	12.29	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

* included in Industrial LT from 2002-03

TABLE 32
COST PER UNIT SENT OUT

(All figures in Ps.)

Sl. No	Year	At Generation end		At Transmission end		At Distribution LT side	
		(a)	(b)	(a)	(b)	(a)	(b)
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

a. Cost per kWh sent out including interest charges

b. Cost per kWh sent out excluding interest charges

TABLE 33
LIST OF EHT CONSUMERS

SI 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	10000	8697	8110	8113	33401703	Tyre
2	12/941	Autokast Ltd	EHT II	110	3000	2381	1982	1908	5788600	Fast gray iron & cast iron
3	31/3416	Believers Church	EHT	110	2000	1360	1085	1043	7519740	Church, College
4	16/1666	Bharath Petroleum Corporation, Ernakulam	EHT II	110	850	562	639	609	2356000	Petroleum products
5	7/701	Binani Zinc Ltd	EHT II	110	18000	374	220	257	1167333	Zinc, Sulphuric acid, Cadmium
6	8/1234	Carborundum Universal Ltd, Edappally	EHT I	66	15000	11070	10782	10707	33494599	Brown fused alumina
7	8/854	Carborundum Universal Ltd, Koratty	EHT II	110	7500	6311	6314	6258	23855606	Abressive grains
8	8/4208	Co-operative Medical College, Kalamassery	EHT	110	1000	672	504	478	2916930	Hospital
9	29/3507	Cochin International Airport	EHT	110	4000	2812	3223	2932	8446659	Airport
10	2/201	Cochin Refineries Ltd	EHT III	220	40000	18782	12870	13520	33746000	Petroleum products
11	21/845	Cochin Shipyard Limited	EHT I	66	7500	7144	3991	4313	30078000	Ship
12	5/202	FACT Cochin Division	EHT II	110	12000	8214	7501	8202	47303050	Fertizer
13	5/501	FACT Udyogamandal	EHT II	110	14000	8383	8208	8169	51615350	Fertizer
14	4/437	Grasim Industries Ltd	EHT I	66	500	32	31	35	140500	
15	1/124	GTN Textiles Ltd, Aluva	EHT II	110	4500	4056	4033	4029	31581130	Yarn
16	3/325	Hindalco Industries Ltd	EHT II	110	5000	3116	3071	3102	17764000	Aluminium billets & extrusion press
17	8/851	Hindustan Machine Tools Ltd	EHT I	66	2900	2314	983	1028	3672600	Printing machines
18	11/1141	Hindustan News Print Ltd	EHT II	110	22000	17603	12508	17622	52884783	Newsprint

Table 33 continued

SI 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
19	15/1515	Hindustan Organic Chemicals Ltd	EHT I	66	9000	5254	5215	5184	34186200	Chemicals
20	13/1320	Indian Telephone Industries	EHT I	66	1500	1040	435	170	2934150	Electronic telephone exchanges
21	1/153	Indsil Electromelts Ltd	EHT I	66	14000	9590	9362	9408	55712889	Silica, Manganese
22	13/1351	International Airport Authority of India	EHT	66	3000	2287	2486	2241	15688200	Airport
23	18/635	Kerala Minerals & Metals Ltd.	EHT II	110	12500	11112	11083	11221	65094367	Titanium dioxide pigment
24	2/3737	Kochi Refineries Ltd - Pumping Station	EHT I	66	1400	1391	95	1401	4181400	Water pumping facility
25	26/7876	Kochi Metro Rail Project	EHT II	110	1000	960	1020	820	1105800	Railway
26	7/716	Madras Rubber Factory Ltd	EHT II	110	10000	8202	7729	7462	49556915	Rubber products
27	15/14/1337	Malabar Cements, Walayar	EHT II	110	10000	8852	6864	8844	47253335	Cement
28	31/4352	MPS Steel Castings Pvt.Ltd	EHT II	110	2000	263	117	84	487200	Steel
29	19/4025	Paragon Steels Pvt. Ltd.- Unit II	EHT II	110	7000	5891	4417	5872	26956900	Steel
30	26/7324	Patspin India Ltd	EHT II	110	4400	3791	3750	3747	23962691	
31	15/3809	Petronet CCK Limited	EHT II	110	2600	2199	2154	2172	11364420	Petroleum products
32	9/333	Phillips Carbon Black Ltd	EHT I	66	1500	1132	811	356	88900	Carbon black
33	9/731	Precot Meridian Ltd (A Unit)	EHT I	66	4500	3702	3655	3699	27661600	Cotton yarn
34	9/4487	Precot Meridian Ltd (C & D Units)	EHT II	110	2700	2668	2669	2681	20391520	Cotton yarn
35	4/438	Premier Tyres Ltd	EHT I	66	4750	3398	2969	2744	11644860	Automotive Tyres
36	10/7428	Punalur paper Mills Ltd	EHT II	110	2000	619	299	208	238305	Paper
37	30/7701	Railway Traction	EHT II	110	3000	1310	655	230	13500	
38	8/1140	SEPR Refractories India Ltd	EHT I	66	9000	7157	7154	6988	37654900	
39	30/4748	Railway Traction Substation, Chingavanam	EHT II	110	7000	6090	5361	4728	23624000	
40	30/3607	Railway Traction Substation, Chalakkudy	EHT II	110	9500	9813	7700	8991	35837775	

Table 33 continued

SI 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
41	30/4748	Railway Traction Substation, Chingavanam	EHT II	110	7000	6090	5361	4728	23624000	
42	30/3607	Railway Traction Substation, Chalakkudy	EHT II	110	9500	9813	7700	8991	35837775	
43	30/4462	Railway Traction Substation, Kazhakuttam	EHT II	110	8500	8113	8463	5466	24351900	
44	30/3899	Railway Traction Substation, Kadavanthra	EHT II	110	8000	7859	7550	6432	29303887.5	
45	30/3444	Railway Traction Substation, Shornur	EHT II	110	9100	8242	8531	9414	28534000	
46	30/3116	Railway Traction Substation, Kanjikode	EHT II	110	12500	11112	7972	8702	25925686	
47	30/4619	Railway Traction Substation, Perinad	EHT II	110	10500	9537	9579	6997	32254100	
48	30/4337	Railway Traction Substation, Punnapra	EHT II	110	5000	4095	0	0	12987475	
49	7/702	Steel Complex Ltd	EHT II	110	3000	1210	583	674	1247400	Mild steel billet
50	6/602	Transformers & Electricals Kerala Ltd	EHT I	66	2000	1184	946	911	4077275	Power transformer
51	1/102	Travancore Cochin Chemicals Ltd	EHT II	110	24000	18803	18138	18773	148743300	Chemicals
52	1/103	Travancore Titanium Products Ltd	EHT I	66	4000	2233	1505	2100	12123000	Titanium dioxide
53	7/709	VSSC	EHT	110	12000	9789	3268	2342	28946880	
54	2/502	Western India Plywood Ltd	EHT II	110	3500	3094	2815	2601	12462400	Compressed press board

TABLE 34
LIST OF EHV AND 33 kV SUBSTATIONS

Sl. No	Name of substation	Transmission Circle	Capacity (MVA)	Voltage Ratio (kV)	Year of Commissioning	No. of 11 kV Feeders
I. 400 kV Substation in operation						
1	Madakkathara	Thrissur	3x315	400/220	1993 & 1995	8
			2x200	220/110		
			2x10	110/11		
Total			1365			8
II. 220 kV Substations in operation						
1	Areacode	Malappuram	1x160	220/110	May - 98	7
			1x12.5 + 1x10	110/11		
2	Ambalamugal (BPCL)	Kalamassery	2x50	220/33	Apr-12, May-13	0
3	Brahmapuram	Kalamassery	2x160	220/110	Nov - 99	7
			1x12.5 + 1x10	110/11		
4	Edamon	Kottarakara	2x100	220/110	1978	5
			2x40	110/66		
			2x10	66/11	1978, May-13	
5	Edappon	Alappuzha	2x200	220/110	May-09	10
			2x63	110/66		
			1x16	110/33		
			3x10	66/11		
6	Kalamassery	Kalamassery	3x200 + 1x120	220/110	1965	8
			2x63	110/66		
			2x10	110/11		
7	Kanjirode	Kannur	2x160	220/110	Sep-97	6
			2x16	110/33	Feb-01, Aug-06	
			2x10	110/11	Sep-97	
8	Kaniyampetta	Kozhikode	2x50	220/66	1994	4
			2x20	66/33		
			1x10 + 1x6.3	66/11		
9	Kundara	Kottarakara	2x200	220/110	Jan-06	16
			3x12.5	110/11		
10	Malaparamba	Malappuram	2x100	220/110	Nov-07	6
			2x12.5	110/11		
11	Mylatty	Kannur	2x100	220/110	Oct-98	9
			1x12.5 + 2x10	110/11	Oct-98, Apr-15	
			1x31.5 (GTR)	110/11	Oct-98	
12	Nallalam	Kozhikode	2x100 + 2x60	220/110	1950	15
			2x40	110/66		
			1x16	110/33	Mar-16	
			2x12.5	110/11	1950	
			2x10	66/11		
13	New Pallom	Poovanthuruthu	Switching Station		Nov-99	

Table 34 continued

Sl. No	Name of substation	Transmission Circle	Capacity (MVA)	Voltage Ratio (kV)	Year of Commissioning	No. of 11 kV Feeders
14	Orkatteri (Vadakara)	Kozhikode	2x100	220/110	May-09	5
			2x12.5	110/11	May-09, Feb-14	
15	Pallom	Poovanthuruthu	2x200	220/110	1965	8
			3x63	110/66		
			2x10	66/11		
16	Palakkad	Palakkad	2x160	220/110	May-97	18
			5x25	110/22	May-97, May-12	
17	Pothencode	Thiruvananthapuram	3x200	220/110	1989	11
			3x12.5	110/11		
18	Punnapra	Alappuzha	1x200	220/110	Aug-14	7
			2x63	110/66	1984	
			1x16	110/33	2008	
			2x10	66/11	1984	
19	Shornur	Palakkad	2x100	220/110	Jan-04	7
			2x12.5	110/11		
20	Thaliparamba	Kannur	2x100	220/110	Mar-05	6
			2x16	110/33	Jul-03	
			2x10	110/11	May-98	
21	Moolamattom * (Switch Yard)	Gen. Circle, Moolamattom	1x50	220/66	1976	4
			2x6.3	66/11		
22	Moozhiar * (Switch Yard)	Gen. Circle, Moozhiyar	1x50	220/66	1973	2
			1 x 4	66/11		
Total			7270.9			155
III. 110 kV Substations in operation						
1	Adimali	Thodupuzha	1x10	110/11	May-99	3
2	Agastiamoozhi	Kozhikode	2x16	110/33	Jan-04	5
			2x12.5	110/11	Mar-14	
3	Aluva	Kalamassery	2x63	110/66	Prior to 1st Plan 110 kV in 1979	16
			1x12.5	110/11		
			3x10	66/11		
4	Ambalappuram	Kottarakara	2x16	110/33	Mar-03	5
			2x12.5	110/11		
5	Angamaly	Thrissur	1x20 + 1x20	110/11	1976, Dec-15	12
6	Arangottukara	Thrissur	12.5	110/11	Feb-14	4
7	Aroor	Alappuzha	2x63	110/66	1994, Jan-05	10
			3x10	66/11	1994	
8	Aruvikkara	Thiruvananthapuram	2x10	110/11	Aug-98	5
9	Athani	Thrissur	1x16	110/33	2001	6
			2x12.5	110/11	1992	
10	Attingal	Thiruvananthapuram	2x20	110/66	Mar-05	10
			2x16	110/33	2010, 2012	
			1x12.5	110/11	Mar-05	
			2x10	66/11		
11	Ayarkunnam	Poovanthuruthu	2x12.5	110/11	Mar-10	6
12	Ayathil	Kottarakara	3x12.5	110/11	Mar-09	12
13	Ayyampuzha	Thrissur	1x12.5 + 1x10	110/11	May-11	4

Table 34 continued

Sl. No	Name of substation	Transmission Circle	Capacity (MVA)	Voltage Ratio (kV)	Year of Commissioning	No. of 11 kV Feeders
14	Azhikode	Kannur	1x16	110/33	Apr-00	6
			2x12.5	110/11		
15	Chakkittapara	Kozhikode	1x12.5 + 1x10	110/11	Dec-04	5
16	Chalakydy	Thrissur	2x50	110/66	1st Plan	7
			2x16	110/33	2003, 2009	
			2x12.5	110/11	1st Plan	
17	Chavara	Kottarakara	2x12.5	110/11	Mar-10	8
18	Chengalam	Poovanthuruthu	2x10 + 1x12.5	110/11	Nov-94, Feb-13	7
19	Chengannur	Alapuzha	1x16	110/33	03/09	9
			1x12.5 + 1x10	110/11	1990	
20	Chelari	Malappuram	2x16	110/33	2003, 2009	8
			2x12.5	110/11	Feb-03	
21	Chellanam	Alapuzha	2x12.5	110/11	Mar-07	6
22	Cherpu	Thrissur	1x16	110/33	2002	6
			2x12.5	110/11	Dec-00	
23	Cherpulassery	Palakkad	2x12.5	110/11	Mar-04	5
24	Cherupuzha	Kannur	2x10	110/11	Jun-98	4
25	Cheruvathur	Kannur	2x16	110/33	Apr-02	5
			2x5	33/11		
26	Chevayur	Kozhikode	2x25	110/66	1996	12
			1x20 + 2x10	110/11		
27	Chowva	Kannur	1x12.5 + 1x10	110/11	Dec-10	5
28	Edappal	Malappuram	2x12.5	110/11	Mar-00	7
29	Edappally	Kalamassery	2x12.5	110/11	Mar-02	9
			1x16	110/11	Nov-13	
30	Edarikode	Malappuram	2x16	110/33	May-03, Mar-14	9
			3x12.5	110/11	05/03	
31	Edathuva	Alapuzha	1x16	110/33	Mar-08	6
			2x5	33/11		
32	Edayar	Kalamassery	2x12.5 + 1x10	110/11	Apr-00, Dec-13	12
			1x10	66/11	Apr-00	
33	Erattupetta	Poovanthuruthu	2x12.5	110/11	Apr-01	5
34	Ernakulam North	Kalamassery	1x12.5 + 2x10	66/11	1984, Mar-16	12
35	Ezhimala	Kannur	1x12.5 + 1x10	110/11	Aug-01	3
36	Gandhi Road (GIS)	Kozhikode	2x20	110/11	Nov-15	9
37	GIS ,Kollam	Kottarakara	2x20	110/11	27.03.2017	4
38	Guruvayoor	Thrissur	1x16	110/33	Dec-04	7
			2x12.5	110/11		
39	Irinjalakuda	Thrissur	2x16	110/33	Aug-03, Mar-06	6
			2x10	110/11	Dec-00	
40	Iritty	Kannur	2x12.5	110/11	Jul-10	6
			1x16	110/33	Jan-15	
41	Kadavanthra	Kalamassery	3x10	110/11	Aug-97	7

