



# POWER SYSTEM STATISTICS 2021-22



## Kerala State Electricity Board Limited

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**TABLE 1**  
**GROWTH OF KERALA POWER SYSTEM**

Sl. No.	Particulars	Unit	As on 31-3-2013	As on 31-3-2014	As on 31-3-2015	As on 31-3-2016	As on 31-3-2017	As on 31-3-2018	As on 31-3-2019	As on 31-3-2020	As on 31-3-2021	As on 31-3-2022
1	Installed capacity	MW	2881.22	2891.72	2835.63	2880.18	2915.80	2975.56	2866.19	2916.15	3029.61	3145.98
2	Maximum demand (Restricted)	MW	3268	3588	3602	3860	4004	3884	4242	4316	4284	4380
3	Maximum demand (Unrestricted)	MW	3298	3588	3727	3985	4079	3910	4242	4316	4284	4380
4	Annual energy requirement (Unrestricted)	MU	20736.19	21264.51	22040.04	22944.45	23849.54	24432.96	24958.23	26288.45	25144.99	26608.75
5	Own generation	MU	5334.27	8163.03	7286.90	6739.25	4325.08	5460.34	7577.02	5722.81	7057.90	9858.27
6	Power purchase (gross)	MU	14908.82	14070.42	15031.71	16448.36	19734.93	19426.74	18761.47	21128.51	18912.23	18887.67
7	Energy available for sale Excl. PGCIL loss	MU	19877.21	20542.49	21573.16	22727.34	23763.58	24340.79	24849.16	26226.09	25132.92	26703.19
8	Energy sale to other states	MU	0.97	1414.60	358.09	53.48	49.30	117.51	824.78	55.95	261.43	2094.41
9	Energy sale (within the state including OA)	MU	16838.29	17470.86	18430.73	19460.32	20452.91	21159.19	21750.25	23058.92	22540.32	23983.42
10	Total sale including export	MU	16839.26	18885.46	18788.82	19513.80	20502.21	21276.70	22575.03	23114.87	22801.75	26184.11
11	Per capita consumption	kWh	499	516	541	569	592	613	626	657	619	676
12	400kV lines (KSEBL)	Ckt km								92.00	177.03	177.03
13	220 kV Lines	Ckt km	2761.57	2765.00	2801.20	2801.88	2801.88	2856.88	2952.34	2952.66	3141.40	3485.67
14	110 kV Lines	Ckt km	4178.55	4260.27	4299.67	4345.52	4460.75	4521.50	4745.08	4797.75	5030.86	5385.43
15	66 kV Lines	Ckt km	2166.51	2202.81	2202.81	2220.56	2154.75	2151.12	2145.33	2000.75	2004.79	1572.11
16	33 kV Lines	Ckt km	1599.70	1719.28	1761.57	1826.66	1902.43	1943.51	1957.43	2057.49	2108.00	2335.66
17	HT lines (11 kV & 22 kV)	Ckt km	53,068	53,740	55,547	57,650	59,496	59,457	61014	62751	64540	68324
18	LT lines	Ckt km	2,63,620	2,68,753	2,68,753	278574	2,83,811	2,86,784	2,89,804	2,93,280	2,95,921	2,99,538
19	Step up transformer capacity #	MVA	2,612.00	2,615.00	2659	2691.05	2699.05	2707.05	2717.35	2717.35	2717.35	2781.1#
20	Step down transformer capacity **	MVA	17,408	17,913	18,461	18,779	19143.4	20499	21216	21578	23159	28199
21	EHT substations	No.	241	244	244	250	256	265	257	263	266	270
22	33 kV substations	No.	129	133	134	137	146	151	154	159	160	160
23	Distribution transformers	No.	64,972	67,546	71,195	73,460	75,580	77724	79876	81470	83465	85594
24	Distribution transformer capacity	MVA	7,940.37	8,329.11	8,694.21	8,950.01	9,141.12	9439	9703.9	9915	10166	10448
25	Number of consumers	Lakh	108.07	111.93	114.31	116.68	119.95	122.76	125.52	128.26	131.43	134.23
26	Connected load	MW	18,523.51	19,684.15	20391.53	20980.82	22040.62	23352.03	24940	26843	28302	29791
27	Street lights	No.	12,57,285	12,97,480	13,49,101	14,07,024	1412689	1417639	1422764	1447820	1476776	2301556
28	Irrigation pump sets	No.	4,66,289	4,78,449	4,90,056	5,00,082	512339	525367	538918	552858	495432	513406
28	Total revenue from sale of power	Rs.Crore	7,223.39	9,974.18	9,879.34	10,487.71	11,035.88	12,057.27	13,053.08	14,056.75	13,806.20	15,664.92

**Remarks**

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

\*\* Power transformers only

# Step up transformers at Generating Stations

## 2021-22 Street light count as per survey conducted during 2022 for NILAUVU Project

**TABLE 2**  
**PLAN WISE ACHIEVEMENTS**

SI. No	Particulars	12th Plan					13th Plan				
		1st Year	2nd Year	3rd Year	4th Year	5 th Year	1st Year	2nd Year	3rd Year	4th Year	5 th Year
		2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
1	Installed capacity (MW)	2.86	10.5	18.55	44.55	35.62	79.76	27.63	59.96	113.46	20.77
2	400kV line ( Ckt km)							0	92	86	0
3	220 kV line ( Ckt km)	26.87	0	36.2	0.68	0.00	54.10	0.00	73.18	238.00	224.81
4	110 kV line ( Ckt km)	27.55	112.59	39.4	66.60	67.66	79.76	134.20	235.24	324.50	228.98
5	66 kV line ( Ckt km)	4.60	36	0	6.00	0.00	0.44	29.50	0.00	8.40	0.00
6	33 kV line ( Ckt km)	64.90	71.44	42.29	66.79	75.77	41.08	60.90	100.06	39.20	68.85
7	11 kV line ( km)	1579	1884	1807	2022	1844	1744.11	1773	1939	2195	2391
8	LT Lines (km)	3066	3735	4636	3312	5357.00	3129.73	3401	3689	3650	3984
9	Step up transformer capacity (MVA)	6.60	3	44	32	8.00	8.00	10.30	0.00	0.00	11.00
10	No. of EHT substations including up gradation	3	6	2	11	3	11	4	12	15	7
11	No. of 33 kV substations	8	4	1	3	7	5	5	6	2	1
12	Step down transformer capacity (MVA)	412	505	547.9	318	280.5	1355.2	716.7	362	1581	740.5
13	No. of distribution transformers	2643	3200	3547	2389	2271	2353	2410	2023	2372	2355
14	Distribution transformer capacity (MVA)	266.45	388.74	365.1	255.8	191.11	297.88	264.9	211.1	251	281.94
15	Service connections effected (Nos.)	403421	415216	422238	381247	465531	353642	368673	380584	372116	361712
16	Connected load (MW)	1005.09	1160.64	707.4	589.3	1059.80	1311.407	1588.273	1902.7	1459	1489.31
17	Street lights installed (Nos.)	38675	40195	51621	57923	5665	4950	5125	25056	28956	274099*
18	Agricultural Pump sets connected (Nos.)	11211	12160	11607	10026	12257	13028	12686	13940	21143	17974

\* Also includes replacement of street lights with energy efficient LED lights under NILAAVU Scheme

**TABLE 3**  
**PARTICULARS OF GENERATORS**

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Name of Station	Pallivasal	Sengulam	Poringalkuthu	Neriamangalam	NES	Panniar	Sholayar	Sabarigiri	Kuttiyadi	Idukki Phase I	Idukki Phase II	Idamalayar	Kallada	Kanjikode wind farm	Lower Meenmutty	Kuttiadi Tail Race
2	Make of units	Alstom Canada	Alstom Canada	Allonward-SSIPL consortium	Alstom Switzerland	VA Tech Hydro India Ltd.	Alstom Canada	Yibin Fuyuan Equipment of Power Generation Co.ltd.	VA Tech Hydro Austria #4 PDL	Fuji Japan	Canadian General Electric	Marine Industree Limitee	BHEL	BHEL	Vestas Denmark	VA Tech Flovel / TD Power	Jyothi
3	Prime mover	Horizontal Pelton	Horizontal Pelton	Vertical Francis	Vertical Francis	Vertical Axis Francis Turbine	Vertical Francis	Vertical Francis	Vertical Pelton	Vertical Pelton	Vertical Pelton	Vertical Pelton	Vertical Francis	Vertical Kaplan	Wind	S-type Full Kaplan	Horizontal Full Kaplan
4	Rated kVA	5,550 / 9,330	14,125	10,000	19,500	27777	18,000	20,000	55,500/66,667	28,000	1,44,000	1,44,000	41,118	8,824	265	1667/555.61	1,470
5	Rated voltage (kV)	11	11	11	11	11	11	11	11	11	11	11	11	11	0.4	3.3	3.3
6	Nominal output (MW)	5/7.5	12.7	9	17.55	25	16.2	18	55/60	25	130	130	37.5	7.5	0.225	1.5 / 0.5	1.25
7	Power factor	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.85	0.85	0.85	0.9	0.85
8	Speed (RPM)	750	600	600	600	500	600	750	500	600	375	375	333.3	428.5	1000	750 / 500	600
9	Synchronous reactance X <sub>d</sub> (%)	117/113	114	1.0424	95	102.7	71.7	1.042 pu	102/123	85	0.94 pu	0.95 pu	105	124	-	90 / 100	80
10	Transient reactance X' <sub>d</sub> (%)	30/25	26	.2321/.2526	20	22	15.8	0.193 pu	33/29	29	0.235 pu	0.25 pu	29	21	-	15 / 19	26.2
11	Sub transient reactance X'' <sub>d</sub> (%)	24/22	22	0.637	13	18.43	12	0.153 pu	28/25	20	0.135 pu	0.19 pu	23	12.5	-	14 / 18	17.4
12	Negative sequence reactance X <sub>2</sub> (%)	28/26	28	0.1877	16	16.98	12.5	0.23 pu	28/26	19.5	0.177 pu	0.225 pu	27	14.5	-	11.7/15	17.1
13	Zero sequence reactance X <sub>0</sub> (%)	9/10	10	0.0457	6	9.86	5	0.04 pu	14/13	10.5	0.06 pu	0.08 pu	9	6.5	-	6/7	11.06
14	Short circuit ratio	1	1	1.6	1.08	1.218	1.55	1.05	1.1/0.96	1.1	1.23	1.1	1.05	1.1	-	1.31/1.3	1.1
15	Grounding of Neutral	Resistance	PT	NGT-10KVA	PT	Through single phase transformer with resistance across secondary	Neutral Grounding Transformer	Through NGT	PT with resistance	PT	Reactance Earthing	Reactance Earthing	Transformer	Transformer		Resistance	PT
16	Rated field current (Amps)	798/813	801	500	430	1050	447	627	711/688	900	1170	1375	850	840	-	192.34/140.51	240/95

Table 3 continued

**TABLE 3**  
**PARTICULARS OF GENERATORS**

		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
1	Name of Station	Peppara	Lower Periyar	BDPP	PLBE	KDPP	Kakkad	Mattupetty	KES	Malampuzha	Chembukadavu Stage I	Chembukadavu Stage II	Urumi Stage I	Urumi Stage II	Malankara	KAES	Ranni Perinad
2	Make of units	Jyothi / Kirloskar	BHEL	GEC Alstom France	BHEL	ABB	BHEL	Jyothi	GE Canada	Jyothi	Zhejiang Linhai Co Ltd. China	Kumming Electric Machinery Work, China	Chonging Electric Machinery Federation Ltd, China	Hangzom Electric Equipment Work, China	Kossler Austria/Jyothi	BHEL	Crompton/Kirlosker
3	Prime mover	S-type Full Kaplan	Vertical Francis	Diesel Engine	Vertical Francis	Diesel Engine	Vertical Francis	Horizontal Francis	Vertical Pelton	Horizontal Semi Kaplan	Horizontal Francis	Horizontal Francis	Horizontal Francis	Horizontal Francis	Horizontal Kaplan	Vertical Pelton	Horizontal Kaplan
4	Rated kVA	3,500	66,670	23,690	17,800	17,778	29,412	2,353	55,556	2,941	1,125	1,562.5	1,562.5	1,000	4,118	55,560	2,222
5	Rated voltage (kV)	11	11	11	11	11	11	11	11	11	6.3	6.3	6.3	6.3	11	11	3.3
6	Nominal output (MW)	3	60	21.32	16	16	25	2	50	2.5	0.9	1.25	1.25	0.8	3.5	50	2
7	Power factor	0.85	0.9	0.9	0.9	0.9	0.85	0.85	0.9	0.85	0.8	0.8	0.8	0.8	0.85	0.9	0.9
8	Speed (RPM)	500	333.3	428	600	500	428.6	750	500	750	750	750	1000	1000	750	500	750
9	Synchronous reactance X <sub>d</sub> (%)	90	100	160	105	216	100	88.4	99	90	110	113	127	112	93.55	108	100
10	Transient reactance X' <sub>d</sub> (%)	18	25	37	30	40	26.4		29	25	20.74	26	19.1	17.35	27.22	20.6	22
11	Sub transient reactance X'' <sub>d</sub> (%)	14	25	27.5	18	21	15	18.4	25	19	13.78	19	13.6	13.03	17.22	11.38	15
12	Negative sequence reactance X <sub>2</sub> (%)	15	18	29.5	24	21		10.25	27	20	14.35	19	14.4	14.13	23.84	11	20
13	Zero sequence reactance X <sub>0</sub> (%)	1	10	14.3	6	10.5		8.52	7	8	5.33	5.9	4.7	4.1	8.41	8	15
14	Short circuit ratio	1.1	1	0.75	1	0.531	1	1	1.1	1.11	1.095	1	≥1.0	>1.0	1	>1	1
15	Grounding of Neutral	Resistance	Transformer	Transformer	Transformer	Resistance	Transformer	NGT/NGR	Transformer	Transformer	Ungrounded	Ungrounded	Ungrounded	Ungrounded	Transformer	Transformer	Transformer
16	Rated field current (Amps)	4.8	1062	1085	750	405	950	235	1304	280	230	272	276	260	650	2916	140

Table 3 continued

**TABLE 3**  
**PARTICULARS OF GENERATORS**

		33	34	35	36	37	38	39	40	41	42	43
1	Name of Station	Poozhithode	Peechi	Vilangad	Chimmony	Barapole	Adyanpara	Vellathooval	Perunthenaruvi	Kakkayam SHEP	Chathankottunada Stage II SHEP	Upper Kallar SHEP
2	Make of units	TD Power System / Flovel	Kirloskar	TD Power System / Flovel	TD Power Systems Ltd	WEG Industries Pvt. Ltd.	Crompton Greaves	TD Power Systems Ltd	TD Power Systems Ltd	Crompton/ Kirlosker	WEG Generators	WEG Generators
3	Prime mover	Horizontal Francis	Horizontal Kaplan	Horizontal Francis	Horizontal Francis	Horizontal Francis	Horizontal Francis	Axial Flow 'S' type Horizontal Kaplan	Axial Flow 'S' type Horizontal Kaplan	Horizontal Kaplan	Horizontal Francis	Horizontal Francis
4	Rated kVA	1,778	1,388	2,778	2,778	5,556	1,667	2,000	3333	1667	2222	1112
5	Rated voltage (kV)	3.3	3.3	3.3	3.3	11	3.3	3.3	6.6	3.3	11	3.3
6	Nominal output (MW)	1.6	1.25	2.5	2.5	5	1.5	1.8	3	1.5	2	1
7	Power factor	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
8	Speed (RPM)	750	600	750	600	500	750	750	750	750	750	750
9	Synchronous reactance X <sub>d</sub> (%)	89.3	85	100	125	122	115	125	125	125	102.24	118
10	Transient reactance X' <sub>d</sub> (%)	22.06	26	23	35.6	28	21	26	20	26	20.62	24
11	Sub transient reactance X'' <sub>d</sub> (%)	17.6	19	16	22.4	19	13.4	20	16	18	18.92	15
12	Negative sequence reactance X <sub>2</sub> (%)	29	18	22	28	21	13.5	28	26	18	16	17
13	Zero sequence reactance X <sub>0</sub> (%)	19	12	16	20	4	14.2	19	19	16	6	4
14	Short circuit ratio	1.12	1	1.08	0.8	0.81	0.87	0.8	0.8	0.8	0.9	0.854
15	Grounding of Neutral	Transformer	Transformer	Neutral grounding resistor	Yes	Yes	Yes	NGT	NGT	NGT	NGT	NGT
16	Rated field current (Amps)	204.6	184	178	486	291.6	95	161	292	110A	103	114.4

**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			
<b>PART A - HYDEL</b>							
1	Pallivasal	Unit #1 - 5 Unit #2 - 5 Unit #3 - 5 Unit #4 - 7.5 Unit #5 - 7.5 Unit #6 - 7.5	19.03.1940 02.02.1941 10.02.1942 01.05.1948 01.10.1949 07.03.1951	19.11.2001 17.11.2001 20.11.2001 26.08.2002 21.08.2002 19.08.2002	37.50	284	86.67
2	Sengulam	Unit #1 - 12.7 Unit #2 - 12.7 Unit #3 - 12.7 Unit #4 - 12.7	01.05.1954 25.07.1954 11.11.1954 05.01.1955	30.11.2002 04.10.2002 05.12.2001 01.12.2001	50.80	182	43.33
3	Neriamangalam	Unit #1 - 17.55 Unit #2 - 17.55 Unit #3 - 17.55	27.01.1961 09.04.1961 11.05.1963	20.10.2004 31.11.2005 29.09.2006	52.65	237	60
4	Panniar	Unit #1 - 16.2 Unit #2 - 16.2	29.12.1963 26.01.1964	01.02.2003 23.11.2001	32.40	158	60
5	Poringalkuthu	Unit #1 - 9 Unit #2 - 9 Unit #3 - 9 Unit #4 - 9	06.03.1957 13.01.1958 24.04.1959 06.02.1960	23.04.2014 15.08.2014 08.02.2015 29.05.2015	36.00	191	61.25
6	Sholayar	Unit #1 - 18 Unit #2 - 18 Unit #3 - 18	09.05.1966 26.01.1968 14.05.1968	05.10.2020 20.01.2020 16.03.2019	54.00	233	38.15
7	Sabarigiri	Unit #1 - 55 Unit #2 - 55 Unit #3 - 55 Unit #4 - 60 Unit #5 - 55 Unit #6 - 60	18.04.1966 14.06.1966 29.12.1966 22.06.1967 09.09.1967 26.11.1967	08.11.2009 07.02.2009 17.03.2008 06.05.2014 05.05.2006 01.07.2005	340.00	1338	51
8	Kuttiyadi	Unit #1 - 25 Unit #2 - 25 Unit #3 - 25	11.09.1972 01.11.1972 28.11.1972	NA	75.00	268	40.80
9	Idukki	Unit #1 - 130 Unit #2 - 130 Unit #3 - 130 Unit #4 - 130 Unit #5 - 130 Unit #6 - 130	12.02.1976 07.06.1976 24.12.1976 04.11.1985 22.03.1986 09.09.1986	16.03.2018 20.01.2020 14.07.2019	780.00	2398	35.92
10	Idamalayar	Unit #1 - 37.5 Unit #2 - 37.5	03.02.1987 28.02.1987	NA	75.00	380	57.73
11	Kallada	Unit #1 - 7.5 Unit #2 - 7.5	05.09.1994 05.01.1994	NA	15.00	65	40.33
12	Peppara	3	15.06.1996	NA	3.00	11.50	43.33
13	Lower Periyar	Unit #1 - 60 Unit #2 - 60 Unit #3 - 60	27.09.1997 22.10.1997 28.11.1997	NA	180.00	493	31.28
14	Mattupetty	2	14.01.1998	NA	2.00	6.40	35
15	Poringalkuthu Left Bank Extension	16	20.03.1999	NA	16.00	74	61.25
16	Kakkad	Unit #1 - 25 Unit #2 - 25	13.10.1999	NA	50.00	262	60
17	Kuttiyadi Extension	50	27.01.2001	NA	50.00	75	17.12
18	Malampuzha	2.5	26.11.2001	NA	2.50	5.60	25.60
19	Chembukadavu Stage I	Unit #1 - 0.9 Unit #2 - 0.9 Unit #3 - 0.9	19.08.2003 19.08.2003 19.08.2003	NA	2.70	6.59	28
20	Chembukadavu Stage II	Unit #1 - 1.25 Unit #2 - 1.25 Unit #3 - 1.25	04.09.2003 04.09.2003 04.09.2003	NA	3.75	9.03	28
21	Urumi Stage I	Unit #1 - 1.25 Unit #2 - 1.25 Unit #3 - 1.25	25.01.2004 25.01.2004 25.01.2004	NA	3.75	9.72	30

Table-4 contd..



Sl. No.	Name of Station	Unit Capacity (MW)	Date of Commissioning		Station Capacity (MW)	Annual Generation Capability (MU)	Design PLF (%)
			Original date	After renovation			
22	Urumi Stage II	Unit #1 - 0.8 Unit #2 - 0.8 Unit #3 - 0.8	25.01.2004 25.01.2004 25.01.2004	NA	2.40	6.28	30
23	Malankara	Unit #1 - 3.5 Unit #2 - 3.5 Unit #3 - 3.5	23.10.2005 23.10.2005 23.10.2005	NA	10.50	65	70
24	Lower Meenmutty	Unit #1 - 1.5 Unit #2 - 1.5 Unit #3 - 0.5	25.03.2006 25.03.2006 25.03.2006	NA	3.50	7.63	30
25	Neriamangalam Extension	Unit #4 - 25	27.05.2008	NA	25.00	58.27	30
26	Kuttiadi Tailrace	Unit #1 - 1.25 Unit #2 - 1.25 Unit #3 - 1.25	19.06.2008 22.06.2008 23.10.2009	NA	3.75	15	50
27	Kuttiadi Additional Extension	Unit #1 - 50 Unit #2 - 50	11.10.2010 30.10.2010	NA	100.00	223	30
28	Poozhithode	Unit #1 - 1.6 Unit #2 - 1.6 Unit #3 - 1.6	25.06.2011 25.06.2011 25.06.2011	NA	4.80	10.97	26
29	Ranni Perinad	Unit #1 - 2 Unit #2 - 2	16.02.2012 16.02.2012	NA	4.00	16.73	48
30	Peechi	1.25	07.01.2013	NA	1.25	3.21	30
31	Vilangad	Unit #1 - 2.5 Unit #2 - 2.5 Unit #3 - 2.5	26.07.2014	NA	7.50	22.63	34
32	Chimony	2.5	25.05.2015	NA	2.50	6.7	30
33	Adyanpara	Unit #1 - 1.5 Unit #2 - 1.5 Unit #3 - 0.5	03.09.2015 03.09.2015 03.09.2015	NA	3.50	9.01	30
34	Poringalkuthu Micro	Unit#011	01.02.2016	NA	0.011	0.082	
35	Barapole	Unit #1 - 5 Unit #2 - 5 Unit #3 - 5	29.02.2016 29.02.2016 29.02.2016	NA	15.00	36	27
36	Vellathooval	Unit #1 - 1.8 Unit #2 - 1.8	26.05.2016	NA	3.60	12.7	40
37	Perunthenaruvi	Unit #1 - 3.0 Unit #2 - 3.0	23.10.2017	NA	6.00	25.77	49
38	Kakkayam	Unit #1 - 1.5 Unit #2 - 1.5	16.07.2018	NA	3.00	7.34	60
39	Chathankottunada Stage II	Unit #1 - 2.0 Unit #2 - 2.0 Unit #3 - 2.0	21.06.2021	NA	6.00	14.76	28
40	Upper Kallar	Unit #1 - 1.0 Unit #2 - 1.0	30.09.2021	NA	2.00	5.14	29
	<b>Total</b>				<b>2066.36</b>	<b>7233.06</b>	
	<b>PART B - WIND</b>						
1	Kanjikode	9 x 0.225 MW	18.05.1995	NA	2.025	4.00	20
	<b>Total</b>				<b>2.025</b>	<b>4.00</b>	<b>20</b>
	<b>PART C - THERMAL</b>						
1	Brahmaputra Diesel Power Plant (BDPP)	Unit #1 - 21.32 Unit #4 - 21.32 Unit #5 - 21.32	06.05.1997 17.12.1997 24.11.1998	NA	63.96	363.60	68.50
2	Kozhikode Diesel Power Plant (KDPP)	Unit #2 - 16 Unit #3 - 16 Unit #5 - 16 Unit #6 - 16 Unit #7 - 16 Unit #8 - 16	11.09.1999 18.09.1999 30.09.1999 11.09.1999 25.10.1999 06.11.1999	NA	96.00	672.00	80
	<b>Total</b>				<b>159.96</b>	<b>1035.6000</b>	

Table-4 contd..

Sl. No.	Name of Station	Unit Capacity (MW)	Date of Commissioning		Station Capacity (MW)	Annual Generation Capability (MU)	Design PLF (%)
			Original date	After renovation			
3	Kayamkulam (NTPC)	Unit #1 - 116.6 Unit #2 - 116.6 Unit #3 - 126.6	02.11.1999 28.02.1999 11.12.1999	NA	359.58	2158	68.50
<b>PART D - KSEB SOLAR</b>							
1	Kanjikode S/s GM	1.00	20.08.2015	NA	1.00	1.58	18.00
2	Chaliyoor Colony, Agali RT	0.096	31.08.2015	NA	0.10	0.15	18.00
3	Poringalkuthu Powerhouse RT	0.05	10.09.2015	NA	0.05	0.06	14.00
4	Banasurasagar FL , Wayanad	0.01	21.01.2016	NA	0.01	0.01	17.00
5	Meencut RT	0.025	30.06.2016	NA	0.03	0.04	18.00
6	Moolamattom & Malankara RT	0.05	30.06.2016	NA	0.05	0.08	18.00
7	Kollengode Substation GM	1.00	08.08.2016	NA	1.00	1.66	19.00
8	Padinjarethara Dam Top RT	0.44	29.08.2016	NA	0.44	0.73	19.00
9	Edayar Substation premises GM	1.25	05.09.2016	NA	1.25	2.08	19.00
10	Barapole Canal bank	1.00	07.11.2016	NA	1.00	1.66	19.00
11	Barapole Canal top	3.00	17.11.2016	NA	3.00	4.99	19.00
12	KDPP,Kozhikode RT	0.035	10.03.2017	NA	0.04	0.06	18.00
13	Thalakulathoor GM	0.65	22.04.2017	NA	0.65	1.00	17.50
14	Roof Top of Vidyuthi Bhavanams (8 nos.)	0.34	as on 31.03.2022	NA	0.34	0.42	14.00
15	Manjeswaram GM	0.50	30.05.2017	NA	0.50	0.70	16.00
16	Kuttipuram GM	0.50	28.11.2017	NA	0.50	0.83	19.00
17	Roof Top KSEBL Distribution Wing Buildings (5nos.)	0.14	as on 31.03.2022	NA	0.14	0.15	12.00
18	Moovattupuzha GM	1.25	15.01.2018	NA	1.25	1.75	16.00
19	Pothencode SS GM	2.00	02.02.2018	NA	2.00	2.80	16.00
20	Roof Top KSEBL Transmission Wing Buildings (3 nos.)	0.075	2016-17	NA	0.08	0.08	12.00
21	Roof Top KSEBL Transmission Wing Buildings (24 nos.)	0.73	2017-18	NA	0.73	0.77	12.00
22	Roof Top KSEBL Transmission Wing Buildings (11 nos.)	0.34	2018-19	NA	0.34	0.36	12.00
23	Roof Top KSEBL Transmission Wing Buildings (11 nos.)	0.21	2019-20	NA	0.21	0.22	12.00
24	Roof Top KSEBL Generation Wing PH/ Buildings (16nos.)	0.650	As on 31.3.2022	NA	0.65	0.68	12.00
25	S/s Ponnani RT	0.50	16.01.2019	NA	0.50	0.83	19.00
26	S/s Kottiyam GM	0.60	27.01.2020	NA	0.60	1.00	19.00
27	Banasurasagar Floating solar	0.50	21.01.2019	NA	0.50	0.74	17.00
28	Peerumedu GM	0.50	23.04.2018	NA	0.50	0.83	19.00
29	Agali GM	1.00	22.01.2022	NA	1.00	1.58	18.00
30	Kanjikkode GM	3.00	19.02.2022	NA	3.00	4.73	18.00
31	GM Solar Parambikulam off grid,4.4.2017	0.047	04.04.2017	NA	0.05	0.07	18.00
32	GM Solar Nelliampathy off grid(4/4/2017)	0.018	04.04.2017	NA	0.02	0.03	18.00
33	SOURA under KSEBL fund	8.77	As on 31.3.2022	NA	8.77	13.06	17
<b>Total</b>					<b>30.28</b>	<b>26.28</b>	
<b>PART D - PRIVATE HYDRO</b>							
1	Maniyar( Captive)	Unit #1 - 4 Unit #2 - 4 Unit #3 - 4	31.03.1994 30.12.1994 29.12.1994	NA	12.00	36	30.83
2	Kuthungal(Captive)	Unit #1 - 7 Unit #2 - 7 Unit #3 - 7	01.06.2001 01.06.2001 01.06.2001	NA	21.00	79	42.94
3	Ullunkal	Unit #1 - 3.5 Unit #2 - 3.5	13.11.2008 13.11.2008	NA	7.00	32.22	53
4	Iruttukkanam	Unit #1 - 1.5 Unit #2 - 1.5 Unit #3 - 1.5	18.09.2010 19.09.2010 4.04.2012	NA	4.50	15.86	50

Table-4 contd..

Sl. No.	Name of Station	Unit Capacity (MW)	Date of Commissioning		Station Capacity (MW)	Annual Generation Capability (MU)	Design PLF (%)
			Original date	After renovation			
5	Pampunkayam (Mankulam)	Unit #1 - 0.055 Unit #2 - 0.055	3.8.2012	NA	0.11	0.29	-
6	Karikkayam <sup>s</sup>	Unit #1 - 3.5 Unit #2 - 3.5 Unit #3 - 3.5 Additional 4.5	29.08.2013 2.09.2013 28.09.2013 23.05.2017	NA	15.00	62.42	-
7	Meenvallom	Unit #1 - 1.5 Unit #2 - 1.5	17.6.2014	NA	3.00	8.37	-
8	West Kallar	0.05	31.3.2015	NA	0.05	0.13	-
9	Pathankayam	Unit #1 - 3.5 Unit #2 - 3.5 Unit #3 - 1.0	14.7.2017	NA	8.00	21.02	30.00
10	Deviyar	Unit#1-.025 Unit #2-.025	2020-21	NA	0.05	0.02	
	<b>Total</b>				<b>70.71</b>	<b>255.3250</b>	
	<b>PART E - PRIVATE THERMAL*</b>						
1	Phillips Carbon Black Ltd (Co-generation plant)	52	31.03.2011	NA	10.00	70.08	-
	<b>Total</b>				<b>10.00</b>	<b>70.08</b>	
	<b>PART F - PRIVATE WIND</b>						
1	Ramakkalmedu (IPP)	6 x 0.75 MW 12 x 0.75 MW 1 x 0.75 MW	31.03.2008 31.03.2009 31.03.2010	NA	14.25	32.46	26
2	Agali & Koundikkal (IPP)	7 x 0.6 MW 16 x 0.6 MW 2 x 0.6 MW 6 x 0.6 MW	31.03.2008 31.03.2010 29.09.2010 31.10.2010	NA	18.60	37.48	23
3	Ahalia Alternate Energy Pvt Ltd, Kanjikode (IPP)	1 x 2.1 MW 3 x 2.1 MW	22.02.2016 23.03.2016	NA	8.40	16.19	22
4	INOX (IPP)	8x2 MW		NA	16.00	30.84	22
5	Kosamattom (IPP)	1X1 MW		NA	1.00	1.66	19
6	Malayala Manorama (CPP)	5x2 MW	28.4.2019	NA	10.00	20.15	23
	<b>Total</b>				<b>68.25</b>	<b>138.7672</b>	
	<b>PART G - PRIVATE SOLAR</b>						
1	Cochin International Airport Ltd. (Prosumer)	38.44 MW	24.03.2018	NA	38.44	58.93	17.5
2	Solar park, RPCKL Ambalathara(IPP)	4 MW	14.12.2016	NA	50.00	78.84	18
		16 MW	04.01.2017				
		8 MW	07.02.2017				
		8 MW	30.03.2017				
		14 MW	13-09-2017				
3	ANERT ,Kuzhalmandam	2MW	9.12.2016		2.00	3.33	19
4	Hindalco (Prosumer)	3MW	31.03.2016		3.00	4.73	18
5	KMRL (Prosumer)	5.395 MW	21.07.2019		5.40	0.00	
6	THDCIL-Paivalika Solar Park (IPP)	50 MW	31.12.2020		50.00	78.84	18
7	Grid Connected Solar Prosumers	222.435 MW	As on 31.3.2022		222.43	331.25	17
8	Solar Prosumers under SOURA	7.54 MW	As on 31.3.2022		7.54	11.23	17
	<b>Total</b>				<b>378.81</b>	<b>555.92</b>	
	<b>GRAND TOTAL</b>				<b>3145.98</b>	<b>11477.03</b>	

\* Note: BSES & KPCL not considered as PPA expired

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

# For solar plants, value mentioned against %PLF is % design CUF (approximate)

**TABLE 5**  
**ANNUAL PLANT LOAD FACTOR (PLF) OF HYDRO STATIONS (in %)**

Sl. No.	Station	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
1	Idukki	22.87	40.08	36.5	34.62	20.68	25.04	44.0875	26.74	37.19	45.21
2	Sabarigiri	35.16	66.32	41.12	39.21	26.77	32.55	50.78	37.25	40.83	68.72
3	Idamalayar	37.89	58.64	56.72	45.4	27.34	45.78	52.62	39.75	44.30	58.08
4	Kuttiady + KES +KAES	25.36	42.79	39.57	30.34	24.93	32.4	35.45	30.01	23.25	46.75
5	Poringalkuthu	46.02	37.66	57.97	54	42.79	51.29	40.29	34.34	48.65	66.45
6	PLBE	70.47	81.27		75.7			69.85	71.25	73.13	83.36
7	Sholayar	44.12	49.27	50.36	44.3	35.33	43.18	41.57	43.80	57.01	55.50
8	Pallivasal	51.49	65.61	78.94	83.5	68.18	77.36	56.36	43.18	40.22	43.98
9	Sengulam	25.45	33.48	36	38.17	27.49	34.46	27.51	33.79	26.28	40.93
10	Panniar	32.06	60.76	55.26	61.98	22.17	46.18	36.88	62.91	65.56	75.89
11	Neriamangalam	33.48	52.37	50.57	51.72	28.89	45.75	55.39	46.15	52.10	65.23
12	Lower Periyar	22.61	38.12	37.44	33.04	19.99	30.2	33.25	27.08	32.08	51.27
13	Kakkad	39.3	69	53.7	51	36.4	44.5	61.70	48.90	51.50	75.90
14	Kallada	16.6	51.57	48.53	33.88	35.55	41.22	51.95	25.39	38.00	45.57
15	Peppara	14.05	29.06	20.34	16.3	14.96	19.84	31.30	21.82	33.66	40.06
16	Madupetty	13.97	34.87	21.87	25.01	13.17	18.55	9.65	24.47	42.55	37.24
17	Malampuzha	8.69	20.03	25.14	9.2	2.85	6.38	19.41	18.79	12.41	17.87
18	Chembukadavu I	16.56	21.85	20.32	16.65	15.26	18.83	19.08	19.69	20.60	
19	Chembukadavu II	18.6	22.65	23.17	20.4	18.4	21.1	16.10	19.10	19.90	23.18
20	Urumi I	19.69	25.43	24.09	16.93	16.44	20.76	12.07	20.85	20.11	26.83
21	Urumi II	18.74	24.65	23.52	15.65	16.01	20.7	9.00	19.80	19.60	28.08
22	Malankara	45.79	32.99	64.23	35.2	47.08	53.94	36.15	30.71	34.10	45.85
23	Lower Meenmutty	7.04	17.9	20.78	18.78	8.14	16.48	19.81	15.82	19.82	22.62
24	Kuttiady Tailrace	23.96	24.86	35.93	25.39	19.29	25.11	62.06	53.85	51.06	64.18
25	Poozhithode	25.38	28.59	26.94	22.19	24.86	27.63	17.76	15.88	18.00	31.92
26	Ranni-Perinad	4.68	26.1	33.57	22.35	16.61	17.99	10.01	19.53	22.43	29.73
27	Peechi	-	-	16.39	12.86	3.53	10.21	22.84	22.00	4.31	0.00
28	Vilangad	-	-	10.98	19.23	23.84	23.32	11.83	19.49	22.71	28.94
29	Chimmony	-	-	-	20.68	6.95	15.22	30.60	29.27	37.25	38.30
30	Adyanpara	-	-	-	7	16.32	12	1.05	7.85	22.33	38.67
31	Vellathooval	-	-	-	-	9.66	14.34	1.61	1.61	0.00	3.51
32	Barapole	-	-	-	-	-	31.22	9.15	14.65	32.63	75.49
33	Perunthenaruvi	-	-	-	-	-	5.94	14.63	23.23	25.45	14.79
34	Kakkayam SHEP					-	-	-	30.91	45.94	66.87

**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	2012-13	2881.22	19877.21	3268	69.43%
2	2013-14	2891.72	20542.49	3588	65.36%
3	2014-15	2835.63	21573.16	3602	68.37%
4	2015-16	2880.18	22727.34	3860	67.21%
5	2016-17	2915.80	23763.57	4004	67.75%
6	2017-18	2975.56	24340.79	3884	71.54%
7	2018-19	2866.19	24849.15	4242	66.87%
8	2019-20	2916.15	26226.08	4316	69.37%
9	2020-21	3029.61	25132.93	4284	66.97%
10	2021-22	3145.98	26703.19	4380	69.60%

**TABLE -7**  
**RESERVOIR DETAILS AND DATA FOR POWER GENERATION**

Sl.No.	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)
1	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
2	Thariode	775.60	201.00	754.86	23.75	KAES	2 x 50	245.22			
3	Sholayar	811.68	149.23	779.37	4.25	Sholayar	3 x 18	152.21	300	1.50	7.50
4	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
5	Idamalayar	169.00	1017.80	115.00	72.00	Idamalayar	2 x 37.5	254.45	110	4.00	41.67
6	Kundala	1758.70	7.80	1735.84	0.02	Pallivasal	3 x 5	22.74	570	0.71	0.98
7	Mattupetty	1599.59	55.22	1554.48	0.13		3 x 7.5	161.23		0.79	1.65
8	Sengulam	847.64	1.61	844.86		Sengulam	4 x 12.8	0.71	341	1.27	4.23
9	Anayirankal	1207.01	49.00	1188.11	0.85	Panniyar	2 x 16.2	65.62	220	2.13	8.83
10	Ponmudi	707.75	47.40	676.66	4.15			63.52			
11	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				
12	Idukki	732.43	1459.70	694.94	536.86	Idukki	6 x 130	2147.88	660	0.68	24.50
13	Pamba	986.33	31.10	963.16	8.10	Sabarigiri	4x55+2x60	59.46	750	0.62	8.61
14	Kakkad	981.46	446.50	908.30	7.60			856.47			
15	Kallada	115.82	488.53	24.38	16.14	Kallada	2 x 7.5	50.10	43	9.75	20.32
16	Peppara	110.50	67.50	87.50	2.50	Peppara	1 x 3	3.45	25	19.55	16.30
17	Lower Periyar	253.00	4.55	237.74	0.80	Lower Periyar	3 x 60	2.09	203.63	2.17	36.66
18	Kakkad	192.63	1.16	181.36	0.34	Kakkad	2 x 25	0.36	132.6	3.25	22.58
19	Malampuzha	115.09	236.70	99.50	10.20	Malampuzha	1 x 2.5	5.60	14.4	28.24	23.14
20	Chembukadavu I	No Reservoir	NA	NA	NA	Chembukadavu I	3 x 0.9	NA	35.5	12.22	3.06
21	Chembukadavu II					3 x 1.25	55		7.75	2.69	
22	Urumi I					3 x 1.25	96.5		4.47	1.55	
23	Urumi II	No Reservoir	NA	NA	NA	Urumi II	3 x 0.8	NA	55	7.98	1.77
24	Lower Meenmutty					62.75	NA		61.3	NA	Lower Meenmutty
25	Malankara	42	18.8	36	18.5	Malankara SHEP	3 x 3.5	0.53	12.2	35.50	34.50
26	Ranni Perinad	No Reservoir	NA	NA	NA	Ranni Perinad	2 x 2	NA	6.3		78.34
27	Poozhithode	No Reservoir	NA	NA	NA	Poozhithode	3 x 1.6	NA	72	5.67	91.87
28	Peechi	79.25		69.7	0.62	Peechi	1 x 1.25	3.21	22.75		6.31
29	Vilangad	No Reservoir	NA	NA	NA	Vilangad	3 x 2.5	22.63	99	4.14	2.875
30	Chimmony	79.4	172.82	56.5	2.54	Chimmony	1 x 2.5	6.7	45.46	12.86	8.93
31	Barapole	No Reservoir	NA	NA	NA	Barapole	3 x 5	36	50	8.47	11.30
32	Adyanpara	No Reservoir	NA	NA	NA	Adyanpara	2 x 1.5 + 0.5	9.01	94	4.4023	1.83
33	PLBE tail race	No Reservoir	NA	NA	NA	Poringalkuttu Micro	1 x 0.11	0.1	1		
34	Vellathooval	No Reservoir	NA	NA	NA	Vellathooval	2 X 1.8	12.17	12	30.8	15.65
35	Perunthenaruvi	51	0.6	48	0.4	Perunthenaruvi	2 x 3	0.025	17.33	24	20.98
36	Chathankottunada Stage II*	125.2	NA	121.7	NA	Chathankottunada SHEP Stage II	3 x 2	14.76	90	5.5	3.05
37	Upper Kallar	No Reservoir	NA	NA	NA	Upper Kallar Power House	2 x 1	5.14	51	9.18	2.55

\* Chathankottunada SHEP Phase II project is a run off river scheme, but not a storage scheme. Hence effective storage and dead storage not applicable for the Reservoir

**TABLE 8**  
**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
<b>A</b>	<b>Hydro</b>													
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	<b>3041.71</b>
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	<b>1434.71</b>
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	<b>348.99</b>
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	<b>766.02</b>
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	<b>167.13</b>
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	<b>102.15</b>
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	<b>220.36</b>
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	<b>231.45</b>
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	<b>162.27</b>
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	<b>184.48</b>
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	<b>360.53</b>
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	<b>648.65</b>
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	<b>231.53</b>
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	<b>65.63</b>
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	<b>8.20</b>
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	<b>31.94</b>
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	<b>1.22</b>
18	Chembukadavu	0.00	0.00	3.00	2.97	3.41	2.15	0.16	0.30	0.00	0.00	0.00	0.00	<b>11.99</b>
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	<b>13.27</b>
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	<b>2.77</b>
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	<b>4.86</b>
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	<b>8.57</b>
23	Poozhithode			0.60	2.53	3.03	2.27	0.48	0.33	0.09	0.04	0.00	0.00	<b>9.36</b>
24	Ranni-Perinad											0.02	0.20	<b>0.21</b>
	<b>Sub Total Hydro</b>	<b>707.77</b>	<b>777.92</b>	<b>628.15</b>	<b>610.21</b>	<b>642.46</b>	<b>834.43</b>	<b>772.03</b>	<b>610.87</b>	<b>614.48</b>	<b>500.25</b>	<b>608.25</b>	<b>751.19</b>	<b>8058.01</b>
	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	<b>38.44</b>
	<b>Net Hydro Generation</b>	<b>704.39</b>	<b>774.21</b>	<b>625.15</b>	<b>607.30</b>	<b>639.39</b>	<b>830.45</b>	<b>768.34</b>	<b>607.96</b>	<b>611.55</b>	<b>497.86</b>	<b>605.35</b>	<b>747.61</b>	<b>8019.57</b>
<b>B</b>	<b>Wind</b>	<b>0.08</b>	<b>0.20</b>	<b>0.16</b>	<b>0.18</b>	<b>0.18</b>	<b>0.12</b>	<b>0.60</b>	<b>0.12</b>	<b>0.10</b>	<b>0.10</b>	<b>0.11</b>	<b>0.08</b>	<b>2.03</b>
<b>C</b>	<b>Thermal</b>													
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	<b>57.08</b>
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	<b>233.63</b>
	<b>Sub Total Thermal</b>	<b>41.13</b>	<b>33.33</b>	<b>20.93</b>	<b>9.50</b>	<b>8.49</b>	<b>6.59</b>	<b>19.05</b>	<b>15.17</b>	<b>30.18</b>	<b>28.59</b>	<b>33.99</b>	<b>43.76</b>	<b>290.70</b>
	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	<b>8.86</b>
	<b>Net Thermal Generation</b>	<b>39.85</b>	<b>32.30</b>	<b>20.33</b>	<b>9.21</b>	<b>8.23</b>	<b>6.38</b>	<b>18.46</b>	<b>14.75</b>	<b>29.28</b>	<b>27.70</b>	<b>32.93</b>	<b>42.42</b>	<b>281.84</b>
<b>D</b>	<b>Total Internal Generation (excl. aux. cons.)</b>	<b>744.32</b>	<b>806.71</b>	<b>645.64</b>	<b>616.69</b>	<b>647.81</b>	<b>836.95</b>	<b>787.40</b>	<b>622.83</b>	<b>640.93</b>	<b>525.66</b>	<b>638.40</b>	<b>790.10</b>	<b>8303.45</b>

Table 8 contd..

<b>E</b>	<b>Central Generating Stations</b>													
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	<b>2590.90</b>
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	<b>312.92</b>
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	<b>3125.29</b>
4	Simhadri						9.29	22.69	26.34	30.72	30.27	26.22	30.99	<b>176.51</b>
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	<b>454.97</b>
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	<b>650.20</b>
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	<b>422.51</b>
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	<b>118.41</b>
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	<b>438.28</b>
	<b>Sub Total CGS</b>	<b>675.88</b>	<b>746.59</b>	<b>713.33</b>	<b>614.21</b>	<b>639.30</b>	<b>554.76</b>	<b>565.18</b>	<b>632.94</b>	<b>726.25</b>	<b>801.82</b>	<b>777.06</b>	<b>842.68</b>	<b>8289.99</b>
<b>F</b>	<b>UI Import</b>	<b>47.88</b>	<b>63.09</b>	<b>70.04</b>	<b>65.22</b>	<b>58.99</b>	<b>-29.89</b>	<b>35.30</b>	<b>16.14</b>	<b>42.39</b>	<b>46.80</b>	<b>61.69</b>	<b>55.79</b>	<b>533.43</b>
<b>G</b>	<b>IPPs</b>													
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	<b>486.36</b>
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	<b>46.61</b>
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	<b>10.05</b>
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	<b>31.27</b>
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	<b>35.71</b>
6	Ullunkal	1.98	1.84	2.84	2.50	2.87	2.83	1.88	1.52	1.38	0.86	0.95	1.72	<b>23.16</b>
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	<b>17.62</b>
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	<b>20.51</b>
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	<b>36.85</b>
	<b>Sub Total IPPs</b>	<b>159.91</b>	<b>82.69</b>	<b>52.75</b>	<b>30.86</b>	<b>21.38</b>	<b>20.29</b>	<b>81.13</b>	<b>63.95</b>	<b>10.83</b>	<b>39.27</b>	<b>40.56</b>	<b>104.53</b>	<b>708.14</b>
<b>H</b>	<b>Power purchase through traders (KSEB bus)</b>	<b>3.12</b>	<b>30.40</b>	<b>21.52</b>	<b>245.70</b>	<b>194.15</b>	<b>154.28</b>	<b>148.41</b>	<b>226.90</b>	<b>242.86</b>	<b>254.70</b>	<b>104.78</b>	<b>55.81</b>	<b>1682.62</b>
<b>I</b>	<b>SWAP Return</b>	<b>5.29</b>	<b>0.75</b>									<b>12.13</b>	<b>30.86</b>	<b>49.02</b>
<b>J</b>	<b>Total power purchase (E+F+G+H+I)</b>	<b>892.07</b>	<b>923.51</b>	<b>857.64</b>	<b>955.99</b>	<b>913.82</b>	<b>699.44</b>	<b>830.01</b>	<b>939.94</b>	<b>1022.33</b>	<b>1142.59</b>	<b>996.21</b>	<b>1089.66</b>	<b>11263.21</b>
<b>K</b>	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	<b>413.21</b>
<b>L</b>	<b>Net power purchase at KSEB bus</b>	<b>852.16</b>	<b>880.19</b>	<b>819.19</b>	<b>929.70</b>	<b>881.99</b>	<b>680.63</b>	<b>801.48</b>	<b>913.31</b>	<b>986.01</b>	<b>1101.88</b>	<b>955.46</b>	<b>1047.99</b>	<b>10850.00</b>
<b>M</b>	<b>Total Generation &amp; Purchase (D+L)</b>	<b>1596.48</b>	<b>1686.90</b>	<b>1464.83</b>	<b>1546.39</b>	<b>1529.80</b>	<b>1517.58</b>	<b>1588.88</b>	<b>1536.14</b>	<b>1626.95</b>	<b>1627.54</b>	<b>1593.86</b>	<b>1838.09</b>	<b>19153.44</b>
<b>N</b>	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	<b>13.54</b>
<b>O</b>	<b>Net energy available for sale</b>	<b>1595.35</b>	<b>1685.70</b>	<b>1463.80</b>	<b>1545.30</b>	<b>1528.72</b>	<b>1516.50</b>	<b>1587.76</b>	<b>1535.05</b>	<b>1625.80</b>	<b>1626.39</b>	<b>1592.73</b>	<b>1836.79</b>	<b>19139.90</b>
<b>P</b>	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	<b>201.10</b>
<b>Q</b>	<b>Net energy available for sale within the State</b>	<b>1542.10</b>	<b>1685.70</b>	<b>1436.80</b>	<b>1471.38</b>	<b>1507.61</b>	<b>1490.73</b>	<b>1587.76</b>	<b>1535.05</b>	<b>1625.80</b>	<b>1626.39</b>	<b>1592.73</b>	<b>1836.76</b>	<b>18938.81</b>



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

Table 9 contd..

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

**TABLE 10**  
**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
<b>A</b>	<b>Hydro</b>													
1	Idukki	101.74	75.27	82.49	120.94	370.81	390.97	398.64	249.42	196.08	281.97	228.57	241.85	2738.72
2	Sabarigiri	120.59	82.49	65.01	109.99	180.42	184.72	196.07	160.89	157.60	114.91	98.24	164.28	1635.21
3	Idamalayar	18.86	9.52	6.36	35.77	53.30	51.02	54.13	41.90	23.65	26.56	29.35	35.64	386.07
4	Kuttiadi + KES + KAES	47.83	40.99	80.07	132.84	120.86	102.38	90.37	56.68	44.11	44.46	40.90	40.93	842.42
5	Poringalkuthu + PLBE	10.03	12.19	27.25	29.89	28.77	28.47	28.15	18.40	12.80	13.43	12.63	14.71	236.72
6	Sholayar	21.87	23.62	8.56	0.55	24.82	28.85	13.49	15.21	25.00	13.42	26.17	31.77	233.31
7	Pallivasal	18.68	17.77	18.46	19.98	19.48	19.02	19.96	17.68	13.97	16.16	16.77	17.62	215.53
8	Sengulam	8.12	9.29	9.90	11.00	18.29	18.88	19.68	10.74	7.83	9.22	8.90	10.01	141.85
9	Panniar	3.96	5.10	9.51	23.69	23.48	22.19	23.48	17.27	10.34	10.65	6.69	13.97	170.32
10	Neriamangalam + NES	9.29	10.79	41.26	57.13	56.16	53.62	44.24	28.77	16.21	16.83	12.28	19.18	365.75
11	Lower Periyar	9.91	11.74	82.18	126.77	99.58	95.03	65.84	40.44	20.69	17.68	12.04	19.11	601.00
12	Kakkad	17.26	12.60	16.44	23.64	26.08	26.04	25.96	22.74	21.93	17.43	15.34	22.20	247.66
13	Kallada	0.79	0.00	0.00	3.06	8.41	5.25	10.19	10.13	11.11	5.66	5.27	7.68	67.55
14	Peppara	0.34	0.25	0.00	1.55	0.98	1.17	0.74	1.16	0.39	0.37	0.36	0.33	7.63
15	Malankara	1.49	1.15	2.54	3.19	2.40	1.69	2.49	3.46	3.07	3.21	2.81	2.88	30.38
16	Madupetty	0.78	0.62	0.09	0.00	0.09	0.96	1.27	0.06	0.14	0.47	0.65	0.64	5.75
17	Chembukadavu - I & II	0.00	0.00	2.91	3.71	1.97	2.18	1.24	0.35	0.07	0.00	0.00	0.00	12.42
18	Urumi - I & II	0.00	0.06	2.82	3.82	2.52	2.77	1.42	0.25	0.01	0.00	0.00	0.00	13.67
19	Malampuzha	0.00	0.00	0.00	0.00	0.01	0.58	0.56	0.83	1.56	1.14	0.29	0.00	4.96
20	Lower Meenmutty	0.03	0.05	0.88	1.27	0.96	0.57	0.61	0.78	0.31	0.09	0.03	0.05	5.62
21	Kuttiady tail race	0.72	0.61	1.11	1.13	0.92	0.81	0.77	0.58	0.49	0.27	0.02	0.53	7.96
22	Poozhithode	0.00	0.05	2.63	3.05	2.52	1.89	1.49	0.33	0.10	0.04	0.00	0.00	12.10
23	Ranni-Perinad	0.53	0.40	1.09	1.27	1.72	1.25	1.40	1.14	0.04	0.00	0.00	0.69	9.52
24	Peechi	0.00	0.00	0.00	0.04	0.44	0.62	0.53	0.36	0.51	0.39	0.20	0.22	3.29
	<b>Sub Total Hydro</b>	<b>392.81</b>	<b>314.56</b>	<b>461.53</b>	<b>714.27</b>	<b>1044.96</b>	<b>1040.92</b>	<b>1002.70</b>	<b>699.56</b>	<b>567.99</b>	<b>594.36</b>	<b>517.51</b>	<b>644.26</b>	<b>7995.43</b>
	<b>Auxiliary consumption</b>	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
	<b>Net Hydro Generation</b>	<b>391.17</b>	<b>313.25</b>	<b>459.60</b>	<b>711.29</b>	<b>1040.60</b>	<b>1036.58</b>	<b>998.52</b>	<b>696.64</b>	<b>565.62</b>	<b>591.88</b>	<b>515.35</b>	<b>641.58</b>	<b>7962.08</b>
<b>B</b>	<b>Wind</b>	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
<b>C</b>	<b>Thermal</b>													
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
	<b>Sub Total Thermal</b>	<b>68.19</b>	<b>52.03</b>	<b>10.90</b>	<b>5.66</b>	<b>5.37</b>	<b>4.34</b>	<b>6.84</b>	<b>10.72</b>	<b>9.92</b>	<b>7.97</b>	<b>10.01</b>	<b>28.92</b>	<b>220.88</b>
	<b>Auxiliary consumption</b>	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
	<b>Net Thermal Generation</b>	<b>66.56</b>	<b>50.73</b>	<b>10.48</b>	<b>5.39</b>	<b>5.08</b>	<b>4.09</b>	<b>6.53</b>	<b>10.23</b>	<b>9.46</b>	<b>7.64</b>	<b>9.67</b>	<b>28.19</b>	<b>214.06</b>
	<b>Total Internal Generation</b>	<b>457.87</b>	<b>364.27</b>	<b>470.24</b>	<b>716.89</b>	<b>1045.88</b>	<b>1040.83</b>	<b>1005.16</b>	<b>706.93</b>	<b>575.21</b>	<b>599.68</b>	<b>525.11</b>	<b>669.87</b>	<b>8177.94</b>
	<b>Auxiliary consumption in substations</b>	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
<b>D</b>	<b>Total Internal Generation (excl. aux. cons.)</b>	<b>456.68</b>	<b>363.08</b>	<b>469.24</b>	<b>715.80</b>	<b>1044.69</b>	<b>1039.59</b>	<b>1003.85</b>	<b>705.76</b>	<b>574.00</b>	<b>598.26</b>	<b>523.77</b>	<b>668.31</b>	<b>8163.03</b>
<b>E</b>	<b>Central Generating Stations</b>													
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

Table 10 contd..

	Name of Station / Source	04/13	05/13	06/13	07/13	08/13	09/13	10/13	11/13	12/13	01/14	02/14	03/14	Total
2	Eastern Region	14.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.98
3	Talcher Stage-II	188.70	176.50	217.71	237.00	240.06	252.42	242.22	276.86	282.37	296.50	263.00	303.75	2977.09
4	Simhadri STPS Stg II Unit 1	57.39	51.62	61.06	45.42	27.00	44.73	39.62	59.70	66.44	75.15	65.37	72.00	665.50
5	NLC-Stage-I	41.26	41.66	36.96	38.93	31.84	34.96	32.56	35.02	31.69	51.62	38.34	49.37	464.21
6	NLC-Stage-II	58.72	57.41	59.65	50.58	29.67	39.92	64.26	47.78	64.47	71.45	54.58	66.45	664.94
7	NLC Expansion	45.62	47.00	45.25	45.78	41.69	44.12	23.99	27.33	41.50	47.78	40.27	43.19	493.52
8	MAPS	5.22	5.26	5.24	5.53	5.47	5.26	10.83	7.35	11.46	11.37	9.31	11.42	93.72
9	KAIGA	40.41	47.23	46.44	50.39	50.70	42.60	42.13	32.47	40.91	43.77	40.19	35.36	512.60
10	IGSTPS (Jhajjar) NR	41.19	44.21	36.27	54.81	53.55	54.46	77.05	68.07	65.97	66.91	61.09	67.09	690.67
11	Vallur STPS	8.55	5.82	4.22	10.75	3.30	9.29	13.30	11.93	11.19	24.01	17.34	15.43	135.13
12	Kudamkulam (KKNPP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.88	55.43	73.31
	<b>Sub Total CGS</b>	<b>716.78</b>	<b>698.48</b>	<b>688.86</b>	<b>719.21</b>	<b>624.99</b>	<b>692.87</b>	<b>720.10</b>	<b>784.01</b>	<b>840.22</b>	<b>922.39</b>	<b>820.85</b>	<b>946.31</b>	<b>9175.07</b>
<b>F</b>	UI Import	65.91	49.36	61.91	35.21	0.78	-5.75	33.66	39.32	50.72	61.60	69.81	50.37	512.90
<b>G</b>	IPPs													
1	RGCCP (NTPC Kayamkulam)	212.46	106.03	0.00	0.00	0.00	0.00	0.00	0.02	35.81	192.62	194.66	205.55	947.15
2	BSES	44.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.45	94.08	90.07	97.99	337.92
3	KPCL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Ramakalmedu Wind	0.49	2.87	6.77	6.31	4.23	4.08	2.20	1.04	1.56	1.78	0.66	1.21	33.21
5	Agali Wind	2.38	5.79	7.29	5.87	5.10	6.59	4.34	0.43	0.70	0.80	0.51	1.05	40.86
6	Ullunkal	1.42	0.98	1.97	2.58	2.91	3.18	2.73	2.22	1.77	1.18	0.95	1.73	23.62
7	Iruttukkanam I	0.25	0.12	2.22	2.63	2.61	2.53	2.12	1.11	0.05	0.08	0.18	0.06	13.96
8	Iruttukkanam II	0.00	0.13	1.07	1.39	1.37	1.35	1.19	0.94	0.97	0.42	0.11	0.18	9.10
9	MP Steel	0.00	2.13	2.13	1.93	2.52	2.87	2.56	0.85	3.14	3.01	2.48	2.58	26.18
10	Philips Carbon	2.24	1.18	0.85	1.78	2.26	2.31	2.35	1.87	2.96	1.50	1.68	2.20	23.17
11	Karikkayam	-	-	-	-	0.08	3.98	3.66	2.88	2.18	1.31	1.05	2.04	17.18
	<b>Sub Total IPPs</b>	<b>263.57</b>	<b>119.24</b>	<b>22.30</b>	<b>22.49</b>	<b>21.00</b>	<b>22.90</b>	<b>17.48</b>	<b>8.47</b>	<b>60.58</b>	<b>296.78</b>	<b>292.35</b>	<b>314.59</b>	<b>1461.76</b>
<b>H</b>	Power purchase through traders (KSEB bus)	<b>284.23</b>	<b>546.77</b>	<b>239.25</b>	<b>137.56</b>	<b>66.30</b>	<b>99.50</b>	<b>170.86</b>	<b>195.91</b>	<b>279.57</b>	<b>240.12</b>	<b>314.57</b>	<b>346.06</b>	<b>2920.69</b>
<b>I</b>	Total power purchase (E+F+G+H)	<b>1330.49</b>	<b>1413.85</b>	<b>1012.32</b>	<b>914.47</b>	<b>713.07</b>	<b>809.53</b>	<b>942.10</b>	<b>1027.71</b>	<b>1231.09</b>	<b>1520.88</b>	<b>1497.58</b>	<b>1657.33</b>	<b>14070.42</b>
<b>J</b>	External PGCIL loss	32.82	18.70	14.24	24.18	10.71	31.53	23.52	19.00	19.15	23.56	46.16	30.12	293.69
<b>K</b>	Net power purchase at KSEB bus (I-J)	<b>1297.67</b>	<b>1395.15</b>	<b>998.08</b>	<b>890.29</b>	<b>702.36</b>	<b>778.00</b>	<b>918.58</b>	<b>1008.71</b>	<b>1211.94</b>	<b>1497.32</b>	<b>1451.42</b>	<b>1627.21</b>	<b>13776.73</b>
<b>L</b>	Net Generation & Purchase (D+K)	<b>1754.35</b>	<b>1758.22</b>	<b>1467.33</b>	<b>1606.09</b>	<b>1747.05</b>	<b>1817.58</b>	<b>1922.43</b>	<b>1714.47</b>	<b>1785.94</b>	<b>2095.58</b>	<b>1975.19</b>	<b>2295.52</b>	<b>21939.76</b>
<b>M</b>	Energy injected by private developers at Generator end for sale outside state through open access through OA													0.00
<b>N</b>	Energy purchased by consumers through open access at Kerala periphery													17.33
<b>O</b>	Energy sale outside the State by KSEBL													1414.60
<b>P</b>	Energy injected by private developers at Kerala periphery for sale outside state through open access													0.00
<b>Q</b>	Net energy available for sale (L +M+N-O-P)													20542.49
<b>R</b>	Energy purchased by consumers through open access at consumer end													16.81
<b>S</b>	Energy sale inside the state by KSEBL													17454.05
<b>T</b>	Energy sale with in the state including open access consumers (R+S)													17470.86
<b>U</b>	Loss in KSEBL system (Q-T)													3071.63

**TABLE 11**  
**STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS & SYSTEM LOSSES FOR 2014-15**

(in Million Units)

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

Table 11 contd..

Sl. No.	Name of Station / Source	04/14	05/14	06/14	07/14	08/14	09/14	10/14	11/14	12/14	01/15	02/15	03/15	Total
<b>E</b>	<b>Central Generating Stations</b>	<b>899.08488</b>	<b>889.96893</b>	<b>821.49</b>	<b>848.88</b>	<b>802.03</b>	<b>786.90</b>	<b>795.33</b>	<b>872.22</b>	<b>1009.99</b>	<b>1063.00</b>	<b>988.55</b>	<b>1064.10</b>	<b>10841.54</b>
<b>F</b>	<b>UI Import / Deviation settlement</b>	39.85	50.09	66.98	62.96	53.28	65.63	64.84	64.39	79.14	66.02	57.51	51.85	<b>722.54</b>
<b>G</b>	<b>IPPs</b>													
1	RGCCPP (NTPC Kayamkulam)	213.36	82.06	110.32	102.16	48.02	0	86.47	96.68	59.76	0	0	0.00	<b>798.81</b>
2	BSES	97.98	12.66	0.00	0.00	0.00	0	0.00	36.27	0.00	0	0	0.00	<b>146.91</b>
3	KPCL	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0	0	0.00	<b>0.00</b>
4	Ramakkalmedu Wind	0.39	1.55	5.36	6.46	4.28	3.4	0.88	1.17	0.79	1.24	0.7	0.51	<b>26.73</b>
5	Agali Wind	1.47	4.17	7.99	8.60	7.92	5.84	1.51	0.84	0.58	0.30	0.64	0.56	<b>40.41</b>
6	Ullunkal	1.81	1.61	1.05	2.75	2.88	2.41	2.69	1.63	0.84	0.54	0.90	1.70	<b>20.80</b>
7	Iruttukkanam I	0.11	0.35	1.16	2.54	2.63	2.54	2.50	1.48	1.09	0.62	0.29	0.31	<b>15.61</b>
8	Iruttukkanam II	0.12	0.21	0.80	1.25	1.37	1.27	1.29	1.02	0.19	0.00	0.03	0.04	<b>7.57</b>
9	MP Steel	2.24	1.99	2.97	1.30	2.87	2.10	3.73	2.04	0.40	1.42	0.00	0.00	<b>21.05</b>
10	Philips Carbon	2.17	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>3.48</b>
11	Karikkayam	2.26	2.27	1.43	3.96	4.20	2.70	3.80	2.03	1.01	0.56	0.87	2.09	<b>27.17</b>
12	Meenvalloam	0.00	0.00	0.00	0.00	0.16	0.82	0.29	0.50	0.25	0.15	0.11	0.08	<b>2.37</b>
	<b>Sub Total IPPs</b>	<b>321.90</b>	<b>108.16</b>	<b>131.08</b>	<b>129.01</b>	<b>74.33</b>	<b>21.07</b>	<b>103.16</b>	<b>143.65</b>	<b>64.90</b>	<b>4.81</b>	<b>3.55</b>	<b>5.29</b>	<b>1110.91</b>
<b>H</b>	<b>Power purchase through traders (KSEB bus)</b>													
	Power purchase through exchange	0.00	0.00	11.21	21.03	87.86	112.79	67.42	108.56	158.10	100.31	54.67	7.87	<b>729.80</b>
	Power purchase from MT & ST at traders end	280.60	260.09	200.88	5.78	5.98	54.55	4.21	29.20	95.14	227.93	212.83	249.74	<b>1626.92</b>
<b>I</b>	<b>Total power purchase (E+F+G+H)</b>	<b>1541.43</b>	<b>1308.31</b>	<b>1231.63</b>	<b>1067.65</b>	<b>1023.47</b>	<b>1040.94</b>	<b>1034.96</b>	<b>1218.01</b>	<b>1407.27</b>	<b>1462.07</b>	<b>1317.10</b>	<b>1378.86</b>	<b>15031.71</b>
<b>J</b>	External PGCIL loss													<b>393.00</b>
<b>K</b>	<b>Net power purchase at KSEB bus (I-J)</b>													<b>14638.71</b>
<b>J</b>	<b>Net Generation &amp; Purchase (D+K)</b>	<b>2231.91</b>	<b>1987.03</b>	<b>1744.44</b>	<b>1738.92</b>	<b>1721.12</b>	<b>1752.69</b>	<b>1805.74</b>	<b>1783.43</b>	<b>1848.64</b>	<b>1866.02</b>	<b>1780.17</b>	<b>2058.51</b>	<b>21925.61</b>
<b>K</b>	Energy injected by private developers at Generator end for sale outside state through open access													<b>26.41</b>
<b>L</b>	Energy purchased by consumers through open access at Kerala periphery													<b>4.66</b>
<b>M</b>	Energy sale outside the State by KSEBL													<b>358.09</b>
<b>N</b>	Energy injected by private developers at Kerala periphery for sale outside state through open access													<b>25.43</b>
<b>O</b>	<b>Net energy available for sale (J +K+L-M-N)</b>													<b>21573.16</b>
<b>P</b>	Energy purchased by consumers through open access at consumer end													<b>4.46</b>
<b>Q</b>	Energy sale inside the state by KSEBL													<b>18426.27</b>
<b>R</b>	Energy sale with in the state including open access consumers ( <b>P+Q</b> )													<b>18430.73</b>
<b>S</b>	<b>Loss in KSEBL system (O-R)</b>													<b>3142.43</b>

**TABLE 12**  
**STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS & SYSTEM LOSSES FOR 2015-16**

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

Table 12 contd..

Sl. No	Stations	04/15	05/15	06/15	07/15	08/15	09/15	10/15	11/15	12/15	01/16	02/16	03/16	TOTAL
	Auxiliary Consumption of Substations	1.43	1.26	1.10	1.10	1.09	1.11	1.14	1.13	1.16	1.19	1.12	1.31	14.14
<b>E</b>	<b>Total Internal Generation (excl. aux. cons.)</b>	<b>635.20</b>	<b>765.78</b>	<b>528.38</b>	<b>710.87</b>	<b>677.12</b>	<b>611.94</b>	<b>538.17</b>	<b>406.21</b>	<b>399.02</b>	<b>405.17</b>	<b>453.79</b>	<b>607.60</b>	<b>6739.25</b>
<b>F</b>	<b>Central Generating Stations at Kerala periphery</b>	<b>984.76</b>	<b>961.54</b>	<b>927.79</b>	<b>866.35</b>	<b>873.36</b>	<b>833.73</b>	<b>966.29</b>	<b>934.02</b>	<b>927.14</b>	<b>947.14</b>	<b>922.30</b>	<b>904.27</b>	<b>11048.70</b>
<b>G</b>	<b>UI Import/ Deviation Settlement</b>	<b>45.86</b>	<b>47.95</b>	<b>43.53</b>	<b>52.97</b>	<b>59.31</b>	<b>66.10</b>	<b>74.41</b>	<b>72.10</b>	<b>57.97</b>	<b>47.06</b>	<b>48.16</b>	<b>77.92</b>	<b>693.34</b>
<b>H</b>	<b>IPP's</b>													
	RGCCPP (NPTC Kayamkulam)	-0.90	-0.80	3.08	-0.85	17.76	100.65	14.33	-0.71	-0.39	-0.86	-0.78	-0.71	129.80
	BSES	-0.16	5.04	-0.12	-0.15	-0.17	-0.16	-0.11	-0.15	-0.16	-0.15	0.15	-0.16	3.71
	KPCL	0.00	0.00	0.00	0.00	7.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.21
	Wind	1.40	4.30	6.93	13.53	10.88	7.31	2.93	1.18	3.23	2.35	1.86	1.50	57.40
	Ullunkal	1.84	1.76	1.95	2.24	2.21	1.59	1.73	1.13	1.08	0.87	0.84	1.02	18.26
	Iruttukkanam I	0.34	0.44	1.53	2.64	2.56	2.34	2.35	1.39	1.19	0.57	0.20	0.16	15.69
	Iruttukkanam II	0.27	0.45	0.77	1.36	1.30	1.22	1.26	1.11	0.78	0.24	0.21	0.15	9.14
	MP Steel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Karikkayam	2.24	2.19	2.77	3.15	3.30	2.32	2.98	2.05	1.76	1.30	1.31	1.61	26.99
	Meenvallom	0.09	0.23	0.50	1.12	0.87	0.73	0.80	0.58	0.29	0.15	0.11	0.08	5.56
	INDSIL	0.00	0.00	4.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.25
	Kallar	0.05	0.02	0.01	0.01	0.02	0.01	0.01	0.01	0.03	0.02	0.02	0.02	0.22
	Pampunkayam (Mankulam)	0.01	0.01	0.0049	0.01	0.01	0.01	0.0047	0.0032	0.0006	0.0031	0.00	0.00	0.06
	<b>Sub Total IPPs</b>	<b>5.19</b>	<b>13.65</b>	<b>21.66</b>	<b>23.06</b>	<b>45.96</b>	<b>116.01</b>	<b>26.29</b>	<b>6.58</b>	<b>7.79</b>	<b>4.50</b>	<b>3.91</b>	<b>3.67</b>	<b>278.28</b>
<b>I</b>	<b>Power purchase through traders (KSEB bus)</b>													
	Power purchase through exchanges	0.94	0.94	108.05	56.86	108.73	87.12	139.02	114.91	32.75	4.11	10.90	50.87	715.21
	Power purchase through MTOA & STOA	199.06	138.97	103.92	111.96	105.30	128.44	148.57	243.72	358.63	396.86	364.08	478.52	2778.03
	Power purchase through LTOA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.60	82.33	79.05	98.82	308.80
	Swap Return	0.35	0.00	0.14	0.10	1.18	2.00	1.44	5.89	38.85	9.46	11.30	4.68	75.40
	<b>Sub Total Power Purchase excluding PGCIL losses</b>	<b>200.36</b>	<b>139.91</b>	<b>212.11</b>	<b>168.92</b>	<b>215.21</b>	<b>217.56</b>	<b>289.03</b>	<b>364.53</b>	<b>478.83</b>	<b>492.77</b>	<b>465.34</b>	<b>632.89</b>	<b>3877.45</b>
<b>J</b>	<b>Total power purchase (F+G+H+I)</b>	<b>1236.17</b>	<b>1163.05</b>	<b>1205.09</b>	<b>1111.30</b>	<b>1193.84</b>	<b>1233.40</b>	<b>1356.02</b>	<b>1377.23</b>	<b>1471.73</b>	<b>1491.47</b>	<b>1439.71</b>	<b>1618.75</b>	<b>15897.76</b>
<b>K</b>	<b>Net Generation &amp; Purchase (E+J)</b>	<b>1871.37</b>	<b>1928.83</b>	<b>1733.47</b>	<b>1822.17</b>	<b>1870.96</b>	<b>1845.34</b>	<b>1894.19</b>	<b>1783.44</b>	<b>1870.75</b>	<b>1896.64</b>	<b>1893.50</b>	<b>2226.35</b>	<b>22637.01</b>
<b>L</b>	Energy injected by private developers at Generator end for sale outside state through open access													40.44
<b>M</b>	Energy purchased by consumers through open access at Kerala periphery													142.00
<b>N</b>	Energy sale outside the State by KSEBL													53.48
<b>O</b>	Energy injected by private developers at Kerala periphery for sale outside state through open access													38.63
<b>P</b>	<b>Net energy available for sale (K+L+M-N-O)</b>													<b>22727.34</b>
<b>Q</b>	Energy purchased by consumers through open access at consumer end													135.25
<b>R</b>	Energy sale inside the state by KSEBL													19325.07
<b>S</b>	<b>Energy sale with in the state including open access transactions (Q+R)</b>													<b>19460.32</b>
<b>S</b>	<b>Loss in KSEBL system (P-S)</b>													<b>3267.02</b>



**TABLE 13**  
**STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS & SYSTEM LOSSES FOR 2016-17**

(in Million Units)

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

Table 13 contd..