Table 34 continued

Sl. No	Name of substation	Transmission Circle	Capacity (MVA)	Voltage Ratio (kV)	Year of Commissioning	No. of 11 kV Feeders
42	Kakkad (Switching stn.) *	Gen. circle, Moozhiyar	2x12.5	110/11	1999	3
43	Kakkayam (Switching stn.) *	Kozhikode	2x12.5	110/11	Sep-12, May-14	2
44	Kalladikode	Palakkad	1x12.5 + 1x10	110/11	Mar-10	6
45	Kaloor	Kalamassery	2x25	110/66	2008	13
			3x12.5	110/11	1993	
			2x16	110/33	2012	
			1x10	66/11	2008	
46	Kandanad	Kalamassery	2x12.5	110/11	Jan-01	7
47	Kandassankadavu	Thrissur	1x16	110/33	Dec-04	7
			2x12.5	110/11		
48	Kanhangad	Kannur	2x16	110/33	1993, Mar-16	6
			2x10	110/11	1968	
49	Kanjikode	Palakkad	2x63	110/66	Jul-10	9
			2x10	66/22	1993	
			2x10	66/11		
50	Kanjirappally	Poovanthuruthu	2x12.5	110/11	1974, Mar-15, Mar-16	7
51	Kasargode (Vidyanagar)	Kasargode	2x16	110/33	2008, Mar-16	8
			1x20 + 1x10	110/11	1974	
52	Kattakada	Thiruvananthapuram	3x10	110/11	1966, Mar-14	6
53	Kattoor	Thrissur	2x12.5	110/11	Feb-14	6
54	Kavanadu	Kottarakara	2x12.5	110/11	1993	10
55	Kayamkulam	Alapuzha	1x16	110/33	Sep-09	9
			1x12.5 + 2x10	110/11	Jun-99	
56	Kilimanoor	Thiruvananthapuram	2x16	110/33	2004, 2008	6
			2x10	110/11	Dec-98	
57	Kizhakkambalam	Kalamassery	2x12.5	110/11	Feb-14	10
			1x10	66/11	1985	
58	Kizhissery	Malappuram	1x16	110/33	2001, 2004	7
			2x12.5	110/11	1990	
59	Kodakara	Thrissur	2x12.5	110/11	Apr-01, Jan-14	4
60	Kodimatha	Poovanthuruthu	1x10	110/11	Feb-16	3
61	Koduvally	Kozhikode	2x12.5	110/11	Oct-09	6
62	Kollengode	Palakkad	2x16	110/33	Dec-03	6
			2x5	33/11		
63	Koodal	Pathanamthitta	2x12.5	110/11	May-13	6
64	Kootanad	Palakkad	1x16	110/33	Jun-02	6
			2x12.5	110/11	Mar-00	
65	Koppam	Palakkad	2x16	110/33	2002	6
			1x12.5 + 1x10	110/11	Oct-13, 1995	
66	Kottarakara	Kottarakara	2x12.5	110/11	Dec-04	6
67	Kottiyam	Kottarakara	2x16	110/33	2010	7
			2x12.5	110/11	May-98	

Table 34 continued

Sl. No	Name of substation	Transmission Circle	Capacity (MVA)	Voltage Ratio (kV)	Year of Commissioning	No. of 11 kV Feeders
68	Koyilandy	Kozhikode	1x16	110/33	2002	7
			1x20 + 1x10	110/11	Oct.15, 1985	
69	Kozhenchery	Pathanamthitta	1x12.5 + 1x10	110/11	Mar-03	8
70	Kozhinjampara	Palakkad	2x16	110/33	2009	6
			2x12.5	110/11	Sep-08	
71	Kubanoor	Kannur	1x12.5 + 1x10	110/11	1983	3
72	Kunnamangalam	Kozhikode	2x40	110/66	Nov-00	5
			2x10	66/11	1997	
73	Kunnamkulam	Thrissur	1x16	110/33	Feb-05	7
			2x12.5	110/11	May-04	
74	Kurumassery	Kalamassery	2x16	110/33	Dec-00	0
75	Kuthuparamba	Kannur	2x12.5	110/11	May-15	6
76	Kuthungal	Thodupuzha	1x16	110/11	Mar-14	2
			1x5	33/11	Mar-14	
77	Kuttippuram	Malappuram	1x12.5 + 2x10	110/11	Oct-00, Jan-14	8
			1x16	110/33	Mar-14	
78	Kuttiyadi	Kozhikode	1x16	110/33	2012	6
			2x10	110/11	1990, Mar-15	
79	Mahe (Pondicherry Govt) **	Kannur	2x10	110/11	1989	
80	Malampuzha	Palakkad	2x10	110/11	1994	8
81	Malappuram	Malappuram	2x40	110/66	1976	7
			1x16	110/33	2001	
			3x12.5	110/11	1976	
82	Malayattur	Thrissur	2x16	110/33	Mar-05	6
			2x10	110/11	Jun-05	
83	Mallappally	Pathanamthitta	1x16	110/33	Dec-03	7
			1x12.5 + 1x10	110/11	May-00	
84	Mangad	Kannur	2x12.5	110/11	1976	8
85	Manjeswaram	Kasargode	1x12.5 + 1x10	110/11	May-97	4
86	Mannarkkad	Palakkad	2x16	110/33	Oct-01	5
			1x12.5 + 1x10	110/11	1990, Feb-16	
87	Mattanchery	Kalamassery	2x25	110/66	Apr-02	11
			2x10 + 1x8	66/11	1972	
88	Mattanur	Kannur	2x16	110/33	Jul-10, Mar-16	6
			2x12.5	110/11	Jul-10	
89	Mavelikkara	Alappuzha	2x40	110/66	Dec-09	8
			3x10	66/11	Dec-09	
90	Medical College	Thiruvananthapuram	1x12.5 + 1x10	110/11	May-98	8
91	Melattur	Malappuram	1x16	110/33	Jan-06	3
			1x12.5	110/11		
92	Meppayur	Kozhikode	2x16	110/11	Aug-04	4
			2x5	33/11		

Table 34 continued

Sl. No	Name of substation	Transmission Circle	Capacity (MVA)	Voltage Ratio (kV)	Year of Commissioning	No. of 11 kV Feeders
93	Mulleria	Kannur	1x16	110/33		5
			2x10	110/11	Mar-01	
94	Mundayadu	Kannur	2x40	110/66	1966	9
			1x16	110/33	2001	
			2x12.5	110/11	1966	
			1x10	66/11		
95	Muvattupuzha	Thodupuzha	2x16	110/33	2004	9
			3x12.5	110/11	1989, Dec-13	
96	Myloor (Pothanikad)	Thodupuzha	2x12.5	110/11	Mar-10	4
97	Nadapuram	Kozhikode	1x16	110/33	Dec-13	5
			2x12.5	110/11	Feb-01	
98	Nedumangadu	Thiruvananthapuram	2x16	110/33	2009	8
			2x10	110/11	Jun-05	
99	Neriamangalam *	Gen. circle, Meencut	1x10	110/11		4
100	New Vyttila	Kalamassery	2x12.5	110/11	Dec-09	7
101	North Paravur	Kalamassery	2x16	110/33	2005	7
			1x12.5	110/11	1989	
			1x10	66/11		
102	Ollur	Thrissur	2x16	110/33	2001	9
			2x12.5	110/11	Jan-01, Sep-13	
			2x10	66/11	Aug-01	
103	Ottapalam	Palakkad	2x12.5	110/11	1989, Feb-16	5
104	Pala	Poovanthuruthu	2x40	110/66	1985	8
			2x16	110/33	2009	
			2x10	66/11	1985	
105	Panangad	Kalamassery	2x12.5	110/11	05/12	3
106	Pampady	Poovanthuruthu	2x12.5	110/11	1987, Apr-15, Jan-16	7
107	Panoor	Kannur	1x16	110/33	2003	5
			2x10	110/11	1994	
108	Parali	Palakkad	2x16	110/33	2005	6
			2x10	110/11	1988	
109	Parassala	Thiruvananthapuram	2x50	110/66	May-00	6
			2x16	110/33	2008	
			2x12.5	110/11	May-00	
110	Parappanagadi	Malappuram	2x12.5	110/11	30.12.2016	6
111	Parippally	Kottarakara	1x16	110/33	Nov-13	8
			2x12.5	110/11	Sep-10	
112	Paruthippara	Thiruvananthapuram	2x63	110/66	1978	15
			3x20	110/11		
113	Pathanamthitta	Pathanamthitta	2x16	110/33	2003	10
			3x12.5	110/11	1999, Aug-14	
114	Pathanapuram	Kottarakara	2x12.5	110/11	Sep-09	8

Table 34 continued

Sl. No	Name of substation	Transmission Circle	Capacity (MVA)	Voltage Ratio (kV)	Year of Commissioning	No. of 11 kV Feeders
115	Pathirippala	Palakkad	1x12.5 + 1x10	110/11	Aug-11, Oct-13	4
116	Payyngadi	Kannur	2x12.5	110/11	Dec-97	5
117	Payyannur	Kannur	1x16	110/33	2006	8
			2x12.5 + 1x10	110/11	Apr-81	
118	Pazhayannur	Thrissur	1x12.5 + 1x10	110/11	Apr-97	4
119	Perinad	Kottarakara	2x12.5	110/11	Feb-16	4
120	Perinthalmanna	Malappuram	1x10	110/11	31.03.2017	7
121	Perumbavoor	Thodupuzha	1x16	110/33	Jun-03	10
			1x12.5	110/11		
			2x10	66/11		
122	Pinarayi	Kannur	2x16	110/33	Mar-01	4
			2x5	33/11		
123	Piravom	Thodupuzha	1x12.5 + 2x10	110/11	1994, Mar-14	8
124	Ponnani	Malappuram	2x12.5	110/11	Jan-03	6
125	Pullazhy	Thrissur	2x12.5	110/11	Mar-08	7
126	Pudukkad	Thrissur	2x12.5	110/11	1974, May & Jul-15	7
127	Punalur	Kottarakara	2x12.5	110/11	Jan-03	9
128	Punnayarkulam	Thrissur	2x12.5	110/11	Aug-05	6
129	Ranni	Poovanthuruthu	2x12.5	110/11	Mar-01	6
130	Rayonpuram	Thodupuzha	2x12.5	110/11	Sep-11, Nov-13	3
131	Sasthamcotta	Kottarakara	2x20	110/66	1993	10
			1x12.5 + 2x10	110/11		
132	Sholayar *	Gen. circle, Thrissur	1x10	110/11	1966	2
133	S.L. Puram (Kanjikuzhi)	Alappuzha	2x12.5	110/11	Aug-09	6
134	Technopark (Kazhakuttam)	Thiruvananthapuram	2x12.5 + 1x20 + 1x10	110/11	Jun-99, Oct-15	12
135	TERLS	Thiruvananthapuram	2x40	110/66	Nov-04	9
			2x12.5	110/11		
136	Thalassery	Kannur	2x12.5 + 1x10	110/11	1990	12
137	Thirumala	Thiruvananthapuram	1x63	110/66	Aug-00	16
			2x16	110/33	Apr-12, May-15	
			3x20	110/11	04/12	
138	Thrikodithanam	Poovanthuruthu	2x12.5	110/11	Mar-08	6
			1x16	110/33	Feb-13	
139	Thycattusery	Alappuzha	2x16	110/33	2008	6
			2x10	110/11	Dec-03	
140	Tirur	Malappuram	3x12.5	110/11	Apr-00	10
141	Udumbannoor	Thodupuzha	2x16	110/33	Apr-05	4
			2x5	33/11	Dec-05	
142	Vadakara	Kozhikode	1x16	110/33	2008	8
			3x12.5	110/11	1970	
143	Vadakkanchery	Palakkad	2x16	110/33	2006, 2010	6
			1x12.5 + 1x10	110/11	Mar-99	