Sl. No	Stations	04/16	05/16	06/16	07/16	08/16	09/16	10/16	11/16	12/16	01/17	02/17	03/17	TOTAL
	<b>Total Internal Generation</b>	<b>597.54</b>	<b>392.03</b>	<b>337.45</b>	<b>431.74</b>	<b>435.29</b>	<b>423.32</b>	<b>357.46</b>	<b>243.62</b>	<b>222.91</b>	<b>212.11</b>	<b>239.45</b>	<b>424.60</b>	<b>4317.51</b>
	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	<b>Total Internal Generation (excl. aux. cons.)</b>	<b>596.19</b>	<b>390.69</b>	<b>336.15</b>	<b>430.61</b>	<b>434.09</b>	<b>422.14</b>	<b>356.22</b>	<b>242.43</b>	<b>221.68</b>	<b>210.92</b>	<b>238.25</b>	<b>423.31</b>	<b>4325.04</b>
F	<b>Central Generating Stations at Kerala periphery</b>	<b>904.68</b>	<b>913.31</b>	<b>779.98</b>	<b>799.80</b>	<b>818.03</b>	<b>821.50</b>	<b>845.81</b>	<b>801.42</b>	<b>847.16</b>	<b>906.35</b>	<b>850.40</b>	<b>917.37</b>	<b>10205.80</b>
G	<b>IPPs</b>													
	RGCCPP (NPTC Kayamkulam)	14.30	-0.79	-0.65	-0.63	-0.68	-0.71	-0.72	-0.65	-0.66	-0.72	-0.63	-0.70	6.77
	Wind	4.11	6.80	13.02	13.87	17.29	13.76	7.44	2.23	3.50	3.45	3.76	3.09	92.32
	Ullunkal	1.40	1.08	1.68	1.76	1.51	1.17	0.84	0.89	0.68	0.42	0.44	1.11	12.98
	Iruttukkanam I & II	0.29	0.47	2.93	4.17	4.16	3.49	2.02	0.99	0.60	0.31	0.17	0.40	19.98
	Karikkayam	2.09	1.83	3.05	3.34	2.56	1.85	1.30	1.41	1.01	0.62	0.71	2.04	21.80
	Meenvallom	0.06	0.08	0.72	1.86	1.04	0.72	0.52	0.46	0.22	0.12	0.08	0.10	5.98
	Kallar													0.03
	Mankulam Grama (No Suggestions)													0.08
	Injection to grid by PCBL for open access	0.01	-0.02	0.02	-0.01	-0.02	0.07	0.08	0.20	0.15	0.21	-0.36	0.07	0.41
	<b>Sub Total IPPs</b>	<b>22.27</b>	<b>9.47</b>	<b>20.77</b>	<b>24.36</b>	<b>25.85</b>	<b>20.35</b>	<b>11.47</b>	<b>5.53</b>	<b>5.51</b>	<b>4.41</b>	<b>4.18</b>	<b>6.11</b>	<b>160.36</b>
	<b>Hydro Captive Power Plants (Net injection)</b>													
	Maniyar	1.49	0.14	2.88	1.97	-0.33	1.30	-1.74	-0.39	0.89	0.55	0.52	-0.66	6.62
	Kuthungal	0.96	-0.09	-0.35	0.28	0.38	0.25	0.39	0.31	-0.01	-0.15	-0.11	-0.10	1.76
	Sub total	<b>2.45</b>	<b>0.06</b>	<b>2.53</b>	<b>2.25</b>	<b>0.05</b>	<b>1.55</b>	<b>-1.35</b>	<b>-0.08</b>	<b>0.88</b>	<b>0.40</b>	<b>0.41</b>	<b>-0.76</b>	<b>8.37</b>
	<b>Solar IPPs</b>													
	Hindalco	0.15	0.13	0.09	0.12	0.14	0.14	0.14	0.13	0.14	0.15	0.13	0.16	1.61
	Anert, Kuzhalmandam	0.00	Deviation in	0.00	0.00	0.00	0.00	0.00	0.10	0.26	0.28	0.28	0.28	0.93
	Ambalathara -Solar Park IPP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	1.72	2.50	3.12	7.55	
	Sub total	<b>0.15</b>	<b>0.13</b>	<b>0.09</b>	<b>0.12</b>	<b>0.14</b>	<b>0.14</b>	<b>0.14</b>	<b>0.13</b>	<b>0.46</b>	<b>2.13</b>	<b>2.91</b>	<b>3.56</b>	<b>10.09</b>
H	<b>Sub total IPPs/CPPs</b>	<b>24.87</b>	<b>9.65</b>	<b>23.39</b>	<b>26.72</b>	<b>26.04</b>	<b>22.04</b>	<b>10.26</b>	<b>5.58</b>	<b>6.84</b>	<b>6.94</b>	<b>7.49</b>	<b>8.91</b>	<b>178.83</b>
	<b>Power purchase through traders (KSEB bus)</b>													
	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 & STO	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	<b>Sub Total Power Purchase excluding PGCIL losses</b>	<b>741.11</b>	<b>776.28</b>	<b>609.87</b>	<b>589.10</b>	<b>641.32</b>	<b>571.45</b>	<b>735.99</b>	<b>846.89</b>	<b>832.13</b>	<b>800.65</b>	<b>738.50</b>	<b>782.24</b>	<b>8665.54</b>
J	<b>Total power purchase (F+H+I)</b>	<b>1670.65</b>	<b>1699.23</b>	<b>1413.25</b>	<b>1415.63</b>	<b>1485.38</b>	<b>1414.98</b>	<b>1592.06</b>	<b>1653.89</b>	<b>1686.13</b>	<b>1713.94</b>	<b>1596.39</b>	<b>1708.52</b>	<b>19050.16</b>
K	<b>Net Generation &amp; Purchase at Kerala Periphery</b>	<b>2266.84</b>	<b>2089.92</b>	<b>1749.40</b>	<b>1846.23</b>	<b>1919.48</b>	<b>1837.12</b>	<b>1948.28</b>	<b>1896.32</b>	<b>1907.81</b>	<b>1924.86</b>	<b>1834.65</b>	<b>2131.83</b>	<b>23375.20</b>
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	<b>Net energy available for sale (K+L+M+N+O)</b>	<b>2278.41</b>	<b>2122.01</b>	<b>1797.85</b>	<b>1920.95</b>	<b>1958.04</b>	<b>1875.35</b>	<b>1988.09</b>	<b>1933.10</b>	<b>1947.63</b>	<b>1969.81</b>	<b>1874.96</b>	<b>2173.45</b>	<b>23763.53</b>
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	<b>Energy sale with in the state including open access transactions (Q+R)</b>	<b>1900.95</b>	<b>1800.67</b>	<b>1687.44</b>	<b>1602.76</b>	<b>1708.55</b>	<b>1656.18</b>	<b>1679.22</b>	<b>1574.25</b>	<b>1705.65</b>	<b>1686.40</b>	<b>1637.86</b>	<b>1812.98</b>	<b>20452.91</b>
T	<b>Loss in KSEBL system (P-S)</b>	<b>377.46</b>	<b>321.34</b>	<b>110.40</b>	<b>318.19</b>	<b>249.49</b>	<b>219.17</b>	<b>308.87</b>	<b>358.85</b>	<b>241.98</b>	<b>283.42</b>	<b>237.10</b>	<b>360.47</b>	<b>3386.76</b>

**TABLE 14**  
**STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS & SYSTEM LOSSES FOR 2017-18**

(in Million Units)

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

Table 14 Contd..

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

(in Million Units)

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

Table 14 Contd..

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

(in Million Units)

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

Table 14 Contd..

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

(in Million Units)

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

TABLE 15

## STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS &amp; SYSTEM LOSSES FOR 2018-19

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

Table 15 Contd..

Sl. No	Stations	04/18	05/18	06/18	07/18	08/18	09/18	10/18	11/18	12/18	01/19	02/19	03/19	TOTAL
<b>IIa</b>	<b>KSEBL Wind</b>													
33	Kanjikode	0.07	0.08	0.13	0.22	0.26	0.13	0.04	0.07	0.06	0.12	0.09	0.07	1.33
	Auxiliary consumption wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>IIb</b>	<b>Net Generation wind (KSEBL)</b>	<b>0.07</b>	<b>0.08</b>	<b>0.13</b>	<b>0.22</b>	<b>0.26</b>	<b>0.13</b>	<b>0.04</b>	<b>0.07</b>	<b>0.06</b>	<b>0.12</b>	<b>0.09</b>	<b>0.07</b>	<b>1.33</b>
<b>IIIa</b>	<b>KSEBL Solar</b>													
34	Total solar	1.57	2.58	1.04	1.14	0.99	1.70	1.47	1.44	1.47	1.81	1.48	1.84	18.54
	Auxiliary Consumption Solar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>IIIb</b>	<b>KSEBL Net Solar</b>	<b>1.57</b>	<b>2.58</b>	<b>1.04</b>	<b>1.14</b>	<b>0.99</b>	<b>1.70</b>	<b>1.47</b>	<b>1.44</b>	<b>1.47</b>	<b>1.81</b>	<b>1.48</b>	<b>1.84</b>	<b>18.54</b>
<b>IV a</b>	<b>KSEBL Thermal</b>													
35	BDPP,Brahmapuram	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.17	0.00	0.29
36	KDPP, Nallalam	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	2.68	3.80
	Aux. cons.- BDPP (Thermal)	0.05	0.06	0.04	0.04	0.05	0.05	0.06	0.05	0.05	0.05	0.05	0.05	0.62
	Aux cons.-KDPP (Thermal)	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.13	0.82
<b>IVb</b>	<b>KSEBL Net Thermal Generation</b>	<b>0.92</b>	<b>-0.11</b>	<b>-0.11</b>	<b>-0.10</b>	<b>-0.11</b>	<b>-0.11</b>	<b>0.00</b>	<b>-0.05</b>	<b>-0.12</b>	<b>-0.12</b>	<b>0.05</b>	<b>2.50</b>	<b>2.66</b>
<b>A</b>	<b>Net Generation- KSEBL (Ib+IIb+IIIb+IVb)</b>	<b>633.57</b>	<b>603.71</b>	<b>564.42</b>	<b>839.75</b>	<b>1036.78</b>	<b>791.15</b>	<b>843.65</b>	<b>526.11</b>	<b>359.33</b>	<b>358.85</b>	<b>429.16</b>	<b>606.64</b>	<b>7593.12</b>
<b>B</b>	<b>Power Purchase</b>													
<b>Va</b>	<b>Central Generating Stations at Kerala periphery ( KSEB end)</b>													
1	RSTPS ( Unit 1 to 6)	157.43	146.26	135.21	105.38	71.21	118.44	118.20	147.26	152.79	121.11	135.69	132.30	1541.29
2	RSTPS ( Unit 7)	35.91	37.71	38.24	38.50	25.14	32.43	40.33	16.76	7.55	36.58	34.06	40.99	384.20
3	TALCHER STAGE II	260.38	268.10	233.20	169.70	176.45	184.65	188.73	240.32	272.37	261.29	231.20	282.21	2768.59
4	Simhadri TPS Stage II	55.92	32.97	20.19	35.66	18.65	36.33	51.28	50.86	55.77	55.80	51.97	54.12	519.53
5	Kudgi STPS	50.45	50.06	14.20	8.29	0.00	42.41	27.81	32.41	44.30	47.21	51.73	70.58	439.47
6	NLC II STAGE 1	35.05	36.75	28.98	23.97	22.59	33.66	32.10	25.62	37.06	36.87	32.84	33.98	379.46
7	NLC II STAGE 2	56.28	44.90	39.75	36.30	39.52	48.99	49.78	49.89	54.22	44.65	46.56	50.88	561.72
8	NLC I EXPANSION	42.20	18.74	29.61	26.32	16.93	20.94	43.49	41.29	44.35	43.95	39.84	44.36	412.02
9	NLC II EXPANSION	12.87	15.83	8.24	23.55	11.62	18.43	31.84	22.02	32.12	35.36	32.75	24.87	269.50
10	NTPL	41.26	44.43	37.16	29.26	15.76	34.66	43.36	43.43	40.24	27.48	20.72	25.16	402.93
11	VALLUR STPS	33.72	27.31	15.63	16.80	9.15	17.99	16.92	19.72	22.48	17.66	26.14	33.08	256.60
12	MAPS	6.26	6.36	6.29	6.20	6.48	6.19	5.60	3.29	0.00	0.00	5.66	5.86	58.20
13	KAPS I & II	23.91	24.60	24.14	25.39	25.07	24.35	24.75	23.44	24.09	12.47	11.79	22.45	266.45
14	KAPS III& IV	22.29	22.80	22.25	19.50	23.09	11.80	22.06	22.59	23.26	23.30	21.10	18.63	252.67
15	KKNPP	82.28	86.01	89.18	88.42	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	347.04
16	KKNPP unit 2	0.00	0.00	0.00	16.01	1.09	17.06	48.08	65.18	65.83	65.62	52.27	50.28	381.42
<b>Vb</b>	<b>TOTAL CGS</b>	<b>916.20</b>	<b>862.84</b>	<b>742.29</b>	<b>669.25</b>	<b>463.90</b>	<b>648.32</b>	<b>744.33</b>	<b>804.04</b>	<b>876.45</b>	<b>829.37</b>	<b>794.34</b>	<b>889.75</b>	<b>9241.09</b>
<b>VI.a</b>	<b>Thermal IPPs/Co-Gen</b>													
1	RGCCPP actual Gen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.81
2	BSES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	MPS Steel(Co-Gen Plant)Net injection to Grid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	PCBL (Co-Gen Plant)Net injection to grid	0.15	0.03	0.14	0.15	0.25	0.10	0.07	0.05	0.32	0.43	0.03	0.34	2.05

Table 15 Contd..



Sl. No	Stations	04/18	05/18	06/18	07/18	08/18	09/18	10/18	11/18	12/18	01/19	02/19	03/19	TOTAL
VI.b	<b>Thermal IPPs /Co-Gen total</b>	<b>0.15</b>	<b>0.03</b>	<b>0.14</b>	<b>0.15</b>	<b>0.25</b>	<b>0.10</b>	<b>0.07</b>	<b>0.05</b>	<b>0.32</b>	<b>0.43</b>	<b>0.84</b>	<b>0.34</b>	<b>2.86</b>
VII.a	<b>IPPs-Small hydro(net)</b>													
1	Ullunkal (EDCL)	1.46	1.44	1.32	2.38	1.11	0.00	0.00	0.00	0.75	0.61	0.40	1.27	10.75
2	Iruttukanam(VIYYAT)	0.33	1.37	3.57	4.16	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.51
3	Kaarikkayam (AHPL)	3.42	4.44	6.53	8.91	5.95	3.40	5.31	2.64	1.03	1.16	0.76	2.23	45.78
4	Meenvallam (PSHCL)	0.06	0.14	1.27	1.96	1.78	0.61	0.80	0.36	0.19	0.10	0.08	0.06	7.41
5	Pathankayam (MREPPPL)	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
6	Mankulam GP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	Kallar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VII.b	<b>IPPs-Small hydro Total</b>	<b>5.28</b>	<b>7.39</b>	<b>12.76</b>	<b>17.41</b>	<b>9.91</b>	<b>4.00</b>	<b>6.11</b>	<b>3.00</b>	<b>1.97</b>	<b>1.87</b>	<b>1.25</b>	<b>3.56</b>	<b>74.51</b>
VIII.a	<b>Captive Power plants</b>													
1	Maniyar IPP hydel net	0.24	0.43	5.19	0.75	2.52	-6.72	0.00	0.15	0.10	0.01	0.03	0.16	2.86
2	Kuthungal IPP hydel net	1.72	-1.03	0.49	4.50	0.04	-1.31	6.51	2.29	-2.40	-3.29	-0.49	0.80	7.82
VIII.b	<b>CPP -Total</b>	<b>1.96</b>	<b>-0.60</b>	<b>5.68</b>	<b>5.25</b>	<b>2.56</b>	<b>-8.02</b>	<b>6.51</b>	<b>2.44</b>	<b>-2.31</b>	<b>-3.28</b>	<b>-0.46</b>	<b>0.96</b>	<b>10.68</b>
IX.a	<b>Wind IPPs</b>													
1	Ramakalmedu, Wind	0.42	1.09	3.88	5.47	4.65	2.12	0.71	0.97	0.89	1.63	1.24	0.61	23.68
2	Agali, Wind	0.82	1.43	6.10	6.55	5.11	2.87	0.53	0.30	0.20	0.44	0.87	0.81	26.04
3	Koundikkal													0.00
4	Ahalya Wind	0.96	1.32	2.27	3.05	3.01	1.96	0.73	0.81	0.79	1.28	1.04	0.94	18.15
5	INOX	1.99	2.76	4.13	6.27	6.64	3.75	1.40	2.14	2.04	3.23	2.47	2.08	38.90
6	Kosamattam	0.00	0.01	0.21	0.37	0.35	0.15	0.01	0.00	0.00	0.02	0.00	0.00	1.13
IX.b	<b>Wind IPPs Total</b>	<b>4.20</b>	<b>6.61</b>	<b>16.59</b>	<b>21.70</b>	<b>19.76</b>	<b>10.86</b>	<b>3.38</b>	<b>4.21</b>	<b>3.91</b>	<b>6.61</b>	<b>5.62</b>	<b>4.45</b>	<b>107.90</b>
X.a	<b>Solar IPPs /Prosumer</b>													
1	Anert, Kuzhalmandam	0.24	0.21	0.15	0.14	0.12	0.24	0.23	0.17	0.23	0.25	0.26	0.30	2.54
2	Ambalathara -Solar Park IPP	7.16	5.79	3.81	4.28	4.93	7.25	6.76	6.72	6.37	7.74	7.37	8.37	76.53
3	CIAL net injection-solar prosumer	0.09	-0.34	-0.63	0.29	0.09	0.16	0.06	0.14	0.21	0.54	0.80	0.53	1.95
4	Grid connected consumers net injection	2.70	0.02	0.00	0.30	0.41	0.04	0.01	0.23	0.10	0.44	0.00	0.00	4.24
X.b	<b>Solar IPPs Total</b>	<b>10.19</b>	<b>5.68</b>	<b>3.34</b>	<b>5.00</b>	<b>5.54</b>	<b>7.70</b>	<b>7.04</b>	<b>7.26</b>	<b>6.91</b>	<b>8.96</b>	<b>8.43</b>	<b>9.20</b>	<b>85.26</b>
	<b>Total IPP, CPP and Co-gen (VIb+VIIb+VIIIb+IXb+Xb)</b>	<b>21.78</b>	<b>19.11</b>	<b>38.51</b>	<b>49.52</b>	<b>38.01</b>	<b>14.64</b>	<b>23.10</b>	<b>16.96</b>	<b>10.80</b>	<b>14.60</b>	<b>15.68</b>	<b>18.50</b>	<b>281.22</b>
	<b>Traders</b>													
XI.a	<b>LTOA contracts</b>													
1	MAITHON (MPL)	85.74	90.45	87.07	72.28	74.61	63.52	79.59	81.60	98.74	83.40	91.55	102.00	1010.56
2	MAITHON (MPL)	85.74	90.45	87.07	72.28	74.63	63.52	79.59	81.60	98.74	83.40	91.55	102.00	1010.58
3	DVC-MEJIA	58.98	52.51	57.79	38.28	39.91	28.43	22.31	47.69	33.76	62.88	61.66	66.21	570.42
4	DVC RAGHUNATHPUR	15.07	11.11	5.72	10.39	6.89	7.55	6.69	7.54	9.94	10.80	15.48	19.94	127.14
5	Jindal Power Limited ((Bid I)	110.99	113.61	99.11	105.16	102.11	104.41	122.48	113.37	120.92	121.93	106.00	123.51	1343.61
6	Jindal Power Limited ((Bid II)	83.18	85.16	74.40	78.92	78.33	80.18	91.88	85.02	90.63	91.45	79.53	92.62	1011.31
7	Jhabua Power Limited ((Bid I)	34.75	52.48	64.44	33.86	21.97	74.86	56.88	56.59	61.62	74.59	52.20	70.97	655.21

Table 15 Contd..

Sl. No	Stations	04/18	05/18	06/18	07/18	08/18	09/18	10/18	11/18	12/18	01/19	02/19	03/19	TOTAL
8	Jhabua Power Limited ((Bid II)	30.26	45.63	57.86	27.77	17.48	65.10	49.46	49.20	53.59	64.86	45.41	61.87	568.48
9	BALCO	62.93	64.94	59.28	54.02	67.15	52.18	23.17	62.88	67.04	63.90	59.97	63.30	700.75
10	JITPL	61.10	56.38	59.07	48.08	23.37	47.75	61.18	57.59	63.10	60.31	54.28	61.77	653.99
XI.b	<b>Sub Total LTOA</b>	<b>628.75</b>	<b>662.72</b>	<b>651.82</b>	<b>541.06</b>	<b>506.45</b>	<b>587.50</b>	<b>593.21</b>	<b>643.08</b>	<b>698.09</b>	<b>717.53</b>	<b>657.63</b>	<b>764.20</b>	<b>7652.05</b>
XII.a	<b>Short Term Contracts</b>													
XII.b	<b>Sub Total STOA</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Power Exchanges</b>													
XII.a	<b>TAM</b>													
1	IEX	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.41	0.00	0.93
2	PXIL	0.00	0.78	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	0.00	0.31	1.97
XII.b	<b>TAM Sub Total</b>	<b>0.00</b>	<b>0.78</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.39</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.41</b>	<b>0.31</b>	<b>2.90</b>
XIII.a	<b>DAM</b>													
1	IEX	1.27	3.76	0.00	0.00	0.81	10.75	3.87	84.90	168.14	65.22	107.19	21.15	467.06
2	PXIL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.03	7.03
XIII.b	<b>DAM Sub Total</b>	<b>1.27</b>	<b>3.76</b>	<b>0.00</b>	<b>0.00</b>	<b>0.81</b>	<b>10.75</b>	<b>3.87</b>	<b>84.90</b>	<b>168.14</b>	<b>65.22</b>	<b>107.19</b>	<b>28.18</b>	<b>474.09</b>
XIV	<b>KPTCL-Overarching</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>
XV	<b>Swap-inwards</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7.60964</b>	<b>135.1636</b>	<b>142.77</b>
XVI	<b>Deviation Settlement Mechanism (Net)</b>	<b>36.52</b>	<b>30.78</b>	<b>27.25</b>	<b>21.39</b>	<b>-5.89</b>	<b>23.11</b>	<b>20.55</b>	<b>26.79</b>	<b>25.55</b>	<b>8.24</b>	<b>20.52</b>	<b>17.65</b>	<b>252.45</b>
B	<b>Total Power Purchase at Kerala Periphery ((Sum(Vb to XIIIb))+XIV +XV+XVI)</b>	<b>1604.51</b>	<b>1580.00</b>	<b>1459.86</b>	<b>1281.22</b>	<b>1003.28</b>	<b>1285.72</b>	<b>1385.06</b>	<b>1575.77</b>	<b>1779.03</b>	<b>1634.96</b>	<b>1603.38</b>	<b>1853.77</b>	<b>18046.57</b>
C	<b>Total KSEBL Generation &amp; Power Purchase (A+B)</b>	<b>2238.09</b>	<b>2183.71</b>	<b>2024.28</b>	<b>2120.97</b>	<b>2040.06</b>	<b>2076.87</b>	<b>2228.71</b>	<b>2101.89</b>	<b>2138.36</b>	<b>1993.81</b>	<b>2032.54</b>	<b>2460.41</b>	<b>25639.69</b>
D	<b>Substation Auxiliary consumption</b>	<b>1.44</b>	<b>1.33</b>	<b>1.21</b>	<b>1.21</b>	<b>1.23</b>	<b>1.29</b>	<b>1.32</b>	<b>1.36</b>	<b>1.44</b>	<b>1.41</b>	<b>1.32</b>	<b>1.55</b>	<b>16.11</b>
E	<b>Net Generation and Power Purchase (C-D)</b>	<b>2236.65</b>	<b>2182.38</b>	<b>2023.07</b>	<b>2119.76</b>	<b>2038.83</b>	<b>2075.58</b>	<b>2227.39</b>	<b>2100.53</b>	<b>2136.92</b>	<b>1992.40</b>	<b>2031.22</b>	<b>2458.86</b>	<b>25623.58</b>
F	Energy injected by private developers at Generator end for sale outside the state through open access	3.73	3.91	3.60	3.27	3.23	3.55	3.42	3.32	3.18	3.19	0.95	3.82	39.17
G	Energy purchased by consumers through open access at Kerala periphery	15.16	12.69	30.61	27.01	25.29	14.54	3.24	17.23	16.14	18.26	15.46	20.95	216.60
	<b>Out side State Sale by KSEBL</b>													
a	DAM( Kerala Periphery)-IEX	-6.52	-29.08	-113.56	-189.72	-189.26	-22.33	-91.97	-0.91	-0.13	-4.88	-0.77	-0.38	-649.48
b	DAM( Kerala Periphery)-PXIL	0.00	0.00	-1.35	-2.01	-5.02	-1.37	0.00	0.00	0.00	0.00	0.00	0.00	-9.76
c	TAM ( Kerala Periphery)-IEX	0.00	-0.20	-0.46	0.00	0.00	0.00	-6.25	-0.05	0.00	0.00	0.00	0.00	-6.96
d	TAM ( Kerala Periphery)-PXIL	0.00	-2.95	-1.02	-0.20	-1.42	-0.20	-2.31	0.00	0.00	-6.32	0.00	0.00	-14.43
e	Sale through BSHPCCL	0	0	-7.61615	0	-34.61958	-15.23035	-17.63292	0	0	0	0	0	-75.10
f	Sale through CSPDCL	0	0	0	0	0	0	-32.98596	-36.0705	0	0	0	0	-69.06

Table 15 Contd..

Sl. No	Stations	04/18	05/18	06/18	07/18	08/18	09/18	10/18	11/18	12/18	01/19	02/19	03/19	TOTAL
<b>i</b>	<b>Total Sale outside the state(a+b)</b>	<b>-6.52</b>	<b>-32.23</b>	<b>-123.99</b>	<b>-191.93</b>	<b>-230.32</b>	<b>-39.14</b>	<b>-151.15</b>	<b>-37.03</b>	<b>-0.13</b>	<b>-11.20</b>	<b>-0.77</b>	<b>-0.38</b>	<b>-824.78</b>
a	SWAP return through GMRETL	0.00	0.00	-19.12	-41.23	-39.73	-39.03	0.00	0.00	0.00	0.00	0.00	0.00	-139.12
b	SWAP return through NVVN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-11.42	-5.90	0.00	0.00	0.00	-17.32
c	SWAP return through TATA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-7.61	-3.97	0.00	0.00	0.00	-11.58
<b>ii</b>	<b>Total SWAP return</b>	<b>0.00</b>	<b>0.00</b>	<b>-19.12</b>	<b>-41.23</b>	<b>-39.73</b>	<b>-39.03</b>	<b>0.00</b>	<b>-19.03</b>	<b>-9.86</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>-168.02</b>
H	Energy sale outside the State by KSEBL and Swap return(i+ii)	-6.52	-32.23	-143.12	-233.17	-270.05	-78.17	-151.15	-56.06	-9.99	-11.20	-0.77	-0.38	-992.80
I	Energy injected by private developers at Kerala periphery for sale outside state through open access	-3.56	-3.73	-3.44	-3.12	-3.08	-3.39	-3.27	-3.17	-3.03	-3.04	-0.91	-3.65	-37.40
<b>J</b>	<b>Net energy available for sale inside the state (E+F+G+H+I)</b>	<b>2245.46</b>	<b>2163.02</b>	<b>1910.72</b>	<b>1913.75</b>	<b>1794.22</b>	<b>2012.11</b>	<b>2079.64</b>	<b>2061.85</b>	<b>2143.21</b>	<b>1999.61</b>	<b>2045.96</b>	<b>2479.60</b>	<b>24849.14</b>
K	Energy purchased by consumers through open access at consumer end	14.3651625	12.0447125	29.0073825	25.606145	24.0321325	13.824305	3.075685	16.34134	15.287105	17.3268875	14.658995	19.87094	205.44
L	Energy sale inside the state by KSEBL	1938.30	1854.13	1708.88	1618.67	1573.64	1738.24	1847.22	1797.29	1827.85	1797.09	1816.31	2019.14	21536.77
M	Energy given to RGCCPP for meeting auxiliary consumption during non operational period													<b>8.04</b>
N	Energy sale with in the state including open access and aux power to RGCCPP . (K+L+M)	<b>1952.66</b>	<b>1866.17</b>	<b>1737.89</b>	<b>1644.28</b>	<b>1597.67</b>	<b>1752.06</b>	<b>1850.30</b>	<b>1813.63</b>	<b>1843.14</b>	<b>1814.42</b>	<b>1830.97</b>	<b>2039.01</b>	<b>21750.25</b>
O	<b>Loss in KSEBL system (J-N)</b>	<b>292.80</b>	<b>296.85</b>	<b>172.83</b>	<b>269.47</b>	<b>196.55</b>	<b>260.05</b>	<b>229.34</b>	<b>248.22</b>	<b>300.07</b>	<b>185.18</b>	<b>214.99</b>	<b>440.59</b>	<b>3098.90</b>
P	<b>% Loss within Kerala</b>	<b>13.04%</b>	<b>13.72%</b>	<b>9.05%</b>	<b>14.08%</b>	<b>10.95%</b>	<b>12.92%</b>	<b>11.03%</b>	<b>12.04%</b>	<b>14.00%</b>	<b>9.26%</b>	<b>10.51%</b>	<b>17.77%</b>	<b>12.47%</b>

TABLE 16

## STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS &amp; SYSTEM LOSSES FOR 2019-20

(in Million Units)														
Sl. No	Stations	04/19	05/19	06/19	07/19	08/19	09/19	10/19	11/19	12/19	01/20	02/20	03/20	TOTAL
	<b>KSEBL Internal Generation</b>													
1	Idamalar	30.37	28.62	10.42	1.57	13.90	29.14	13.30	22.79	13.90	32.16	34.58	29.79	260.54
2	Idukki	284.02	351.10	202.49	99.39	72.83	100.90	85.29	80.60	77.71	168.07	138.98	168.47	1829.85
3	Kakkad	17.62	21.41	11.24	7.16	13.01	17.28	16.94	15.47	14.08	15.25	12.82	13.95	176.23
4	Kallada	5.36	3.99	2.63	0.77	1.13	0.52	0.44	2.66	4.71	2.52	4.56	4.13	33.43
5	Kuttiyadi+KES+KAES	47.90	38.88	17.18	61.05	51.52	83.19	70.75	55.03	45.10	39.82	42.12	40.54	593.08
6	KuttiyadiTail Race	0.36	0.20	0.28	0.54	0.78	1.03	0.68	0.43	0.51	0.46	0.41	0.37	6.06
7	Lower Meenmutty	0.04	0.02	0.27	0.43	0.84	1.05	1.12	0.77	0.22	0.08	0.02	0.01	4.87
8	Lower Periyar	19.50	16.37	13.54	39.10	104.89	43.46	75.75	52.47	25.49	7.94	8.93	19.71	427.14
9	Maduppatty	0.72	0.67	0.00	0.00	0.00	0.00	0.00	0.37	0.30	0.03	0.70	0.64	3.44
10	Malampuzha	0.00	0.00	0.00	0.00	0.00	0.33	0.19	0.44	1.02	1.37	0.78	0.00	4.14
11	Malankara	3.03	3.92	3.17	2.53	2.04	4.09	2.08	1.60	1.27	2.38	1.90	2.31	30.32
12	Neriamangalam+NES	19.51	16.17	11.15	20.15	46.59	52.26	52.44	38.30	22.00	6.05	5.87	19.41	309.90
13	Pallivasal	12.71	10.91	10.33	10.64	11.43	12.61	13.27	12.70	13.32	10.71	11.92	11.58	142.12
14	Panniyar	13.29	10.41	2.67	1.52	17.78	22.05	20.24	18.83	12.52	0.00	3.84	16.33	139.48
15	Peppara	0.39	0.38	0.11	0.30	0.27	1.55	1.07	0.00	0.00	0.51	0.59	0.58	5.75
16	Poringalkuthu +PLBE	9.92	2.61	0.34	24.68	32.31	31.23	31.97	26.10	13.81	12.99	11.11	12.41	209.47
17	Sabarigiri	128.96	156.23	70.05	24.22	45.71	92.84	104.23	103.27	103.96	102.03	83.80	83.80	1099.10
18	Sengualm	11.40	13.57	9.83	10.33	16.33	16.44	16.59	15.18	13.66	9.48	9.87	8.13	150.82
19	Vellathhoval SHEP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	Sholayar	18.82	17.12	4.11	0.73	9.58	25.10	24.53	17.52	23.59	25.56	23.45	26.19	216.30
21	Chembukadvu - I	0.00	0.00	0.15	1.00	0.58	0.77	0.50	0.22	0.01	0.00	0.00	0.00	3.23
22	Chembukadavu- II	0.00	0.00	0.17	1.55	0.32	0.85	0.76	0.33	0.02	0.00	0.00	0.00	3.99
23	Urumi - I	0.00	0.00	0.55	1.70	1.65	1.65	1.03	0.49	0.04	0.00	0.00	0.00	7.11
24	Urumi - II	0.00	0.00	0.33	1.04	0.91	0.94	0.66	0.34	0.03	0.00	0.00	0.00	4.24
25	Poozhithode	0.00	0.00	0.64	2.29	0.57	1.51	1.01	0.44	0.18	0.06	0.00	0.00	6.70
26	Ranni-Perinadu	0.60	0.75	0.54	0.46	0.69	0.82	0.93	0.75	0.48	0.48	0.51	0.34	7.35
27	Peechi	0.15	0.00	0.00	0.00	0.08	0.47	0.29	0.18	0.42	0.30	0.21	0.31	2.42
28	Vilangadu	0.00	0.00	0.27	3.63	3.80	3.66	2.07	1.00	0.24	0.04	0.00	0.00	14.71
29	Chimmony	0.39	0.17	0.00	0.00	0.00	0.48	0.64	0.47	1.19	0.77	1.28	1.04	6.43
30	Addyanpara	0.00	0.01	0.46	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.24
31	Barapole	0.00	0.00	0.06	1.68	2.04	6.65	6.29	2.56	1.27	0.40	0.00	0.00	20.95
32	Perunthenaruvu	0.03	0.03	1.06	1.27	2.04	2.65	2.78	1.92	0.34	0.14	0.01	0.00	12.28
33	Kakkayam SHEP	0.83	0.77	0.14	0.96	0.36	0.90	1.06	0.90	0.56	0.50	0.57	0.59	8.12
34	Poringal screw generation	0.01	0.01	0.00	0.01	0.01	0.01	0.00	0.00	0.03	0.00	0.00	0.00	0.07
<b>Ia</b>	<b>KSEBL Hydro Gross</b>	<b>625.93</b>	<b>694.32</b>	<b>374.19</b>	<b>322.44</b>	<b>453.99</b>	<b>556.43</b>	<b>548.90</b>	<b>474.12</b>	<b>391.99</b>	<b>440.07</b>	<b>398.82</b>	<b>460.63</b>	<b>5741.83</b>
	Auxiliary Consumption (Hydro Generating station )	3.07	3.17	2.28	2.21	2.70	3.19	3.47	2.90	2.59	2.68	6.45	2.45	37.16
<b>Ib</b>	<b>KSEBL Net Hydro</b>	<b>622.86</b>	<b>691.15</b>	<b>371.91</b>	<b>320.23</b>	<b>451.30</b>	<b>553.24</b>	<b>545.43</b>	<b>471.22</b>	<b>389.40</b>	<b>437.39</b>	<b>392.37</b>	<b>458.18</b>	<b>5704.67</b>
<b>IIa</b>	<b>KSEBL Wind</b>													
35	Kanjikode	0.07	0.20	0.15	0.13	0.14	0.09	0.04	0.07	0.26	0.11	0.11	0.04	1.42
	Auxiliary consumption wind													0.00
<b>IIb</b>	<b>Net Generation wind (KSEBL)</b>	<b>0.07</b>	<b>0.20</b>	<b>0.15</b>	<b>0.13</b>	<b>0.14</b>	<b>0.09</b>	<b>0.04</b>	<b>0.07</b>	<b>0.26</b>	<b>0.11</b>	<b>0.11</b>	<b>0.04</b>	<b>1.42</b>
<b>IIIa</b>	<b>KSEBL Solar</b>													
36	Total solar	3.06	2.01	1.48	1.04	1.53	1.27	2.37	2.54	2.01	2.11	2.47	4.07	25.95

Table 16 contd..