Table 34 continued

Sl. No	Name of substation	Transmission Circle	Capacity (MVA)	Voltage Ratio (kV)	Year of Commissioning	No. of 11 kV Feeders
TABLE 34.....						
144	Vaikom	Poovanthuruthu	2x40	110/66	1971	7
			1x16	110/33	2009	
			1x12.5 + 2x10	110/11	1971, Jul-13	
145	Valapad	Thrissur	2x16	110/33	Dec-05	7
			2x10	110/11	Dec-00	
146	Varkala	Thiruvananthapuram	2x10 + 1x12.5	110/11	Oct-06, Jun-14	10
147	Vennakkara	Palakkad	2x16	110/33	1971, Apr-15	12
			2x12.5	110/11	1971	
			1x10	66/11		
149	Viyyur	Thrissur	2x63	110/66	1998	8
			2x16	110/33	2007	
			2x12.5	110/11	1998	
150	Vytila	Kalamassery	1x63 + 1x40	110/66	1978	9
			2x12.5	110/11		
151	Wadakkanchery	Thrissur	1x16	110/33	Dec-05	6
			2x12.5	110/11		
152	Walayar	Palakkad	1x25	110/22	Mar-11	4
153	West Hill	Kozhikode	3x12.5	110/11	1980	12
154	Willington Island	Kalamassery	2x10	110/11	Nov-97	6
155	Idamalayar *	Gen. circle, Kothamangalam	1x6.3	66/11		
			1x4	66/11		
156	Sengulam *	Gen. circle, Meencut	1x10	66/11	1958	4
Total			7456.8			1052
IV. 66 kV Substations in operation						
1	Adoor	Pathanamthitta	2x10	66/11	1979	7
2	Alappuzha	Alappuzha	3x10	66/11	Prior to 1st Plan	10
3	Anchal	Kottarakara	2x10	66/11	02/11	7
4	Anchukunnu	Nallalam	2x5	66/11	Nov-12	3
5	Ayoor	Kottarakara	2x10	66/11	1993	7
6	Balaramapuram	Thiruvananthapuram	2x10	66/11	01/14	3
7	Palakkad Medical College (Chandranagar)	Palakkad	1x10	66/11	03/16	
8	Changanassery	Poovanthuruthu	3 x10	66/11	1979	9
9	Cherthala	Alappuzha	3 x10	66/11	1968	9
10	Chittoor	Palakkad	2 x10	66/11	1990	7
11	Chumathra	Pathanamthitta	1x10 + 1x6.3	66/11	1989	8
12	Edakkara	Malappuram	2x10	66/11	02/06	4
13	Edathala	Kalamassery	2x10	66/11	1993	8
14	Ettumanoor	Poovanthuruthu	3x10	66/11	1965	9
15	Fort Kochi (GIS)	Kalamassery	2x10	66/11	12/06	6
16	Gandhinagar	Poovanthuruthu	3x10	66/11	1987, Dec-15	7
17	Idamalayar *	Gen. circle, Kothamangalam	1x15	110/66	1987	0
			1x4 + 1x6.3	66/11		
18	Kakkanad (CEPZ)	Kalamassery	3x10	66/11	1987	14
19	Kannampully	Palakkad	2x4	66/11	1976	4

Table 34 continued

Sl. No	Name of substation	Transmission Circle	Capacity (MVA)	Voltage Ratio (kV)	Year of Commissioning	No. of 11 kV Feeders
20	Karimanal	Thodupuzha	1x4 + 1x6.3	66/11	1987	2
21	Karukutty	Thrissur	2x10	66/11	1971	8
22	Karunagappally	Kottarakara	3x10	66/11	1994	10
23	Karuvatta	Alappuzha	2x10	66/11	1972	6
24	Kattappana	Thodupuzha	1x10 + 1x6.3	66/11	1992	5
25	Kochu pampa	Pathanamthitta	2x4	66/11	12/98	4
26	Kodungallur	Thrissur	2x10 + 1x6.3	66/11	1980	6
27	Koothattukulam	Poovanthuruthu	1x6.3 + 1x10	66/11	1973, Jun-14	5
28	Madura Coats (Koratty)	Thrissur	1x 6.3	66/11	1982	2
29	Kothamangalam	Thodupuzha	3x10	66/11	Prior to I plan	10
30	Kottayam (Kanjikuzhy)	Poovanthuruthu	3x10	66/11	1975	9
31	Kulamavu	Thodupuzha	1x4	66/11	1967	3
32	Kuravilangadu	Poovanthuruthu	2x10	66/11	01/05	5
33	Kuthumunda	Kozhikode	2x10	66/11	Prior to Ist plan	6
34	Kuttanadu	Alappuzha	2x10	66/11	1973	8
35	Kuttikattoor	Kozhikode	1x8 + 2x10	66/11	1974	10
36	L A Complex (GIS)	Thiruvananthapuram	2x16	66/11	05/05	8
37	Mala	Thrissur	2x10	66/11	1993	6
38	Mananthavady	Kozhikode	2x10	66/11	1955	6
39	Manjeri	Malappuram	2x10	66/11	1991	6
40	Mankada	Malappuram	1x10	66/11	09/15	2
41	Mankavu	Kannur	2x8 + 1x10	66/11	Prior to Ist plan	9
42	Marine Drive GIS	Kalamassery	2x16	66/11	11/07	8
43	Mavoor (Ambalaparamba)	Kozhikode	2x6.3	66/11	1973	4
44	Moolamattom *	Gen. circle, Moolamattom	1x50 2x6.3	220/66 66/11	1976	4
45	Moozhier *	Gen. circle, Moozhiyar	1x50 1x4	220/66 66/11	1973	2
46	Mulavukadu	Kalamassery	1x6.3 + 1x 4	66/11	02/01	3
47	Mundakkayam	Poovanthuruthu	1x16 2x10	66/11 66/11	Aug-15 1997, Aug-15	6
48	Nangiarkulangara	Alappuzha	2x10 + 1x8	66/11	1990, Nov-14	8
49	Nedumkandom	Thodupuzha	1x20 2x8	66/33 66/11	2006	4
50	Nedumpoil	Kannur	2x6.3	66/11	1971	3
51	Nemmara	Palakkad	2x8	66/11	1976	5
52	Neyyattinkara	Thiruvananthapuram	2x10 + 1x8	66/11	1968	9
53	Nilambur	Malappuram	1x16 2x10	66/33 66/11	Aug-13 1979	6
54	Njarakkal	Kalamassery	2x10 + 1x8	66/11	1973	8
55	Pallivasal *	Gen. circle, Meencut	3x10	66/11	1940, Feb-12	9
56	Palode	Thiruvananthapuram	1x10 + 1x5	66/11	1980	6

Table 34 continued

Sl. No	Name of substation	Transmission Circle	Capacity (MVA)	Voltage Ratio (kV)	Year of Commissioning	No. of 11 kV Feeders
57	Panampally Nagar	Kalamassery	2x10	66/11	1989	6
58	Pathirappally	Alappuzha	2x10	66/11	1978	8
59	Peerumedu	Thodupuzha	1x16	66/33	2009	6
			2x6.3	66/11	1975, Sep-15	
61	Perumanoor (Shipyards)	Kalamassery	2x10 + 1x12.5	66/11	1972	11
62	Powerhouse (GIS)	Thiruvananthapuram	2x16	66/11	Jan-05	8
63	Puthencruz	Kalamassery	2x10	66/11	1984	7
64	Puthiyara (GIS)	Kozhikode	2x16	66/11	Mar-04	8
65	Sengulam *	Gen. circle, Meencut	1x10	66/11	1958	4
66	Sreekantapuram	Kannur	2x10	66/11	Apr-97	7
67	Sultan Bathery	Kozhikode	1x6.3 + 1x10	66/11	1986	4
68	Thamarassery	Kozhikode	2x10	66/11	1965	6
69	Thenmala	Kottarakara	1x6.3	66/11	Mar-15	5
70	Thiruvalla	Pathanamthitta	2x10 + 1x7.5	66/11	1966, Mar-16	8
71	Thodupuzha	Thodupuzha	3x10	66/11	1980	10
72	Thrikkakara (NPOL)	Kalamassery	2x8 + 1x10	66/11	1990	9
73	Triveni	Pathanamthitta	2x4	66/11	Oct-05	2
74	Vandiperiyar	Thodupuzha	1x10 + 1x6.3	66/11	1990, Nov-15	4
75	Vattiyookavu	Thiruvananthapuram	2x10	66/11	Nov-04	8
76	Vazhathoppu	Thodupuzha	1x10 + 1x8	66/11	1966, Jan-13	4
77	Veli	Thiruvananthapuram	2x8 + 1x10	66/11	1973	9
78	Vizhinjam	Thiruvananthapuram	2x10 + 1x4	66/11	1976	8
79	Walayar (MCL) Quarry	Palakkad	1x2	66/11	1982	0
Total			1735.7			485
V. 33 kV Substations in operation						
1	Agali	Palakkad	2x5	33/11	Dec-02	4
2	Adichanalloor	Kottarakara	2x5	33/11	Mar-10	3
3	Alakkode	Kannur	2x5	33/11	Nov-09	3
4	Alanallur	Palakkad	2x5	33/11	May-04	4
5	Alangad	Kalamassery	2x5	33/11	Aug-09	4
6	Alathur	Palakkad	2x5	33/11	Jul-06	3
7	Annamanada	Thrissur	2x5	33/11	Feb-16, Mar-16	2
8	Ananthapuram	Kannur	2x5	33/11	Mar-08	4
9	Anchangadi	Thrissur	2x5	33/11	Mar-05	3
10	Anthikad	Thrissur	1x5	33/11	Aug-09	2
11	Badiyadukka	Kannur	1x5	33/11	Mar-09	2
12	Balusseri	Kozhikode	2x5	33/11	Apr-02	4
13	Belur	Kannur	2x5	33/11	Mar-08, Mar-15	2
14	Chalisseri	Palakkad	2x5	33/11	Mar-03	4

Table 34 continued

Sl. No	Name of substation	Transmission Circle	Capacity (MVA)	Voltage Ratio (kV)	Year of Commissioning	No. of 11 kV Feeders
15	Chavakkad	Thrissur	2x5	33/11	Dec-04	4
16	Chelakkara	Thrissur	1x5	33/11	Jan-08	2
17	Chengamanad	Kottarakara	2x5	33/11	May-06, Jan-13	4
18	Chirakkal	Thrissur	1x5	33/11	Dec-05	2
19	Chittadi	Palakkad	2x5	33/11	Nov-10	3
20	Chullimanoor	Thiruvananthapuram	2x5	33/11	Mar-09	3
21	Dharmadam	Kannur	2x5	33/11	2008	3
22	Edavanna	Malappuram	1x5	33/11	May-04	3
23	Erumapetty	Thrissur	2x5	33/11	Sep-01	3
24	Ezhukone	Kottarakara	2x5	33/11	Mar-08	4
25	Feroke	Kozhikode	2x5	33/11	5.10.16	4
26	Kadackal	Thiruvananthapuram	2x5	33/11	Dec-04	3
27	Kadakkavoor	Thiruvananthapuram	2x5	33/11	Nov-12	4
28	Kadapra	TD, Pathanamthitta	2x5	33/11	17.06.2016	2
29	Kaduthurathy	Poovanthuruthu	1x5	33/11	Nov-09	2
30	Kalpakanchery	Malappuram	1x5	33/11	31.3.17	1
31	Kaipamangalam	Thrissur	2x5	33/11	May-05	3
32	Kalady	Thrissur	3x5	33/11	Dec-04, Aug-13	4
33	Kalikavu	Malappuram	1x5	33/11	Mar-10	2
34	Kallambalam	Thiruvananthapuram	2x5	33/11	Jul-08	3
35	Kallara	Poovanthuruthu	1x5	33/11	18.3.17	
36	Kalletumkkara	Thrissur	2x5	33/11	Nov-05	3
37	Kalloorkadu	Thodupuzha	2x5	33/11	Mar-09	3
38	Kalpetta	Kozhikode	2x5	33/11	Nov-04	4
39	Kanhangad Town	Kannur	2x5	33/11	31.05.2016	3
40	Kannanalloor	Kottarakara	1x5	33/11	Mar-13	4
41	Kannur Town	Kannur	2x5	33/11	Jul-10	2
42	Karamana	Thiruvananthapuram	2x5	33/11	Apr-12, Jan-14	2
43	Karukachal	Poovanthuruthu	2x5	33/11	Sep-11	4
44	Kasargod Town	Kannur	2x5	33/11	27.01.17	4
45	Kattanam	Alappuzha	2x5	33/11	Mar-10	4
46	Kindangoor	Poovanthuruthu	2x5	33/11	Oct-10	3
47	Kinfra **	Malappuram	2x5	33/11	Jul-03	2
48	Kodiyeri	Kannur	2x5	33/11	Mar-07	3
49	Koduvayur	Palakkad	2x5	33/11	Dec-03	3
50	Kongad	Palakkad	2x5	33/11	Dec-05	4
51	Kongannur	Thrissur	2x5	33/11	Apr-07	4
52	Konni	Pathanamthitta	2x5	33/11	Mar-08	3
53	Kooriyad (Kakkad)	Malappuram	2x5	33/11	Jun-11	4
54	Koottikkal	Poovanthuruthu	2x5	33/11	Jan-16	2
55	Koovappady	Thodupuzha	2x5	33/11	Mar-09	4
56	Koratty	Thrissur	2x5	33/11	Jan-09	5
57	Kumbanad	Pathanamthitta	2x5	33/11	Feb-14	3
58	Kurumassery	Kalamassery	2x5	33/11	Dec-03	3
59	Kuruppambady	Thodupuzha	2x5	33/11	Aug-03	4
60	Kuthiathode	Alappuzha	3x5	33/11	Mar-08	3
61	Kuttiyattur	Kannur	2x5	33/11	Feb-01	4
62	Makkaraparamba	Malappuram	2x5	33/11	May-04	4