Sl. No	Stations	04/19	05/19	06/19	07/19	08/19	09/19	10/19	11/19	12/19	01/20	02/20	03/20	TOTAL
	Auxiliary Consumption Solar													
<b>IIIb</b>	<b>KSEBL Net Solar</b>	<b>3.06</b>	<b>2.01</b>	<b>1.48</b>	<b>1.04</b>	<b>1.53</b>	<b>1.27</b>	<b>2.37</b>	<b>2.54</b>	<b>2.01</b>	<b>2.11</b>	<b>2.47</b>	<b>4.07</b>	25.95
<b>IV a</b>	<b>KSEBL Thermal</b>													
37	BDPP,Brahmapuram	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
38	KDPP, Nallalam	5.47	6.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.93
	Aux. cons.- BDPP (Thermal)	0.05	0.05	0.05	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.62
	Aux cons.-KDPP (Thermal)	0.19	0.22	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	1.03
<b>IVb</b>	<b>KSEBL Net Thermal Generation</b>	<b>5.23</b>	<b>6.18</b>	<b>-0.11</b>	<b>-0.03</b>	<b>-0.11</b>	<b>-0.11</b>	<b>-0.11</b>	<b>-0.11</b>	<b>-0.11</b>	<b>-0.11</b>	<b>-0.12</b>	<b>-0.12</b>	<b>10.38</b>
<b>A</b>	<b>Net Generation- KSEBL (Ib+IIb+IIIb+IVb)</b>	<b>631.21</b>	<b>699.54</b>	<b>373.42</b>	<b>321.37</b>	<b>452.85</b>	<b>554.49</b>	<b>547.73</b>	<b>473.72</b>	<b>391.56</b>	<b>439.50</b>	<b>394.83</b>	<b>462.18</b>	<b>5742.41</b>
<b>B</b>	<b>Power Purchase</b>													
<b>Va</b>	<b>Central Generating Stations at Kerala periphery ( KSEB end)</b>													
1	RSTPS ( Unit 1 to 6)	150.29	157.20	157.91	148.86	147.90	137.49	139.69	126.03	122.67	150.24	140.13	146.19	1724.62
2	RSTPS ( Unit 7)	39.98	38.04	44.04	40.79	39.31	36.19	30.78	32.14	41.20	41.12	38.57	5.35	427.51
3	TALCHER STAGE II	259.19	250.90	231.49	202.99	136.91	132.97	192.61	227.33	275.62	277.93	263.10	274.96	2726.00
4	Simhadri TPS Stage II	51.11	61.95	65.12	51.57	37.70	42.17	12.66	30.41	50.65	50.59	45.79	44.19	543.91
5	Kudgi STPS	50.85	34.81	18.18	17.88	11.24	7.09	3.23	0.36	9.87	16.41	49.85	53.91	273.68
6	NLC II STAGE 1	38.49	39.07	39.03	37.67	29.40	33.32	39.29	35.16	33.25	38.47	38.25	39.45	440.85
7	NLC II STAGE 2	56.26	48.26	35.41	42.90	47.79	42.05	50.61	53.21	54.75	58.11	54.48	54.14	597.97
8	NLC I EXPANSION	43.01	41.57	26.84	44.69	42.80	43.28	43.24	40.29	44.68	44.35	42.20	44.68	501.64
9	NLC II EXPANSION	21.52	23.70	16.96	15.94	14.35	20.38	30.10	17.84	21.97	11.72	25.71	13.55	233.74
10	NTPL	23.92	23.49	26.13	24.21	39.80	31.50	24.79	30.35	47.18	46.77	43.25	38.52	399.90
11	VALLUR STPS	31.69	29.79	30.58	20.59	9.95	11.06	12.75	19.23	17.71	22.58	21.32	19.16	246.41
12	MAPS	3.75	6.03	6.36	6.56	6.84	6.56	6.19	6.13	6.17	5.31	6.56	6.65	73.12
13	KAPS I & II	23.24	25.65	18.23	18.98	18.71	21.61	24.01	24.54	25.58	25.47	23.82	22.72	272.57
14	KAPS III& IV	22.50	23.44	22.45	23.71	18.73	22.95	23.63	14.37	23.80	18.54	14.73	23.71	252.57
15	KKNPP	0.00	34.00	78.14	94.21	94.86	92.15	87.30	91.08	81.34	83.49	66.36	87.41	890.35
16	KKNPP unit 2	50.24	49.73	47.68	50.50	50.38	49.76	44.53	50.19	22.93	0.00	0.00	44.09	460.05
17	NNTPP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	4.69	7.05	5.26	17.12
<b>Vb</b>	<b>TOTAL CGS</b>	<b>866.04</b>	<b>887.62</b>	<b>864.54</b>	<b>842.06</b>	<b>746.66</b>	<b>730.54</b>	<b>765.42</b>	<b>798.67</b>	<b>879.49</b>	<b>895.81</b>	<b>881.20</b>	<b>923.94</b>	<b>10082.00</b>
<b>VI.a</b>	<b>Thermal IPPs/Co-Gen</b>													
1	RGCCPP actual Gen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	BSES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	MPS Steel(Co-Gen Plant)Net injection to Grid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	PCBL (Co-Gen Plant)Net injection to grid	0.13	0.38	0.23	0.15	0.23	0.35	0.00	0.08	0.23	0.34	0.60	0.47	3.18
<b>VI.b</b>	<b>Thermal IPPs /Co-Gen total</b>	<b>0.13</b>	<b>0.38</b>	<b>0.23</b>	<b>0.15</b>	<b>0.23</b>	<b>0.35</b>	<b>0.00</b>	<b>0.08</b>	<b>0.23</b>	<b>0.34</b>	<b>0.60</b>	<b>0.47</b>	<b>3.18</b>
<b>VII.a</b>	<b>IPPs-Small hydro(net)</b>													
1	Ullunkal (EDCL)	1.44	1.81	1.04	1.22	2.33	2.32	2.15	1.65	1.16	1.08	0.87	1.02	18.10
2	Irukkulam(VIYYAT)	0.00	0.00	0.02	2.50	3.82	3.49	3.47	2.68	1.24	0.55	0.23	0.24	18.25
3	Kaarikayam (AHPL)	2.57	3.21	2.24	2.61	5.27	4.81	4.55	3.19	2.18	2.10	1.73	1.90	36.37
4	Meenavallam (PSHCL)	0.05	0.06	0.25	1.25	1.25	1.32	1.18	0.84	0.30	0.15	0.09	0.07	6.80
5	Pathankayam (MREPPL)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Mankulam GP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	Kallar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>VIIb</b>	<b>IPPs-Small hydro Total</b>	<b>4.06</b>	<b>5.08</b>	<b>3.56</b>	<b>7.59</b>	<b>12.68</b>	<b>11.94</b>	<b>11.35</b>	<b>8.35</b>	<b>4.89</b>	<b>3.87</b>	<b>2.92</b>	<b>3.23</b>	<b>79.51</b>
<b>VIII.a</b>	<b>Captive Power plants</b>													
1	Maniyar IPP hydel net injection	0.24	0.16	0.16	2.14	0.56	3.90	4.09	2.83	0.22	0.09	0.05	-2.53	11.92

Table 16 contd..

Sl. No	Stations	04/19	05/19	06/19	07/19	08/19	09/19	10/19	11/19	12/19	01/20	02/20	03/20	TOTAL
2	Kuthungal IPP hydel net injection	0.65	0.34	0.11	0.12	2.19	3.40	1.66	1.87	-0.54	-3.05	-0.67	0.30	6.38
<b>VIIIb</b>	<b>CPP -Total</b>	<b>0.89</b>	<b>0.50</b>	<b>0.27</b>	<b>2.27</b>	<b>2.76</b>	<b>7.29</b>	<b>5.75</b>	<b>4.70</b>	<b>-0.31</b>	<b>-2.96</b>	<b>-0.62</b>	<b>-2.23</b>	<b>18.30</b>
<b>IX.a</b>	<b>Wind IPPs/prosumers</b>													
1	Ramakalmedu, Wind	0.35	1.67	3.39	3.98	2.62	2.65	0.93	1.49	2.15	1.62	1.69	0.55	23.10
2	Agali, Wind	0.82	3.53	5.19	6.27	4.30	3.73	0.78	0.49	0.56	0.26	0.39	0.37	26.70
3	Koundikkal	0.39	1.31	1.90	2.22	1.66	1.28	0.41	0.36	0.47	0.22	0.33	0.20	10.75
4	Ahalya Wind	1.03	2.69	2.44	2.24	2.39	1.60	0.80	1.05	1.78	1.28	1.23	0.70	19.23
5	INOX	2.13	4.86	4.74	4.25	4.51	3.05	1.48	2.18	2.86	2.89	2.87	1.39	37.21
6	Kosamattam	0.01	0.12	0.26	0.34	0.23	0.17	0.04	0.07	0.11	0.10	0.11	0.03	1.61
7	Manorama net injection	0.00	1.59	1.47	1.57	1.35	-0.08	-0.83	-0.48	0.51	-0.14	-0.05	-0.75	4.15
<b>IX.b</b>	<b>Wind IPPs Total</b>	<b>4.74</b>	<b>15.78</b>	<b>19.39</b>	<b>20.87</b>	<b>17.05</b>	<b>12.41</b>	<b>3.63</b>	<b>5.17</b>	<b>8.44</b>	<b>6.23</b>	<b>6.57</b>	<b>2.48</b>	<b>122.75</b>
<b>Xa</b>	<b>Solar IPPs /Prosumer</b>													
1	Anert, Kuzhalmandam	0.21	0.25	0.21	0.19	0.14	0.20	0.22	0.17	0.21	0.25	0.27	0.28	2.59
2	Ambalathara -Solar Park IPP	7.54	7.17	5.51	3.83	4.22	5.58	6.15	6.20	4.60	7.02	7.08	8.26	73.16
3	CIAL net injection-solar prosumer	0.0714	-0.047775	-0.41	-0.47	-0.15	-0.95	0.15315	0.03	0.15	0.53	0.5187	0.96	0.3683
4	Grid connected consumers net injection	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	8.37
<b>Xb</b>	<b>Solar IPPs Total</b>	<b>8.52</b>	<b>8.07</b>	<b>6.01</b>	<b>4.25</b>	<b>4.90</b>	<b>5.52</b>	<b>7.22</b>	<b>7.10</b>	<b>5.65</b>	<b>8.49</b>	<b>8.57</b>	<b>10.20</b>	<b>84.49</b>
	<b>Total IPP, CPP and Co-gen (Vib+VIIb+VIIIb+IXb+Xb)</b>	<b>18.34</b>	<b>29.82</b>	<b>29.45</b>	<b>35.12</b>	<b>37.62</b>	<b>37.51</b>	<b>27.94</b>	<b>25.39</b>	<b>18.89</b>	<b>15.97</b>	<b>18.03</b>	<b>14.15</b>	<b>308.23</b>
	<b>Traders</b>													
<b>XI.a</b>	<b>LTOA contracts</b>													
1	MAITHON (MPL)	90.72	90.44	71.88	46.22	77.70	92.89	91.92	90.40	96.67	100.11	89.51	69.63	1008.09
2	MAITHON (MPL)	90.72	90.44	71.88	46.22	77.70	92.89	91.92	90.40	96.67	100.11	89.51	69.63	1008.09
3	DVC-MEJIA	55.10	66.13	59.22	31.62	31.85	35.99	23.15	49.07	39.84	64.93	62.65	55.41	574.94
4	DVC RAGHUNATHPUR	19.97	14.64	20.75	24.13	19.80	17.40	12.96	22.74	25.49	24.71	28.00	27.62	258.20
5	Jindal Power Limited ((Bid I)	111.13	120.00	117.40	119.45	109.60	109.21	77.48	115.96	125.04	124.78	116.14	122.18	1368.37
6	Jindal Power Limited ((Bid II)	83.40	90.21	88.17	89.55	82.20	81.90	58.09	86.98	93.75	93.58	87.05	91.63	1026.50
7	Jhabua Power Limited ((Bid I)	57.37	61.37	63.03	68.59	45.57	18.55	77.35	71.77	74.48	78.02	73.12	78.10	767.32
8	Jhabua Power Limited ((Bid II)	49.88	53.36	54.81	59.65	39.62	16.13	67.28	62.41	64.77	67.85	63.58	67.91	667.25
9	BALCO	58.78	66.39	64.95	64.66	53.95	64.97	54.16	59.12	62.08	62.94	58.45	62.38	732.84
10	JITPL	60.05	61.54	60.08	62.03	60.97	59.66	61.56	59.81	61.53	61.14	59.80	57.34	725.50
<b>XI.b</b>	<b>Sub Total LTOA</b>	<b>677.12</b>	<b>714.53</b>	<b>672.14</b>	<b>612.12</b>	<b>598.97</b>	<b>589.59</b>	<b>615.87</b>	<b>708.65</b>	<b>740.30</b>	<b>778.15</b>	<b>727.82</b>	<b>701.85</b>	<b>8137.11</b>
<b>XII.a</b>	<b>Short Term Contracts</b>													
<b>XII.b</b>	<b>Sub Total STO A</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Power Exchanges</b>													
<b>XIII.a</b>	<b>TAM</b>													
1	IEX	0.00	7.65	0.00	0.33	0.00	0.20	0.00	0.00	0.34	4.16	0.21	1.85	14.74
2	PXIL	33.02	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.27	0.00	0.00	0.47	33.85
<b>XIII.b</b>	<b>TAM Sub Total</b>	<b>33.02</b>	<b>7.65</b>	<b>0.00</b>	<b>0.33</b>	<b>0.00</b>	<b>0.20</b>	<b>0.00</b>	<b>0.10</b>	<b>0.61</b>	<b>4.16</b>	<b>0.21</b>	<b>2.32</b>	<b>48.59</b>
<b>XIV.a</b>	<b>DAM</b>													
1	IEX	61.40	131.31	185.54	300.37	89.72	11.53	8.96	4.63	73.81	34.12	10.61	1.92	913.94
2	PXIL	27.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.71
<b>XIV.b</b>	<b>DAM Sub Total</b>	<b>89.12</b>	<b>131.31</b>	<b>185.54</b>	<b>300.37</b>	<b>89.72</b>	<b>11.53</b>	<b>8.96</b>	<b>4.63</b>	<b>73.81</b>	<b>34.12</b>	<b>10.61</b>	<b>1.92</b>	<b>941.65</b>
<b>XV</b>	<b>KPTCL-Overarching</b>													<b>0.00</b>
<b>XVI</b>	<b>Swap-inwards</b>	<b>69.92965</b>	<b>14.36952</b>	<b>13.9422</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>76.59352</b>	<b>177.83168</b>	<b>352.67</b>
<b>XVII</b>	<b>Deviation Settlement Mechanism (Net)</b>	<b>26.79</b>	<b>39.44</b>	<b>41.89</b>	<b>73.51</b>	<b>54.05</b>	<b>35.35</b>	<b>37.39</b>	<b>37.27</b>	<b>36.75</b>	<b>45.30</b>	<b>44.56</b>	<b>41.20</b>	<b>513.50</b>
<b>B</b>	<b>Total Power Purchase at Kerala Periphery ((Sum(Vb to XIVb) +XV +XVI+XVII))</b>	<b>1780.35</b>	<b>1824.73</b>	<b>1807.52</b>	<b>1863.52</b>	<b>1527.02</b>	<b>1404.72</b>	<b>1455.57</b>	<b>1574.71</b>	<b>1749.86</b>	<b>1773.51</b>	<b>1759.03</b>	<b>1863.21</b>	<b>20383.76</b>
<b>C</b>	<b>Total KSEBL Generation &amp; Power Purchase (A+B)</b>	<b>2411.57</b>	<b>2524.27</b>	<b>2180.94</b>	<b>2184.89</b>	<b>1979.87</b>	<b>1959.21</b>	<b>2003.31</b>	<b>2048.44</b>	<b>2141.42</b>	<b>2213.01</b>	<b>2153.86</b>	<b>2325.39</b>	<b>26126.17</b>

Table 16 contd..

Sl. No	Stations	04/19	05/19	06/19	07/19	08/19	09/19	10/19	11/19	12/19	01/20	02/20	03/20	TOTAL
<b>D</b>	<b>Substation Auxiliary consumption</b>	<b>1.688293561</b>	<b>1.737316593</b>	<b>1.55647354</b>	<b>1.551772706</b>	<b>1.415377708</b>	<b>1.449407382</b>	<b>1.575042837</b>	<b>1.608772295</b>	<b>1.602953726</b>	<b>1.748020273</b>	<b>1.805123217</b>	<b>1.8641457</b>	<b>19.60269954</b>
<b>E</b>	<b>Net Generation and Power Purchase (C-D)</b>	<b>2409.88</b>	<b>2522.53</b>	<b>2179.38</b>	<b>2183.34</b>	<b>1978.45</b>	<b>1957.76</b>	<b>2001.73</b>	<b>2046.83</b>	<b>2139.82</b>	<b>2211.26</b>	<b>2152.05</b>	<b>2323.53</b>	<b>26106.57</b>
<b>F</b>	Energy injected by private developers at Generator end for sale outside the state through open access	3.90	3.32	2.68	3.97	4.02	3.77	3.91	1.58	1.12	3.53	3.01	2.70	<b>37.50</b>
<b>G</b>	Energy purchased by consumers through open access at Kerala periphery	22.44	31.50	33.48	37.29	34.89	43.17	43.63	35.92	25.88	27.74	31.91	38.02	405.86
	<b>Out side State Sale by KSEBL</b>													
a	DAM( Kerala Periphery)-IEX	-0.06	0.00	-0.07	-8.40	-31.97	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	-40.52
b	DAM( Kerala Periphery)-PXIL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
c	TAM ( Kerala Periphery)-IEX	0.00	0.00	0.00	0.00	-2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.08
d	TAM ( Kerala Periphery)-PXIL	0.00	0.00	0.00	-0.17	-13.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-13.35
e	Sale through BSHPCCL													0.00
f	Sale through CSPDCL													0.00
<b>i</b>	<b>Total Sale outside the state(a+b)</b>	<b>-0.06</b>	<b>0.00</b>	<b>-0.07</b>	<b>-8.57</b>	<b>-47.23</b>	<b>0.00</b>	<b>-0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>-55.95</b>
a	SWAP return through MITTAL	0.00	0.00	0.00	-12.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-12.45
b	SWAP Return through KEIPL to Hariyana	0.00	0.00	0.00	-4.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4.69
c	SWAP Return through APPCPL	0.00	0.00	0.00	-49.40	-48.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-97.86
d	SWAP return through MITTAL	0.00	0.00	0.00	-13.43	-13.38	-12.91	0.00	0.00	0.00	0.00	0.00	0.00	-39.72
e	SWAP return through GMRETL	0.00	0.00	-39.74	-37.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-77.21
<b>ii</b>	<b>Total SWAP return</b>	<b>0.00</b>	<b>0.00</b>	<b>-39.74</b>	<b>-117.44</b>	<b>-61.84</b>	<b>-12.91</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>-231.93</b>
<b>H</b>	Energy sale outside the State by KSEBL and Swap return(i+ii)	-0.06	0.00	-39.82	-126.01	-109.07	-12.91	-0.01	0.00	0.00	0.00	0.00	0.00	-287.88
<b>I</b>	Energy injected by private developers at Kerala periphery for sale outside state through open access	-3.73	-3.17	-2.56	-3.81	-3.86	-3.62	-3.75	-1.52	-1.08	-3.39	-2.89	-2.59	-35.96
<b>J</b>	<b>Net energy available for sale inside the state (E+F+G+H+I)</b>	<b>2432.42</b>	<b>2554.18</b>	<b>2173.16</b>	<b>2094.78</b>	<b>1904.44</b>	<b>1988.17</b>	<b>2045.50</b>	<b>2082.81</b>	<b>2165.74</b>	<b>2239.14</b>	<b>2184.08</b>	<b>2361.65</b>	<b>26226.08</b>
<b>K</b>	Energy purchased by consumers through open access at consumer end	21.28	29.86	31.73	35.53	33.31	41.17	41.62	34.29	24.68	26.43	30.41	36.21	386.52
<b>L</b>	Energy sale inside the state by KSEBL	2099.84	2118.10	1955.62	1815.15	1716.37	1715.93	1760.20	1802.51	1904.92	1955.73	1992.28	1824.27	22660.91
<b>M</b>	Energy given to RGCCPP for meeting auxiliary consumption during non operational period	0.83	0.91	1.76	1.03	0.93	0.84	0.70	0.71	0.76	1.04	1.16	0.79	11.47
<b>N</b>	<b>Energy sale within the state including open access and aux power to RGCCPP . (K+L+M)</b>	<b>2121.94</b>	<b>2148.88</b>	<b>1989.12</b>	<b>1851.70</b>	<b>1750.61</b>	<b>1757.94</b>	<b>1802.53</b>	<b>1837.50</b>	<b>1930.36</b>	<b>1983.20</b>	<b>2023.84</b>	<b>1861.27</b>	<b>23058.89</b>
<b>O</b>	<b>Loss in KSEBL system (J-N)</b>	<b>310.48</b>	<b>405.31</b>	<b>184.04</b>	<b>243.08</b>	<b>153.83</b>	<b>230.23</b>	<b>242.98</b>	<b>245.30</b>	<b>235.38</b>	<b>255.94</b>	<b>160.24</b>	<b>500.38</b>	<b>3167.19</b>
<b>P</b>	% Loss within Kerala	12.76%	15.87%	8.47%	11.60%	8.08%	11.58%	11.88%	11.78%	10.87%	11.43%	7.34%	21.19%	12.08%

TABLE 17

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

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

Table 17 contd..



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

Table 17 contd..

Sl. No	Stations	04/20	05/20	06/20	07/20	08/20	09/20	10/20	11/20	12/20	01/21	02/21	03/21	TOTAL
<b>Via</b>	<b>Thermal IPPs/Co-Gen</b>													
1	RGCCPnet Gen	-0.66	-0.70	-0.66	-0.66	-0.72	-0.60	-0.66	-0.66	-0.31	-0.74	-0.77	99.66	92.53
2	BSES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	MPS Steel(Co-Gen Plant)Net injection to Grid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	PCBL (Co-Gen Plant)Net injection to grid	0.43	1.53	2.68	0.60	0.43	0.24	0.17	0.17	0.29	0.28	-0.33	0.20	6.70
<b>VI.b</b>	<b>Thermal IPPs /Co-Gen total</b>	<b>-0.23</b>	<b>0.83</b>	<b>2.01</b>	<b>-0.05</b>	<b>-0.29</b>	<b>-0.36</b>	<b>-0.48</b>	<b>-0.48</b>	<b>-0.01</b>	<b>-0.47</b>	<b>-1.10</b>	<b>99.86</b>	<b>99.24</b>
<b>VII.a</b>	<b>IPPs-Small hydro(net)</b>													
1	Ullunkal (EDCL)	1.31	2.18	1.11	1.67	0.59	1.51	2.26	1.39	1.18	1.12	1.14	0.00	15.45
2	Iruttukanam(VIYYAT)	0.30	0.47	1.90	3.60	3.78	3.80	3.68	2.16	1.13	0.89	0.31	0.17	22.17
3	Kaarikkayam (AHPL)	0.00	3.80	2.51	3.98	4.68	4.53	5.04	2.84	2.34	2.17	2.15	2.32	36.35
4	Meenvallam (PSHCL)	0.07	0.07	0.27	0.56	1.25	1.57	1.39	0.56	0.25	0.17	0.09	0.05	6.29
5	Pathankayam (MREPPL)	0.00	0.00	0.00	0.00	4.23	4.45	2.43	0.50	0.20	0.39	0.00	0.00	12.21
6	Mankulam GP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	Kallar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Deviyar micro	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.02
<b>VII.b</b>	<b>IPPs-Small hydro Total</b>	<b>1.68</b>	<b>6.51</b>	<b>5.78</b>	<b>9.80</b>	<b>14.53</b>	<b>15.86</b>	<b>14.80</b>	<b>7.45</b>	<b>5.10</b>	<b>4.75</b>	<b>3.68</b>	<b>2.56</b>	<b>92.50</b>
<b>VIII.a</b>	<b>Captive Power plants</b>													
1	Maniyar IPP hydel net	1.49	0.41	0.22	1.40	1.08	1.53	0.38	-1.60	-3.34	-2.26	-2.52	-1.62	-4.81
2	Kuthungal IPP hydel net	6.62	4.92	0.37	0.22	5.13	4.55	2.91	3.30	0.04	0.81	-2.00	2.10	28.98
<b>VIII.b</b>	<b>CPP -Total</b>	<b>8.11</b>	<b>5.33</b>	<b>0.60</b>	<b>1.62</b>	<b>6.21</b>	<b>6.08</b>	<b>3.30</b>	<b>1.70</b>	<b>-3.29</b>	<b>-1.45</b>	<b>-4.51</b>	<b>0.48</b>	<b>24.17</b>
<b>IX.a</b>	<b>Wind IPPs/Prosumers</b>													
1	Ramakalmedu, Wind	0.45	1.19	4.10	3.51	1.17	2.28	2.03	1.06	1.11	1.07	0.91	0.67	19.53
2	Agali, Wind	0.70	2.27	4.99	6.83	1.57	3.95	3.94	0.46	0.36	0.58	0.24	0.41	26.31
3	Koundikkal	0.39	0.79	1.77	1.86	0.46	1.30	1.31	0.32	0.27	0.33	0.16	0.26	9.20
4	Ahalya Wind	0.79	1.83	1.98	1.75	2.64	1.99	1.79	1.13	1.37	1.45	0.92	0.86	18.51
5	INOX	1.27	3.48	3.61	3.42	4.49	3.47	3.25	2.23	3.23	3.21	2.32	1.78	35.76
6	Kosamattam	0.01	0.01	0.26	0.23	0.11	0.12	0.19	0.06	0.06	0.06	0.06	0.04	1.22
7	Malayala Manorama net injection	0.00	0.99	1.74	0.82	1.79	1.17	0.77	-0.29	0.04	0.13	-0.29	-0.45	6.42
<b>IX.b</b>	<b>Wind IPPs Total</b>	<b>3.61</b>	<b>10.55</b>	<b>18.44</b>	<b>18.43</b>	<b>12.23</b>	<b>14.28</b>	<b>13.27</b>	<b>4.97</b>	<b>6.44</b>	<b>6.83</b>	<b>4.33</b>	<b>3.57</b>	<b>116.95</b>
<b>Xa</b>	<b>Solar IPPs /Prosumer</b>													
1	Anert, Kuzhalmandam	0.30	0.48	0.17	0.18	0.20	0.16	0.21	0.21	0.20	0.23	0.25	0.28	2.86
2	Ambalathara -Solar Park IPP	7.69	6.81	5.00	4.69	4.25	3.78	5.27	6.31	6.97	7.13	7.23	7.91	73.05
3	THDCIL Paivalika Solar Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.29	6.29	5.66	17.24
4	CIAL net injection-solar prosumer	2.21	1.80	0.94	1.02	1.11	0.48	1.23	1.33	1.23	1.38	1.69	1.61	16.04
5	HINDALCO net injection	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.23	0.39	0.42	0.42	0.49	2.29
6	Grid connected consumers net injection	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	22.67
<b>Xb</b>	<b>Solar IPPs Total</b>	<b>12.09</b>	<b>10.98</b>	<b>8.00</b>	<b>7.77</b>	<b>7.46</b>	<b>6.31</b>	<b>8.94</b>	<b>9.98</b>	<b>10.67</b>	<b>16.33</b>	<b>17.78</b>	<b>17.84</b>	<b>134.15</b>
	<b>Total IPP, CPP and Co-gen (Vib+VIIb+VIIIb+IXb+Xb)</b>	<b>25.26</b>	<b>34.20</b>	<b>34.83</b>	<b>37.57</b>	<b>40.14</b>	<b>42.17</b>	<b>39.82</b>	<b>23.62</b>	<b>18.91</b>	<b>26.00</b>	<b>20.17</b>	<b>124.32</b>	<b>467.00</b>

Table 17 contd..

Sl. No	Stations	04/20	05/20	06/20	07/20	08/20	09/20	10/20	11/20	12/20	01/21	02/21	03/21	TOTAL
	<b>TRADERS</b>													
<b>XI.a</b>	<b>LTOA contracts</b>													
1	MAITHON (MPL)	73.16	73.67	72.51	94.06	88.92	72.54	68.01	93.67	96.96	54.77	54.52	96.57	939.38
2	MAITHON (MPL)	73.16	73.67	72.34	94.06	88.92	72.54	68.00	93.67	96.96	54.77	54.52	96.57	939.19
3	DVC-MEJIA	50.54	47.34	47.34	61.72	56.93	50.63	51.81	54.57	63.30	48.31	31.63	63.19	627.31
4	DVC RAGHUNATHPUR	11.22	9.35	8.34	20.70	16.02	12.85	10.16	21.75	25.85	17.99	27.70	28.13	210.05
5	Jindal Power Limited ((Bid I)	118.30	124.75	119.10	122.93	92.59	112.42	104.48	130.76	133.87	117.11	113.92	125.92	1416.14
6	Jindal Power Limited ((Bid II)	88.74	93.56	89.33	92.17	69.56	84.34	78.34	98.05	100.39	87.85	85.48	94.49	1062.30
7	Jhabua Power Limited ((Bid I)	66.69	75.01	71.89	71.54	60.85	55.81	61.35	72.12	75.44	63.08	70.26	78.32	822.37
8	Jhabua Power Limited ((Bid II)	57.99	65.23	61.50	61.94	52.93	48.55	53.37	62.72	65.60	54.85	61.10	68.10	713.90
9	BALCO	56.99	62.60	58.88	60.58	54.29	53.37	45.05	57.14	61.24	64.14	55.40	58.67	688.33
10	JITPL	57.18	68.10	57.63	56.75	48.99	48.13	38.69	59.46	62.82	60.33	60.88	60.74	679.71
11	REMC Purchase from AMEKIL-L_SR_2021_01												4.62	4.62
12	REMC Purchase from AMEKIL-L_SR_2021_02												1.36	1.36
<b>XI.b</b>	<b>Sub Total LTOA</b>	<b>653.97</b>	<b>693.28</b>	<b>658.86</b>	<b>736.44</b>	<b>630.00</b>	<b>611.19</b>	<b>579.26</b>	<b>743.91</b>	<b>782.44</b>	<b>623.21</b>	<b>615.41</b>	<b>776.68</b>	<b>8104.65</b>
<b>XII.a</b>	<b>Short Term Contracts</b>													
<b>XII.b</b>	<b>Sub Total STO A</b>	<b>65.98245</b>	<b>101.03382</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>167.01627</b>
	<b>POWER EXCHANGES</b>													
<b>XIII.a</b>	<b>TAM</b>													
1	IEX	0.34	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49
2	PXIL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>XIII.b</b>	<b>TAM Sub Total</b>	<b>0.34</b>	<b>0.15</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.49</b>
<b>XIV.a</b>	<b>DAM</b>													
1	IEX	0.57	0.00	0.00	7.72	1.57	3.22	0.00	10.66	0.99	34.81	3.13	5.68	68.35
2	PXIL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.11
<b>XIV.b</b>	<b>DAM Sub Total</b>	<b>0.57</b>	<b>0.00</b>	<b>0.00</b>	<b>7.72</b>	<b>1.57</b>	<b>3.22</b>	<b>0.00</b>	<b>10.66</b>	<b>0.99</b>	<b>34.92</b>	<b>3.13</b>	<b>5.68</b>	<b>68.46</b>
<b>XV.a</b>	<b>RTM</b>													
1	IEX	0.00	0.00	0.01	1.60	0.25	0.26	0.37	0.79	1.43	12.70	5.17	3.17	25.76
2	PXIL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>XV.b</b>	<b>RTM Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>	<b>1.60</b>	<b>0.25</b>	<b>0.26</b>	<b>0.37</b>	<b>0.79</b>	<b>1.43</b>	<b>12.70</b>	<b>5.17</b>	<b>3.17</b>	<b>25.76</b>
<b>XVI</b>	<b>KPTCL-Overarching</b>													<b>0.00</b>
<b>XVII</b>	<b>Swap-inwards</b>	<b>56.4303</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>65.84504</b>	<b>122.28</b>
<b>XVIII</b>	<b>Deviation Settlement Mechanism (Net)</b>	<b>25.44</b>	<b>17.73</b>	<b>12.82</b>	<b>30.03</b>	<b>11.15</b>	<b>-3.12</b>	<b>-5.11</b>	<b>10.64</b>	<b>23.13</b>	<b>10.35</b>	<b>-0.09</b>	<b>6.46</b>	<b>139.43</b>
<b>B</b>	<b>Total Power Purchase at Kerala Periphery ((Sum(Vb to XVb)+XVI +XVII+XVIII)</b>	<b>1517.80</b>	<b>1495.65</b>	<b>1396.06</b>	<b>1577.40</b>	<b>1405.73</b>	<b>1314.72</b>	<b>1339.64</b>	<b>1556.94</b>	<b>1670.29</b>	<b>1597.69</b>	<b>1480.07</b>	<b>1910.35</b>	<b>18262.34</b>
<b>C</b>	<b>Total KSEBL Generation &amp; Power Purchase (A+B)</b>	<b>2044.03</b>	<b>2159.65</b>	<b>1920.31</b>	<b>1994.43</b>	<b>2006.54</b>	<b>2047.05</b>	<b>2057.30</b>	<b>2066.09</b>	<b>2169.26</b>	<b>2196.61</b>	<b>2096.13</b>	<b>2581.87</b>	<b>25339.27</b>
<b>D</b>	<b>Substation Auxiliary consumption</b>	<b>1.63</b>	<b>1.63</b>	<b>1.47</b>	<b>1.79</b>	<b>1.47</b>	<b>1.41</b>	<b>1.63</b>	<b>1.59</b>	<b>1.54</b>	<b>1.52</b>	<b>1.54</b>	<b>1.81</b>	<b>19.03</b>
<b>E</b>	<b>Net Generation and Power Purchase (C-D)</b>	<b>2042.41</b>	<b>2158.01</b>	<b>1918.84</b>	<b>1992.64</b>	<b>2005.07</b>	<b>2045.64</b>	<b>2055.67</b>	<b>2064.50</b>	<b>2167.72</b>	<b>2195.09</b>	<b>2094.59</b>	<b>2580.06</b>	<b>25320.24</b>
<b>F</b>	<b>Energy injected by private developers at Generator end for sale outside the state through open access</b>	<b>1.10</b>	<b>2.65</b>	<b>1.51</b>	<b>3.55</b>	<b>3.85</b>	<b>3.68</b>	<b>3.90</b>	<b>3.92</b>	<b>3.86</b>	<b>3.92</b>	<b>2.56</b>	<b>4.16</b>	<b>38.66</b>

Table 17 contd..