Table 34continued

Sl. No	Name of substation	Transmission Circle	Capacity (MVA)	Voltage Ratio (kV)	Year of Commissioning	No. of 11 kV Feeders
63	Maniampara	Palakkad	2x5	33/11	Jul-06	4
64	Mannar	Alappuzha	2x5	33/11	Mar-09	4
65	Mazhuvanoor	Thodupuzha	2x5	33/11	Dec-04	3
66	Meenakshipuram	Palakkad	2x5	33/11	Mar-10	2
67	Meenangady	Kozhikode	2x5	33/11	Oct-04	3
68	Melady	Kozhikode	2x5	33/11	Jun-08	3
69	Methala	Thrissur	2x5	33/11	Mar-14	2
70	Mullassery	Thrissur	1x5	33/11	Feb-06	3
71	Mulloorkara	Thrissur	2x5	33/11	Jan-08	3
72	Mundur	Thrissur	2x5	33/11	Mar-01	4
73	Muthalamada	Palakkad	2x5	33/11	Dec-03	3
74	Nadukani	Kannur	2x5	33/11	Feb-06	4
75	Neeleswaram	Kannur	2x5	33/11	Mar-07	4
76	Nelliampathy	Palakkad	1x5	33/11	Jun-05	2
77	Ochira	Kottarakara	2x5	33/11	Sep-09	4
78	Othukkungal	Malappuram	1x5	33/11	Mar-09	2
79	Padinjarethara	Kozhikode	2x5	33/11	Nov-04	3
80	Paika	Poovanthuruthu	2x5	33/11	Mar-10	5
81	Palakkal	Thrissur	2x5	33/11	Mar-08	3
82	Pallassena	Palakkad	2x5	33/11	Sep-11	3
83	Parappukara	Thrissur	2x5	33/11	Aug-03	4
84	Parappur	Thrissur	2x5	33/11	Oct-08	4
85	Paravoor	Kottarakara	2x5	33/11	Nov-12	4
86	Pariyaram	Thrissur	2x5	33/11	Jul-03	4
87	Pariyaram	Kannur	2x5	33/11	Mar-07	4
88	Pattambi	Palakkad	2x5	33/11	Jan-02	4
89	Pattikadu	Thrissur	2x5	33/11	Aug-03, Jun-15	2
90	Payannur Town	Kannur	2x5	33/11	Aug-06	3
91	Pazhassi	Kannur	2x5	33/11	Aug-06	4
92	Perambra	Kozhikode	1x5	33/11	27.3.2017	
93	Perla	Kannur	2x5	33/11	Mar-09	3
94	Peyad	Thiruvananthapuram	2x5	33/11	Mar-13	3
95	Pookkottumpadam	Malappuram	1x5	33/11	Aug-13	2
96	Poomala	Thrissur	2x5	33/11	Mar-07	3
97	Poovar	Thiruvananthapuram	3x5	33/11	Aug-08, Jul-14	5
98	Pooyappally	Kottarakara	2x5	33/11	Sep-10	4
99	Pulamanthole	Malappuram	1x5	33/11	Nov-04	2
100	Pulpally	Kozhikode	2x5	33/11	Dec-04, Mar-15	2
101	Puthenvelikara	Kalamassery	2x5	33/11	May-06	3
102	Puthiyatheruvu	Kannur	2x5	33/11	Feb-01	3
103	Puthur	Thrissur	2x5	33/11	Mar-01	3
104	Puthur	Kottarakara	2x5	33/11	Aug-10	3

Table 34 continued

Sl. No	Name of substation	Transmission Circle	Capacity (MVA)	Voltage Ratio (kV)	Year of Commissioning	No. of 11 kV Feeders
105	Puthur	Kannur	2x5	33/11	Mar-03	3
106	Ramanattukara	Kozhikode	2x5	33/11	Nov-09	4
107	Ramapuram	Poovanthuruthu	2x5	33/11	Oct-09, Jun-14	4
108	Ranni-Perunad	Pathanamthitta	1x5	33/11	Jan-11	4
109	Sreekrishnapuram	Palakkad	2x5	33/11	Jan-06	4
110	Senapathy	Poovanthuruthu	1x5	33/11	Oct-14	2
111	Tarur	Palakkad	2x5	33/11	Apr-10	3
112	Thakazhy	Alappuzha	2x5	33/11	Oct-08	2
113	Thambalamanna	Kozhikode	2x5	33/11	Oct-09	3
114	Thazhekkode	Malappuram	1x5	33/11	Nov-02	2
115	Thirunavaya	Malappuram	2x5	33/11	Jul-08	3
116	Thiruvellur	Kozhikode	2x5	33/11	Jun-08, May-14	2
117	Thiruvegappura	Palakkad	1x5	33/11	Jan-14	2
118	Tholambra	Kannur	1x5	33/11	Feb-02	3
119	Thottada	Kannur	2x5	33/11	Apr-02	3
120	Thrikkannapuram (Thavanur)	Malappuram	1x5	33/11	Dec-09	2
121	Thrikkaripur	Kannur	2x5	33/11	Dec-04	4
122	Thrithala	Palakkad	2x5	33/11	Mar-03	4
123	Upputhura	Thodupuzha	2x5	33/11	Jun-09	3
124	Urumi	Kozhikode	1x5	33/11	May-07	3
125	Vadanapilly	Thrissur	2x5	33/11	Dec-04	3
126	Vadekkekara	Kalamassery	3x5	33/11	Aug-05	5
127	Vagamon	Thodupuzha	1x5	33/11	Mar-10	3
128	Vakathanam	Poovanthuruthu	2x5	33/11	Feb-13	4
129	Vallikunnam	Alappuzha	1x5	33/11	Jun-12	2
130	Valluambram	Malappuram	1x5	33/11	Dec-01	3
131	Vannamada	Palakkad	2x5	33/11	Oct-09	3
132	Vannappuram	Thodupuzha	2x5	33/11	Nov-12	4
133	Varappuzha	Kalamassery	2x5	33/11	Jan-08	4
134	Velanthavalam	Palakkad	2x5	33/11	Feb-11	3
135	Vellangallur	Thrissur	2x5	33/11	Mar-06	3
136	Vellannur	Kozhikode	2x5	33/11	Sep-11	3
137	Vellarada	Thiruvananthapuram	2x5	33/11	Aug-11	3
138	Vellikulangara	Thrissur	2x5	33/11	Feb-10	4
139	Vengola	Thodupuzha	2x5	33/11	May-07	3
140	Venjaramoodu	Thiruvananthapuram	2x5	33/11	Mar-10	3
141	Vithura	Thiruvananthapuram	2x5	33/11	Oct-11	3
142	Vydyuthi Bhavan-Palakkad	Palakkad	2x5	33/11	Jul-15	4
143	Wandoor	Malappuram	2x5	33/11	Aug-97, Nov-13	3
144	West Elery	Kannur	1x5	33/11	Feb-07	2
	Total		1315			452
	Grand Total		19143.4			2152

Note: * Substations of generating stations having 11 kV outgoing feeders

** not in the control of KSEBL

TABLE 35
LIST OF EHV AND 33 kV TRANSMISSION LINES

Sl. No.	Name of Line	Conductor	Length (ckt.km)
I. 400 kV Lines (PGCIL owned)			
1	Thirunelveli - Pallippuram No.I	Twin Moose	160 (74.9 in Kerala)
2	Thirunelveli - Pallippuram No.II	Twin Moose	160 (74.9 in Kerala)
3	Udumalpet - Elappully No.I	Twin Moose	95.7 (48.1 in Kerala)
4	Udumalpet - Elappully No.II	Twin Moose	95.7 (48.1 in Kerala)
5	Elappully - Madakkathara No.I	Twin Moose	84.78
6	Elappully - Madakkathara No.II	Twin Moose	84.78
7	Kochi East - Madakkathara No.I	Quad Moose	78.2
8	Kochi East - Madakkathara No.II	Quad Moose	78.2
	Total		571.96
II. 220 kV Lines			
1	Kanhirode - Mylatty	Kundah	78.62
2	Kanhirode - Thaliparamba	Kundah	28.02
3	Thaliparamba - Mylatty	Kundah	63.04
4	Orkatteri - Kanhirode	Kundah	37.14
5	Areacode - Orkatteri	Kundah	72.45
6	Areacode - Kanhirode	Kundah	108.92
7	Areacode - Kaniyampetta	Kundah	68.18
8	Kaniyampetta - Kadakola (Inter state)	Kundah	92 (25.4 in Kerala)
9	Areacode - Nallalam No.I	Kundah	27.63
10	Areacode - Nallalam No.II	Kundah	27.63
11	Kozhikode - Areacode No. I	Moose	0.225
12	Kozhikode - Areacode No.II	Moose	0.225
13	Kozhikode - Areacode No.III	Moose	0.225
14	Malaparamba - Areacode	Kundah	53.83
15	Shornur - Areacode	Kundah	72.53
16	Elappully - Palakkad No.I	Kundah	3.44
17	Elappully - Palakkad No.II	Kundah	3.44
18	Elappully - Palakkad No.III	Kundah	3.66
19	Elappully - Madakkathara	Kundah	82.53
20	Madakkathara - Areacode	Kundah	93.28
21	Madakkathara - Malaparamba	Kundah	51.17
22	Madakkathara - Palakkad	Kundah	82.26
23	Madakkathara - Shornur	Kundah	29.35
24	Lower Periyar - Madakkathara No.I	Kundah	102
25	Lower Periyar - Madakkathara No.II	Kundah	102
26	Idukki - Lower Periyar No.I	Kundah	35
27	Idukki - Lower Periyar No.II	Kundah	35
28	Idukki - Kalamassery No.I	Kundah	68.8
29	Idukki - Kalamassery No.II	Kundah	68.8
30	Idukki - New Pallom	Kundah	50
31	Idukki - Udumalpet (Inter state)	Kundah	111.6 (84.4 in Kerala)
32	Lower Periyar - Brahmapuram No.I	Kundah	58.46
33	Lower Periyar - Brahmapuram No.II	Kundah	58.46
34	Brahmapuram - Kochi East No.I	Kundah	6.79
35	Brahmapuram - Kochi East No.II	Kundah	6.79
36	Kochi East - Kalamassery No.I	Kundah	14.4
37	Kochi East - Kalamassery No.II	Kundah	14.4

Sl. No.	Name of Line	Conductor	Length (ckt.km)
38	Brahmapuram - Ambalamugal No.I	Kundah	4.4
39	Brahmapuram - Ambalamugal No.II	Kundah	4.4
40	Sabarigiri - Ambalamugal	Kundah	123.5
41	Pallom - Ambalamugal	Kundah	56.3
42	Sabarigiri - Pallom	Kundah	67.32
43	New Pallom - Pallom	Twin Moose	0.8
44	Kayamkulam - New Pallom No.I	Zebra	47
45	Kayamkulam - New Pallom No.II	Zebra	47
46	Veeyapuram - Punnapra No.I	Zebra	18.1
47	Veeyapuram - Punnapra No.II	Zebra	18.1
48	Kayamkulam - Edappon	Twin Moose	28.57
49	Kayamkulam - Kundara	Twin Moose	64.91
50	Edamon - Edappon	Twin Moose	67.18
51	Edamon - Kundara	Twin Moose	60.91
52	Sabarigiri - Theni (Inter state)	Kundah	106.5 (44.8 in Kerala)
53	Sabarigiri - Edamon No.I	Kundah	52.89
54	Sabarigiri - Edamon No.II	Kundah	52.93
55	Sabarigiri - Edamon No.III	Kundah	52.93
56	Edamon - Thirunelveli No.I (PGCIL)	Quad Moose	81
57	Edamon - Thirunelveli No.II (PGCIL)	Quad Moose	81
58	Edamon - Pothencode No.I	Kundah	47.69
59	Edamon - Pothencode No.II	Kundah	47.69
60	Pallippuram - Pothencode No.I	Quad Moose	3.49
61	Pallippuram - Pothencode No.II	Quad Moose	3.49
62	Pallippuram - Pothencode No.III	Quad Moose	3.49
63	Pallippuram - Pothencode No.IV	Quad Moose	3.49
	Total		2801.88
III. 110 kV Lines			
1	Manjeswaram - Konaje (Inter state)	Wolf	13.9 (7.4 in Kerala)
2	Kubanur - Manjeswaram	Wolf	12.6
3	Vidyanagar - Kubanur	AAAC	21.7
4	Vidyanagar - Mulleria No.I	Wolf	17.8
5	Vidyanagar - Mulleria No.I	Wolf	17.8
6	Mylatty - Vidyanagar	Tiger	11.9
7	Mylatty - Kanhangad	Tiger	14.8
8	Kanhangad - Cheruvathur	Tiger	22.6
9	Payyannur - Cheruvathur	Tiger	13.6
10	Cheruvathur - Traction Cheruvathur SC UG	SC UG	2.63
11	Payyannur - Cherupuzha No.I	Wolf	21.6
12	Payyannur - Cherupuzha No.II	Wolf	21.6
13	Thaliparamba - Payyannur	Wolf	25.6
14	Thaliparamba - Payangadi No.I	Wolf	9.5
15	Thaliparamba - Payangadi No.II	Wolf	9.5
16	Payangadi - Ezhimala No.I	Wolf	7.2
17	Payangadi - Ezhimala No.II	Wolf	7.2
18	Thaliparamba - Mangad	Wolf	10.5
19	Mangad - Azhikode	Wolf	14.2
20	Mundayad - Azhikode	Tiger	13.3

Table 35 continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)
21	Azhikode - WIPL	Wolf	0.23
22	Mundayad - Chowva	Wolf	3.1
23	Chovva-Traction S/s, Kannur South	UG Cable	0.78
24	Kanhirode - Mundayad No.I	Wolf	9.6
25	Kanhirode - Mundayad No.II	Wolf	9.6
26	Kanhirode - Mattannur No.I	Wolf	18.7
27	Kanhirode - Mattannur No.II	Wolf	18.7
28	Mattannur - Iritty No.I	Wolf	13
29	Mattannur - Iritty No.II	Wolf	13
30	Mundayad - Pinarayi	Tiger	11.3
31	Pinarayi - Thalassery	Tiger	9.1
32	Thalassery - Panoor	Tiger	9.1
33	Panoor - Mahe No.I	Wolf	2.4
34	Panoor - Mahe No.II	Wolf	2.4
35	Orkatteri - Panoor	Tiger	11.27
36	Orkatteri - Vadakara	AAAC/Wolf	8.9
37	Orkatteri - Meppayur	AAAC/Wolf	24.66
38	Vadakara - Koyilandy	Wolf	23.2
39	Meppayur - West hill	Wolf/Tiger	33.27
40	Tap to koyilandy from Meppayur - West hill	Wolf	0.6
41	Chevayoor - West Hill	Tiger	12.8
42	West Hill - GIS, Kozhikode	630Sq.mm Al	7.14
43	West Hill -Traction Elathur	400 Sq mm UG Cable	4.4
44	Nallalam - Chevayur No.I	Wolf	7.5
45	Nallalam - Chevayur No.II	Wolf	8.2
46	Kakkayam - Chevayur	Wolf	33.9
47	Nallalam - Kunnamangalam	Wolf	19.6
48	Kunnamangalam - Koduvally	Wolf	7.4
49	Kunnamangalam - Agasthiamoozhy No.I	AAAC	9.5
50	Kunnamangalam - Agasthiamoozhy No.II	AAAC	9.5
51	Koduvally - Kakkayam	Wolf	24.3
52	Kakkayam - Chakkittappara	Wolf	9.2
53	Chakkittappara - Nadapuram	Wolf	20
54	Nadapuram - Kanhirode	Wolf	45.3
55	Tap to Kuthuparamba from Parambai	Wolf	6.7
56	Kakkayam - Kuttiady	Wolf	20.2
57	Kuttiady - Kanhirode	Wolf	54.3
58	Nallalam - Steel Complex	Tiger	0.8
59	Nallalam - Chelari	Tiger	14.6
60	Chelari - Parappanangadi	Wolf	15.9
61	Parappanangadi- Keezhissery	Wolf	32.9
62	Nallalam - Keezhissery	Tiger	20.4
63	Areacode - Keezhissery No.I	Wolf	9.5
64	Areacode - Keezhissery No.II	Wolf	9.5
65	Keezhissery - Malappuram No.I	Tiger	18.1
66	Keezhissery - Malappuram No.II	Wolf	18.1
67	Malappuram - Edarikode	Wolf	13.5
68	Edarikode - Tirur	Wolf	11.7
69	Ponnani - Tirur	Wolf	29.03
70	Kuttippuram - Tirur	Wolf	22.33

Table 35 continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)
71	Malaparamba - Kuttippuram No.I	Wolf	18.1
72	Malaparamba - Kuttippuram No.II	Wolf	18.1
73	Edappal - Kuttippuram	Wolf	26.92
74	Edappal - Ponnani	Wolf	10.37
75	Malaparamba - Malappuram No.I	Tiger	14
76	Malaparamba - Malappuram No.II	Tiger	14
77	Tap to Melattur from MRML No.II	Tiger	20.3
78	Tap to Perinthalmanna from Malaparamba - Melattur	Wolf	10
79	Malaparamba - Koppam	Tiger	10
80	Malaparamba - Shornur	Tiger	24
81	Shornur - Koppam	Tiger	14.5
82	Shornur - Edappal	Wolf	31.6
83	Tap to Arangottukara from SHED feeder	Wolf	0.5
84	Shornur - Koottanad	AAAC	17.86
85	Koottanad - Edappal	AAAC	15.26
86	Shornur - Traction Shornur	Tiger	4.98
87	Shornur - Ottappalam	Wolf	13.6
88	Ottappalam - Vennakkara	Wolf	28.96
89	Shornur - Pathiripala	Wolf	26.3
90	Pathiripala - Parali	Wolf	11.2
91	Parali - Vennakkara	Wolf	9.5
92	Ottappalam - Cherpulassery No.I	Wolf	18.95
93	Ottappalam - Cherpulassery No.II	Wolf	18.95
94	Ottappalam - Vadakkanchery	Wolf	27
95	Ottappalam - Pazhayannur	Wolf	11.2
96	Pazhayannur - Vadakkanchery	Wolf	15.8
97	Palakkad - Vennakkara No.I	Wolf	20.86
98	Palakkad - Vennakkara No.II	Wolf	20.86
99	Vennakkara - Malampuzha	Wolf	10.25
100	Malampuzha - Kalladikode	Wolf	19.25
101	Kalladikode - Mannarkkad	Wolf	14
102	Palakkad - Kozhinjampara	Wolf	10.61
103	Kozhinjampara - Kollengode	Wolf	24.28
104	Palakkad - Kollengode	Wolf	26.5
105	Tap to MPS Steel from PKKE feeder	Wolf	0.05
106	Palakkad - Traction, Kanjikode	Wolf	3.15
107	Palakkad - Kanjikode No.I	Wolf	5.46
108	Palakkad - Kanjikode No.II	Wolf	5.46
109	Tap to Paragon Steel from PKKJ No.II	Wolf	0.05
110	Tap to PATSPIN from PKKJ No.II	Wolf	0.05
111	Palakkad - Walayar No.I	Wolf	6.35
112	Palakkad - Walayar No.II	Wolf	6.8
113	Walayar - Malabar Cement No.I	Wolf	4.41
114	Walayar - Malabar Cement No.II	Wolf	4.63
115	Tap to Precot Meridian from WLMC No.II	Wolf	0.22
116	Madakkathara - Shornur	Wolf	30.2
117	Madakkathara - Wadakkanchery	Wolf	15.09
118	Wadakkanchery - Shornur	Wolf	16.56

Table 35 continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)
119	Madakkathara - Athani	Wolf	10.9
120	Athani - Kandassankadavu	Wolf	36.8
121	Madakkathara - Kunnamkulam	Wolf	27.4
122	Kunnamkulam - Guruvayur	Wolf	5.9
123	Guruvayur - Kandassankadavu	Wolf	16.3
124	Kunnamkulam - Punnayurkulam No.I	AAAC	15.2
125	Kunnamkulam - Punnayurkulam No.II	AAAC	15.2
126	Madakkathara - Viyyur No.I	Wolf	10.2
127	Madakkathara - Viyyur No.II	Wolf	10.2
128	Viyyur - Kandassankadavu	Wolf	15.7
129	Viyyur - Pullazhy	Wolf	6.96
130	Pullazhy - Kandassankadavu	Wolf	11.4
131	Tap to Thrissur Corpn. from VIPL feeder	Wolf	1.6
132	Madakkathara - Valappad	Wolf	28.1
133	Madakkathara - Cherpu	Wolf	19.7
134	Cherpu - Irinjalakuda	Wolf	20.84
135	Irinjalakuda - Kattoor	Wolf	7.08
136	Kattoor - Valappad	Wolf	11.16
137	Madakkathara - Kodakara	Wolf	24.2
138	Chalakudy - Kodakara	Wolf	7.1
139	Madakkathara - Ollur	Wolf	15.7
140	Ollur - Puthukkad	Wolf	12.83
141	Chalakkudy - Puthukkad	Wolf	15.68
142	Chalakudy - Traction S/s, Chalakudy	Wolf	2.3
143	Poringalkuthu - Chalakudy No.I	Tiger	32.5
144	Poringalkuthu - Chalakudy No.II	Tiger	32.5
145	Sholayar - Chalakudy	Wolf	53.1
146	Poringalkuthu - Sholayar	Wolf	12.9
147	Idamalayar - Ayyampuzha	Wolf	32
148	Ayyampuzha - Chalakudy	Wolf	16.8
149	Idamalayar - Malayattoor	Wolf	28.5
150	Malayattoor - Rayonpuram	Wolf	12
151	Rayonpuram - Perumbavoor	Wolf	1.5
152	Kalamassery - Perumbavoor	Wolf	19.61
153	Tap to GTN Textiles from KLPM feeder	Wolf	0.86
154	Kalamassery - Carborandum	Wolf	33.63
155	Chalakudy - Carborandum	Wolf	7.3
156	Kalamassery - Kurumassery	Wolf	20.1
157	Chalakudy - Angamaly	Wolf	21.28
158	Angamaly - Kurumassery	Wolf	8.89
159	Tap No.I to Aluva from KLCB feeder	Wolf	2
160	Tap No.II to Aluva from KLKR feeder	Wolf	2
161	Aluva-KWA	UG	1.61
162	Tap No.I to CIAL from KLCB feeder	Wolf	1.81
163	Tap No.II to CIAL from CHKR feeder	Wolf	1.81
164	Kalamassery - Edappally	Wolf	7
165	Edappally - Kaloor	Wolf	4.43

Table 35 continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)
166	Kalamassery - Kaloor	Wolf	11.9
167	Kaloor- Ernankulam North UG	UG	4.1
168	Kaloor- Ernankulam North UG	UG	4.1
169	Tap No.I to BSES from KLKA feeder	Wolf	1.3
170	Tap No.II to BSES from KLEP feeder	Wolf	1.3
171	Kalamassery - Edayar No.I	Wolf	4.2
172	Kalamassery - Edayar No.II	Wolf	4.2
173	Tap No.III to BSES from KLED No.I feeder	Wolf	0.8
174	Tap No.IV to BSES from KLED No.II feeder	Wolf	0.8
175	Tap No.I to IAC from KLED No.I feeder	Wolf	0.05
176	Tap No.II to IAC from KLED No.II feeder	Wolf	0.05
177	Edayar - Binani Zinc No.I	Wolf	1.35
178	Edayar - Binani Zinc No.II	Wolf	1.35
179	Edayar - North Paravur No.I	Wolf	9.41
180	Edayar - North Paravur No.II	Wolf	9.41
181	Kalamassery - Vyttila	Wolf	11.58
182	Kalamassery - Aroor	Wolf	23.5
183	Kalamassery - Panangad	Wolf	17
184	Vyttila - New Vyttila UG	UG Cable	0.71
185	Panangad - Aroor	Wolf	6.5
186	Aroor - Mattanchery	Wolf	9.1
187	Mattanchery - Chellanam	Wolf	11.1
188	Kalamassery - FACT (UD) No.I	Wolf	5
189	Kalamassery - FACT (UD) No.II	Wolf	5
190	Tap No.I to TCC from KLFA No.I feeder	Wolf	0.8
191	Tap No.II to TCC from KLFA No.II feeder	Wolf	0.8
192	Kalamassery - Brahmapuram No.I	Wolf	11.6
193	Kalamassery - Brahmapuram No.II	Wolf	11.6
194	Kalamassery - Brahmapuram No.III	Wolf	11.6
195	Kalamassery - Brahmapuram No.IV	Wolf	11.6
196	Tap No.I to CSEZ from KLBR No.I feeder	Wolf	0.05
197	Tap No.II to CSEZ from KLBR No.II feeder	Wolf	0.05
198	Tap to Co-op. Med. College from KLBR No.II	Wolf	0.04
199	Brahmapuram - Kadavanthara	Wolf	10.77
200	Brahmapuram - New Vyttila	Wolf	7.3
201	New Vyttila - Kadavanthara	Wolf	3.47
202	Kadavanthara - Traction S/s, Kadavanthara	UG Cable	0.15
203	Kadavanthara - Willington Island No.I	UG Cable + OH	3.47
204	Kadavanthara - Willington Island No.II	UG Cable + OH	2.3
205	Willington Island - Port Trust	UG Cable	2.31
206	Brahmapuram - KINFRA No.I	Wolf	1.85
207	Brahmapuram - KINFRA No.II	Wolf	1.85
208	Brahmapuram - FACT (CD) No.I	Wolf	3.8
209	Brahmapuram - FACT (CD) No.II	Wolf	3.8
210	Tap to Petronet from BRFA No.I feeder	Wolf	2.81
211	Tap to BPCL from BRFA No.II feeder	Wolf	2.81
212	Brahmapuram - Vaikom	Wolf	29.64
213	Brahmapuram - Kandanad	Wolf	11.64