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

**TABLE 18****STATION WISE MONTHLY GENERATION AND POWER PURCHASE DETAILS & SYSTEM LOSSES FOR 2021-22**

(in Million Units)														
Sl.No.	Stations	04/21	05/21	06/21	07/21	08/21	09/21	10/21	11/21	12/21	01/22	02/22	03/22	TOTAL
<b>A</b>	<b>KSEBL INTERNAL GENERATION</b>													
1	Idamalayar	28.68	31.99	18.73	20.08	36.61	18.78	47.25	39.31	22.82	38.24	39.04	39.70	<b>381.23</b>
2	Idukki	270.97	235.93	210.15	326.08	342.73	145.72	389.28	501.80	313.90	302.59	275.96	394.58	<b>3709.69</b>
3	Kakkad	22.81	26.44	26.44	27.77	27.68	23.83	24.96	26.72	22.39	18.38	8.92	16.36	<b>272.70</b>
4	Kallada	3.39	3.23	4.21	4.53	4.66	5.15	5.47	5.38	5.65	5.52	4.83	7.87	<b>59.89</b>
5	Kuttiyadi+KES+KAES	33.27	48.39	58.58	112.88	85.34	95.36	81.52	53.49	42.83	51.99	41.60	46.10	<b>751.35</b>
6	KuttiyadiTail Race	0.46	0.33	0.58	1.22	0.92	1.02	0.80	0.46	0.57	0.45	0.28	0.39	<b>7.48</b>
7	Kakkayam SHEP	0.30	0.81	0.78	1.34	1.07	1.20	1.05	0.80	0.41	0.72	0.70	0.76	<b>9.94</b>
8	Lower Meenmutty	0.10	0.58	0.93	0.84	0.71	0.79	1.15	1.01	0.60	0.15	0.05	0.03	<b>6.94</b>
9	Lower Periyar	19.83	50.97	79.27	107.38	105.52	84.93	115.33	118.33	67.08	27.80	16.94	18.55	<b>811.93</b>
10	Maduppatty	0.97	0.59	0.22	0.10	0.00	0.00	0.91	1.14	0.95	0.44	0.56	0.63	<b>6.51</b>
11	Malampuzha	0.00	0.00	0.00	0.00	0.00	0.01	0.30	0.18	0.92	1.41	0.97	0.10	<b>3.89</b>
12	Malankara	3.03	2.85	2.50	2.47	2.02	1.84	1.59	1.22	1.65	3.02	2.74	3.16	<b>28.09</b>
13	Neriamangalam	9.23	18.29	24.52	31.99	36.71	26.51	36.26	35.00	25.19	12.46	11.50	7.95	<b>275.61</b>
14	NES	9.85	14.73	17.10	18.16	18.28	17.01	18.66	17.84	16.15	9.17	2.76	10.14	<b>169.85</b>
15	Pallivasal	11.39	12.67	12.33	12.84	13.69	12.63	13.01	12.55	12.76	9.71	10.20	10.72	<b>144.50</b>
16	Panniyar	12.81	16.77	19.33	22.02	22.42	19.23	22.83	22.21	18.64	13.26	9.89	13.76	<b>213.17</b>
17	Peppara	0.41	0.98	0.90	0.00	0.19	1.14	2.15	2.09	1.05	0.41	0.55	0.64	<b>10.51</b>
18	Poringalkuthu	6.93	14.54	17.47	17.09	26.69	25.66	27.00	26.20	9.54	4.08	13.13	6.28	<b>194.61</b>
19	PLBE	5.90	10.96	10.21	10.67	11.63	11.24	11.60	11.37	8.30	7.87	3.85	11.19	<b>114.79</b>
20	Sabarigiri	169.03	195.07	196.70	203.47	204.36	156.36	161.86	189.46	159.50	118.44	114.52	178.92	<b>2047.69</b>
21	Sengualm	10.38	13.72	16.70	19.48	18.41	19.09	21.00	18.79	17.32	9.56	8.33	9.94	<b>182.72</b>
22	Vellathhoval SHEP	0.10	0.33	0.52	1.04	1.54	1.16	1.59	1.66	1.07	0.40	0.26	0.31	<b>9.98</b>
23	Sholayar	24.93	25.26	4.01	2.96	11.90	31.58	37.43	26.92	8.08	19.25	34.10	36.21	<b>262.63</b>
24	Chembukadvu - I	0.00	0.00	0.66	1.08	1.09	0.72	0.84	0.52	0.12	0.00	0.00	0.00	<b>5.03</b>
25	Chembukadvu- II	0.00	0.00	0.98	1.69	1.71	1.13	1.30	0.82	0.19	0.00	0.00	0.00	<b>7.82</b>
26	Urumi - I	0.00	0.00	1.17	1.89	1.77	1.25	1.55	1.05	0.18	0.00	0.00	0.00	<b>8.86</b>
27	Urumi - II	0.00	0.06	0.73	1.17	1.18	0.83	0.98	0.69	0.12	0.00	0.00	0.00	<b>5.76</b>
28	Poozhithode	0.00	0.51	1.98	2.96	2.82	1.55	2.16	1.24	0.33	0.08	0.00	0.00	<b>13.63</b>
29	Ranni-Perinadu	0.88	0.81	1.11	1.17	1.11	1.09	0.79	1.02	0.71	0.43	0.39	0.76	<b>10.27</b>
30	Peechi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
31	Vilangadu	0.00	0.27	2.31	3.56	4.45	3.32	3.12	1.59	0.38	0.13	0.01	0.00	<b>19.14</b>
32	Chimmony	0.35	0.23	0.38	0.11	0.00	0.49	1.50	1.38	0.91	0.90	1.20	0.90	<b>8.35</b>
33	Addyanpara	0.02	0.52	1.27	1.97	2.10	1.74	2.01	1.67	0.44	0.14	0.06	0.01	<b>11.95</b>
34	Barapole	0.00	0.00	2.86	8.27	10.41	10.47	9.62	5.13	1.92	0.51	0.03	0.00	<b>49.22</b>

Table 18 contd..

35	Perunthenaruvi	0.05	1.06	0.91	1.47	1.84	1.46	0.51	0.00	0.00	0.00	0.00	0.00	7.30
36	Chathankottunada	0.00	0.00	0.84	2.20	3.20	2.21	2.39	1.50	0.28	0.09	0.03	0.00	12.74
37	Upper Kallar	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.59	0.29	0.02	0.01	0.00	1.14
38	Poringal kuthu screw generation	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.04
<b>Ia</b>	<b>KSEBL Gross Hydro</b>	<b>646.09</b>	<b>728.90</b>	<b>737.40</b>	<b>971.94</b>	<b>1004.74</b>	<b>726.49</b>	<b>1049.99</b>	<b>1131.16</b>	<b>763.23</b>	<b>657.61</b>	<b>603.39</b>	<b>815.97</b>	<b>9836.91</b>
	<b>Auxiliary consumption</b>	7.77	8.43	8.90	8.86	8.37	7.24	8.77	8.10	7.05	6.40	6.33	7.84	94.06
<b>Ib</b>	<b>KSEBL Net Hydro</b>	<b>638.32</b>	<b>720.46</b>	<b>728.50</b>	<b>963.09</b>	<b>996.38</b>	<b>719.25</b>	<b>1041.22</b>	<b>1123.06</b>	<b>756.18</b>	<b>651.20</b>	<b>597.06</b>	<b>808.13</b>	<b>9742.85</b>
<b>IIa</b>	<b>KSEBL Wind</b>													
39	Kanjikode	0.08	0.11	0.15	0.16	0.15	0.12	0.04	0.04	0.09	0.08	0.06	0.08	1.16
	Auxiliary consumption wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>IIb</b>	<b>Net Generation wind (KSEBL)</b>	<b>0.08</b>	<b>0.11</b>	<b>0.15</b>	<b>0.16</b>	<b>0.15</b>	<b>0.12</b>	<b>0.04</b>	<b>0.04</b>	<b>0.09</b>	<b>0.08</b>	<b>0.06</b>	<b>0.08</b>	<b>1.16</b>
<b>IIIa</b>	<b>KSEBL Solar</b>													
40	Total solar(incl Saura)	2.07	1.60	1.49	1.32	1.45	1.52	1.31	1.16	1.81	1.85	2.02	2.59	20.20
	Auxiliary Consumption Solar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>IIIb</b>	<b>KSEBL Net Solar</b>	<b>2.07</b>	<b>1.60</b>	<b>1.49</b>	<b>1.32</b>	<b>1.45</b>	<b>1.52</b>	<b>1.31</b>	<b>1.16</b>	<b>1.81</b>	<b>1.85</b>	<b>2.02</b>	<b>2.59</b>	<b>20.20</b>
<b>IV a</b>	<b>KSEBL Thermal</b>													
41	BDPP,Brahmapuram	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	KDPP, Nallalam	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
	Aux. cons.- BDPP (Thermal)	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.05	0.06	0.05	0.05	0.05	0.61
	Aux cons.-KDPP (Thermal)	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.54
<b>IVb</b>	<b>KSEBL Net Thermal Generation</b>	<b>-0.10</b>	<b>-0.09</b>	<b>-0.09</b>	<b>-0.10</b>	<b>-0.09</b>	<b>-0.10</b>	<b>-0.10</b>	<b>-0.09</b>	<b>-0.11</b>	<b>-0.10</b>	<b>-0.10</b>	<b>-0.10</b>	<b>-1.16</b>
<b>A</b>	<b>Net Generation- KSEBL (Ib+IIb+IIIb+IVb)</b>	<b>640.37</b>	<b>722.08</b>	<b>730.05</b>	<b>964.47</b>	<b>997.89</b>	<b>720.79</b>	<b>1042.47</b>	<b>1124.17</b>	<b>757.97</b>	<b>653.03</b>	<b>599.04</b>	<b>810.70</b>	<b>9763.05</b>
<b>B</b>	<b>POWER PURCHASE</b>													
<b>Va</b>	<b>Central Generating Stations at Keralaperiphery ( KSEB end)</b>													
1	RSTPS ( Unit 1 to 6)	141.45	90.36	98.42	84.65	120.05	125.95	122.86	77.81	83.74	94.68	107.51	136.88	1284.36
2	RSTPS ( Unit 7)	39.66	30.20	31.60	28.13	37.39	37.27	25.55	10.97	24.70	31.90	33.95	40.76	372.08
3	Talcher Stage II U 3 ,4 , 5 & 6	258.39	240.39	241.41	193.25	190.69	236.04	200.33	195.58	250.85	254.14	246.94	280.16	2788.17
4	Simhadri TPS Stage II	28.00	11.73	8.68	28.74	44.33	40.95	34.90	32.36	48.88	35.57	39.66	60.31	414.11
5	Kudgi STPS unit1	36.52	0.00	2.21	7.13	24.19	31.28	38.89	5.75	24.62	33.83	36.23	64.25	304.90
6	NLC II STAGE 1	36.06	23.98	19.51	16.33	16.91	19.39	20.31	12.86	24.06	30.84	34.76	38.04	293.05
7	NLC II STAGE 2	40.10	25.62	32.04	26.83	45.71	45.23	32.78	25.25	36.84	41.98	37.43	42.24	432.05
8	NLC I EXPANSION	22.47	33.00	27.68	16.03	29.34	29.68	33.91	16.81	39.58	38.71	40.41	44.47	372.09
9	NLC II EXPANSION	36.02	25.82	29.75	15.71	10.89	18.82	23.73	14.48	30.99	15.82	26.18	10.05	258.26
10	NTPL	40.02	19.79	17.15	20.40	29.51	16.56	10.94	11.60	17.58	17.58	17.72	20.20	239.05
11	VALLUR STPS	28.66	8.63	13.83	14.42	13.62	17.99	10.78	9.44	22.12	17.58	19.55	30.51	207.13
12	NNTPP	15.81	12.41	12.72	18.57	11.04	17.31	9.72	8.78	15.73	18.65	17.29	18.14	176.17
13	MAPS	0.48	-1.06	-0.88	5.55	4.41	-0.97	4.55	5.64	5.87	5.94	2.58	7.14	39.25
14	KAPS I & II	19.50	20.95	24.26	17.17	12.92	23.66	21.32	22.94	24.48	24.27	21.92	24.33	257.72
15	KAPS III& IV	23.33	24.23	21.52	24.66	24.57	22.05	24.42	23.59	24.38	24.39	22.09	24.40	283.63

Table 18 contd..

16	KKNPP	93.02	95.64	64.85	-1.59	-2.40	76.11	93.26	92.90	95.58	95.98	86.87	93.60	<b>883.82</b>
17	KKNPP unit 2	14.04	77.20	79.79	91.40	76.73	85.76	88.85	63.83	90.53	79.29	82.05	70.20	<b>899.67</b>
<b>Vb</b>	<b>TOTAL CGS</b>	<b>873.52</b>	<b>738.89</b>	<b>724.52</b>	<b>607.36</b>	<b>689.90</b>	<b>843.07</b>	<b>797.09</b>	<b>630.59</b>	<b>860.55</b>	<b>861.16</b>	<b>873.13</b>	<b>1005.69</b>	<b>9505.47</b>
<b>VI a</b>	<b>Thermal IPPs/Co-Gen</b>													
1	RGCCPP net Generation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
2	BSES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
3	MPS Steel(Co-Gen Plant)Net injection to Grid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
<b>VI.b</b>	<b>Thermal IPPs /Co-Gen total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>VIIa</b>	<b>IPPs-Small Hydro</b>													
1	Ullunkal (EDCL)	1.83	2.40	2.73	3.13	2.94	2.45	2.03	1.93	1.81	1.24	1.05	1.82	<b>25.36</b>
2	Iruttukanam(VIYYAT)	0.43	1.38	3.23	3.33	3.67	3.21	3.74	3.48	2.29	0.89	0.40	0.33	<b>26.38</b>
3	Kaarikkayam (AHPL)	3.46	5.59	6.40	7.58	6.89	5.22	6.00	5.51	4.18	2.33	2.03	3.58	<b>58.77</b>
4	Meenvallam (PSHCL)	0.03	0.12	0.46	1.27	1.71	1.52	1.52	1.19	0.48	0.21	0.11	0.07	<b>8.69</b>
5	Pathamkayam	0.00	0.00	3.39	4.94	5.07	3.99	4.28	2.87	0.65	0.08	0.00	0.00	<b>25.27</b>
6	Deviyar	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.00	0.00	<b>0.15</b>
7	Kallar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
8	Anakkampoil	0.00	0.00	0.00	5.02	5.51	4.40	4.96	3.68	0.75	0.02	0.02	0.16	<b>24.52</b>
9	Arippara	0.00	0.00	0.00	0.00	1.36	1.67	1.94	1.20	0.24	0.00	0.00	0.00	<b>6.41</b>
<b>VIIb</b>	<b>IPPs-Small Hydro Total</b>	<b>5.74</b>	<b>9.50</b>	<b>16.23</b>	<b>25.29</b>	<b>27.16</b>	<b>22.48</b>	<b>24.49</b>	<b>19.88</b>	<b>10.42</b>	<b>4.78</b>	<b>3.61</b>	<b>5.96</b>	<b>175.52</b>
<b>VIII a</b>	<b>Captive Power plants</b>													
1	Maniyar IPP hydel net	2.72	4.75	5.36	5.87	5.90	4.91	5.38	5.26	3.50	1.57	0.97	2.31	<b>48.50</b>
2	Kuthungal IPP hydel net	7.20	5.98	4.03	6.54	4.44	3.86	9.50	10.80	8.42	2.62	1.10	5.09	<b>69.58</b>
<b>VIII b</b>	<b>CPP -Total</b>	<b>9.92</b>	<b>10.73</b>	<b>9.40</b>	<b>12.41</b>	<b>10.34</b>	<b>8.77</b>	<b>14.88</b>	<b>16.06</b>	<b>11.92</b>	<b>4.18</b>	<b>2.06</b>	<b>7.40</b>	<b>118.07</b>
<b>IX.a</b>	<b>Wind IPPs/Prosumers</b>													
1	Ramakalmedu, Wind	0.52	1.98	3.21	4.45	3.62	3.50	1.44	1.07	1.34	1.04	0.86	0.75	<b>23.78</b>
2	Agali, Wind	1.46	3.26	5.19	4.57	5.24	4.40	1.72	0.90	0.38	0.46	0.24	1.12	<b>28.94</b>
3	Koundikkal	0.48	1.09	1.61	1.53	1.69	1.55	0.68	0.35	0.21	0.25	0.15	0.47	<b>10.06</b>
4	Ahalya Wind	1.18	1.76	2.21	2.34	2.30	2.03	0.83	0.80	1.19	0.99	0.68	1.11	<b>17.42</b>
5	INOX	2.23	3.02	3.81	4.42	4.18	3.86	1.44	1.39	2.59	2.22	1.54	2.28	<b>32.98</b>
6	Kosamattam	0.03	0.10	0.17	0.22	0.21	0.20	0.09	0.06	0.07	0.04	0.02	0.04	<b>1.25</b>
7	Malayala Manorama injection-CPP	1.64	2.38	3.23	3.75	3.52	3.02	1.15	1.04	1.57	1.34	0.99	1.68	<b>25.31</b>
<b>IX.b</b>	<b>Wind IPPs Total</b>	<b>7.53</b>	<b>13.59</b>	<b>19.43</b>	<b>21.29</b>	<b>20.77</b>	<b>18.56</b>	<b>7.35</b>	<b>5.61</b>	<b>7.36</b>	<b>6.34</b>	<b>4.47</b>	<b>7.44</b>	<b>139.75</b>
<b>Xa</b>	<b>Solar IPPs /Prosumer</b>													
1	Anert, Kuzhalmandam	0.25	0.18	0.17	0.16	0.16	0.17	0.16	0.14	0.23	0.22	0.24	0.24	<b>2.32</b>
2	Ambalathara -Solar Park IPP	7.03	6.14	5.56	4.93	5.54	6.28	5.97	4.98	7.27	7.80	7.14	7.26	<b>75.90</b>
3	THDCIL Paivalika Solar Park	5.07	6.95	6.29	5.14	3.10	7.11	7.58	6.63	9.23	9.49	8.91	9.15	<b>84.65</b>
4	CIAL injection-solar prosumer	2.87	2.55	2.65	2.05	2.46	2.43	2.23	1.85	3.18	3.42	3.08	3.29	<b>32.06</b>
5	CIAL ETTUKUDUKKA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.07	<b>1.07</b>
6	HINDALCO injection	0.00	0.05	0.07	0.04	0.05	0.06	0.05	0.02	0.06	0.05	0.04	0.05	<b>0.54</b>

Table 18 contd..

7	Grid connected consumers net injection	8.29	8.47	7.65	7.40	8.18	11.35	9.49	7.87	12.42	13.40	14.04	15.27	<b>123.83</b>
<b>Xb</b>	<b>Solar IPPs/prosumers Total</b>	<b>23.51</b>	<b>24.35</b>	<b>22.38</b>	<b>19.72</b>	<b>19.49</b>	<b>27.41</b>	<b>25.48</b>	<b>21.50</b>	<b>32.39</b>	<b>34.39</b>	<b>33.45</b>	<b>36.33</b>	<b>320.40</b>
	<b>Total IPP, CPP and Co-gen (Vib+VIIb+VIIIb+IXb+Xb)</b>	<b>46.71</b>	<b>58.17</b>	<b>67.43</b>	<b>78.72</b>	<b>77.75</b>	<b>77.21</b>	<b>72.19</b>	<b>63.05</b>	<b>62.09</b>	<b>49.69</b>	<b>43.59</b>	<b>57.13</b>	<b>753.74</b>
	<b>TRADERS</b>													
<b>XI.a</b>	<b>LTOA contracts</b>													
1	Maithon I	21.73	14.98	19.08	17.58	20.09	19.04	18.52	13.93	22.11	19.95	18.54	25.12	<b>230.67</b>
2	Maithon-II	56.52	50.96	49.87	51.33	42.78	43.13	41.11	30.90	48.00	41.17	25.10	60.37	<b>541.24</b>
3	DVC Mejia	94.00	88.13	86.04	90.24	94.86	93.03	87.94	74.96	89.79	84.62	71.13	54.36	<b>1009.10</b>
4	DVC RTPS	93.98	88.12	86.04	90.24	94.86	93.03	87.94	74.96	89.79	84.62	71.13	54.36	<b>1009.07</b>
5	Jindal Power Limited ((Bid I)	130.89	86.12	103.20	98.86	115.94	113.74	110.87	122.90	135.52	135.62	121.62	128.17	<b>1403.45</b>
6	Jindal Power Limited ((Bid II)	98.17	64.54	77.50	74.23	86.94	85.32	83.26	92.11	101.64	101.71	91.21	96.12	<b>1052.75</b>
7	Jhabua Power Limited ((Bid I)	54.14	63.11	52.83	50.90	60.59	58.81	16.61	75.06	60.22	66.38	70.51	78.21	<b>707.37</b>
8	Jhabua Power Limited ((Bid II)	47.10	55.05	45.80	44.16	52.69	51.14	14.44	65.29	52.37	57.72	61.31	68.01	<b>615.08</b>
9	JITPL	57.93	39.72	44.44	47.56	57.23	66.11	54.86	60.86	63.32	54.90	55.15	63.07	<b>665.15</b>
10	BALCO	59.53	45.19	51.14	51.14	46.54	7.70	8.88	53.51	67.72	60.28	0.00	35.76	<b>487.39</b>
11	REMC Purchase from AMEKIL- L_SR_2021_01	5.99	8.91	9.93	12.88	10.65	5.13	3.88	3.36	5.74	5.36	4.45	6.29	<b>82.57</b>
12	REMC Purchase from AMEKIL- L_SR_2021_02	4.51	10.19	14.76	19.32	15.98	7.69	5.83	5.04	8.60	8.04	6.67	9.43	<b>116.06</b>
<b>XI.b</b>	<b>Sub Total LTOA</b>	<b>724.49</b>	<b>615.02</b>	<b>640.62</b>	<b>648.45</b>	<b>699.15</b>	<b>643.86</b>	<b>534.13</b>	<b>672.89</b>	<b>744.83</b>	<b>720.37</b>	<b>596.83</b>	<b>679.29</b>	<b>7919.93</b>
<b>XII.a</b>	<b>Short Term Contracts</b>													
1	STOA-Purchase from JITPL through PTC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	153.96	164.41	185.14	<b>503.51</b>
2	Purchase from RPREL through AEL	32.37	31.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>64.24</b>
3	Purchase from JPL-2 Through PTCIL	14.94	9.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>24.70</b>
4	DEEP purchase from DB power through GMRE	35.85	30.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>66.69</b>
	DEEP purchase from DB power through GMRE	14.94	13.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>28.06</b>
<b>XII.b</b>	<b>Sub Total STOA</b>	<b>98.10</b>	<b>85.59</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>153.96</b>	<b>164.41</b>	<b>185.14</b>	<b>687.21</b>
	<b>POWER EXCHANGES</b>													
<b>XIII.a</b>	<b>TAM</b>													
1	IEX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
2	PXIL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
<b>XIII.b</b>	<b>TAM Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>XIV.a</b>	<b>DAM</b>													
1	IEX	3.68	0.00	0.50	0.21	0.00	0.88	0.00	0.05	4.12	11.22	18.57	5.20	<b>44.44</b>
2	PXIL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
<b>XIV.b</b>	<b>DAM Sub Total</b>	<b>3.68</b>	<b>0.00</b>	<b>0.50</b>	<b>0.21</b>	<b>0.00</b>	<b>0.88</b>	<b>0.00</b>	<b>0.05</b>	<b>4.12</b>	<b>11.22</b>	<b>18.57</b>	<b>5.20</b>	<b>44.44</b>
<b>XV.a</b>	<b>RTM</b>													
1	IEX	3.15	0.54	0.27	0.20	0.91	0.34	0.71	0.00	0.03	1.54	4.36	2.71	<b>14.77</b>
2	PXIL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
<b>XV.b</b>	<b>RTM Sub Total</b>	<b>3.15</b>	<b>0.54</b>	<b>0.27</b>	<b>0.20</b>	<b>0.91</b>	<b>0.34</b>	<b>0.71</b>	<b>0.00</b>	<b>0.03</b>	<b>1.54</b>	<b>4.36</b>	<b>2.71</b>	<b>14.77</b>
<b>XVI a</b>	<b>GDAM</b>													
	IEX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.95	4.08	<b>5.03</b>

Table 18 contd..



	PXIL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
<b>XVI b</b>	<b>GDAM Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.95</b>	<b>4.08</b>	<b>5.03</b>
<b>XVII a</b>	<b>SWAP</b>														
	SWAP from TPDDL thru PTCIL	<b>34.81</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>34.81</b>
	SWAP from JITPL through PTCIL Swap Total	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>17.96</b>	<b>17.96</b>
<b>XVII b</b>	<b>SWAP Total</b>	<b>34.81</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>17.96</b>	<b>52.76</b>
<b>XVIII</b>	<b>Deviation Settlement Mechanism (Net)</b>	9.95	-1.47	9.44	-14.46	-20.34	-4.64	-21.76	-26.49	-9.93	-3.25	0.55	-13.28	<b>-95.68</b>	
<b>B</b>	<b>Total Power Purchase at Kerala Periphery ((Sum(Vb to Xb)+XVI b+XVII b+XVIII))</b>	<b>1794.41</b>	<b>1496.75</b>	<b>1442.78</b>	<b>1320.49</b>	<b>1447.37</b>	<b>1560.72</b>	<b>1382.36</b>	<b>1340.09</b>	<b>1661.68</b>	<b>1794.70</b>	<b>1702.39</b>	<b>1943.92</b>	<b>18887.67</b>	
<b>C</b>	<b>Total KSEBL Generation &amp; Power Purchase (A+B)</b>	<b>2434.78</b>	<b>2218.83</b>	<b>2172.83</b>	<b>2284.96</b>	<b>2445.26</b>	<b>2281.51</b>	<b>2424.83</b>	<b>2464.26</b>	<b>2419.65</b>	<b>2447.73</b>	<b>2301.43</b>	<b>2754.62</b>	<b>28650.69</b>	
<b>D</b>	<b>Substation Auxiliary consumption</b>	<b>1.79</b>	<b>1.67</b>	<b>1.61</b>	<b>1.60</b>	<b>1.61</b>	<b>1.64</b>	<b>1.66</b>	<b>1.62</b>	<b>1.77</b>	<b>1.88</b>	<b>1.83</b>	<b>2.09</b>	<b>20.77</b>	
<b>E</b>	<b>Net Generation and Power Purchase (C-D)</b>	<b>2432.99</b>	<b>2217.16</b>	<b>2171.22</b>	<b>2283.36</b>	<b>2443.65</b>	<b>2279.87</b>	<b>2423.17</b>	<b>2462.64</b>	<b>2417.88</b>	<b>2445.85</b>	<b>2299.60</b>	<b>2752.53</b>	<b>28629.92</b>	
<b>F</b>	Energy injected by private developers at Generator end for sale outside the state through open access	3.97	4.06	3.96	4.23	4.29	3.94	4.12	4.12	4.28	4.35	3.66	4.30	<b>49.28</b>	
<b>G</b>	Energy purchased by consumers through open access at Kerala periphery	17.97	33.08	36.46	42.84	15.07	20.10	14.97	29.56	17.32	20.45	14.17	6.72	<b>268.69</b>	
<b>H</b>	<b>Out side State Sale by KSEBL</b>														
a	DAM( Kerala Periphery)-IEX	18.56	131.64	126.92	135.11	239.90	79.95	149.02	240.62	104.80	99.84	45.83	70.25	<b>1442.44</b>	
b	DAM( Kerala Periphery)-PXIL	0.17	1.98	10.64	1.30	4.98	0.32	0.26	0.74	0.27	0.56	0.00	0.20	<b>21.41</b>	
c	TAM ( Kerala Periphery)-IEX	0.00	1.12	1.16	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.00	<b>3.08</b>	
d	TAM ( Kerala Periphery)-PXIL	0.00	11.58	4.31	5.21	0.00	0.59	18.86	55.18	4.42	0.00	0.00	0.00	<b>100.15</b>	
e	RTM ( Kerala Periphery)-IEX	5.95	44.58	30.99	58.78	62.65	26.14	57.06	71.31	41.92	37.15	34.95	54.36	<b>525.85</b>	
f	RTM ( Kerala Periphery)-PXIL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	<b>0.76</b>	
g	GDAM ( Kerala Periphery)-IEX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	<b>0.73</b>	
<b>i</b>	<b>Total Sale outside the state(a+b+c+d+e+f+g)</b>	<b>24.68</b>	<b>190.90</b>	<b>174.02</b>	<b>200.40</b>	<b>307.53</b>	<b>107.00</b>	<b>226.00</b>	<b>367.85</b>	<b>151.41</b>	<b>137.55</b>	<b>81.54</b>	<b>125.54</b>	<b>2094.42</b>	
a	SWAP Return	0.00	0.00	12.45	36.58	36.25	21.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>106.28</b>	
<b>ii</b>	<b>Total SWAP return</b>	<b>0.00</b>	<b>0.00</b>	<b>12.45</b>	<b>36.58</b>	<b>36.25</b>	<b>21.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>106.28</b>	
<b>H</b>	<b>Energy sale outside the State by KSEBL and Swap return(i+ii)</b>	<b>24.68</b>	<b>190.90</b>	<b>186.47</b>	<b>236.98</b>	<b>343.78</b>	<b>128.00</b>	<b>226.00</b>	<b>367.85</b>	<b>151.41</b>	<b>137.55</b>	<b>81.54</b>	<b>125.54</b>	<b>2200.70</b>	
<b>I</b>	Energy injected by private developers at Kerala periphery for sale outside state through open access	<b>3.70</b>	<b>3.70</b>	<b>3.41</b>	<b>3.43</b>	<b>4.00</b>	<b>3.68</b>	<b>3.64</b>	<b>3.72</b>	<b>3.83</b>	<b>3.82</b>	<b>3.22</b>	<b>3.88</b>	<b>44.03</b>	
<b>J</b>	<b>Net energy available for sale inside the state (E+F+G-H-I)</b>	<b>2426.55</b>	<b>2059.70</b>	<b>2021.76</b>	<b>2090.02</b>	<b>2115.23</b>	<b>2172.23</b>	<b>2212.62</b>	<b>2124.75</b>	<b>2284.24</b>	<b>2329.28</b>	<b>2232.67</b>	<b>2634.13</b>	<b>26703.18</b>	
<b>K</b>	Energy purchased by consumers through open access at consumer end	17.13	30.51	34.37	40.31	14.40	19.07	14.23	27.96	16.25	19.32	13.45	6.39	<b>253.39</b>	
<b>L</b>	Energy adjusted against captive injection under VIII A, IX.A and X.A	16.68	15.77	16.67	19.53	18.71	17.58	19.60	19.81	21.11	17.59	17.94	21.24	<b>222.23</b>	
<b>M</b>	<b>Energy sale inside the state by KSEBL</b>	<b>2117.18</b>	<b>1765.68</b>	<b>1798.20</b>	<b>1814.48</b>	<b>1876.46</b>	<b>1936.88</b>	<b>1951.04</b>	<b>1893.28</b>	<b>2016.67</b>	<b>2057.75</b>	<b>2045.45</b>	<b>2226.52</b>	<b>23499.59</b>	
<b>N</b>	Energy given to RGCCPP	0.86	1.33	0.64	0.60	0.68	0.55	0.69	0.55	0.50	0.64	0.61	0.57	<b>8.22</b>	
<b>O</b>	<b>Energy sale within the state including open access ( K+L)</b>	<b>2151.85</b>	<b>1813.29</b>	<b>1849.89</b>	<b>1874.91</b>	<b>1910.24</b>	<b>1974.09</b>	<b>1985.56</b>	<b>1941.60</b>	<b>2054.52</b>	<b>2095.30</b>	<b>2077.44</b>	<b>2254.72</b>	<b>23983.41</b>	
<b>P</b>	<b>Loss in KSEBL system (J-M)</b>	<b>274.70</b>	<b>246.42</b>	<b>171.87</b>	<b>215.10</b>	<b>204.96</b>	<b>198.14</b>	<b>227.06</b>	<b>183.16</b>	<b>229.72</b>	<b>233.98</b>	<b>155.24</b>	<b>379.42</b>	<b>2719.77</b>	
<b>Q</b>	<b>% Loss within Kerala(N/J *100)</b>	<b>11.32%</b>	<b>11.96%</b>	<b>8.50%</b>	<b>10.29%</b>	<b>9.69%</b>	<b>9.12%</b>	<b>10.26%</b>	<b>8.62%</b>	<b>10.06%</b>	<b>10.05%</b>	<b>6.95%</b>	<b>14.40%</b>	<b>10.19%</b>	

TABLE-19

## ANNUAL GENERATION FROM RENEWABLE SOURCES

Sl. No.	Stations	Installed capacity (MW)	Annual Generation in MU									
			2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
<b>I</b>	<b>Small Hydro (KSEB)</b>											
1	Kallada	15	25.54	67.55	68.99	44.81	44.36	36.56	68.38	33.45	49.89	59.88
2	Peppara	3	3.69	7.63	5.13	4.71	3.94	5.77	8.23	5.80	8.60	10.14
3	Malankara	10.5	26.69	30.38	34.15	32.43	24.74	29.49	33.25	27.96	31.43	28.07
4	Madupetty	2	2.49	5.75	3.57	4.29	3.94	2.55	1.72	3.37	4.73	7.15
5	Chembukadavu State I & II	6.45	9.52	12.42	10.95	9.04	8.64	10.65	7.52	7.11	9.35	12.83
6	Urumi State I & II	6.15	10.79	13.67	12.98	9.30	9.03	11.20	6.91	12.31	11.61	15.35
7	Malampuzha	2.5	1.94	4.96	5.19	2.03	0.63	1.95	4.51	4.15	2.50	3.95
8	Lower Meenmutty	3.5	8.01	5.62	4.74	5.56	2.48	6.08	6.33	4.83	6.17	6.69
9	Kuttiyadi Tailrace	3.75	8.00	7.96	7.92	8.05	6.35	8.00	8.44	5.98	7.89	7.47
10	Poringalkuthu LBE	16	99.86	114.03	107.45	106.43	94.37	124.73	98.04	116.40	86.44	114.60
11	Neriamangalam Extension	25	94.52	143.66	120.20	133.33	102.08	158.60	167.66	100.30	150.05	169.97
12	Poozhithode	4.8	10.67	12.10	11.33	8.62	10.44	11.78	7.56	6.70	8.12	13.06
13	Ranni Perunad	4	6.15	9.52	7.35	7.66	5.85	6.32	3.83	7.03	7.72	10.21
14	Peechi	1.25	0.26	3.29	1.92	1.43	0.40	1.78	2.46	2.41	0.46	0.00
15	Vilangad	7.5			0.45	12.75	15.77	15.56	7.83	14.43	15.09	19.21
16	Chimmony	2.5				4.59	1.55	2.09	6.65	6.40	7.89	7.90
17	Adyanpara	3.5				2.36	5.01	3.88	0.33	2.40	6.70	11.81
18	Barapole	15				0.00	19.32	42.69	1.21	20.86	28.01	48.80
19	Vellathooval	3.6					3.05	4.69	2.72	0.07	0.00	9.00
20	Poringalkuthu Micro	0.011						0.05	0.06	0.07	0.05	0.05
21	Perunthenaruvi	6						3.12	7.76	12.30	13.04	7.13
22	Kakkayam	3							2.62	7.46	9.21	8.84
23	Mankulam GP IPP hydel (Pampunkayam)	6								0.00	0.00	0.00
24	Deviyar MHEP	0.05								0.00	0.01	0.13
25	Chathamkottunada Stage-II	2										12.73
26	Upper Kallar	6										1.45
<b>II</b>	<b>Small Hydro (CPP)</b>											
1	Maniyar	12	21.49	39.72	33.93	30.30	1.66	28.67	22.86	25.72	30.02	48.49
2	Kuthungal	21	22.95	42.48	45.26	49.31	14.03	37.13	62.14	44.28	54.77	69.59
<b>III</b>	<b>Small Hydro (IPP)</b>											
1	Ullunkal	7	14.37	23.62	20.80	18.26	13.10	15.03	10.75	17.39	16.25	24.93
2	Irutukkanam	4.5	18.56	23.06	23.18	24.83	20.08	24.83	10.51	19.16	22.58	26.04
3	Kaarikkayam	15		17.18	27.17	26.99	21.93	37.14	45.78	36.46	39.29	58.67
4	Meenvallom	3			2.37	5.56	5.99	10.48	7.41	6.72	6.27	8.72
5	Kallar	0.05						0.08		0.00	0.00	0.00
6	Pathankayam	8						11.40	0.07	0.26	18.89	21.88
7	Anakkampoil	8										23.89
8	Arippara	5										6.40
<b>IV</b>	<b>Wind (KSEB)</b>											
1	Kanjikode	2.025	1.76	1.80	1.06	1.38	1.71	1.41	1.33	1.22	1.14	1.26

Table-19 contd..

Sl. No.	Stations	Installed capacity (MW)	Annual Generation in MU									
			2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
<b>V</b>	<b>Wind (IPP)</b>											
1	Ramakkalmedu	14.25	30.91	33.21	26.73	23.65	28.75	29.01	23.68	25.19	20.56	24.61
2	Agali+ Koundikkal	18.6	38.06	40.86	40.41	23.79	46.47	31.07	26.04	27.15	26.72	28.84
3	Ahalia Alternate Energy Ltd	8.4				0.00	17.39	21.07	18.15	19.22	18.79	17.76
4	INOX	16						12.31	38.90	38.43	37.24	32.87
5	Kosamattom	1							1.13	1.64	1.22	1.24
6	Malayal Manorama (Wind- CPP)	10.00								23.04	25.97	25.39
7	SECI Wind 200 MW (Power Purchase)	75.00									5.98	198.68
<b>VI</b>	<b>GDAM Purchase</b>											<b>2.97</b>
	<b>Total Non Solar</b>	<b>387.39</b>	<b>456.24</b>	<b>660.49</b>	<b>623.23</b>	<b>601.44</b>	<b>533.06</b>	<b>747.16</b>	<b>722.77</b>	<b>687.64</b>	<b>790.61</b>	<b>1208.60</b>
<b>VII</b>	<b>Solar (KSEB)</b>											
1	Kanjikode	1	-	-	-	0.81	0.87	1.13	0.82	1.51	1.11	0.71
2	Poringalkuthu Powerhouse – CoD 10.09.2015	0.05	-	-	-	0.04		0.06	0.06	0.06	0.06	0.06
3	Floating solar RT- Banasurasagar – CoD 01/2016	0.01						0.01	0.13	0.62	0.43	0.54
4	Meencut RT NES – CoD 06/2016	0.03						0.01	0.01	0.01	0.00	0.00
5	Kothamangalam RT – CoD 07/2016	0.13						0.14	0.13	0.10	0.08	3.26
6	Moolamattom RT – CoD 06/2016	0.05						0.05	0.05	0.05	0.05	0.03
7	Thrissur RT – CoD 07/2016	0.35						0.31	0.25	0.36	0.22	0.18
8	Kollengode- IPDS	1						1.47	1.26	1.24	1.41	1.22
9	Padinjarethara RT - - CoD 29.08.2016	0.44						0.50	0.50	0.54	0.40	0.35
10	Moozhiyar RT – CoD 08/2016	0.13						0.54	0.12	0.11	0.10	0.08
11	Edayar Substation Premise- IPDS	1.25						1.65	1.08	2.39	1.26	1.16
12	Barapole Canal Bank	1						1.02	1.28	0.95	1.02	0.65
13	Barapole Canal Top	3						2.68	2.23	1.36	1.91	2.24
14	KDPP,Kozhikode RT – CoD 10.03.2017	0.035						0.04	0.04	0.04	0.04	0.06
15	Thalakulathoor – CoD 22.04.2017	0.65						0.88	0.93	0.97	0.96	1.19
16	Vydyuthi bhavan RT – CoD 13.06.2017	0.03						0.04	0.05	0.03	0.06	0.05
17	Manjeswaram – CoD 24.05.2017	0.5						0.65	0.81	0.74	0.53	0.57
18	Moovattupuzha – CoD 01/2018	1.25						0.39	1.55	1.57	1.64	1.53
19	Pothencode – CoD 02/2018	2						0.48	2.72	2.15	1.91	2.52
20	Kuttippuram GM – CoD 28.11.2017	0.5							0.71	0.69	0.61	0.60
21	220kV S/Sn Kundara RT- IPDS- DoC 20.09.2017	0.03							0.08	0.05	0.05	0.04
22	110kV S/Sn Kanjikode RT- IPDS- DoC 12.05.2017	0.025							0.06	0.04	0.04	0.03
23	220kV S/Sn Palakkad RT- IPDS- DoC 10.07.2017	0.035							0.08	0.15	0.14	0.05
24	220kV S/Sn Edappon RT- IPDS- DoC 25.08.2017	0.03							0.07	0.25	0.04	0.04

Table-19 contd..

Sl. No.	Stations	Installed capacity (MW)	Annual Generation in MU									
			2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
25	220kV S/Sn Edappon RT- IPDS- DoC 21.12.2017	0.045							0.09	0.28	0.06	0.12
26	110kV S/Sn Kunnamangalam RT- IPDS- DoC 18.04.2017	0.02							0.11	0.03	0.03	0.02
27	220kV S/Sn Orkattery RT- IPDS- DoC 06.09.2017	0.035							0.08	0.05	0.05	0.05
28	220kV S/Sn Nallalam RT- IPDS- DoC 05.05.2017	0.035							0.09	0.05	0.05	0.05
29	220kV S/Sn Brahmapuram RT- IPDS- DoC 26.04.2017	0.055							0.13	0.07	0.05	0.07
30	110kV S/Sn Thycattussery RT- IPDS- DoC 15.12.2016	0.02							0.09	0.21	0.03	0.02
31	220kV S/Sn Kattakkada RT- IPDS- DoC 27.09.2017	0.02							0.03	0.03	0.03	0.02
32	110kV S/Sn Paruthippara RT- IPDS- DoC 07.10.2017	0.03							0.08	0.12	0.04	0.04
33	220kV S/Sn Pothencode RT - IPDS- DoC 18.07.2017	0.035							0.53	0.34	0.04	0.05
34	66kV S/Sn GIS LA Complex RT- IPDS- DoC 03.08.2017	0.025							0.06	0.04	0.02	0.03
35	66kV S/Sn GIS Power house RT- IPDS- DoC 02.08.2017	0.025							0.06	0.03	0.04	0.04
36	66KV S/SnVeli RT- IPDS- DoC 16.02.2018	0.02							0.06	0.03	0.03	0.03
37	TMR Thirumala RT- IPDS- DoC 10.07.2017	0.035							0.08	0.05	0.05	0.03
38	VB Pathanamthita RT- IPDS- DoC 22.06.2017	0.045							0.08	0.06	0.06	0.06
39	220kV S/Sn Malaparamba RT- IPDS- DoC 11.12.2017	0.02							0.03	0.03	0.03	0.03
40	VB Manjeri RT- IPDS- DoC 20.01.2018	0.03							0.05	0.10	0.04	0.04
41	220kV S/Sn Areacode RT - IPDS- DoC 03.01.2018	0.03							0.05	0.04	0.03	0.04
42	PTRU-Kalamassery RT- IPDS- DoC 14.03.2018	0.04							0.06	0.06	0.05	0.05
43	220kV S/Sn Mylatty RT- IPDS- DoC 08.02.2018	0.03							0.05	0.05	0.04	0.19
44	220kV S/Sn Kanhirode RT- IPDS- DoC 15.02.2018	0.035							0.07	0.05	0.05	0.05
45	110kV S/Sn Viyyur RT- IPDS- DoC 12.01.2018	0.02							0.03	0.21	0.03	0.03
46	110kV S/Sn Pathanamthitta RT- IPDS- DoC 13.07.2017	0.025							0.21	0.12	0.15	0.03
47	MCR& W Madakkathara RT- IPDS- DoC 12.01.2018	0.045							0.12	0.06	0.05	0.04
48	MCR & W Madakkathara RT- IPDS- DoC 09.07.2018	0.15							0.15	0.21	0.19	0.17
49	Ele Dvn Kollam RT- IPDS- DoC 19.03.2018	0.035							0.05	0.05	0.15	0.05
50	Ele Dvn Kundara RT- IPDS- DoC 08.12.2017	0.025							0.04	0.04	0.04	0.03
51	Vaidyuthi bhavanam Chathnnoor RT- IPDS- DoC 27.02.2018	0.025							0.03	0.04	0.04	0.03
52	VB, Kottarakkara RT- IPDS- DoC 20.02.2017	0.08							0.08	0.11	0.08	0.10
53	220kV S/Sn New pallom RT - IPDS- DoC 15.01.2017	0.02							0.06	0.03	0.13	0.03
54	220kV S/Sn Ambalamughal RT- IPDS- DoC 31.07.2017	0.02							0.04	0.03	0.02	0.02
55	Vaidyuthi bhavanam Thodupuzha-50KW COD(25.02.2017) RT- IPDS	0.05							0.12	0.20	0.06	0.03
56	Ele Sn.Beach RT- IPDS- DoC 06.10.2017	0.02							0.08	0.03	0.02	0.03
57	Vaidyuthi bhavanam Thrissur RT- IPDS- DoC 23.09.2017	0.045							0.16	0.05	0.06	3.05
58	SLDC Building RT- IPDS	0.035							0.10	0.05	0.05	0.04
59	ES Kesavadasapuram RT- IPDS- DoC 06.10.2017	0.025							0.03	0.03	0.03	0.02
60	110kV S/S Ponnani RT- DoC 16.01.2019	0.5							0.15	0.65	0.57	0.55
61	66 kV S/s Peerumedu RT- DoC 23.04.2018	0.5							0.69	0.61	0.41	0.51
62	Dam Safety Pallom GM (IPDS)- DoC 27.12.2019	0.05								0.00	0.10	0.25
63	Kottiyam GM (IPDS)- DoC 27.01.2020	0.6								0.22	0.62	0.88
64	Various IPDS projects							1.31		5.52	4.33	
65	66Kv S/s,Kuruvilangad,DOC 27.3.2019RT	0.015										0.018
66	110Kv S/s,Kozhenchery,DOC 30.3.2019RT	0.015										0.020
67	66KV S/s,Thiruvalla,DOC 30.3.2019RT	0.015										0.021
68	VB,Pathanamthitta,DOC 30.3.2019RT	0.025										0.036
69	110KV S/s,Kavanad,DOC 26.3.2019RT	0.020										0.027
70	66KV S/s,Balaramapuram,DOC 08.4.2019RT	0.015										0.019

Table-19 contd..

Sl. No.	Stations	Installed capacity (MW)	Annual Generation in MU									
			2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
71	66KV S/s,Neyyattinkara,DOC 26.6.2019RT	0.015										0.020
72	110KV S/s,Nedumangad,DOC 4.4.2019RT	0.015										0.020
73	66KV S/s,Vattiyoorkavu,DOC 5.4.2019RT	0.015										0.018
74	VB,Pattom 4th Floor,DOC 22.3.2019RT	0.035										0.047
75	110KV S/s,Ollur,DOC 8.3.2019RT	0.020										0.026
76	110KV S/s,Wadakkanchery,DOC 21.3.2019RT	0.015										0.052
77	110KV S/s,Ayyampuzha,COD 17.5.19RT	0.020										0.022
78	66KV S/s,Angamaly,COD 18.5.19RT	0.030										0.037
79	110KV S/s,Rayonpuram,DOC 30.4.2019RT	0.015										0.020
80	110KV S/s,Myloor,DOC 22.4.2019RT	0.020										0.021
81	110KV S/s,Kadavanthra,COD 1.6.2019RT	0.025										0.038
82	110KV S/s,Kandanad,COD 3.6.2019RT	0.025										0.032
83	66KV S/s,Alappuzha,DOC 26.3.2019RT	0.015										0.020
84	110KV S/s,Mavelikkara,DOC 18.3.2019RT	0.020										0.023
85	110KV S/s,Udumbanoor,COD 11.4.19RT	0.015										0.018
86	GIS Powerhouse,TVM,DOC 2.8.2017RT	0.010										0.024
87	220KV S/s,Pothencode,DOC 27.3.2019RT	0.030										0.030
88	Agali- 1 MW (CoD 22.01.2022)	1.000										0.479
89	Kanjikode-3MW (CoD 19.02.2022)	3.000										0.301
90	GDAM Purchase											2.254
91	Bundled solar of Simhadri TPS											3.085
<b>VIII</b>	<b>Solar (IPP)</b>											
1	Cochin International Airport Ltd	38.44				11.42	10.99	33.29	37.38	45.21	46.85	47.67
2	Anert, Kuzhalmandam	2.00					0.93	2.79	2.54	2.59	2.56	2.26
3	Ambalathara -Solar Park	50.00					7.55	49.62	76.54	71.26	73.37	76.11
4	Hindalco	3.00									2.29	4.58
5	THDCIL Paivalika Solar Park	50.00									17.00	84.85
6	Net Metered Solar Prosumer- LT	192.81						25.72	38.42	97.01	198.79	197.85
7	Bharat Hospital	1.10										1.18
8	Net Metered Solar Prosumer- HT & EHT ( excl. CIAL)	51.77										59.33
9	Chaliyoor Colony, Agali	0.096				0.05		0.07	0.07	0.08	0.08	0.07
10	Solar Off Grid with Gen Based Incentives							0.80	2.67	1.98	0.18	
11	SOURA Solar	3.46									5.76	
	<b>Total Solar</b>	<b>413.52</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>12.27</b>	<b>20.34</b>	<b>125.63</b>	<b>176.70</b>	<b>244.12</b>	<b>368.88</b>	<b>504.70</b>
	<b>Total Renewable</b>	<b>800.91</b>	<b>456.24</b>	<b>660.49</b>	<b>623.23</b>	<b>613.71</b>	<b>553.41</b>	<b>872.79</b>	<b>899.47</b>	<b>931.76</b>	<b>1159.49</b>	<b>1713.30</b>

Financial Year	RPO Target		RPO Achievement	
	Solar	Non-Solar	Solar	Non-Solar
2017-18	1.50%	6.00%	0.81%	4.84%
2018-19	2.75%	7.00%	1.28%	5.24%
2019-20	4.00%	8.00%	1.47%	4.10%
2020-21	5.25%	9.00%	2.61%	5.59%
2021-22	6.75%	10.25%	4.07%	9.38%

TABLE 20

## GENERATION, PURCHASE, SALES AND LOSSES

Sl. No.	Year	Total internal Generation excluding auxillary consumption (MU)	Power purchase (CGS, IPPs, Traders) (MU)	External PGCIL Line Losses (MU)	Net generation & purchase (MU)	Energy injected at generation end by open access consumers for sale outside state (MU)	Energy purchased by open access consumers at Kerala periphery (MU)	Energy Sale by KSEBL to outside State (MU)	Swap Return (MU)	Energy injected at Kerala periphery by IPPs for sale outside state (MU)	Energy available for sale within the State (MU)	Energy purchased by consumers through open access at consumer end (MU)	Energy sale inside the state by KSEBL (MU)	Energy adjusted against captive injection and energy given to RGCCPP for meeting auxiliary consumption	Energy sale with in the state including sale by open access consumers (MU)	T&D loss within Kerala system		AT&C Loss (%)	Discom AT&C loss
																(MU)	(%)		
		(1)	(2)	(3)	(4)= (1) + (2)- (3)	(5)	(6)	(7)	(7a)	(8)	(9)=(4+5+6-7-7a-8)	(10)	(11)	(12)	(13)=(10+11+12)	(14)=(9-13)	15= (14/9)%	16	17
1	2012-13	5334.27	14908.82	364.96	19878.13	0	0.05	0.97		0.00	19877.21	0.05	16838.24		16838.29	3038.92	15.29%	16.83	
2	2013-14	8163.03	14070.42	293.69	21939.76	0	17.33	1414.60		0.00	20542.49	16.81	17454.05		17470.86	3071.63	14.95%	16.50	
3	2014-15	7286.90	15031.71	393.00	21925.61	26.41	4.66	358.09		25.43	21573.16	4.46	18426.27		18430.73	3142.43	14.57%	16.12	
4	2015-16	6739.25	16448.36	550.6	22637.01	40.44	142.00	53.48		38.63	22727.34	135.25	19325.07		19460.32	3267.02	14.37%		11.32
5	2016-17	4325.08	19734.93	684.75	23375.26	45.08	435.60	49.30		43.06	23763.58	414.66	20038.25		20452.91	3310.67	13.93%		12.48
6	2017-18	5460.34	19426.74	709.51	24177.57	45.15	284.96	117.51	6.31	43.07	24340.79	269.86	20880.70		21159.19	3181.60	13.07%		11.93
7	2018-19	7577.02	18761.47	714.9	25623.59	39.17	216.60	824.78	168.02	37.40	24849.16	205.44	21536.77		21750.25	3098.91	12.47%		10.71
8	2019-20	5722.81	21128.51	744.75	26106.57	37.50	405.86	55.95	231.93	35.96	26226.09	386.52	22660.93		23058.92	3167.17	12.08%		13.15
9	2020-21	7057.90	18912.23	649.89	25320.24	38.66	407.41	261.43	334.82	37.14	25132.92	388.72	22151.60		22540.32	2592.60	10.32%		7.76
10	2021-22	9742.28	19532.72	645.05	28629.95	49.28	268.69	2094.41	106.28	44.04	26703.19	253.37	23499.59	230.46	23983.42	2719.77	10.19%		8.26

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

Sl. No.	Year	Energy sales within the State (MU)	Total energy sales by KSEBL (Excluding SWAP) (MU)	Energy sales within the State including open access (MU)	Revenue from sale of electricity (Rs. Crore)	Per capita consumption (kWh)
1	2012-13	16838.24	16839.21	16838.29	7223.39	499
2	2013-14	17454.05	18868.65	17470.86	9974.18	516
3	2014-15	18426.27	18784.36	18430.73	9879.34	541
4	2015-16	19325.07	19378.55	19460.32	10487.71	569
5	2016-17	20038.25	20087.55	20452.91	11035.88	592
6	2017-18	20880.70	20998.21	21159.19	12057.27	613
7	2018-19	21536.77	22361.55	21750.25	13053.08	626
8	2019-20	22660.93	22716.88	23058.92	14056.75	651
9	2020-21	22151.60	22413.03	22540.32	13806.20	631*
10	2021-22	23499.59	25594.00	23983.42	15664.92	676

\* Dip in Per Capita Consumption during 2020-21 due to the impact of Covid-19 pandemic

\*\* Revenue excluding meter rent, wheeling charges etc.

TABLE 22

## ALLOCATION FROM CENTRAL GENERATING STATIONS TO KERALA

Name of ISGS		NTPC										NLC				NLC			
		Ramagundam Stage I&II		Ramagundam Stage III		Talcher Stage II		Simhadri Stage II		Kudgi		NLC TPS-II Stage I		NLC TPS-II Stage II		NLC TPS-I Expn.		NLC TPS-II Expn.	
Installed Capacity (MW)		2100		500		2000		1000		2400		630		840		420		500	
Firm allocation (% and MW)		11.67	245.14	12.20	61.02	21.35	427.03	9.11	91.07	5.00	120.00	10.00	63.02	10.72	90.01	16.37	68.77	16.37	81.87
Total allocation (firm + unallocated)																			
Period	Time Slot	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)
w.e.f 01.04.2021	18.00-22.00	11.69	245.49	12.22	61.10	21.35	427.20	9.12	91.20	5.01	120.24	10.02	63.13	10.73	90.13	16.40	68.88	16.40	82.00
	02.00- 06.00	11.67	245.07	12.20	61.00	21.35	427.00	9.12	91.20	5.01	120.24	10.00	63.00	10.72	90.05	16.40	68.88	16.40	82.00
	Rest of the day	11.67	245.07	12.20	61.00	21.35	427.00	9.10	91.00	5.00	120.00	10.00	63.00	10.71	89.96	16.36	68.71	16.36	81.80
w.e.f 01.07.2021	18.00-22.00	11.69	245.49	12.22	61.10	21.35	427.20	9.10	91.00	5.01	120.24	10.02	63.13	10.73	90.13	16.40	68.88	16.40	82.00
	02.00- 06.00	11.67	245.07	12.20	61.00	21.35	427.00	9.10	91.00	5.01	120.24	10.00	63.00	10.72	90.05	16.40	68.88	16.40	82.00
	Rest of the day	11.67	245.07	12.20	61.00	21.35	427.00	9.08	90.80	5.00	120.00	10.00	63.00	10.71	89.96	16.35	68.67	16.35	81.75
w.e.f 30.03.2022	18.00-22.00	11.69	245.49	12.22	61.10	21.35	427.20	9.10	91.00	5.01	120.24	10.02	63.13	10.73	90.13	16.40	68.88	16.40	82.00
	02.00- 06.00	11.67	245.07	12.20	61.00	21.35	427.00	9.10	91.00	5.01	120.24	10.00	63.00	10.72	90.05	16.40	68.88	16.40	82.00
	Rest of the day	11.67	245.07	12.20	61.00	21.35	427.00	9.08	90.80	5.00	120.00	10.00	63.00	10.71	89.96	16.35	68.67	16.35	81.75

Name of ISGS		NTECL		NTPL		NNTPP		NPCL								Total Allocation from SR	Allocation from Northern Region	Grand Total Allocation		
		Vallur		Tutucorin				MAPS		Kaiga 1&2		Kaiga 3&4		Koodankulam U1					Koodankulam U2	
Installed Capacity (MW)		1500		1000		1000		440		440		440		1000		1000				
Firm allocation (% and MW)		3.33	49.98	7.25	72.53	3.24	32.40	5.23	23.02	8.64	38.03	7.96	35.01	14.05	140.53	13.30	133.00	1772.42	0.00	1772.42
Total allocation (firm + unallocated)																				
Period	Time Slot	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(MW)	(MW)	(MW)
w.e.f 01.04.2021	18.00-22.00	3.34	50.10	7.27	72.70	3.24	32.40	5.24	23.06	8.66	38.10	7.98	35.11	14.06	140.60	13.30	133.00	1774.44	0.00	1774.44
	02.00- 06.00	3.33	49.95	7.25	72.50	3.24	32.40	5.23	23.01	8.64	38.02	7.96	35.02	14.06	140.60	13.30	133.00	1772.94	0.00	1772.94
	Rest of the day	3.33	49.95	7.25	72.50	3.24	32.40	5.23	23.01	8.64	38.02	7.95	34.98	14.05	140.50	13.30	133.00	1771.90	0.00	1771.90
w.e.f 01.07.2021	18.00-22.00	3.34	50.10	7.27	72.70	3.24	32.40	5.24	23.06	8.86	38.98	7.98	35.11	14.06	140.60	13.30	133.00	1775.12	0.00	1775.12
	02.00- 06.00	3.33	49.95	7.25	72.50	3.24	32.40	5.23	23.01	8.64	38.02	7.96	35.02	14.06	140.60	13.30	133.00	1772.74	0.00	1772.74
	Rest of the day	3.33	49.95	7.25	72.50	3.24	32.40	5.23	23.01	8.64	38.02	7.95	34.98	14.05	140.50	13.30	133.00	1771.61	0.00	1771.61
w.e.f 30.03.2022	18.00-22.00	3.34	50.10	7.27	72.70	3.24	32.40	5.24	23.06	8.86	38.98	7.98	35.11	14.06	140.60	13.30	133.00	1775.12	0.00	1775.12
	02.00- 06.00	3.33	49.95	7.25	72.50	3.24	32.40	5.23	23.01	8.64	38.02	7.96	35.02	14.06	140.60	13.30	133.00	1772.74	0.00	1772.74
	Rest of the day	3.33	49.95	7.25	72.50	3.24	32.40	5.23	23.01	8.64	38.02	7.95	34.98	14.05	140.50	13.30	133.00	1771.61	0.00	1771.61



<b>TABLE 23</b>			
<b>CONSUMERS AND CONNECTED LOAD</b>			
<b>Sl. No</b>	<b>Year</b>	<b>No. of Consumers at the end of the year</b>	<b>Connected Load at the end of the year (MW)</b>
1	2012-13	1,08,06,890	18,523.51
2	2013-14	1,11,92,890	19,684.15
3	2014-15	1,14,30,895	20,391.53
4	2015-16	1,16,68,031	20,980.82
5	2016-17	1,19,94,816	22,040.62
6	2017-18	1,22,76,321	23,352.03
7	2018-19	1,25,52,206	24,939.97
8	2019-20	1,28,26,185	26,843.47
9	2020-21	1,31,42,910	28,302.20
10	2021-22	1,34,22,642	29,791.48

**TABLE 24****TRANSMISSION AND DISTRIBUTION LINES-ABSTRACT**

Sl.No.	Year	in Circuit km					in km		
		400kV	220 kV	110 kV	66 kV	33 kV	22 kV	11 kV	LT
1	2012-13		2761.57	4178.55	2166.51	1599.70	160.59	52,907	2,63,620
2	2013-14		2765.00	4260.27	2202.81	1719.28	160.59	53,579	2,64,117
3	2014-15		2801.20	4299.67	2202.81	1761.57	160.59	55,386	2,68,753
4	2015-16		2801.88	4345.52	2220.56	1826.66	160.59	57,489	2,78,574
5	2016-17		2801.88	4460.75	2154.75	1902.43	160.59	59,335	2,83,811
6	2017-18		2856.88	4521.50	2151.12	1943.51	160.59	60,892	2,86,784
7	2018-19#	855.96*	2952.34	4745.08	2145.33	1957.43	147.21	60,867	2,89,804
8	2019-20	1244.56**	2952.66	4797.75	2000.75	2057.49	151	62,600	2,93,280
9	2020-21	1329.58**	3141.40	5030.86	2004.79	2108.00	151	64,389	2,95,921
10	2021-22	1465.31**	3485.67##	5385.43	1572.11	2335.66	151	68,173	2,99,538

\* PGCIL owned lines

\*\* In 2019-20, 92 ckt km is KSEBL owned, in 2020-21 & 2021-22, 177.03 ckt km is KSEBL owned, rest PGCIL owned

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

## including PGCIL owned lines

**TABLE 25**  
**PUMPSETS, STREET LIGHTS AND DISTRIBUTION TRANSFORMERS**

Sl. No	Year	No. of Pumpsets energised	No. of Street lights installed	No. of Distribution transformers
1	2012-13	4,66,289	12,57,285	64,972
2	2013-14	4,78,449	12,97,480	67,546
3	2014-15	4,90,056	13,49,101	71,195
4	2015-16	5,00,082	14,07,024	73,460
5	2016-17	5,12,339	14,12,689	75,580
6	2017-18	5,25,367	14,17,639	77,724
7	2018-19	5,38,918	14,22,764	79,876
8	2019-20	5,52,858	14,47,820	81,470
9	2020-21	4,95,432	14,76,776	83,465
10	2021-22	5,13,406	23,01,556*	85,594

\* As per street light survey conducted during 2022 for NILAAVU Project

**TABLE 26**  
**CONSUMERS AND CONNECTED LOAD - CATEGORY WISE**

(Connected load in MW)

Sl.No	Category	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
1	<b><u>Domestic LT</u></b>										
	No. of Consumers	85,73,938	87,88,916	89,87,947	91,24,747	9384957	9562253	9705347	9881528	10076070	10246803
	Connected Load	11,842.34	12,428.24	12,916.83	13349.76	14206.25	15136.02	16250.73	17681.27	18761.41	19,852.02
2	<b><u>Commercial LT*</u></b>										
	No. of Consumers	16,33,952	17,95,160	18,32,048	19,23,402	1994916	2081567	2196919	2280912	2370483	2456003
	Connected Load	2,790.58	3,109.57	3,393.70	3309.08	3492.07	3683.98	4027.78	4373.65	4604.43	4880.05
3	<b><u>Industrial LT</u></b>										
	No. of Consumers	1,31,583	1,37,744	1,42,001	1,36,693	141683	136964	138834	140205	143013	145491
	Connected Load	1,539.24	1,620.52	1656.73	1647.07	1688.59	1698.11	1736.48	1767.87	1817.47	1871.36
4	<b><u>HT &amp; EHT</u></b>										
	No. of Consumers	3,631	4,256	3,475	5,005	5335	5620	5911	6266	6501	6847
	Connected Load	1,140.19	1,316.68	1,182.90	1445.81	1436.42	1581.579	1639.06	1706.895	1747.926	1813.104
5	<b><u>Public lighting</u></b>										
	No. of Consumers	3,505	3,789	4,072	4,281	20350	27131	34653	40950	50794	57194
	Connected Load	105.70	110.99	118.55	124.13	140.95	149.79	157.34	158.93	164.59	168.52
6	<b><u>Agricultural LT</u></b>										
	No. of Consumers	4,60,263	4,63,006	4,61,333	4,73,882	447551	462763	470517	476297	496022	510277
	Connected Load	956.77	952.77	949.82	950.19	874.17	915.15	934.74	948.79	979.65	1004.09
7	<b><u>Licensees</u></b>										
	No. of Consumers	10	11	11	12	12	11	11	11	11	11
	Connected Load	83.42	79.13	106.75	88.99	111.17	95.15	96.19	99.414	122.238	98.298
8	<b><u>Railway Traction**</u></b>										
	No. of Consumers	8	8	8	9	12	12	14	16	16	16
	Connected Load	65.27	66.25	66.25	65.79	91	92.25	97.65	106.65	104.49	103.59
9	<b><u>Total</u></b>										
	<b>No. of Consumers</b>	<b>1,08,06,890</b>	<b>1,11,92,890</b>	<b>1,14,30,895</b>	<b>1,16,68,031</b>	<b>1,19,94,816</b>	<b>1,22,76,321</b>	<b>1,25,52,206</b>	<b>1,28,26,185</b>	<b>1,31,42,910</b>	<b>1,34,22,642</b>
	<b>Connected Load</b>	<b>18,524</b>	<b>19,684</b>	<b>20,392</b>	<b>20,981</b>	<b>22,041</b>	<b>23,352</b>	<b>24,940</b>	<b>26,843</b>	<b>28,302</b>	<b>29,791</b>

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

\*\* Railway Traction includes KMRL also

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

(Sales in MU, Revenue in Rs. Crore)

Sl. No	Category	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
1	<b>Domestic LT</b>										
	A. Sales	8313.36	8739.52	9367.26	9943.5	10280.74	10574.84	10864.35	11898.13	12699.64	12679.39
	B. Revenue	2,154.16	2699.20	3176.56	3744.1	3953.34	4316.99	4621.04	5262.8	6206.67	5999
2	<b>Commercial LT*</b>										
	A. Sales	2224.06	2229.33	2418.28	2735.36	2957.96	3063.48	3221.43	3426.37	2982.47	3309.95
	B. Revenue	1,855.38	2102.15	2172.38	2448.5	2709.05	2876.69	3062.80	3394.22	2929.97	3316.84
3	<b>Industrial LT</b>										
	A. Sales	1101.96	1096.57	1096.93	1103.23	1131.906	1112.33	1111.67	1085.16	1086.67	1165.21
	B. Revenue	587.11	682.52	704.89	746.63	754.72	809.19	792.76	837.7	801.41	878.89
4	<b>HT &amp; EHT</b>										
	A. Sales	3905.15	4035.48	4139.71	4106	4128.21	4535.98	4723.73	4615.88	3955.32	4771.54
	B. Revenue	2,146.40	2576.37	2581.31	2816.9	2854.08	3225.46	3422.07	3678.79	3045.07	3623.81
5	<b>Public Lighting</b>										
	A. Sales	313.2	319.06	346.43	366.62	375.76	373.48	377.78	365.86	376.94	362.83
	B. Revenue	94.32	118.99	137.81	156.36	156.64	169.86	172.77	175.59	179.53	175.27
6	<b>Agricultural LT</b>										
	A. Sales	306.08	310.25	298.28	279.48	321.98	346.03	337.65	348.48	403.24	374.09
	B. Revenue	47.28	56.57	60.44	65.62	102.01	63.29	86.78	97.6	114.54	109.52
7	<b>Licencees</b>										
	A. Sales	500.76	523.15	554.06	578.08	612.1	608.77	597.04	615.73	496.37	506.91
	B. Revenue	255.31	293.64	313.29	347.04	363.25	384.59	369.13	396.74	322.68	336.76
8	<b>Railway Traction**</b>										
	A. Sales	173.67	200.69	205.31	212.83	229.58	265.8	303.13	305.21	150.94	329.66
	B. Revenue	82.5	107.77	113.1	120.86	130.52	160.02	186.38	194.2	101.7	200.52
9	<b>Export</b>										
	A. Sales	0.97	1414.60	358.09	53.48	49.3	117.51	824.78	55.95	261.43	2094.41
	B. Revenue	0.93	1336.98	619.56	41.7	12.27	51.18	339.35	19.11	104.63	1024.31
10	<b>Total</b>										
	A. Sales	<b>16839.21</b>	<b>18868.65</b>	<b>18784.35</b>	<b>19378.58</b>	<b>20087.54</b>	<b>20998.22</b>	<b>22361.56</b>	<b>22716.77</b>	<b>22413.02</b>	<b>25593.99</b>
	B. Revenue	<b>7223.39</b>	<b>9974.18</b>	<b>9879.34</b>	<b>10487.71</b>	<b>11035.88</b>	<b>12057.27</b>	<b>13053.08</b>	<b>14056.75</b>	<b>13806.20</b>	<b>15664.92</b>

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

\*\* Railway Traction includes KMRL also

**TABLE 28**  
**CAPITAL OUTLAY AND EXPENDITURE**

(Amounts in Rs. Crore)

Sl. No	Year	Capital Outlay										Capital Expenditure				
		Generation		Transmission		Distribution		Others		Total		Gen.	Tran.	Dist.	Others	Total
		BE	RE	BE	RE	BE	RE	BE	RE	BE	RE					
1	2012-13	375.62	274.27	305.00	234.85	710.00	607.30	6.50	5.50	<b>1,397.12</b>	<b>1,121.92</b>	256.71	183.66	403.81	0	<b>844.18</b>
2	2013-14	419.45	256.48	293.00	192.47	800.00	700.00	9.00	9.00	<b>1,521.45</b>	<b>1,157.95</b>	229.82	191.12	566.33	0	<b>987.27</b>
3	2014-15	332.00	338.85	241.00	225.00	700.00	550.00	27.00	15.35	<b>1,300.00</b>	<b>1,129.20</b>	293.86	224.15	643.73	6.35	<b>1,168.09</b>
4	2015-16	385.65	383.30	240.00	185.00	710.00	615.00	17.35	21.70	<b>1,353.00</b>	<b>1,205.00</b>	183.98	328.14	741.53	7.21	<b>1,260.86</b>
5	2016-17	390.00	291.50	260.00	310.00	705.00	725.00	25.00	18.50	<b>1,380.00</b>	<b>1,345.00</b>	341.93	374.81	810.09	12.33	<b>1,539.16</b>
6	2017-18	371.00	455.13	360.00	430.00	750.00	1,203.04	19.00	41.60	<b>1,500.00</b>	<b>2,129.77</b>	286.71	443.74	898.11	23.56	<b>1,652.12</b>
7	2018-19	720.43	654.76	1794.23	883.16	1079.56	1393.9	45.43	125.50	<b>3,639.65</b>	<b>3,057.32</b>	303.31	502.35	810.18	18.63	<b>1,634.47</b>
8	2019-20	897.07	612.1	1926.86	1539.98	1947.05	1838.21	86.11	140.96	<b>4,857.09</b>	<b>4,131.25</b>	389.96	847.23	1132.67	13.61	<b>2,383.47</b>
9	2020-21	912.58	692.51	1594.54	1425.6	1745.71	2099.13	225.50	208.58	<b>4,478.33</b>	<b>4,425.82</b>	296.14	967.88	1074.9	21.21	<b>2,360.13</b>
10	2021-22	893.15	606.27	1537	1068.5	1646	1405	232.64	412.8	<b>4308.79</b>	<b>3492.57</b>	483.28	1024.19	1619.44	11.84	<b>3138.75</b>

**TABLE 29****AVERAGE REALISATION - CATEGORY WISE#***(All figures in Ps./kWh)*

Sl. No	Year	Domestic	Commercial LT	Industrial LT (incl. PWW)	HT & EHT	Public Lighting	Agriculture	Licensee	Export	Traction	Overall #
1	2012-13	259.18	834.23	533.35	549.63	301.15	152.47	509.84	958.76	475.04	428.98
2	2013-14	308.85	942.95	622.41	638.43	372.95	182.34	561.29	945.13	536.99	528.61
3	2014-15	339.11	898.32	642.60	623.55	397.80	202.63	565.44	1730.18	550.87	525.93
4	2015-16	376.54	895.13	676.77	686.04	426.49	234.79	600.33	779.73	567.87	541.20
5	2016-17	384.54	915.85	666.77	691.36	416.86	316.82	593.45	248.88	568.52	549.39
6	2017-18	408.23	939.03	727.47	711.08	454.80	182.90	631.75	435.54	602.03	574.20
7	2018-19	425.34	950.76	713.13	724.44	457.33	257.01	618.27	411.44	614.85	583.73
8	2019-20	442.32	990.62	771.96	796.99	479.94	280.07	644.34	341.55	636.28	618.78
9	2020-21	488.73	982.40	737.49	769.87	476.28	284.05	650.08	400.22	673.78	615.99
10	2021-22	473.13	1002.08	754.28	759.46	483.06	292.76	664.34	489.07	608.26	612.05

# Revenue from tariff

PWW - Public Water Works

**TABLE 30**  
**AVERAGE ENERGY SALES AND REVENUE PER CONSUMER**

(Sales in kWh, Revenue in Rs.)