Table 35 continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)
214	Kandanad - Vaikom	Wolf	18
215	Tap No.I to HNL from BRVK feeder	Wolf	8.7
216	Tap No.II to HNL from KNVK feeder	Wolf	8.7
217	Tap No.I to Piravam from HNL Tap No.I	Wolf	7.7
218	Tap No.II to Piravam from HNL Tap No.II	Wolf	7.7
219	Kalamassery - Moovattupuzha	Lynx	26.4
220	Kalamassery - Kizhakambalam	Wolf	9.53
221	Kizhakambalam - Moovattupuzha	Wolf	16.87
222	Tap No.I to Rubber Park from KLMV feeder	Wolf	2.1
223	Tap No.II to Rubber Park from KZMV feeder	Wolf	2.1
224	Moovattupuzha - Myloor (Pothanikad)	Lynx	10.56
225	Myloor (Pothanikad) - Adimali	Lynx	34.92
226	Neriamangalam - Adimali	Lynx	10.49
227	Neriamangalam - Moovattupuzha	Lynx	51
228	Neriamangalam - Kuthungal No.I	Wolf	16.5
229	Neriamangalam - Kuthungal No.II	Wolf	16.5
230	Panniar - Sengulam No.I	Wolf	0.5
231	Panniar - Sengulam No.II	Wolf	0.5
232	Neriamangalam - Sengulam	Lynx	5.8
233	Neriamangalam - Pala	Wolf	37.8
234	Sengulam - Udumpannoor	Wolf	18.5
235	Udumpannoor - Erattupetta	Wolf	28.4
236	Erattupetta - Pala	Wolf	15.9
237	Pala - Ayarkunnam No.I	Wolf	13.5
238	Pala - Ayarkunnam No.II	Wolf	13.5
239	Pallom - Ayarkunnam	Wolf	14.9
240	Ayarkunnam - MRF	Wolf	6.3
241	MRF - Pallom	Wolf	8.6
242	Pallom - Chengalam	Wolf	14.1
243	Chengalom- Punnapra	Wolf	29.4
244	Pallom - Pambady	Wolf	12.5
245	Pambady - Kanjirappally	Wolf	16.5
246	Pallom - Kodimatha	Wolf	4.54
247	Kodimatha -Punnapra	Wolf	28.96
248	Punnapra - Edathua No.I	Wolf	15.7
249	Punnapra - Edathua No.II	Wolf	15.7
250	Punnapra - Traction S/s, Punnapra	Wolf	0.47
251	Punnapra - Autocast	Wolf	26.6
252	Autocast (SILK) - SL Puram	Wolf	1.7
253	SL Puram- Chellanam	Wolf	34.4
254	Tap to IPRK from SL- Chellanam	Wolf	0.125
255	Aroor - Thykkattussery	Wolf	15.6
256	Thykkattussery - SL Puram	Wolf	16.15
257	SL Puram - Punnapra	Wolf	27.85
258	Pallom - Thrikodithanam	Wolf	12.5
259	Tap to Chingavanam Traction from PLTN feeder	Wolf	1.7

Table 35 continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)
260	Tap to TECIL from PLTN feeder	Wolf	2.12
261	Chengannoor - Bilievers Church	Wolf	16.45
262	Bilievers Church - Thrikodithanam	Wolf	4.72
263	Pallom - Mallappally	Wolf	32.2
264	Mallappally - Chengannoor	Wolf	24.3
265	Chengannoor - Edappon No.I	Wolf	14.1
266	Chengannoor - Edappon No.II	Wolf	14.1
267	Edappon - Pathanamthitta No.I	Wolf	23.1
268	Edappon - Pathanamthitta No.II	Wolf	23.1
269	Pathanamthitta - Ranni	Wolf	25.38
270	Kozhenchery - Ranni	Wolf	13.4
271	Pathanamthitta - Kozhenchery	Wolf	11.9
272	Kakkad - Pathanamthitta	Wolf	28.7
273	Kakkad - Karikkayam	Wolf	10.6
274	Karikkayam - Maniyar	Wolf	3.9
275	Maniyar - Pathanamthitta	Wolf	18
276	Edappon - Kayamkulam	Wolf	18.5
277	Edappon - Mavelikkara	Wolf	14
278	Mavelikkara - Kayamkulam	Wolf	14
279	Edappon - Sasthamkotta	Wolf	18.5
280	Edappon - Kundara	Wolf	31
281	Tap to Sasthamkotta from EPKD feeder	Wolf	0.5
282	Sasthamkotta - KMML	Wolf	18.1
283	Chavara - KMML	Wolf	5.5
284	Kundara - Chavara	Wolf	26
285	Chavara - Kavanad No.I	Wolf	9.1
286	Chavara - Kavanad No.II	Wolf	9.1
287	Kundara - Traction Perinad No.I	Wolf	7
288	Kundara - Perinadu	Wolf	9
289	Perinadu - Traction Perinadu	Wolf	2.1
290	Punalur - Kundara	Wolf	33.6
291	Punalur - Kottarakkara	Wolf	20.1
292	Kottarakkara - Kundara	Wolf	13.5
293	Kundara - Ayathil No.I	Wolf	13
294	Kundara - Ayathil No.II	Wolf	13
295	Kundara - Parippally No.I	Wolf	24
296	Kundara - Parippally No.II	Wolf	24
297	Ayathil - GIS Kollam DC UG No. I	UG Cable	3.75
298	Kundara-Technopark	UG	2.6
299	Kottiyam - Kundara	Wolf	16.9
300	Ambalappuram - Kottiyam	Wolf	18.9
301	Edamon - Ambalappuram	Wolf	29
302	Edamon - Punalur No.I	Wolf	9.89
303	Edamon - Punalur No.II	Wolf	9.89
304	Punalur - Pathanapuram	Wolf	12.25
305	Pathanapuram - Koodal	Wolf	8.23
306	Punalur - Koodal	Wolf	19.5
307	Tap to Paper Mill from PNKU feeder	Wolf	1.4

Table 35 continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)
308	Edamon - Paruthippara	Wolf	54
309	Edamon - Kilimanoor	Wolf	33.9
310	Kilimanoor - Paruthippara	Wolf	39.9
311	Pothencode - Paruthippara No.I	Wolf	10.39
312	Pothencode - Paruthippara No.II	Wolf	10.39
313	Paruthippara - Medical College No.I	Wolf	2.87
314	Paruthippara - Medical College No.II	Wolf	2.87
315	Pothencode - Attingal No.I	Wolf	10.2
316	Pothencode - Attingal No.II	Wolf	10.2
317	Attingal - Paripally No.I	Wolf	15.3
318	Attingal - Paripally No.II	Wolf	15.3
319	Paripally - Varkala No.I	Wolf	9.8
320	Paripally - Varkala No.II	Wolf	9.8
321	Pothencode - Technopark No.I	Wolf	5.87
322	Pothencode - Technopark No.II	Wolf	5.87
323	Technopark - TERLS No.I	Wolf	4.53
324	Technopark - TERLS No.II	Wolf	4.53
325	TERLS -VSSC I	Wolf	0.8
326	TERLS -VSSC I	Wolf	0.8
327	Tap to Technopark Ph.II from TPTE No.I	Wolf	0.05
328	Kazhakkuttam - Traction S/s, Kazhakkuttam	Wolf	0.87
329	Pothencode - Kattakkada	Wolf	29.7
330	Pothencode - Aruvikkara	Wolf	19.2
331	Aruvikkara - Kattakkada	Wolf	11.71
332	Tap No.I to Nedumangad from PCAV feeder	Wolf	0.2
333	Tap No.II to Nedumangad from PCKK feeder	Wolf	0.2
334	Kattakkada - Thirumala No.I	Wolf	9.24
335	Kattakkada - Thirumala No.II	Wolf	9.24
336	Kattakkada - Parassala No.I	Wolf	18.98
337	Kattakkada - Parassala No.II	Wolf	18.98
338	Parassala - Kuzhiithura (Inter state)	Mink	4.83
	Total		4460.745
IV. 66 kV Lines			
1	Mundayad - Sreekandapuram No.I	Dog	27.2
2	Mundayad - Sreekandapuram No.II	Dog	27.2
3	Mundayad - Kuthuparamba	AAAC	26.02
4	Kuthuparamba - Nedumpoyil	AAAC	18.6
5	Nedumpoyil - Mananthavadi	Copper	29
6	Kaniyampetta - Anchukunnu	AAAC	9.2
7	Mananthavadi - Anchukunnu	AAAC	9.7
8	Kaniyampetta - Kuthumunda	AAAC	14
9	Tap to Sulthan Bathery from KNKU feeder	Mink	20.5
10	Kuthumunda - Uppatty (Inter state)	Mink	16.8
11	Kuthumunda - Thamarassery	Copper	19.3
12	Kunnamangalam - Thamarassery	Dog	15.8
13	Kunnamangalam - Kuttikkattoor	Dog	7.2
14	Tap to Ambalaparamba from KGKT feeder	Mink	13.56
15	Tap to Gwalior Rayons from Ambalaparamba Tap line	Mink	0.6
16	Nallalam - Kuttikkattoor	Copper	9.3
17	Tap to Mankavu from NLKT feeder	Dog	1.98
18	Mankavu - Puthiyara	400 Sq.mm XLPE	3.2
19	Chevayur - Puthiyara	400 Sq.mm XLPE	4.4
20	Malappuram - Manjeri	Dog	14.05
21	Malappuram - Mankada	Mink	10.708
22	Manjeri - Nilambur	Mink	24.18

Table 35 continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)
23	Nilambur - Edakkara	Wolf	12.75
24	Vennakkara - Kanjikode No.I	Dog	12.97
25	Vennakkara - Kanjikode No.II	Dog	12.97
26	Tap to Palakkad Medical College from VNKJ feeder	Mink	0.1
27	Tap to PRECOT Mills from VNKJ No.I feeder	Dog	1.0
28	Vennakkara - Nemmara	Mink	20.94
29	Tap to Kannampully from VNNM feeder	Mink	0.05
30	Kanjikode - Chittoor No.I	Dog	15.58
31	Kanjikode - Chittoor No.II	Dog	15.58
32	Tap to INDSIL from KJCI No.I feeder	Dog	0.1
33	Kanjikode - MCL Quarry	Mink	23.45
34	Tap to SEPR from KJMQ feeder	Mink	1.1
35	Kanjikode - ITI	Mink	0.36
36	Viygur - Ollur	AAAC	10.7
37	Tap to Thrissur Municipality from VIOL feeder	Dog	2.1
38	Chalakkudy - Viygur	AAAC	34.5
39	Chalakkudy - Ollur	AAAC	23.8
40	Tap No.I to Appollo Tyres from CHVYfeeder	Mink	0.75
41	Tap No.II to Appollo Tyres from CHOL feeder	Mink	0.75
42	Chalakkudy - Kodungallur	Mink	21
43	Chalakkudy - OSSIGN	Mink	7.5
44	OSSIGN - Mala	Mink	6.6
45	Mala - Kodungallur	Mink	7.9
46	Chalakkudy - Aluva I	Mink	26.78
47	Chalakkudy - Aluva II	Mink	26.78
48	Tap No.I to Karukutty from CHAN feeder	Mink	0.15
49	Tap No.II to TELK from CHAN feeder	Mink	0.35
50	Tap to Madura Coats from CHAL feeder	Copper	0.85
51	Tap No.II to Karukutty from CHAL feeder	Mink	0.15
52	Tap No.I to TELK from CHAL feeder	Mink	0.35
53	Tap line to KAMCO from CHAL feeder	Mink	0.47
54	Aluva - North Paravur	Mink	13.35
55	Aluva - Edayar	Mink / Copper	5.65
56	Edayar - North Paravur	Mink	9.7
57	Aluva - Kothamangalam No.I	Copper	31
58	Aluva - Kothamangalam No.II	Copper	31
59	Tap No.I to Perumbavoor from ALKM No.I feeder	Mink	1.8
60	Tap No.II to Perumbavoor from ALKM No.II feeder	Mink	1.8
61	Perumbavoor - Travancore Rayons No.I	Mink	1.3
62	Perumbavoor - Travancore Rayons No.II	Mink	1.3
63	Aluva - Kizhakambalam	Dog	12.06
64	Kalamassery - Aluva	Dog	5.88
65	Tap to Edamula KRL Pumhouse from KLAL feeder	Dog	1.9
66	Kalamassery - Premier Tyres No.I	Wolf	2
67	Kalamassery - Premier Tyres No.II	Wolf	2
68	Tap to Carborandum from KLPR No.II feeder	Mink	2.6
69	Kalamassery - Njarakkal No.I	Dog	13.6
70	Kalamassery - Njarakkal No.II	Dog	13.6
71	Tap No.I to Ernakulam North from KLNJ No.I feeder	Dog	4.96
72	Tap No.II to Ernakulam North from KLNJ No.II feeder	Dog	4.96
73	Tap to Mulavukad from KLNJ No.II feeder	Dog	0.1
74	Kalamassery - Vyttila	Tiger	11.93

Table 35 continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)
75	Tap to HMT from KLVT feeder	Mink	0.37
76	Kalamassery - NPOL (Thrikkakara)	Tiger	4.7
77	NPOL (Thrikkakara) - Vyttila	Tiger	8.52
78	Kakkanadu tap I	Tiger	0.1
79	Kakkanadu tap II	Tiger	0.1
80	Vyttila - Puthencruz No.I	Dog	17.5
81	Vyttila - PCBL	Dog	15.35
82	PCBL- Puthencruz	Dog	5.85
83	Tap No.I to HOC from VTPT No.I feeder	Dog	0.3
84	Tap No.II to HOC from VTPT No.II feeder	Dog	0.3
85	Vyttila - Perumanoor	Dog	3.4
86	Vyttila - Panampilly Nagar	Dog	3
87	Panampilly Nagar - Perumanoor	Dog	0.4
88	Perumanoor - Cochin Shipyard	400 Sq.mm XLPE	0.09
89	Perumanoor - Marine Drive	400 Sq.mm XLPE	4.25
90	Kaloor - Marine Drive	400 Sq.mm XLPE	3.85
91	Mattanchery - Fort Kochi No.I	400 Sq.mm XLPE	4.2
92	Mattanchery - Fort Kochi No.II	400 Sq.mm XLPE	4.2
93	Aroor - Mattanchery	Dog	8.9
94	Pallivasal - Aluva	Copper	81
95	Pallivasal - Edathala	Copper	77
96	Edathala - Aluva	Copper	4
97	Pallivasal - Kothamangalam	Copper	52
98	Pallivasal - Karimanal	Copper	26.8
99	Karimanal - Kothamangalam	Copper	30.4
100	Tap to Iruttukanam PH from PVKR feeder	Wolf	1.25
101	Kothamangalam - Idamalayar	Mink	23.3
102	Kothamangalam - Koothattukulam	Copper	23
103	Sengulam - Pallivasal No.I	Copper	6.5
104	Sengulam - Pallivasal No.II	Copper	6.5
105	Sengulam - Vazhathopu	Mink	22.4
106	Vazhathopu - Moolamattom	Mink	18.8
107	Tap to Kulamavu from SGML feeder	Mink	1.35
108	Vazhathope - Nedumkandam	Wolf	26.6
109	Nedumkandam - Kattappana	Wolf	15.8
110	Moolamattom - Malankara	Dog	16.54
111	Malankara - Thodupuzha	Dog	14.7
112	Moolamattom - Thodupuzha	Dog	29.7
113	Tap to Koothattukulam from MLTD feeder	Mink	11.3
114	Koothattukulam - Kuravilangad	Copper	12
115	Kuravilangad - Ettumanur	Copper	8
116	Ettumanur - Pala	Dog	16.2
117	Vaikom - Ettumanur	Dog	21
118	Tap to Kuravilangad	Dog	0.9
119	Vaikom - Cherthala	Dog	22.9
120	Tap to Aroor from VKCT feeder	Dog	13.8
121	Ettumanur - Gandhi Nagar	Dog	8
122	Gandhi Nagar - Pallom	Dog	9
123	Ettumanur - Pallom	Dog	17
124	Tap to Kottayam from ETPL feeder	Dog	0.3
125	Pallom -Mundakkayam	Wolf	36.81

Table 35 continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)
126	Tap to Kanjirappally	wolf	0.79
127	Mundakkayam - Peerumedu	Dog	13.5
128	Peerumedu - Vandiperiyar	Dog	11.5
129	Vandiperiyar - Kochu Pampa	Dog	21.8
130	Kochu Pampa - Thriveni No.I	Dog	12.1
131	Kochu Pampa - Thriveni No.II	Dog	12.1
132	Kochu Pampa - Sabarigiri	Dog	14.7
133	Pallom - Kuttanad	Dog	18.54
134	Kuttanad - Alappuzha	Mink	13.8
135	Alappuzha - Pathirappally	Tiger	6.3
136	Pathirappally - Cherthala	Tiger	17.1
137	Punnapra - Alappuzha No.I	Dog	8.9
138	Punnapra - Alappuzha No.II	Dog	8.9
139	Punnapra - Nangiarkulangara	Dog	24.1
140	Mavelikkara - Nangiarkulangara	Dog	9.5
141	Punnapra - Karuvatta	Dog	16.7
142	Karuvatta - Mavelikkara	Dog	17.3
143	Tap to Nangiarkulangara from KVMV feeder	Dog	0.01
144	Pallom - Chumathra	Dog	20.4
145	Pallom - Thiruvalla	Dog	22.75
146	Chumathra - Thiruvalla	Dog	7.25
147	Thiruvalla - Mavelikkara	Dog	18.2
148	Thiruvalla - Mavelikkara	Dog	18.2
149	Tap No.I to Changanassery from PLCU feeder	Dog	0.03
150	Tap No.II to Changanassery from PLTV feeder	Dog	0.03
151	Edappon - Mavelikkara No.I	Dog	10.8
152	Edappon - Mavelikkara No.II	Dog	10.8
153	Mavelikkara - Karunagappally	Copper	36
154	Sasthamkotta - Karunagappally	Dog	13
155	Edappon - Adoor No.I	Dog	16
156	Edappon - Adoor No.II	Dog	16
157	Adoor - Pathanamthitta	Mink	12.6
158	Pathanamthitta - Koodal	Mink	14
159	Kallada - Edamon No.I	Dog	9.24
160	Kallada - Edamon No.II	Dog	9.24
161	Tap to Thenmala	Mink	0.06
162	Edamon - Anchal	Dog	13
163	Anchal - Ayoor	Dog	8
164	Attingal - Palode	Mink	19.4
165	Paruthippara - Veli	Dog	10.91

Table 35 continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)
166	Tap to TTP from PPVL feeder	Dog	1.1
167	Paruthippara - TERLS	Dog	8.29
168	TERLS - Veli	240 Sq.mm XLPE	4.8
169	Veli - Airport No.I	240 Sq.mm XLPE	4.3
170	Veli - Airport No.II	240 Sq.mm XLPE	4.3
171	Paruthippara - LA Complex	400 Sq.mm XLPE	4.3
172	LA Complex - Powerhouse	400 Sq.mm XLPE	3.5
173	Powerhouse - Thirumala	400 Sq.mm XLPE	6.8
174	Paruthippara - Vattiyoorkavu	Mink	8.13
175	Vattiyoorkavu - Thirumala	Mink	7.08
176	Thirumala - Balaramapuram	Mink	8.89
177	Paruthippara - Balaramapuram	Mink	17.58
178	Tap to Vizhinjam from PPBL feeder	Mink	10
179	Balaramapuram - Neyyattinkara No.I	Mink	4.04
180	Balaramapuram - Neyyattinkara No.II	Mink	4.04
181	Neyyattinkara - Parassala No.I	Dog	10.2
182	Neyyattinkara - Parassala No.II	Dog	10.2
	Total		2154.748
V. 33 kV Lines			
1	Vidyanagar - Ananthapuram	Dog	9.3
2	Vidyanagar - Kasargod Town	3.5(OH) + 2 (UG)	5
3	Mulleria - Perla	Dog	15.8
4	Mulleria - Badiyadka	Dog	12.5
5	Kanhangad - Belur	Dog	11.5
6	Kanhangad - Neeleswaram	Dog	10.5
7	110 kV Kanhangad - 33 Kanhangad Town	Dog	6.85
8	110 kV Kanhangad - Solar Park Ambalathara	Dog	12.4
9	Cheruvathur - West Elery	Dog	17.5
10	Cheruvathur - Thrikkarippur	Dog	11.2
11	Payyannur - Payyannur Town	Dog	5.3
12	Thaliparamba - Pariyaram (Kannur)	Dog	9.2
13	Thaliparamba - Nadukani No.I	Dog	12.5
14	Thaliparamba - Nadukani No.II	Dog	12.5
15	Nadukani - Alakode	Dog	16.7
16	Azhikode - Kannur Town	Dog	5.3
17	Mattannur - Kuyiloor (KWA) No.I	Dog	4.6
18	Mattannur - Kuyiloor (KWA) No.II	Dog	4.6
19	Mattannur- KIAL 33 DC	Dog	12.4
20	Mundayad - Puthiyatheru	Dog	6.5
21	Mundayad - Thottada	Dog	8.8
22	Pinarayi - Thottada	Dog	10.5
23	Pinarayi - Dharmadom	Dog	5.5
24	Pinarayi - Tholambra	Dog	31.7
25	Iritty-Barapole 1	UG	14.7
26	Iritty-Barapole 2	UG	14.7
27	Kanhirode - Kuttiyattoor	Dog	8.9
28	Kanhirode - Pazhassi	Dog	18.7
29	Panoor - Puthur (Kannur)	Dog	8.9
30	Panoor - Kodyyeri	Dog	6.5
31	Vadakara - Thiruvallur	Dog	9.6
32	Meppayur - Melady	Dog	9.4
33	Meppayur - Perambra	Dog	8
34	Koyilandi - Balussery	Dog	12.5
35	Nallalam - Feroke	(OH+UG)	7.5
36	Kaniyampetta - Padinjarethara	Dog	17.8
37	Kaniyampetta - Meenangadi	Dog	11.5
38	Kaniyampetta - Kalpetta	Dog	10.8
39	Kaniyampetta - Pulpally	Dog	26
40	Agastyamoozhi - Vellannur	Dog	8.3

Table 35 continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)
41	Agastyamoozhi - Thambalamanna No.I	Dog	8.6
42	Agastyamoozhi - Thambalamanna No.II	Dog	8.6
43	Thambalamanna - Chembukadavu-II PH	Dog	11
44	Chembukadavu-II PH - Chembukadavu-I PH	Dog	1.1
45	Thambalamanna - Urumi	Dog	5.3
46	Urumi - Urumi-II PH	Dog	0.2
47	Urumi-II PH - Urumi-I PH	Dog	0.82
48	Kuttiyadi - Poozhithodu PH	Dog	14
49	Vilangad HEP-Nadapuram	300 Sq.mm XLPE	14.5
50	Chelari - KINFRA No.I	Dog	2.5
51	Chelari - KINFRA No.II	Dog	2.5
52	Tap to Ramanattukara from CLRA No.I feeder	Dog	5.92
53	Keezhissery - Chelari	Dog	14
54	Keezhissery - Valluvambram	Dog	8
55	Keezhissery - Edavanna	Dog	19
56	Edavanna - Wandoor	Dog	12.5
57	Wandoor - Kalikavu	Dog	14
58	Melattur - Wandoor	Dog	18.7
59	Melattur - Thazhekodde	Dog	23
60	Tap to Alanellur from METZ feeder	Dog	6
61	Malappuram - Valluvambram	Dog	11.3
62	Malappuram - Makkaraparamba	Dog	8.7
63	Nilambur - Pookkottumpadam	Dog	7.8
64	Nilambur - Adyanpara SC line	Dog	13.5
65	Kuttiapuram - Thirunavaya	Dog	16.5
66	Kuttiapuram - Vairamkode	Dog	11
67	Edarikode - Thirunavaya	Dog	23
68	Tap from Edarikode - Thirunavaya to Kalpakaknchery	Dog	0.8
69	Edarikode - Othukungal	Dog	8.1
70	Edarikode - Kooriyad (Kakkad)	Dog	8
71	Thirunavaya - Thrikkannapuram (Thavanur)	Dog	3.1
72	Makkaraparamba - Pulamanthole	Dog	16
73	Koppam - Thazhekodde	Dog	18
74	Tap to Pulamanthole from KPTZ feeder	Dog	2
75	Koppam - Pattambi	Dog	10.1
76	Koppam - Thiruvegappura	Dog	13.2
77	Mannarkkad - Agali No.I	Dog	28.5
78	Mannarkkad - Agali No.II	Dog	28.5
79	Mannarkkad - Alanellur	Dog	16.2
80	Parali - Sreekrishnapuram	Dog	30
81	Parali - Kongad	Dog	12
82	Parali - Maniyampara	Dog	8
83	Vennakkara- Palakkad Vydhyuthi Bhavan	UG Cable + OH	5
84	Koottanad - Thrithala	Dog	5.3
85	Koottanad - Chalissery	Dog	4.5
86	Kollenkode - Nellyampathy	Dog	9.5
87	Kollenkode - Muthalamada	Dog	9.7
88	Kollenkode - Koduvayur	Dog	11.7
89	Kollenkode - Pallassena	Dog	8.7

Table 35 continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)
90	Kozhinjampara - Vannamada	Dog	4
91	Kozhinjampara - Velanthavalam	Dog	9.2
92	Kozhinjampara - Meenakshipuram	Dog	16
93	Vadakkenchery - Alathur	Dog	13.6
94	Vadakkenchery - Chittadi	Dog	12.5
95	Vadakkenchery - Tarur	Dog	11
96	Viyyur - Poomala	Dog	11
97	Viyyur - Parappur No.I	Dog	13
98	Viyyur - Parappur No.II	Dog	13
99	Cherpu - Chirakkal	Dog	5.8
100	Cherpu - Palakkal	Dog	5.4
101	Wadakkanchery - Mulloorkara	Dog	7.5
102	Mulloorkara - Chelakkara	Dog	8.4
103	Ollur - Puthur (Thrissur)	Dog	4.3
104	Ollur - Pattikkad	Dog	16
105	Kunnamkulam - Kongannur	Dog	9.4
106	Guruvayoor - Chavakkad	Dog	6.7
107	Athani - Erumappetty	Dog	13
108	Athani - Mundoor	Dog	8
109	Kandassankadavu - Vadanappilly	Dog	4.2
110	Kandassankadavu - Mullassery	Dog	7.6
111	Valappad - Anthikadu No.I	Dog	6.2
112	Valappad - Anthikadu No.II	Dog	6.2
113	Valappad - Kaipamangalam No.I	Dog	10.7
114	Valappad - Kaipamangalam No.II	Dog	10.7
115	Kaipamangalam - Anchangady No.I	Dog	8.6
116	Kaipamangalam - Anchangady No.II	Dog	8.6
117	Anchangady - Methala	Dog	9.6
118	Irinjalakuda - Vellangallur	Dog	6.6
119	Irinjalakuda - Parappukara No.I	Dog	11.6
120	Irinjalakuda - Parappukara No.II	Dog	11.6
121	Chalakudy - Kallettumkara	Dog	11.8
122	Chalakudy - Pariyaram (Thrissur)	Dog	7.8
123	Chalakudy - Koratty	Dog	6.9
124	Chalakudy - Vellikulangara	Dog	12.9
125	Kurumassery 110 - Kurumassey 33	Dog	1.2
126	Kurumassery - Puthenvelikkara	Dog	7.2
127	Kurumassery-Annamanada	Dog	9.1
128	Perumbavoor - Kurupampady	Dog	8.5
129	Perumbavoor - Vengola	Dog	4.8
130	Malayattoor - Koovapady	Dog	4.2
131	Malayattoor - Kalady	Dog	6.3
132	North Parur - Vadakkekara	Dog	9.3
133	North Parur - Varappuzha	Dog	8.5
134	North Parur - Alangad	Dog	9
135	Kaloor - Lulu Mall No.I	300 Sq.mm XLPE	5.38
136	Kaloor - Lulu Mall No.II	300 Sq.mm XLPE	5.38
137	Kaloor - Lulu Mall No.III	300 Sq.mm XLPE	5.38

Table 35 continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)
138	Moovattupuzha - Mazhuvannur	Dog	4.8
139	Moovattupuzha - Kalloorkkad	Dog	14
140	Nedumkandam - Ramakkalmedu No.I	Dog	8
141	Nedumkandam - Ramakkalmedu No.II	Dog	8
142	Kuthunkal-Senapathy	Dog	16.79
143	Peerumedu - Vagaman	Dog	17
144	Peerumedu - Upputhara	Dog	21.5
145	Mundakkayam - Kootikkal	Dog	8.09
146	Udumpannoor - Vannapuram	Dog	17
147	Pala - Ramapuram	Dog	10
148	Pala - Paika	Dog	10
149	Pala - Kidangoor	Dog	9.6
150	Vaikom - Kaduthuruthy No.I	Dog	10
151	Vaikom - Kaduthuruthy No.II	Dog	10
152	Kaduthuruthy - Kallara	Dog	7.7
153	Thrikodithanam - Vakathanam	300sq.mmXLPE+Dog	8.7
154	Mallappally - Karukachal	Dog	7.1
155	Mallappally - Kumbanad	Dog	10.5
156	Thycattussery - Kuthiyathodu No.I	Dog	6
157	Thycattussery - Kuthiyathodu No.II	Dog	6
158	Punnapra - Thakazhy	Dog	11.4
159	Chengannur - Mannar	Dog	11.3
160	Kayamkulam - Oachira	Dog	11
161	Edappon - Kattanam	Dog	9.2
162	Edathua - Kadapra	Dog	9.2
163	Kattanam - Vallikunnam	Dog	8.5
164	Pathanamthitta - Konny	Dog	8.3
165	Pathanamthitta - Ranni Perinad	Dog	18.6
166	Ambalappuram - Ezhukone	Dog	4.6
167	Ambalappuram - Chengamanad	Dog	12.5
168	Ambalappuram - Puthur (Kollam)	Dog	10.4
169	Ambalappuram - Pooyappally	Dog	11.2
170	Kottiyam - Adichanallur	Dog	10
171	Kottiyam - Paravoor	Dog	4.7
172	Kottiyam - Kannanallur	Dog	8
173	Attingal - Venjaramoodu	Dog	10.4
174	Attingal - Kadakkavur	Dog	11
175	Kilimanoor - Kadakkal	Dog	9.5
176	Kilimanoor - Kallambalam	Dog	15
177	Thirumala - Karamana	300 sq.mm XLPE	4.5
178	Thirumala - Peyad	300 sq.mm XLPE	7
179	Nedumangad - Chullimanur	Dog	5.8
180	Nedumangad - Vithura No.I	Dog	12.6
181	Nedumangad - Vithura No.II	300 sq.mm XLPE	12.6
182	Vithura - IISER	300 sq.mm XLPE	13.4
183	Tap Line from Nedumangad -Vithura	Dog	0.82
184	Nedumangad to LPSC SC UG	UG Cable	5.1
185	Parassala - Poovar	Dog	15.5
186	Parassala - Vellarada	Dog	14.5
	Total		1902.43

TABLE 36
FIVE YEAR PLAN TARGET AND ACHIEVEMENT

Sl. No.	Description of work	Target for 11 th Plan 2007-12	Achievement				Target for 12 th Plan 2012-17	Achievement					
			2009-10	2010-11	2011-12	Total		2012-13	2013-14	2014-15	2015-16	2016-17	Total
A. GENERATION													
1	Hydro Electric Projects (MW)	606.40	6.25	103.00	8.80	118.05	248.05	2.86	10.5	18.55	22	3.6	57.51
2	Wind Projects (MW)	3.75	1.95	3.60	-	5.55	-	-	-	-	8.4	-	8.40
3	Co-generation Projects (MW)	-	-	10.00	-	10.00	-	-	-	-	-	-	-
4	Gas based project (MW)	-	-	-	-	-	350.00	-	-	-	-	-	-
5	Solar projects (MW)	-	-	-	-	-	-	-	-	-	14.16	53.92	68.07
	Total	610.15	8.20	116.60	8.80	133.60	598.05	2.86	10.50	18.55	44.56	57.52	133.98
B. TRANSMISSION													
1	220 kV Substations (Nos)	6	2	-	-	2	9	1	-	1	-	-	2.00
2	110 kV Substations (Nos)	54	9	5	3	17	60	1	5	1	8	3	18.00
3	66 kV Substations (Nos)	6	-	1	-	1	12	1	1	-	3	-	5.00
4	33 kV Substations (Nos)	55	18	7	7	32	47	8	4	1	3	7	23.00
5	220 kV Lines (km)	102.46	18.26	-	-	18.26	227	26.87	-	36.2	0.68	-	63.75
6	110 kV Lines (km)	672.55	48.302	34.22	0.89	83.412	1216	27.55	112.59	39.4	66.60	67.66	313.80
7	66 kV Lines (km)	275.24		-	-	0	20	4.60	-	0	6	-	10.60
8	33 kV Lines (km)	621.57	199.22	63.6	81	343.82	600	64.90	71.44	42.29	66.79	75.77	321.19
C. DISTRIBUTION													
1	Service Connections (Nos)	23,50,000	4,47,817	4,42,889	4,13,682	13,04,388	21,08,130	4,03,421	4,15,216	4,22,238	3,81,247	4,62,482	2084604
2	HT lines – 11 kV & 22 kV (km)	16,556	3,398	3,659	2,986	10,043	15,855	1,579	1,884	1,807	2,103	1846	9218.59
3	LT lines (km)	19,270	7,838	6,761	4,105	18,704	26,900	3,066	3,735	4,636	3,312	5358	20107.00
4	Distribution Transformers (Nos)	11,790	5,790	5,804	4,479	16,073	18,543	2,643	3,200	3,547	2,389	2271	14050
5	Faulty Meter Replacement (Nos)	17,06,645	10,13,517	7,08,556	6,10,368	23,32,441	45,31,316	6,51,072	10,39,790	8,40,691	6,60,735	4,69,285	3661573

TABLE 37

ALL INDIA INSTALLED GENERATION CAPACITY OF POWER UTILITIES (Sector wise)

Region	Sector	Mode wise breakup							Total
		Thermal				Nuclear	Hydro	Renewable	
		Coal	Gas	Diesel	Total				
Northern Region	State	16598	2879.2	0	19477.2	0	8543.55	663.56	28684.31
	Private	22100.83	558	0	22658.83	0	2502	10875.8	36036.63
	Central	12630.37	2344.06	0	14974.43	1620	8266.22	0	24860.65
	Sub total	51329.2	5781.26	0	57110.46	1620	19311.77	11539.36	89581.59
Western Region	State	23170	2993.82	0	26163.82	0	5480.5	311.19	31955.51
	Private	31465.67	4676	0	36141.67	0	447	17993.24	54581.91
	Central	13657.95	3533.59	0	17191.54	1840	1520	0	20551.54
	Sub total	68293.62	11203.41	0	79497.03	1840	7447.5	18304.43	107088.96
Southern Region	State	17832.5	791.98	287.88	18912.36	0	11739.03	512.55	31163.94
	Private	12124.5	5322.1	473.7	17920.3	0	0	25619.52	43539.82
	Central	13425.02	359.58	0	13784.6	3320	0	0	17104.6
	Sub total	43382.02	6473.66	761.58	50617.26	3320	11739.03	26132.07	91808.36
Eastern Region	State	7025	100	0	7125	0	3537.92	225.11	10888.03
	Private	7451.38	0	0	7451.38	0	195	765.63	8412.01
	Central	14101.64	0	0	14101.64	0	1005.2	0	15106.84
	Sub total	28578.02	100	0	28678.02	0	4738.12	990.74	34406.88
North Eastern Region	State	60	492.95	36	588.95	0	382	259.25	1230.2
	Private	0	24.5	0	24.5	0	0	21.88	46.38
	Central	520.02	1253.6	0	1773.62	0	860	0	2633.62
	Sub total	580.02	1771.05	36	2387.07	0	1242	281.13	3910.2
Islands	State	0	0	40.05	40.05	0	0	5.25	45.3
	Private	0	0	0	0	0	0	7.27	7.27
	Central	0	0	0	0	0	0	0	0
	Sub total	0	0	40.05	40.05	0	0	12.52	52.57
All India	State	64685.5	7257.95	363.93	72307.38	0	29683	1976.91	103967.29
	Private	73142.38	10580.6	473.7	84196.68	0	3144	55283.34	142624.02
	Central	54335	7490.83	0	61825.83	6780	11651.42	0	80257.25
	Sub total	192162.88	25329.38	837.63	218329.89	6780	44478.42	57260.25	326848.56

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

State / UT / Utilities	Mode wise breakup							Total
	Thermal				Nuclear	Hydro	Renewable	
	Coal	Gas	Diesel	Total				
Delhi	4825.4	2115.41	0	6940.81	102.83	723.09	72.27	7839.00
Haryana	8070.1	685.61	0	8755.71	100.94	1948.21	251.3	11056.16
Himachal Pradesh	170.74	62.01	0	232.75	28.95	2798.48	832.54	3892.72
Jammu & Kashmir	463.15	304.07	0	767.22	67.98	2278.98	159.39	3273.57
Punjab	8616.58	414.01	0	9030.59	196.81	3781.65	1153.1	14162.15
Rajasthan	10225.91	824.9	0	11050.81	556.74	1930.97	6237.8	19776.32
Uttar Pradesh	17292.58	549.49	0	17842.07	289.48	3231.03	2299.83	23662.41
Uttarakhand	431.05	519.66	0	950.71	31.24	1815.69	515.81	3313.45
Chandigarh	34.86	15.03	0	49.89	8.01	101.71	17.32	176.93
Central unallocated	1198.83	291.05	0	1489.88	237.03	701.95	0	2428.86
Total Northern Region	51329.2	5781.24	0	57110.44	1620.01	19311.76	11539.36	89581.57
Goa	443.6	70.2	0	513.8	26	0	0.76	540.56
Daman & Diu	115.7	48.4	0	164.1	7	0	10.46	181.56
Gujarat	16007.76	6705.82	0	22713.58	559	772	6671.89	30716.47
Madhya Pradesh	12226.73	357	0	12583.73	273	3223.66	3537.89	19618.28
Chattisgarh	11458.98	0	0	11458.98	48	120	432.86	12059.84
Maharashtra	25987.4	3753	0	29740.4	690	3331.84	7647.6	41409.84
Dadra & Nagar Haveli	158.45	71.4	0	229.85	9	0	2.97	241.82
Central unallocated	1895	197.59	0	2092.59	228	0	0	2320.59
Total Western Region	68293.62	11203.41	0	79497.03	1840	7447.5	18304.43	107088.96
New Andhra Pradesh	9691.48	4530.4	36.8	14258.68	127.27	1747.93	6164.42	22298.30
Telangana	7150.07	350	0	7500.07	148.73	2306.6	1545.88	11501.28
Karnataka	9407.7	0	153.12	9560.82	698	3599.8	7457.97	21316.59
Kerala	1723.18	533.58	159.96	2416.72	362	1881.5	338.72	4998.94
Tamilnadu	13397.19	1027.18	411.7	14836.07	1448	2203.2	10625	29112.27
NLC	100	0	0	100	0	0	0	100.00
Pondicherry	248.4	32.5	0	280.9	86	0	0.08	366.98
Central unallocated	1664	0	0	1664	450	0	0	2114.00
Total Southern Region	43382.02	6473.66	761.58	50617.26	3320	11739.03	26132.07	91808.36

Table 38 continuec

State / UT / Utilities	Mode wise breakup							Total
	Thermal				Nuclear	Hydro	Renewable	
	Coal	Gas	Diesel	Total				
Bihar	3205.33	0	0	3205.33	0	110	292.22	3607.55
Jharkhand	2018.74	0	0	2018.74	0	191	27.32	2237.06
West Bengal	8462.15	100	0	8562.15	0	1396	424.64	10382.79
DVC	7535.04	0	0	7535.04	0	186.2	0	7721.24
Odisha	6192.9	0	0	6192.9	0	2150.92	194.45	8538.27
Sikkim	87.03	0	0	87.03	0	619	52.11	758.14
Central unallocated	1076.83	0	0	1076.83	0	85.01	0	1161.84
Total Eastern Region	28578.02	100	0	28678.02	0	4738.13	990.74	34406.89
Assam	339.02	783.51	0	1122.53	0	431.23	45.89	1599.65
Arunachal Pradesh	24.7	46.82	0	71.52	0	97.45	104.87	273.84
Meghalaya	30.4	109.69	0	140.09	0	347.19	31.04	518.32
Tripura	37.4	606.45	0	643.85	0	62.38	21.1	727.33
Manipur	31.4	71.57	36	138.97	0	88.93	5.48	233.38
Nagaland	21.4	48.93	0	70.33	0	53.37	31.17	154.87
Mizoram	20.7	40.46	0	61.16	0	34.19	41.57	136.92
Central unallocated	75	63.62	0	138.62	0	127.26	0	265.88
Total North Eastern Region	580.02	1771.05	36	2387.07	0	1242	281.12	3910.19
Andaman & Nicobar Island	0	0	40.05	40.05	0	0	11.81	51.86
Lakshadweep	0	0	0	0	0	0	0.71	0.71
Total Islands	0	0	40.05	40.05	0	0	12.52	52.57
GRAND TOTAL	192162.88	25329.36	837.63	218329.87	6780.01	44478.42	57260.24	326848.54

Source: CEA Report