Sl. No	Year	Particulars	Domestic	Commercial LT **	Industrial LT (incl. PWW)	HT & EHT	Agriculture	Public Lighting	Bulk Supply	Traction***
1	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
2	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	1,795	49,550	60,53,505	1,222	3,14,048	26,69,44,500	13,47,10,698
3	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
4	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
5	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	19,817	53,268	53,49,728	2,279	76,973	30,27,08,333	10,87,66,667
6	2017-18	a. Sales/Consumer	1,106	1,472	8,121	8,07,114	748	13,766	5,53,42,727	2,21,50,000
		b. Revenue/Consumer	4,515	13,820	59,080	57,39,253	1,368	62,607	34,96,27,273	13,33,50,000
7	2018-19	a. Sales/Consumer	1,119	1,466	8,007	7,99,142	718	10,902	5,42,76,364	2,16,52,143
		b. Revenue/Consumer	4,761	13,941	57,101	79,91,423	1,844	49,857	33,55,72,727	13,31,28,571
8	2019-20	a. Sales/Consumer	1,204	1,502	7,740	7,36,655	732	8,934	5,59,75,455	1,90,75,625
		b. Revenue/Consumer	5,326	14,881	59,748	58,71,034	2,049	42,879	36,06,72,727	12,13,75,000
9	2020-21	a. Sales/Consumer	1,260	1,258	7,598	6,08,417	813	7,421	4,51,24,545	94,33,750
		b. Revenue/Consumer	6,160	12,360	56,038	46,84,002	2,309	35,345	29,33,45,455	6,35,62,500
10	2021-22	a. Sales/Consumer	1,237	1,348	8,009	6,96,880	733	6,344	4,60,82,727	2,06,03,750
		b. Revenue/Consumer	5,855	13,505	60,409	52,92,551	2,146	30,645	30,61,45,455	12,53,25,000

PWW - Public Water Works

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

\*\*\* Railway Traction includes KMRL also



**TABLE 31**  
**DEMAND AND CONSUMPTION**

Day	04/21						05/21						06/21					
	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)
Day 1	3810	3205	2990	84.85	0.93	3810	3452	2976	2426	73.46	0.89	3452	3352	2561	2464	68.23	0.85	3352
Day 2	3955	2874	2660	77.37	0.82	3955	3676	2871	2669	73.97	0.84	3676	3496	2720	2530	70.79	0.84	3496
Day 3	3937	3018	2934	82.80	0.88	3937	3577	2960	2797	77.18	0.90	3577	3391	2752	2612	71.31	0.88	3391
Day 4	3954	2956	2665	76.90	0.81	3954	3606	2916	2729	75.04	0.87	3606	3250	2591	2447	68.28	0.88	3250
Day 5	4218	3135	2977	86.32	0.85	4218	3894	2876	2682	76.70	0.82	3894	2976	2596	2409	64.18	0.90	2976
Day 6	4155	3267	2884	83.42	0.84	4155	3697	3005	2684	77.95	0.88	3697	3137	2324	2085	60.71	0.81	3137
Day 7	3968	3184	3091	87.02	0.91	3968	3494	3013	2641	75.36	0.90	3494	3493	2596	2438	68.59	0.82	3493
Day 8	4194	3142	3032	86.46	0.86	4194	3629	2825	2529	72.06	0.83	3629	3333	2745	2598	70.29	0.88	3333
Day 9	4210	3294	3135	87.62	0.87	4210	3641	2823	2516	70.73	0.81	3641	3353	2660	2549	69.83	0.87	3353
Day 10	4251	3279	3186	87.20	0.85	4251	3566	2848	2628	72.37	0.85	3566	3330	2718	2543	69.16	0.87	3330
Day 11	3914	3261	2842	79.15	0.84	3914	3331	2833	2622	71.70	0.90	3331	3265	2642	2524	69.95	0.89	3265
Day 12	3496	3107	2888	78.78	0.94	3496	3217	2734	2560	69.43	0.90	3217	3003	2530	2332	63.90	0.89	3003
Day 13	3688	2896	2694	78.03	0.88	3688	2925	2697	2380	64.96	0.93	2925	2809	2317	2101	58.46	0.87	2809
Day 14	3417	2839	2561	72.84	0.89	3417	2271	2389	2092	53.78	0.99	2271	2993	2377	1994	59.61	0.83	2993
Day 15	3754	2837	2656	77.59	0.86	3754	2749	1814	1520	48.38	0.73	2749	3082	2457	2194	62.51	0.85	3082
Day 16	3520	2916	2855	78.55	0.93	3520	2723	2003	1831	52.28	0.80	2723	3053	2527	2210	63.50	0.87	3053
Day 17	3873	2866	2779	79.73	0.86	3873	3060	2217	2033	58.34	0.79	3060	3168	2547	2236	64.52	0.85	3168
Day 18	3460	2927	2650	73.92	0.89	3460	3118	2321	2194	61.10	0.82	3118	3228	2584	2396	68.35	0.88	3228
Day 19	3985	2834	2679	80.95	0.85	3985	2996	2454	2212	61.58	0.86	2996	3090	2446	2293	64.32	0.87	3090
Day 20	3788	2830	2660	78.20	0.86	3788	3192	2404	2265	62.55	0.82	3192	3077	2366	2165	62.30	0.84	3077
Day 21	3765	2918	2776	78.70	0.87	3765	3079	2455	2258	61.65	0.83	3079	3303	2588	2406	69.20	0.87	3303
Day 22	3848	2927	2833	79.99	0.87	3848	3025	2371	2207	60.92	0.84	3025	3298	2685	2591	69.76	0.88	3298
Day 23	3987	3006	2846	81.14	0.85	3987	3164	2323	2162	61.42	0.81	3164	3313	2761	2531	71.35	0.90	3313
Day 24	3732	2967	2798	77.45	0.86	3732	3378	2528	2388	66.84	0.82	3378	3370	2722	2475	70.04	0.87	3370
Day 25	3489	2780	2411	71.84	0.86	3489	3136	2616	2412	66.71	0.89	3136	3396	2777	2628	72.49	0.89	3396
Day 26	4004	2867	2706	80.30	0.84	4004	2984	2413	2243	61.43	0.86	2984	3051	2664	2514	66.65	0.91	3051
Day 27	3863	3075	2953	81.53	0.88	3863	3170	2362	2161	61.90	0.81	3170	3114	2417	2156	62.08	0.83	3114
Day 28	4044	3041	2912	82.42	0.85	4044	3259	2462	2318	65.27	0.83	3259	3304	2647	2438	69.53	0.88	3304
Day 29	4002	3145	3066	84.22	0.88	4002	3209	2486	2372	65.18	0.85	3209	3483	2704	2585	71.49	0.86	3483
Day 30	3885	3051	2957	82.93	0.89	3885	3206	2446	2175	63.35	0.82	3206	3609	2836	2609	75.20	0.87	3609
Day 31							3263	2638	2445	68.27	0.87	3263						

Table 31- contd..

**TABLE 31**  
**DEMAND AND CONSUMPTION**

Day	07/21						08/21						09/21						Max. Demand (MW)
	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)	
Day 1	3299	2904	2722	73.39	0.93	3299	3067	2461	2156	63.57	0.86	3067	3488	2783	2564	72.44	0.87	3488	3625
Day 2	3372	2764	2508	71.79	0.89	3372	3392	2652	2443	69.88	0.86	3392	3449	2751	2480	72.19	0.87	3449	3237
Day 3	3325	2711	2591	69.35	0.87	3325	3290	2679	2439	69.81	0.88	3290	3453	2809	2474	71.51	0.86	3453	3214
Day 4	3208	2593	2336	66.27	0.86	3208	3340	2698	2461	69.91	0.87	3340	3315	2725	2491	69.30	0.87	3315	3425
Day 5	3428	2738	2526	72.33	0.88	3428	3288	2750	2523	70.05	0.89	3288	2942	2431	2183	61.09	0.87	2942	3497
Day 6	3493	2779	2635	73.36	0.88	3493	3316	2659	2357	69.19	0.87	3316	3394	2631	2276	67.76	0.83	3394	3613
Day 7	3573	2903	2719	75.98	0.89	3573	3187	2669	2366	67.51	0.88	3187	3542	2728	2313	69.80	0.82	3542	3651
Day 8	3631	2882	2754	75.11	0.86	3631	2973	2482	2214	61.31	0.86	2973	3463	2718	2451	71.46	0.86	3463	3463
Day 9	3321	2852	2727	73.29	0.92	3321	3443	2624	2309	69.22	0.84	3443	3616	2753	2560	73.01	0.84	3616	3412
Day 10	2823	2491	2270	61.73	0.91	2823	3404	2760	2515	71.14	0.87	3484	3529	2782	2606	73.72	0.87	3529	3285
Day 11	2796	2297	2035	56.65	0.84	2796	3373	2754	2471	71.02	0.88	3823	3464	2705	2609	72.66	0.87	3464	3339
Day 12	3081	2471	2113	63.73	0.86	3081	3457	2732	2420	69.54	0.84	3457	3114	2552	2357	65.04	0.87	3114	3361
Day 13	3110	2449	2173	64.35	0.86	3110	3294	2718	2495	69.17	0.88	3294	3427	2731	2304	69.28	0.84	3427	3497
Day 14	2872	2465	2179	63.30	0.92	2872	3286	2605	2310	67.54	0.86	3286	3572	2773	2451	72.53	0.85	3572	3404
Day 15	3123	2516	2288	64.88	0.87	3123	3063	2397	2176	61.45	0.84	3063	3597	2849	2530	73.90	0.86	3597	3487
Day 16	3198	2605	2166	65.54	0.85	3198	3293	2652	2379	68.18	0.86	3293	3640	2839	2607	73.26	0.84	3640	3234
Day 17	2915	2437	2198	62.25	0.89	2915	3467	2734	2438	70.80	0.85	3467	3610	2805	2606	73.76	0.85	3610	3086
Day 18	2790	2266	2117	57.94	0.87	2790	3412	2784	2489	70.68	0.86	3412	3679	2822	2632	74.88	0.85	3679	3524
Day 19	3310	2459	2128	65.66	0.83	3310	3402	2608	2380	69.64	0.85	3402	3364	2716	2446	69.54	0.86	3514	3565
Day 20	3245	2614	2344	68.23	0.88	3245	3313	2605	2412	68.08	0.86	3313	3729	2884	2650	76.62	0.86	3729	3473
Day 21	2971	2588	2366	64.27	0.90	2971	2972	2544	2287	63.07	0.88	2972	3765	2914	2767	77.20	0.85	3815	3591
Day 22	3183	2540	2270	65.76	0.86	3183	3103	2400	2278	63.11	0.85	3103	3756	2923	2772	77.95	0.86	3866	3758
Day 23	3283	2622	2349	67.78	0.86	3283	3325	2537	2378	68.33	0.86	3325	3741	2921	2811	78.10	0.87	3861	3493
Day 24	3098	2496	2281	63.87	0.86	3098	3546	2714	2521	71.84	0.84	3546	3721	2970	2766	78.41	0.88	3721	3263
Day 25	2928	2366	2154	60.00	0.85	2928	3607	2785	2578	73.77	0.85	3607	3776	2940	2812	77.53	0.86	3776	3611
Day 26	3245	2542	2215	66.57	0.85	3245	3458	2769	2597	72.93	0.88	3458	3311	2790	2603	70.79	0.89	3311	3567
Day 27	3232	2672	2364	68.05	0.88	3232	3379	2785	2497	70.33	0.87	3379	3107	2428	2204	63.00	0.84	3107	3513
Day 28	3293	2686	2436	69.52	0.88	3293	3177	2700	2332	68.16	0.89	3177	3455	2641	2378	69.29	0.84	3455	3594
Day 29	3306	2638	2478	69.72	0.88	3306	2810	2327	2143	59.02	0.88	2810	3603	2711	2403	71.99	0.83	3603	3708
Day 30	3351	2701	2455	70.41	0.88	3351	3421	2525	2168	66.25	0.81	3421	3631	2833	2580	74.11	0.85	3631	3540
Day 31	3216	2606	2446	67.25	0.87	3216	3513	2659	2395	71.17	0.84	3513							3246

Table 31- contd..

**TABLE 31**  
**DEMAND AND CONSUMPTION**

Day	10/21					11/21					12/21					Max. Demand (MW)		
	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)		L.F (%)	Unrestricted Demand (MW)
Day 1	2861	2617	74.12	0.85	3625	3471	2844	2549	71.59	0.86	3471	3691	2845	2568	72.90	0.82	3691	3663
Day 2	2644	2541	68.39	0.88	3237	3462	2738	2533	71.47	0.86	3462	3681	2903	2650	73.99	0.84	3681	3399
Day 3	2542	2340	64.97	0.84	3214	3460	2785	2565	72.29	0.87	3460	3671	2936	2714	74.85	0.85	3671	3755
Day 4	2794	2478	73.17	0.89	3425	3365	2679	2520	68.92	0.85	3365	3631	2921	2704	74.58	0.86	3631	3766
Day 5	2806	2619	73.69	0.88	3497	3632	2788	2378	71.91	0.83	3632	3355	2651	2412	67.81	0.84	3355	3775
Day 6	2846	2591	74.06	0.85	3613	3619	2825	2631	73.39	0.85	3619	3663	2873	2713	74.83	0.85	3663	3759
Day 7	2887	2669	75.48	0.86	3651	3312	2651	2472	67.67	0.85	3312	3735	2941	2745	75.35	0.84	3735	3807
Day 8	2958	2641	74.85	0.90	3463	3479	2813	2575	71.85	0.86	3479	3735	2947	2757	76.14	0.85	3735	3724
Day 9	2728	2488	71.43	0.87	3412	3523	2821	2476	70.69	0.84	3523	3738	2970	2764	76.10	0.85	3738	3426
Day 10	2566	2370	66.49	0.84	3285	3594	2850	2520	72.01	0.83	3594	3742	2980	2732	75.82	0.84	3742	3825
Day 11	2812	2476	70.93	0.89	3339	3697	2874	2597	73.60	0.83	3697	3707	2830	2695	74.86	0.84	3707	3855
Day 12	2746	2373	68.86	0.85	3361	3506	2883	2613	72.42	0.86	3506	3393	2736	2407	69.02	0.85	3393	3789
Day 13	2690	2384	70.56	0.84	3497	3424	2795	2507	70.20	0.85	3424	3759	2865	2688	75.78	0.84	3759	3784
Day 14	2673	2448	69.52	0.85	3404	3125	2510	2302	63.11	0.84	3125	3745	3011	2799	76.50	0.85	3745	3682
Day 15	2714	2499	71.14	0.85	3487	3457	2774	2395	68.47	0.83	3457	3818	2995	2809	76.68	0.84	3818	3665
Day 16	2740	2542	68.99	0.89	3234	3475	2804	2448	70.27	0.84	3475	3783	2979	2777	76.52	0.84	3783	3422
Day 17	2462	2267	63.00	0.85	3086	3621	2796	2480	71.95	0.83	3621	3784	3004	2781	76.92	0.85	3784	3802
Day 18	2667	2361	70.30	0.83	3524	3555	2858	2575	72.24	0.85	3555	3763	2989	2801	76.47	0.85	3763	3818
Day 19	2659	2480	72.18	0.84	3565	3436	2819	2545	71.74	0.87	3436	3414	2786	2466	69.37	0.85	3414	3856
Day 20	2834	2648	73.01	0.88	3473	3473	2782	2485	71.45	0.86	3473	3717	2846	2685	74.10	0.83	3717	3864
Day 21	2766	2526	72.90	0.85	3591	3182	2524	2293	64.21	0.84	3182	3698	2889	2670	74.20	0.84	3698	3678
Day 22	2785	2600	74.50	0.83	3758	3624	2720	2503	71.67	0.82	3624	3765	2930	2670	74.48	0.82	3765	3700
Day 23	2792	2622	72.69	0.87	3493	3577	2849	2633	72.44	0.84	3577	3744	2977	2712	74.95	0.83	3744	3271
Day 24	2598	2423	66.95	0.86	3263	3635	2861	2536	72.62	0.83	3635	3628	2847	2686	73.56	0.84	3628	3667
Day 25	2722	2554	72.92	0.84	3611	3559	2867	2609	72.11	0.84	3559	3223	2606	2455	66.29	0.86	3223	3612
Day 26	2823	2591	73.74	0.86	3567	3614	2774	2483	71.35	0.82	3614	3245	2563	2374	64.60	0.83	3245	3447
Day 27	2784	2610	72.49	0.86	3513	3537	2857	2595	71.05	0.84	3537	3674	2768	2557	72.14	0.82	3674	3721
Day 28	2789	2599	73.21	0.85	3594	3174	2594	2428	65.37	0.86	3174	3681	2823	2604	72.68	0.82	3681	3772
Day 29	2918	2609	73.96	0.83	3708	3646	2784	2504	70.69	0.81	3646	3698	2795	2519	72.59	0.82	3698	3702
Day 30	2842	2575	73.19	0.86	3540	3556	2855	2547	71.82	0.84	3556	3746	2871	2591	72.95	0.81	3746	3477
Day 31	2648	2506	67.00	0.86	3246							3689	2925	2654	74.76	0.84	3689	3903

Table 31- contd..

**TABLE 31**  
**DEMAND AND CONSUMPTION**

Day	01/22					02/22						03/22					
	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)	Max. Demand (MW)	Morning peak (MW)	Min. Demand (MW)	Consumption (MU)	L.F (%)	Unrestricted Demand (MW)
Day 1	2895	2695	74.73	0.85	3663	3928	3115	2942	80.90	0.86	3928	3922	3090	2983	82.05	0.87	3922
Day 2	2705	2512	68.98	0.85	3399	3925	3137	2929	80.83	0.86	3925	3992	3172	2986	81.21	0.85	3992
Day 3	3008	2747	76.19	0.85	3755	3867	3184	2924	80.61	0.87	3867	3961	3176	2882	80.32	0.84	3961
Day 4	3080	2773	77.00	0.85	3766	3787	3132	2829	78.45	0.86	3787	3982	3171	2922	81.09	0.85	3982
Day 5	3059	2803	76.49	0.84	3775	3639	3003	2719	75.04	0.86	3639	4035	3215	3030	82.85	0.86	4035
Day 6	3025	2723	76.46	0.85	3759	3325	2759	2442	67.72	0.85	3325	3892	3063	2658	77.10	0.83	3892
Day 7	3090	2758	77.68	0.85	3807	3838	3018	2677	76.49	0.83	3838	4072	3277	2970	84.03	0.86	4072
Day 8	3028	2758	76.84	0.86	3724	3876	3124	2832	78.72	0.85	3876	4166	3351	3113	85.22	0.85	4166
Day 9	2876	2751	72.07	0.88	3426	3864	3155	2865	79.23	0.85	3864	4228	3356	3233	86.50	0.85	4228
Day 10	2996	2715	76.12	0.83	3825	3875	3121	2911	79.39	0.85	3875	4223	3392	3174	86.58	0.85	4223
Day 11	3083	2794	77.39	0.84	3855	3763	3164	2882	78.14	0.87	3763	4229	3426	3170	87.12	0.86	4229
Day 12	3096	2759	77.10	0.85	3789	3676	3099	2832	77.72	0.88	3676	4184	3310	3125	87.33	0.87	4184
Day 13	3087	2850	75.63	0.83	3784	3556	2902	2595	71.78	0.84	3556	4043	3210	2828	80.48	0.83	4043
Day 14	3001	2719	74.73	0.85	3682	3924	3117	2850	79.47	0.84	3924	4353	3331	3160	87.51	0.84	4353
Day 15	3005	2721	74.56	0.85	3665	3938	3229	2935	80.83	0.86	3938	4313	3443	3292	<b>89.62</b>	0.87	4313
Day 16	2752	2518	68.90	0.84	3422	3920	3246	2896	80.63	0.86	3920	4183	3500	3346	89.26	0.89	4183
Day 17	3016	2706	76.31	0.84	3802	3955	3236	2939	80.45	0.85	3955	<b>4380</b>	3435	3281	89.15	0.85	4380
Day 18	3036	2781	77.08	0.84	3818	3905	3227	2942	80.84	0.86	3905	4006	3461	3308	86.97	0.90	4006
Day 19	3039	2753	77.05	0.83	3856	3871	3163	2966	80.37	0.86	3871	3910	3214	3126	84.58	0.90	3910
Day 20	3067	2783	77.14	0.83	3864	3743	2952	2722	75.35	0.84	3743	3761	2961	2681	76.05	0.84	3761
Day 21	3087	2753	77.40	0.88	3678	4052	3247	3012	82.82	0.85	4052	4167	3180	2997	84.32	0.84	4167
Day 22	3042	2727	76.31	0.86	3700	4005	3391	3125	83.58	0.87	4005	4329	3353	3198	87.58	0.84	4329
Day 23	2746	2427	67.48	0.86	3271	3984	3285	2951	82.77	0.87	3984	4029	3436	3342	87.88	0.91	4029
Day 24	2910	2590	73.20	0.83	3667	3959	3360	3038	82.61	0.87	3959	3953	3295	3149	85.01	0.90	3953
Day 25	2963	2622	72.93	0.84	3612	3965	3328	3070	83.35	0.88	3965	4131	3220	3119	85.30	0.86	4131
Day 26	2806	2561	69.22	0.84	3447	3927	3261	3023	82.61	0.88	3927	4204	3313	3170	86.29	0.86	4204
Day 27	2929	2507	73.40	0.82	3721	3795	3070	2770	76.95	0.84	3795	3841	3220	2935	80.35	0.87	3841
Day 28	2990	2623	74.67	0.82	3772	3945	3213	2956	82.57	0.87	3945	3776	2971	2883	77.90	0.86	3776
Day 29	2972	2684	75.97	0.86	3702							4032	2961	2877	79.76	0.82	4032
Day 30	2766	2462	70.03	0.84	3477							4175	3227	3144	87.03	0.87	4175
Day 31	3048	2755	79.57	0.85	3903							4294	3328	3203	89.16	0.87	4294

TABLE 32

## PERCENTAGE SALES AND REVENUE - CATEGORY WISE

(All figures in %)

Year	Domestic		Commercial		Industrial LT (incl. Public Water Works)		HT & EHT		Agriculture		Public Lighting		Licensees		Export		Railway Traction	
	Sales	Revenue	Sales	Revenue	Sales	Revenue	Sales	Revenue	Sales	Revenue	Sales	Revenue	Sales	Revenue	Sales	Revenue	Sales	Revenue
2012-13	49.37	29.82	13.21	25.69	6.54	8.13	23.19	29.71	1.82	0.65	1.86	1.31	2.97	3.53	0.01	0.01	1.03	1.14
2013-14	46.32	27.06	11.81	21.08	5.81	6.84	21.39	25.83	1.64	0.57	1.69	1.19	2.77	2.94	7.50	13.40	1.06	1.08
2014-15	49.87	32.15	12.87	21.99	5.84	7.13	22.04	26.13	1.59	0.61	1.84	1.39	2.95	3.17	1.91	6.27	1.09	1.14
2015-16	51.31	35.70	14.12	23.35	5.69	7.12	21.19	26.86	1.44	0.63	1.89	1.49	2.98	3.31	0.28	0.40	1.10	1.15
2016-17	51.18	35.82	14.73	24.55	5.63	6.84	20.55	25.86	1.60	0.92	1.87	1.42	3.05	3.29	0.25	0.11	1.14	1.18
2017-18	50.36	35.80	14.59	23.86	5.30	6.71	21.60	26.75	1.65	0.52	1.78	1.41	2.90	3.19	0.56	0.42	1.27	1.33
2018-19	48.58	35.40	14.41	23.46	4.97	6.07	21.12	26.22	1.51	0.66	1.69	1.32	2.67	2.83	3.69	2.60	1.36	1.43
2019-20	52.38	37.44	15.08	24.15	4.78	5.96	20.32	26.17	1.53	0.69	1.61	1.25	2.71	2.82	0.25	0.14	1.34	1.38
2020-21	56.66	44.96	13.31	21.22	4.85	5.80	17.65	22.06	1.80	0.83	1.68	1.30	2.21	2.34	1.17	0.76	0.67	0.74
2021-22	49.54	38.30	12.93	21.17	4.55	5.61	18.64	23.13	1.46	0.70	1.42	1.12	1.98	2.15	8.18	6.54	1.29	1.28

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

\*\*\* Railway Traction includes KMRL also

**TABLE 33**  
**LIST OF EHT CONSUMERS 2021-22**

Sl. No.	Consumer Code	Name of Consumer	Tariff	Supply Voltage	Contract Demand (KVA)	Recorded MD (Z1) KVA	Recorded MD (Z2)KVA	Recorded MD (Z3)KVA	Annual Consumption (kWh)	Product
1	13/1306	APOLLO TYRES LTD	EHT I (66 kV) INDUSTRIAL	66	10000	10206	9626	9346	59585180	Tyre
2	21/Thr.Corp	ASSISTANT SECRETARY, THRISSUR CORPORATION	Licensee: ThrissurCorporation	110	0	24782	21594	14166.4	92501200	Distribution Licensee
3	21/1029	ASSISTANT SECRETARY, THRISSUR CORPORATION	Licensee: ThrissurCorporation	66	8000	13010.4	12040.8	7718.4	44426800	Distribution Licensee
4	12/941	AUTOKAST LIMITED	EHT II (110 kV) INDUSTRIAL	110	3000	3280	2770	2850	5750000	Fost Gray Iron,& Cast Iron casting
5	31/3416	BELIEVERS CHURCH HOSPITAL AND CAMPUS	EHT GENERAL (C)	110	2000	1726	1488	1284	10043540	Biblical Seminary&CBSE school
6	15/3809	BHARAT PETROLEUM CORPORATION LTD	EHT II (110 kV) INDUSTRIAL	110	2600	2322.96	2266.56	2345.46	12568080	Nil
7	16/1666	BHARATH PETROLEUM CORPORATION,ERNAKULAM	EHT II (110 kV) INDUSTRIAL	110	850	872.1	874.1	841.8	2399000	NIL
8	8/1234	CARBORUNDUM UNIVERSAL LTD,EDAPPALLY	EHT I (66 kV) INDUSTRIAL	66	18000	20110	18654	18714	110579200	BROWN FUSED ALUMINA
9	8/854	CARBORUNDUM UNIVERSAL LTD,KORATTY	EHT II (110 kV) INDUSTRIAL	110	7500	7328	7398	7422	46880850	Abresive grains
10	29/3507	COCHIN INTERNATIONAL AIRPORT	EHT GENERAL (C)	110	9000	5293.35	6192.9	5880	596962.5	air transport
11	21/1135	COCHIN PORT TRUST	Licensee: CPT	110	6500	5944.35	4711.95	4610.4	25348050	
12	2/201	COCHIN REFINERIES LTD	EHT III (220 kV) INDUSTRIAL	220	50000	67360	59840	57760	208454200	Petroleum Products
13	21/845	COCHIN SHIPYARD LIMITED	EHT I (66 kV) INDUSTRIAL	66	8500	7746	6092	5550	32341100	
14	8/4201	COCHIN SPECIAL ECONOMIC ZONE AUTHORITY (CSEZA)	Licensee: CSEZ	110	13000	10462	9038	8510	53946500	LICENSEE
15	5/202	FACT COCHIN DIVISION	EHT II (110 kV) INDUSTRIAL	110	12000	11203.2	9810.4	10416	63483880	FACTOMFOS 20:20
16	5/501	FACT ,UDYOGAMANDAL	EHT II (110 kV) INDUSTRIAL	110	14000	18960	18600	19240	73015300	
17	8/4208	GOVERNMENT MEDICAL COLLEGE	EHT GENERAL (A)	110	1000	830	670	600	3751500	medical college co.op sector
18	1/124	GTN TEXTILES LTD	EHT II (110 kV) INDUSTRIAL	110	4500	3000	2982	2932	20143405	Yarn
19	3/325	HINDALCO INDUSTRIES LTD	EHT II (110 kV) INDUSTRIAL	110	5000	2845.72	2864	3036.2	10349988.2	Aluminium billets & extrusions
20	8/851	HINDUSTAN MACHINE TOOLS LTD	EHT I (66 kV) INDUSTRIAL	66	2900	2455.85	1846.05	2033	2587000	CNC Lathes, Conventional Lathes, Printing Machines
21	11/1141	HINDUSTAN NEWS PRINT LTD	EHT II (110 kV) INDUSTRIAL	110	22000	2440	1620	1480	4652400	Newsprint
22	15/1515	HINDUSTAN ORGANIC CHEMICALS LTD	EHT I (66 kV) INDUSTRIAL	66	8000	5546	5332	5288	28643850	
23	13/1320	INDIAN TELEPHONE INDUSTRIES	EHT I (66 kV) INDUSTRIAL	66	1500	1240	590	460	2227800	ELECTRONIC TELEPHONE EXCHANGES PRINTED CIRCUIT BOARDS, SIM CARDS
24	1/153	INDSIL ELECTROMELTS LTD	EHT I (66 kV) INDUSTRIAL	66	14000	9288	9022	9052	52797705	SILICO MANGANESE
25	33/7178	INFOPARK PHASE-II KAKKANAD	Licensee:Infopark, Cherthala	220	2250	2760	1860	1580	10112600	
26	21/6633	INFOPARK, CHERTHALA	Licensee:Infopark, Cherthala	110	550	390	270	252	634620	
27	3/9049	INOX AIR PRODUCTS PVT LTD	EHT II (110 kV) INDUSTRIAL	110	6700	6269.26	6231.68	6229.92	49995800	
28	18/635	KERALA MINERALS & METALS LTD.	EHT II (110 kV) INDUSTRIAL	110	15000	14341	14346	14097	88981300	Titanium dioxide pigment
29	8/4008	KINESCO POWER&UTILITIES PVT LTD (KPUPL)	Licensee: KPUPL	110	13000	10076	8178	7218	56818500	LICENSEE
30	26/8963	KOCHI METRO RAIL LIMITED	KMRL(Kochi Metro Rail Ltd)	110	3000	2585.1	2644.05	1626.45	7505775	
31	26/7876	KOCHI METRO RAIL PROJECT	KMRL(Kochi Metro Rail Ltd)	110	3000	3165.6	2875	2712.5	3949883	
32	2/3737	KOCHI REFINERIES LTD - PUMPING STATION	EHT I (66 kV) INDUSTRIAL	66	1400	1506	1306.43	1520.48	7487400	water pumping
33	9/333	M/s.PCBL LIMITED	EHT I (66 kV) INDUSTRIAL	66	1500	3380	2026	3312	22750	CARBON BLACK Factamfos Ammonium Sulphate Caprolactam (Final Products)
34	7/716	MADRAS RUBBER FACTORY LTD(MRF)	EHT II (110 kV) INDUSTRIAL	110	10000	8957.25	8633.25	8089.95	50472600	Tyre, Tube, Tyre Repair Materials, Masticated Rubber

Table 33- contd..

**TABLE 33**  
**LIST OF EHT CONSUMERS 2021-22**

Sl. No.	Consumer Code	Name of Consumer	Tariff	Supply Voltage	Contract Demand (KVA)	Recorded MD (Z1) KVA	Recorded MD (Z2)KVA	Recorded MD (Z3)KVA	Annual Consumption (kWh)	Product
35	15/14/1337	MALABAR CEMENTS, WALAYAR (15/14/1337)	EHT II (110 kV) INDUSTRIAL	110	10000	9016	5598	8984	40647900	CEMENT
36	19/4025	PARAGON STEELS PVT. LTD.-UNIT II	EHT II (110 kV) INDUSTRIAL	110	7000	6794.2	6241.8	6733.6	27294200	CTD/TMT BARS - STEEL
37	26/7324	PATSPIN INDIA LTD	EHT II (110 kV) INDUSTRIAL	110	4400	3752	3762	3710	27824500	
38	9/4487	PRECOT LIMITED	EHT II (110 kV) INDUSTRIAL	110	2700	2672	2626	2638	19083300	Cotton yarn(fine),cotton yarn
39	9/731	PRECOT LIMITED (A UNIT)	EHT I (66 kV) INDUSTRIAL	66	4500	4084	4248	4300	28260270	COTTON YARN
40	4/438	PREMIER TYRES LTD	EHT I (66 kV) INDUSTRIAL	66	4750	4120	3798	3470	23105350	Automotive Tyres
41	2/3975	RUBBER PARK INDIA PVT. LTD,IRAPURAM,ERNAKULAM	Licensee: RPL	110	6700	6780	6060	6284	34060740	Licensee (Power given to Various Product Manufacturing companies)
42	8/1140	SAINT GOBAIN INDIA (P) LIMITED	EHT II (110 kV) INDUSTRIAL	110	12000	9268	9184	9048	40617200	
43	30/4748	SOUTHERN RAILWAY,TRACTION SUB STATION,CHINGAVANAM	EHT II (110 kV) RT	110	7000	10140	7830	6720	18959000	Railway Traction
44	30/8080	SOUTHERN RAILWAY,TRACTION SUB STATION,PALAKKAD	EHT II (110 kV) RT	110	8000	10800	10300	9840	27452000	Railway Traction
45	30/8392	SOUTHERN RAILWAY TRACTION UPPALA	EHT II (110 kV) RT	110	5000	6300	7740	5980	11640000	Railway Traction
46	30/7701	SOUTHERN RAILWAY, TRACTION SUB STATION, KANNUR	EHT II (110 kV) RT	110	7000	8560	8300	8310	19966121.5	Railway Traction
47	30/8629	SOUTHERN RAILWAY,PALAKKAD	EHT II (110 kV) RT	110	8000	8980	8400	8100	23192000	Railway Traction
48	30/4462	SOUTHERN RAILWAY,TRACTION SUB STATION, KAZHAKUTTAM	EHT II (110 kV) RT	110	8500	10780	9050	8970	24840000	Railway Traction
49	30/4337	SOUTHERN RAILWAY,TRACTION SUB STATION, PUNNAPRA	EHT II (110 kV) RT	110	5000	5270	0	0	9107000	Railway Traction
50	30/3444	SOUTHERN RAILWAY,TRACTION SUB STATION, SHORANUR	EHT II (110 kV) RT	110	12000	13800	10960	13360	37810000	Railway Traction
51	30/3899	SOUTHERN RAILWAY,TRACTION SUB STATION,KADAVANTHRA	EHT II (110 kV) RT	110	8000	8640	8050	7760	25797000	Railway Traction
52	30/3116	SOUTHERN RAILWAY,TRACTION SUB STATION,KANJIKODE	EHT II (110 kV) RT	110	12500	13550	15540	14320	28134000	Railway Traction
53	30/4619	SOUTHERN RAILWAY,TRACTION SUB STATION,PERINAD	EHT II (110 kV) RT	110	10500	9980	10120	8380	27764000	Railway Traction
54	30/3607	SOUTHERN RAILWAY,TRACTION SUB STATION. CHALAKUDY	EHT II (110 kV) RT	110	9500	9990	8730	10650	33672000	Railway Traction
55	30/8000	SOUTHERN RAILWAY,TRACTION SUBSTATION,,ELATHUR	EHT II (110 kV) RT	110	8000	8290	7690	8540	22591000	Railway Traction
56	7/702	STEEL COMPLEX LTD	EHT II (110 kV) INDUSTRIAL	110	3000	0	0	0	0	Mild Steel Billet
57	2/256	TECHNO PARK	Licensee: Technopark	110	15000	7879.5	5716.8	4221.9	35058000	IT Software firm
58	33/9195	TECHNOCITY	Licensee: Technopark	110	1000	374	266	146	1022400	
59	2/5163	TECHNOPARK PHASE II&III,THIRUVANANTHAPURAM	Licensee: Technopark	110	5000	2938.95	2519.63	2382.75	14513850	IT Software firm
60	6/602	TRANSFORMERS & ELECTRICALS KERALA LTD	EHT I (66 kV) INDUSTRIAL	66	2000	1359.5	1459.7	1333.3	3377000	Power Transformer
61	1/102	TRAVANCORE COCHIN CHEMICALS LTD(TCC)	EHT II (110 kV) INDUSTRIAL	110	26300	23676	23622	23616	161312150	Chemicals
62	1/103	TRAVANCORE TITANIUM PRODUCTS LTD	EHT I (66 kV) INDUSTRIAL	66	3500	2915.3	2076.45	2680.55	12648450	Titanium Dioxide (Anatase Grade)
63	13/1351	TRV(Kerala)International Airport Ltd(TIAL)	EHT GENERAL (C)	66	3000	2299.81	2317.73	2299.81	12747600	AIRPORT
64	7/709	VIKRAM SARABHAI SPACE CENTRE,ISRO,THUMBA	EHT GENERAL (B)	110	12000	11808	4384	3200	31312000	Research Organisation
65	2/502	WESTERN INDIA PLYWOOD LTD	EHT II (110 kV) INDUSTRIAL	110	3500	3027.5	2517.15	2467.85	13097250	Hardboard, Plywood, ,Free compressed ,press board

TABLE 34

## LIST OF EHV AND 33 kV SUBSTATIONS

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
<b>I. 400 kV Substation in operation</b>									
1	Areekode (Kozhikode)		400/220	500	1	500			PGCIL owned
			400/220	315	2	630			
2	Elappully (Palakkad)		400/220	315	2	630			PGCIL owned
3	Kochin East(Ernakulam)		400/220	315	2	630			PGCIL owned
4	Madakkathara(Thrissur )		400/220						PGCIL owned Switching Station
5	North Thrissur HVDC		400/220	315	2	630			PGCIL owned
6	Pallippuram(Trivandrum)		400/220	315	3	945			PGCIL owned
7	Madakkathara	Thrissur	400/220	315	3	945	1993 & 1995	8	KSEBL owned
			220/110	200	3	600			
			110/11	10	2	20			
<b>Total</b>					<b>20</b>	<b>5530</b>		<b>8</b>	
<b>400 kV TRANSMISSION SUBSTATION</b>				<b>7</b>	<b>SWITCH YARD</b>		<b>0</b>	<b>8</b>	
<b>II. 220 kV Substations in operation</b>									
1	Aluva GIS	Kalamassery	220/110	200	2	400	31/03/2021	16	
			110/66	63	2	126	1979		
			110/11	12.5	1	12.5			
			66/11	10	3	30			
2	Ambalamugal (BPCL)	Kalamassery	220/33	50	1	50	Apr-12, May-13	0	
3	Areacode	Malappuram	220/110	160	1	160	May-98	7	
			110/11	12.5	1	12.5			
			110/11	20	1	20	09.10.2021		Replaced one 12.5 MVA with 20 MVA
4	Brahmapuram	Kalamassery	220/110	160	2	320	Nov-99	12	
			110/11	12.5	2	25	03/2019		
			110/33	16	1	16			
5	Chalakkudy	Thrissur	220/110	100	2	200	11.12.2020	9	
			110/66	50	1	50			
			110/33	16	2	32			
			110/11	12.5	2	25			
6	Edamon	Kottarakara	220/110	200	1	200	23.07.2016	5	
			110/66	40	2	80			
			66/11	10	2	20	1978, May-13		
7	Edappon	Alappuzha	220/110	200	2	400	May-09	11	
			110/66	63	2	126			
			110/33	16	2	32	01/03/2019		
			66/11	10	3	30			
8	Elankur		220/110	100	2	200	01/04/2020	4	
			110/11	12.5	2	25	01/03/2020		
9	Kunnamangalam	Kozhikode	220/110	100	2	200			Upgraded 110 kV Substation (09.07.2021)
			110/66	40	2	80	Nov-00	6	
			110/33	16	1	16			newly added tranfr
			66/11	10	2	20	1997		
10	Kalamassery	Kalamassery	220/110	200	3	600	1965	8	
			220/110	120	1	120			
			110/66	63	2	126			
			110/11	20	2	40	21.08.2017 & 16.10.2017		
11	Kaloore	Kalamassery	220/110	160	2	320		13	
			110/66	25	2	50			
			110/33	25	2	50			
			110/11	20	2	40			
			110/11	12.5	1	12.5			
			66/11	10	1	10			
12	Kanhirode	Kannur	220/110	160	2	320	Sep-97	6	
			110/33	16	2	32	Feb-01, Aug-06		
			110/11	10	2	20	Sep-97		
13	Kaniyampetta	Kozhikode	220/66	50	2	100	1994	4	
			66/33	20	2	40			
			66/11	10	2	20			
14	Kothamangalam	Thodupuzha	220/110	100	2	200	15/01/2019		
			110/11	20	2	40		10	
15	Kundara	Kottarakara	220/110	200	2	400	Jan-06	16	
			110/11	12.5	3	37.5			
16	Malaparamba	Malappuram	220/110	100	1	100	Nov-07	7	
			220/110	200	1	200	01/02/2020		
			110/11	12.5	2	25			

Table 34- 220 kV S/s contd..



Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks	
17	Mylatty	Kannur	220/110	100	2	200	Oct-98	9		
			110/11	10	2	20				
			110/11	12.5	1	12.5				
			110/11	31.5	1	31.5			GTR	
18	Nallalam	Kozhikode	220/110	200	2	400	1950	15		
			110/66	40	2	80				
			110/33	16	2	32				
			110/11	20	2	40				
			66/11	10	2	20				
19	New Kattakkada	Thiruvananthapuram	220/110	200	2	400	24.7.2017	0		
			110/11	12.5	1	12.5	01.03.2020			
20	New Pallom	Poovanthuruthu		-	-	-	Nov-99		Switching Station	
				-	-	-				
21	Orkatteri (Vadakara)	Kozhikode	220/110	100	2	200	May-09	5		
			110/11	12.5	2	25	May-09, Feb-14			
22	Palakkad	Palakkad	220/110	160	3	480	May-97, 03/16/2019	20	All 20 are 22kV feeders	
			110/22	25	5	125	May-97, May-12			
23	Pallivasal (Chithirapuram)		220/66	63	1	63	06.05.2022		New Substation;DOC: 19.02.2022	
			66/33	16	1	16	16.09.2021			
			66/11	10	3	30				
24	Pallom	Poovanthuruthu	220/110	200	2	400	1965	11		
			110/66	63	3	189				
			110/11	12.5	1	12.5				01/11/2016
			66/11	16	1	16				
			66/11	10	1	10				
25	Pothencode	Thiruvananthapuram	220/110	200	3	600	1989	14		
			110/11	12.5	3	37.5				
			110/11	10	1	10				
26	Punnappa	Alappuzha	220/110	200	2	400	01/06/2018	9		
			110/66	63	2	126	1984			
			110/33	16	1	16	2008			
			66/11	10	2	20	1984			
27	Shornur	Palakkad	220/110	100	1	100	Jan-04	8		
			220/110	200	1	200				
			110/11	12.5	2	25				
28	Solar Park, Ambalathara	Kannur	220/110	100	2	200	26.05.2020	1		
			220/33	100	2	200	30.08.2017			
			33/11	5	1	5	15.01.2018			
29	Taliparamba	Kannur	220/110	100	2	200	Mar-05	8		
			110/33	16	2	32	Jul-03			
			110/11	10	2	20	May-98			
a	Moolamattom (IDUKKI-GSY)	Gen. Circle, Moolamattom	220/66	50	1	50		4	Switch Yard	
			66/11	10	2	20				
b	Moozhiar (Sabarigiri)	Gen. Circle, Moozhiyar	220/66	50	1	50	1973	2	Switch Yard	
			66/11	4	1	4				
c	Lower Periyar (Switch Yard)	Gen.Circle, Kothamangalam				0			6 nos. 220 kV feeders	
29	Total				170	10942		240	excl. Palakkad 22 kV feeders	
220 kV TRANSMISSION SUBSTATION				29	SWITCH YARD		3	1 new S/s and 1 110 kV upgraded S/s during 2021-22		
<b>III. 110 kV Substations in operation</b>										
1	Adimali	Thodupuzha	110/11	10	2	20	May-99, 08/2018	4		
2	Agastiamoozhi	Kozhikode	110/33	16	1	16	Jan-04	5		
			110/11	12.5	2	25	Mar-14			
3	Ambalappuram	Kottarakara	110/33	16	2	32	Mar-03	6		
			110/11	12.5	2	25				
4	Anchal	Kottarakara	110/11	12.5	2	25	15/06/2020	7		
5	Angamally	Thrissur	110/11	20	2	40	12/2015 07/2017	12		
			110/11	12.5	1	12.5	Feb-14			
6	Arangottukara	Thrissur	110/11	10	1	10	01/02/2019	5		
			110/11	10	1	10				
7	Aroor	Alappuzha	110/66	63	2	126	1994, Jan-05	11		
			110/11	20	1	20	01/09/2018			
			66/11	16	2	32	01/08/2016			
8	Aruvikkara	Thiruvananthapuram	110/11	10	1	10	Aug-98	7		
			110/11	12.5	1	12.5	01/07/2016			
9	Athani	Thrissur	110/33	16	2	32	2001	10		
			110/11	12.5	2	25	1992			
10	Attingal	Thiruvananthapuram	110/66	20	2	40	Mar-05	11		
			110/33	16	2	32	2010, 2012			

Table 34- 110 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
			110/11	12.5	1	12.5			
			66/11	16	1	16	08/2018		
			66/11	10	1	10			
11	Ayarkunnam	Poovanthuruthu	110/11	12.5	2	25	Mar-10	6	
12	Ayathil	Kottarakara	110/11	12.5	3	37.5	Mar-09	13	
13	Ayoor	Kottarakara	110/11	12.5	2	25	5/2020, 02/2020	8	
14	Ayyampuzha	Thrissur	110/11	12.5	1	12.5	May-11	4	
			110/11	10	2	20	01/12/2018		
15	Azhikode	Kannur	110/33	16	2	32	2005/2017	9	
			110/11	12.5	2	25	Apr-00		
16	Balaramapuram	Thiruvananthapuram	110/11	12.5	2	25	04/06/2020 27/08/2020	6	
17	Chakkittapara	Kozhikode	110/11	12.5	1	12.5	Dec-04	6	
			110/11	10	1	10			
18	Chavara	Kottarakara	110/11	12.5	2	25	Mar-10	8	
19	Chelari	Malappuram	110/33	16	2	32	2003, 2009	8	
			110/11	12.5	2	25	Feb-03		
20	Chellanam	Alapuzha	110/11	12.5	2	25	Mar-07	7	
21	Chemperi	Kannur	110/11	12.5	1	12.5	01.06.2020	6	New Substation commissioned on 19.05.2020
			110/11	10	1	10	18.11.2020		
22	Chengalam	Poovanthuruthu	110/11	10	2	20	25.06.1995, Feb-13	9	
			110/11	12.5	1	12.5	01.02.2013		
23	Chengannur	Alapuzha	110/33	16	1	16	01/03/2009	9	
			110/11	12.5	2	25	12/06/1905 18.03.2022		Two 12.5 MVA newly added
			110/11	10	1	10			
24	Cherai	Kalamassery	110/11	12.5	2	25	6/2019, 10/2019	8	
25	Cherpu	Thrissur	110/33	16	1	16	2002	6	
			110/11	12.5	2	25	Dec-00		
26	Cherpulassery	Palakkad	110/11	12.5	2	25	Mar-04	6	
27	Cherupuzha	Kannur	110/11	10	2	20	Jun-98	5	
28	Cheruvathur	Kannur	110/33	16	2	32	Apr-02	6	
			110/11	12.5	1	12.5	01.02.2020		
			110/11	10	1	10	15.01.2021		
29	Chevayur	Kozhikode	110/66	25	2	50	1996	13	
			110/11	20	2	40	10/1/2017,		
30	Chovva	Kannur	110/11	12.5	1	12.5	Dec-10	8	
			110/11	20	2	40	01/08/2020		Replaced 10 MVA
31	Edakkara	Malappuram	110/11	12.5	2	25	10.05.2021	5	Upgraded on 10.05.2021
32	Edappal	Malappuram	110/11	12.5	2	25	Mar-00	7	
33	Edappally	Kalamassery	110/11	12.5	1	12.5	Mar-02	9	
			110/11	20	1	20	01/03/2020		
			110/33	16	2	32	Nov-13		
34	Edarikode	Malappuram	110/33	25	1	25	2021, 2022	9	
			110/11	12.5	3	37.5	01/05/2003		
35	Edathala	Kalamassery	110/11	12.5	3	37.5	27/03/2003	12	upgraded S/s commissioned on 17.02.2021
36	Edathuva	Alapuzha	110/33	16	2	32	Mar-08, 03/2019	6	
			33/11	5	2	10			
37	Edayar	Kalamassery	110/11	12.5	2	25	Apr-00, Dec-13, 10/2018	12	
			110/11	10	1	10	Apr-00		
			66/11	8	1	8			
38	Eramallor	Alappuzha	110/11	12.5	2	25	01/06/2019	6	
39	Eranakulam North	Kalamassery	110/11	12.5	2	25	06/2016, 03/2017	13	
			66/11	10	1	10			
40	Erattupetta	Poovanthuruthu	110/11	12.5	2	25	Apr-01	6	
41	Erumeli	Poovanthuruthu	110/11	12.5	1	12.5	4.5.2017	6	
			110/11	10	1	10			
42	Ezhimala	Kannur	110/11	12.5	1	12.5	Aug-01	3	
			110/11	10	1	10			
43	Gandhi Road (GIS)	Kozhikode	110/11	20	2	40	01/08/2016	13	
44	GIS, Kollam	Kottarakara	110/11	20	2	40	27.03.2017	10	
45	Guruvayoor	Thrissur	110/33	16	1	16	Dec-04	11	
			110/11	20	2	40	31.08.2017 & 22.09.2017		
46	Irinjalakuda	Thrissur	110/33	16	2	32	Aug-03, Mar-06	6	
			110/11	20	1	20	01/12/2018		
			110/11	10	1	10	Dec-00		
47	Iritty	Kannur	110/11	12.5	2	25	Jul-10	6	
			110/33	16	2	32	21.10.2017		

Table 34- 110 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
48	Kadavanthra	Kalamassery	110/11	10	2	20	Aug-97	9	
			110/11	12.5	1	12.5	09/2020		not in service
49	Kalladikode	Palakkad	110/11	12.5	1	12.5	Mar-10	6	
			110/11	10	1	10			
50	Kandanad	Kalamassery	110/11	12.5	1	12.5	Jan-01	9	
			110/11	20	1	20	17.08.2017		
51	Kandassankadavu	Thrissur	110/33	16	2	32	Dec-04, -	7	
			110/11	12.5	2	25			
52	Kanhangad	Kannur	110/33	16	2	32	1993, 09/2016	8	
			110/11	12.5	2	25	1968		
53	Kanjikode	Palakkad	110/66	63	2	126	Jul-10	5	and 4 nos. 22 kV
			66/11	10	2	20			
54	Kanjirappally	Poovanthuruthu	110/11	12.5	2	25	Mar-15/Feb-17	10	
55	Kattakada	Thiruvananthapuram	110/11	10	2	20	1996, Mar-14	10	
			110/11	12.5	1	12.5			
56	Kattoor	Thrissur	110/11	12.5	2	25	Feb-14	6	
57	Kavanadu	Kottarakara	110/11	12.5	2	25	1993	10	
58	Kayamkulam	Alapuzha	110/33	16	1	16	Sep-09	9	
			110/11	12.5	1	12.5	Jun-99		
			110/11	10	2	20			
59	Kilimanoor	Thiruvananthapuram	110/33	16	2	32	2004, 2008	6	
			110/11	10	2	20	Dec-98		
60	Kinaloor	Kozhikode	110/11	12.5	1	12.5		7	
			110/11	10	1	10			
61	Kizhakkambalam	Kalamassery	110/11	12.5	3	37.5	Feb-14	12	
			110/11	10	1	10			
62	Kizhissery	Malappuram	110/33	16	2	32	2001, 2004	8	
			110/11	20	2	40	1990		
63	Kodakara	Thrissur	110/11	12.5	2	25	Apr-01, Jan-14	4	
64	Kodimatha	Poovanthuruthu	110/11	12.5	1	12.5	20.02.2016	9	
			110/11	10	1	10			
65	Kodungallur	Thrissur	110/11	12.5	2	25	09/2019, 8/1/2019	6	
66	Koduvally	Kozhikode	110/11	12.5	2	25	Oct-09	6	
67	Kollengode	Palakkad	110/33	16	2	32	Dec-03	6	
			110/11	12.5	1	12.5	2021		
			110/11	10	1	10	17.11.2020		
68	Koodal	Pathanamthitta	110/11	12.5	2	25	May-13	6	
69	Koothattukulam	Poovanthuruthu	110/11	12.5	1	12.5	28.02.2022	5	New Substation 2020-21
			110/66	40	1	40	01.12.2021		
			66/11	10	1	10	20.06.2014		
			66/11	6.3	1	6.3	1973		
70	Koottanad	Palakkad	110/33	16	2	32	Jun-02	8	
			110/11	12.5	2	25	Mar-00		
71	Koppam	Palakkad	110/33	16	2	32	2002	10	
			110/11	12.5	2	25	Oct-13, 1995		
72	Kottarakara	Kottarakara	110/11	12.5	2	25	Dec-04	6	
73	Kottiyam	Kottarakara	110/33	16	2	32	2010	7	
			110/11	12.5	2	25	May-98		
74	Kozhenchery	Pathanamthitta	110/11	12.5	1	12.5	08.02.2021	8	
			110/11	10	2	20	9/1/2017, 2012		
75	Kozhinjampara	Palakkad	110/33	16	2	32	2009	6	
			110/11	12.5	2	25	Sep-08		
76	Kubanoor	Kannur	110/11	12.5	2	25	1983, 09.03.2022	4	One 12.5 MVA newly added
			110/33	25	2	50	05.04.2021		newly added
77	Kunnamkulam	Thrissur	110/33	16	1	16	Feb-05	9	
			110/11	12.5	3	37.5	May-04		
78	Kurumassery	Kalamassery	110/33	16	2	32	Dec-00	1	
			33/11	5	1	5			
79	Kuthungal	Thodupuzha	110/33	16	1	16	Mar-14	2	
			33/11	5	1	5	Mar-14		
80	Kuthuparamba	Kannur	110/11	12.5	2	25	1990	6	
81	Kuttikatooor	Kozhikode	110/11	12.5	1	12.5	1974	11	
			110/11	20	1	20	10/05/2020		
82	Kuttiapuram	Malappuram	110/11	20	2	40	13.05.2020,-	11	
			110/33	16	2	32	Mar-14 07.09.2020		
83	Kuttiyadi	Kozhikode	110/33	16	1	16	2012	6	
			110/11	12.5	2	25	1990, 23.11.17		
84	Mala	Thrissur	110/11	12.5	2	25	01.09.2019 30.11.2020	7	
85	Malampuzha	Palakkad	110/11	10	2	20	1994	8	
			110/33	16	1	16			

Table 34- 110 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
86	Malappuram	Malappuram	110/33	16	1	16	2001	10	
			110/11	12.5	3	37.5	1976		
87	Malayattur	Thrissur	110/33	16	2	32	Mar-05	6	
			110/11	10	2	20	Jun-05		
88	Mallappally	Pathanamthitta	110/33	16	1	16	Dec-03	8	
			110/11	12.5	1	12.5	May-00		
			110/11	10	1	10			
89	Mangad	Kannur	110/11	12.5	2	25	1976	9	
90	Manjeri	Malappuram	110/11	20	2	40	3.01.2018	7	
91	Manjeswaram	Kannur	110/11	12.5	1	12.5	May-97	5	
			110/11	10	1	10			
92	Mankada	Malappuram	110/11	10	1	10	30/09/2015	4	Upgraded S/s commissioned on 20.03.2021
			110/11	12.5	1	12.5	01.12.2021		newly added
93	Mankavu	Kozhikode	110/11	20	2	40	07.04.2020, 21.12.2021	9	Upgraded S/s commissioned on 07.04.2020 One 20 MVA newly added
			110/66	40	1	40			
94	Mannarkkad	Palakkad	110/33	16	2	32	Oct-01	7	
			110/11	10	1	10	1990		One 10 MVA replaced with 12.5 MVA
			110/11	12.5	1	12.5	09/08/2015		
95	Mannuthy	Thrissur	110/11	12.5	1	12.5	05-2021		New Substation 2021-22
96	Marady	Thodupuzha	110/11	12.5	2	25	01.2021, 05.2021	7	Upgraded S/s commissioned on 26.01.2021 One 12.5 MVA newly added
97	Mattanchery	Kalamassery	110/66	25	2	50	Apr-02	11	
			66/11	10	3	30	1972, 1/2009, 05/2020		8 MVA replaced with 10 MVA
98	Mattanur	Kannur	110/33	16	2	32	Jul-10	6	
			110/11	12.5	2	25	Jul-10		
99	Mavelikkara	Alappuzha	110/66	40	2	80	Dec-09	9	
			66/11	10	3	30	Dec-09		
100	Medical College	Thiruvananthapuram	110/11	12.5	1	12.5	May-98	8	
			110/11	20	1	20	01/10/2018		
			110/33	16	2	32	15.05.2017, 20.12.2021		One 16 MVA newly added
101	Melattur	Malappuram	110/33	16	2	32	Jan-06	5	
			110/11	12.5	2	25	,05/2019		
102	Meppayur	Kozhikode	110/33	16	2	32	Aug-04	4	
			110/11	10	1	10			
			33/11	5	1	5			
103	Mulleria	Kannur	110/33	16	2	32		6	
			110/11	10	2	20	Mar-01,-,-		
104	Mundakkayam	Poovanthuruthu	110/11	12.5	2	25	09.11.2018	6	
			110/66	50	1	50			
			110/33	16	1	16	07/2021		
105	Mundayadu	Kannur	110/33	16	2	32	2001	9	
			110/11	12.5	2	25	1966		
			110/11	10	1	10	01/09/2019		
106	Muttathara	Thiruvananthapuram	110/11	12.5	2	25	01/05/2020, 03.2021	1	New Substation commissioned on 28.05.2020
107	Muttom	Thodupuzha	110/11	12.5	2	25	22.01.2018	4	
108	Muvattupuzha	Thodupuzha	110/33	16	2	32	2004	13	
			110/11	12.5	3	37.5	1989, Dec-13		
109	Myloor (Pothanikad)	Thodupuzha	110/11	12.5	2	25	Mar-10	5	
110	Nadapuram	Kozhikode	110/33	16	1	16	Dec-13	6	
			110/11	12.5	2	25	Feb-01		
111	Nedumangadu	Thiruvananthapuram	110/33	25	2	50	03/2019	9	
			110/11	12.5	2	25	07/2018, 01/2021		
112	Nedumpoil	Kannur	110/11	10	1	10	1. April 2019	4	
			66/11	10	1	10	1. December 2019		
			110/33	16	1	16	01/07/2019		
113	Nenmara	Palakkad	110/11	10	1	10		6	Upgraded S/s commissioned on 17.02.2021
114	New Vytila	Kalamassery	110/11	12.5	2	25	Dec-09	9	
115	Neyyattinkara	Thiruvananthapuram	110/11	12.5	3	37.5		9	newly added trasnfr 2 nos. Substation upgraded
116	Nilambur	Malappuram	110/11	12.5	2	25	10.05.2021	7	66 kV S/s Upgraded 2021-22
			110/33	16	1	16	10.05.2021		

Table 34- 110 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
117	North Paravur	Kalamassery	110/33	16	2	32	27.06.1905	8	
			110/11	12.5	2	25	1989 15.02.2021		10 MVA replaced with 12.5 MVA
118	Ollur	Thrissur	110/33	16	2	32	2001	12	
			110/11	12.5	3	37.5	Jan-01, Sep-13, Apr-17		
119	Ottapalam	Palakkad	110/11	12.5	1	12.5	1989, 26/11/2004	7	
			110/11	10	1	10			
120	Pala	Poovanthuruthu	110/66	40	2	80	1985	9	
			110/33	16	2	32	2009		
			66/11	10	2	20	1985		
121	Pampady	Poovanthuruthu	110/11	12.5	2	25	27.01.16 29.04.16	9	
122	Panangad	Kalamassery	110/11	12.5	2	25	28/05/2012	7	
123	Panoor	Kannur	110/33	16	2	32	2003	5	
			110/11	10	2	20	1994		
124	Parali	Palakkad	110/33	16	2	32	2005	6	
			110/11	10	2	20	1988		
125	Parappanagadi	Malappuram	110/11	12.5	2	25	30.12.2016	6	
126	Parassala	Thiruvananthapuram	110/33	16	2	32	2008	7	
			110/11	12.5	2	25	May-00		
127	Parippally	Kottarakara	110/33	16	1	16	Nov-13	9	
			110/11	12.5	2	25	Sep-10		
128	Paruthippara	Thiruvananthapuram	110/66	63	2	126	1978	15	
			110/11	20	3	60			
129	Pathanamthitta	Pathanamthitta	110/33	16	2	32	2003	13	
			110/11	12.5	2	25	1999, Aug-14		
			110/11	10	1	10	01.11.2021		newly added
130	Pathanapuram	Kottarakara	110/11	12.5	2	25	Sep-09	8	
131	Pathirippala	Palakkad	110/11	12.5	1	12.5	Oct-13	4	
			110/11	10	1	10	Aug-11,		
132	Pattambi	Palakkad	110/11	12.5	2	25	22.08.2021	4	New Substation commissioned on 24.08.2021
			110/33	16	1	16	22.08.2021		
133	Payyangadi	Kannur	110/11	12.5	2	25	Dec-97	6	
134	Payyannur	Kannur	110/33	16	1	16	June-05	9	
			110/11	12.5	2	25	Apr-81		
135	Pazhayannur	Thrissur	110/11	12.5	1	12.5	Apr-97	5	
			110/11	10	1	10			
136	Perinadu	Kottarakara	110/11	12.5	2	25	08-02-16	6	
137	Perinthalmanna	Malappuram	110/11	20	2	40	31.03.2017, 22.01.2018	13	
138	Perumbavoor	Thodupuzha	110/33	16	1	16	Jun-03	10	
			110/11	20	1	20			
			110/11	12.5	1	12.5			
			66/11	10	1	10			
139	Pinarayi	Kannur	110/33	16	2	32	Mar-01	6	
			110/11	12.5	1	12.5	16.10.2020		
140	Piravom	Thodupuzha	110/11	12.5	1	12.5	01/03/2014	11	
			110/11	10	2	20			
141	Ponnani	Malappuram	110/11	12.5	2	25	Jan-03	6	
142	Pudukkad	Thrissur	110/11	12.5	2	25	18-5-2015 31-7-2015	7	
143	Pullazhy	Thrissur	110/11	20	2	40	Mar-08	8	
144	Punalur	Kottarakara	110/11	12.5	2	25	Jan-03	11	
145	Punnayurkulam	Thrissur	110/11	12.5	2	25	Aug-05	7	
146	Quilandy	Kozhikode	110/33	16	1	16	2002	7	
			110/11	10	1	10	1985		
			110/11	20	1	20	27/10/2015		
147	Ranni	Pathanamthitta	110/11	12.5	2	25	Mar-01	9	
			110/33	16	1	16	01.11.2016		
148	Rayonpuram	Thodupuzha	110/11	12.5	2	25	Sep-11, Nov-13	8	
			110/33	16	1	16			
149	S.L. Puram (Kanjikuzhi)	Alappuzha	110/11	12.5	2	25	Aug-09	8	
150	Sasthamcotta	Kottarakara	110/66	20	1	20	1993	10	
			110/11	12.5	1	12.5			
			110/11	10	2	20			
			110/66	50	1	50			
151	Sreekantapuram	Kannur	110/11	12.5	2	25	07/2019	7	
152	Technopark (Kazhakuttam)	Thiruvananthapuram	110/11	20	4	80	11.06.2020	12	
			110/33	16	2	32	01.12.2021		newly added
153	TERLS	Thiruvananthapuram	110/66	40	1	40	Nov-04	10	
			110/11	12.5	2	25			

Table 34- 110 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
154	Thalassery	Kannur	110/11	12.5	2	25	1990	12	
155	Thambalamanna	Kozhikode	110/33	16	2	32	01.06.2020, 25.09.2021	3	One 16 MVA newly added
			33/11	5	2	10	Oct-09		
156	Thirumala	Thiruvananthapuram	110/66	63	1	63	Aug-00	17	
			110/33	16	2	32	01-04-2012/ 05.06.2015		
			110/11	20	3	60	09.01.2011 01.2018 22.07.2011		
157	Thiruvalla	Pathanamthitta	110/11	20	1	20		9	
			66/11	10	2	20	2010		
158	Thrikodithanam	Poovanthuruthu	110/11	12.5	2	25	Mar-08	6	
			110/33	16	1	16	Feb-13		
159	Thycattussery	Alappuzha	110/33	16	2	32	2008	8	
			110/11	10	1	10	Dec-03		
			110/11	20	1	20	08.01.2021		
160	Tirur	Malappuram	110/11	12.5	1	12.5	Apr-00	12	
			110/11	20	2	40			
161	Udumbannoor	Thodupuzha	110/33	16	2	32	Apr-05	4	
			33/11	5	2	10	Dec-05		
162	Vadakara	Kozhikode	110/33	16	1	16	2008	10	
			110/11	10	2	20			One 10 MVA newly added
			110/11	12.5	1	12.5	1970		replaced one 12.5 MVA with 10 MVA
163	Vadakkanchery	Palakkad	110/33	16	2	32	2006, 2010	7	
			110/11	12.5	2	25	'Mar-99 10.07.2019		
164	Vaikom	Poovanthuruthu	110/66	40	1	40	1971	8	
			110/33	16	1	16	2009		
			110/11	12.5	1	12.5	01/07/2013		
			110/11	10	2	20			
165	Valapad	Thrissur	110/33	16	2	32	Dec-05	9	
			110/11	10	3	30	Dec-00		
166	Valiavelicham	Kannur	110/11	12.5	2	25	27.03.2018, 09.03.2022	3	One 12.5 MVA newly added
			110/66	40	1	40			
167	Varkala	Thiruvananthapuram	110/11	10	2	20	Oct-06, Jun-14	11	
			110/11	12.5	1	12.5			
			110/33	16	1	16			
168	Veli	Thiruvananthapuram	110/11	20	2	40	28.03.2018	9	
			110/66	40	1	40			
169	Vennakkara	Palakkad	110/33	16	2	32		12	2021-22 upgraded
			110/11	20	2	40			newly added 2 trasnfr
170	Vidhya Nagar	Kannur	110/33	16	2	32	11.08.1974, 29.04.17	10	
			110/11	20	2	40			
171	Viyyur	Thrissur	110/66	63	2	126	1998	9	
			110/33	16	2	32	2007		
			110/11	12.5	2	25	1998		
172	Vyttila	Kalamassery	110/66	63	1	63	May-05	9	
			110/66	40	1	40			
			110/11	12.5	1	12.5			
173	Wadakkanchery	Thrissur	110/33	16	1	16	Dec-05	6	
			110/11	12.5	2	25			
174	Walayar	Palakkad	110/22	25	1	25	Mar-11	6	6 nos. 22 kV feeders
			110/22	10	1	10			
175	West Hill	Kozhikode	110/11	12.5	3	37.5	June/1905	14	
176	Willington Island	Kalamassery	110/11	10	2	20	Nov-97	6	
177	Mahe (Pondichery Govt.)		110/11	10	2	20			Pondichery Govt. (not owned by KSEBL)
a	Idamalayar	Gen. Circle, Kothamangalam	110/11	10	1	10			
b	Kakkad	Gen. circle, Moozhiyar	110/11	12.5	2	25	1999	3	Switch yard
c	Kakkayam	Kozhikode	110/11	12.5	2	25	Sep-12, May-14	2	Switch yard
d	Neriamangalam	Gen. circle, Meencut	110/11	10	1	10		4	Switch yard
e	Panniyar	Gen. circle, Meencut	110/11	18	2	36			Switch yard
f	Poringalkuthu	Gen. circle, Thrissur	110/11	10	1	10			Switch yard
g	Sengulam	Gen. circle, Meencut	110/66	40	1	40			Switch yard
			110/66	25	1	25			
h	Sholayar	Gen. circle, Thrissur	110/11	10	1	10	19.05.1905	2	Switch yard
176	Total				560	8593.8		1368	
	110 kV TRANSMISSION SUBSTATION		176	SWITCHYARD	8	Kunnamangalam 110 kV S/s upgraded during 2021-22			
<b>IV. 66 kV Substations in operation</b>									
1	Adoor	Pathanamthitta	66/11	10	2	20	1979	10	
			66/11	7.5	1	7.5			

Table 34- 66 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
2	Alappuzha	Alappuzha	66/11	10	1	10	2005	10	
			66/11	16	2	32	7/2016, 02/2019		
3	Ambalavayal	Kozhikode	66/11	10	1	10		6	New Substation commissioned on 13.02.2021
4	Anju Kunnu	Malappuram	66/11	5	1	5	Nov-12	3	
			66/11	10	1	10	13.6.17		
5	Chandranagar (Palakkad Medical College)	Palakkad	66/11	10	2	20	28.03.2016	7	
6	Changanassery	Poovanthuruthu	66/11	10	3	30	1979	10	
7	Cherthala	Alappuzha	66/11	10	3	30	1968	10	
8	Chittoor	Palakkad	66/11	10	2	20	1990	7	
9	Chumathra	Pathanamthitta	66/11	10	2	20	1989	8	
10	Cyber Park	Kozhikode	66/11	10	1	10	01.06.2017	2	
			66/11	16	1	16			
11	Enathu	Pathanamthitta	66/11	10	1	10			
12	Ettumanoor	Poovanthuruthu	66/11	10	3	30	1965	10	
13	Fort Kochi (GIS)	Kalamassery	66/11	10	2	20	12/1/2006	6	
14	Gandhinagar	Poovanthuruthu	66/11	10	3	30	1987	9	
15	Kakkanad (CEPZ)	Kalamassery	66/11	16	2	32	1987	14	
			66/11	10	1	10	10/06/1999		
16	Kannampully	Palakkad	66/11	10	1	10	2021	4	
17	Karimanal	Thodupuzha	66/11	6.3	2	12.6	1987	3	
18	Karukutty	Thrissur	66/11	10	2	20	1971	9	
19	Karunagappally	Kottarakara	66/11	10	3	30	1994	11	
20	Karuvatta	Alappuzha	66/11	10	2	20	1972	6	
21	Kattanam	Alappuzha	66/11	10	2	20	11/1/2019, 02/2020	4	
22	Kattappana	Thodupuzha	66/11	10	2	20	06/05	7	
23	Kochu pampa	Pathanamthitta	66/11	4	2	8	01/12/1998	4	
24	Kottayam (Kanjikuzhy)	Poovanthuruthu	66/11	10	3	30	05/05	11	
25	Kulamavu	Thodupuzha	66/11	6.3	1	6.3	1967	4	
26	Kuravilangad	Poovanthuruthu	66/11	10	2	20		7	
27	Kuthumunda	Kozhikode	66/11	10	2	20	Prior nos. to Ist plan	7	
28	Kuttanadu	Alappuzha	66/11	10	2	20	1973	8	
29	L A Complex (GIS)	Thiruvananthapuram	66/11	16	2	32	05/05	8	
30	Mananthavady	Kozhikode	66/11	10	2	20	1955	6	
31	Marine Drive GIS	Kalamassery	66/11	16	2	32	01/11/2007	8	
32	Mavoor (Ambalaparamba)	Kozhikode	66/11	10	2	20	30.12.17	4	
33	Mulavukadu	Kalamassery	66/11	6.3	2	12.6	01/02/2001	3	
34	Nangiarkulangara	Alappuzha	66/11	10	3	30	1990, 12.11.14	10	
35	Nedumkandom	Thodupuzha	66/33	20	1	20	2006	5	
			66/11	8	1	8			
			66/11	10	1	10	01/06/2018		
36	Njarakkal	Kalamassery	66/11	10	2	20	1973	9	
			66/11	16	1	16	01/03/2019		
37	NPOL (Thrikkakara)	Kalamassery	66/11	10	1	10	1990	13	
			66/11	16	2	32	01/05/2019		
38	Odakkali	Thodupuzha	66/11	10	2	20	31.03.2018	5	Transformer Replacement
39	Palode	Thiruvananthapuram	66/11	10	2	20	2010	6	
40	Panamally Nagar	Kalamassery	66/11	10	2	20	1989	6	
41	Pathirappally	Alappuzha	66/11	10	2	20	1978	9	
42	Peerumedu	Thodupuzha	66/33	16	1	16	2009	7	
			66/11	10	2	20			
43	Perumanoor (Shipyard)	Kalamassery	66/11	16	2	32	1972	11	
			66/11	12.5	1	12.5			
44	Powerhouse (GIS)	Thiruvananthapuram	66/11	16	2	32	Jan-05	8	
45	Puthencruz	Kalamassery	66/11	10	3	30	1984	10	
46	Puthiyara (GIS)	Kozhikode	66/11	16	2	32	Mar-04	8	
47	Sultan Bathery	Kozhikode	66/11	10	1	10	1986	6	
			66/11	6.3	1	6.3			
48	Thamarassery	Kozhikode	66/11	10	2	20	1965	7	
49	Thenmala	Kottarakara	66/11	6.3	1	6.3	04/10/2015	5	
			66/11	10	1	10			
50	Thodupuzha	Thodupuzha	66/11	10	3	30	1980	11	
51	Thriveni	Pathanamthitta	66/11	10	2	20	19.03.2021	6	
52	Tripunithura	Kalamassery	66/11	10	2	20	07.02.2018,	6	
53	Vandiperiyar	Thodupuzha	66/11	10	2	20	1990	4	
			66/33	16	1	16	01.02.2019		
54	Vattiyoor kavu	Thiruvananthapuram	66/11	10	2	20	Nov-04	10	
55	Vazhathoppu	Thodupuzha	66/11	10	1	10	01/01/2013	7	
			66/11	8	1	8	1966		
56	Vizhinjam	Thiruvananthapuram	66/11	10	2	20	1976	10	

Table 34- 66 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
57	Vaiga		66/11	10	1	10			Not owned by KSEB
			66/11	6.3	1	6.3			
a	Pallivasal	Gen. circle, Meencut	66/11	10	3	30	1940, Feb-12	9	Switch yard
57	<b>Total</b>				<b>131</b>	<b>1389.40</b>		<b>414</b>	
	<b>66 kV TRANSMISSION SUBSTATION</b>		<b>56</b>	<b>SWITCH YARD</b>	<b>1</b>	<i>Edakkara, Nilambur, Koothattukulam 66 kV S/s upgraded</i>			
<b>V. 33 kV Substations in operation</b>									
1	Adichanalloor	Kottarakara	33/11	5	2	10	Mar-10	5	
2	Agali	Palakkad	33/11	5	3	15	Dec-02, 2003,	4	
3	Alakkode	Kannur	33/11	5	2	10	Nov-09	4	
4	Alanallur	Palakkad	33/11	5	2	10	May-04	4	
5	Alangad	Kalamassery	33/11	5	1	5	Aug-09	4	
			33/11	8	1	8	30/11/2011		
6	Alathur	Palakkad	33/11	5	2	10	Jul-06	3	
7	Ananthapuram	Kannur	33/11	8	2	16	27.07.17 & 17.08.17	5	
8	Anchangadi	Thrissur	33/11	5	2	10	Mar-05	4	
9	Annamanada	Kozhikode	33/11	5	2	10	Aug 2, 2016	5	
10	Anthikad	Thrissur	33/11	5	1	5	Aug-09	2	
11	Aryanad	Thiruvananthapuram	33/11	5	2	10	31.03.2018	2	
12	Badiadka	Kannur	33/11	5	2	10	Mar-09	3	
13	Balusseri	Kozhikode	33/11	5	2	10	Apr-02	4	
				8	1	8	01/09/19		
14	Belur	Kannur	33/11	5	2	10	Mar-08, 17.3.15	3	
15	Blangad	Thrissur	33/11	5	2	10		4	
16	Challisseri	Palakkad	33/11	5	2	10	Mar-03	4	
17	Chavakkad	Thrissur	33/11	5	2	10	Dec-04	4	
18	Chelakkara	Thrissur	33/11	5	2	10	Jan-08	4	
19	Chengamanad	Kottarakara	33/11	5	2	10	May-06, Jan-13	4	
20	Chirakkal	Thrissur	33/11	5	1	5	Dec-05	2	
21	Chittadi	Palakkad	33/11	5	2	10	Nov-10	4	
22	Chullimanoor	Thiruvananthapuram	33/11	5	2	10	Mar-09	3	
23	Dharmadam	Kannur	33/11	5	2	10	2008	4	
24	Edavanna	Malappuram	33/11	5	2	10	May-04	4	
25	Erumapetty	Thrissur	33/11	5	2	10	Sep-01	3	
26	Ezhukone	Kottarakara	33/11	5	2	10	Mar-08	4	
27	Feroke	Kozhikode	33/11	8	2	16	30.12.2021, 07.12.2021	4	New transformers
28	Kadackal	Thiruvananthapuram	33/11	5	3	15	Dec-04	3	
29	Kadakkavoor	Thiruvananthapuram	33/11	8	2	16	Nov-12	3	
30	Kadapra	TD, Pathanamthitta	33/11	5	2	10	17.06.2016	2	
31	Kaduthurathy	Poovanthuruthu	33/11	5	1	5	Nov-09	2	
32	Kaipamangalam	Thrissur	33/11	5	2	10	May-05	3	
33	Kalady	Thrissur	33/11	5	3	15	Dec-04, Aug-13	4	
34	Kalarcode	Alappuzha	33/11	5	2	10	01/07/2019	7	
35	Kalikavu	Malappuram	33/11	5	2	10	Mar-10 31.03.2021	2	
36	Kallambalam	Thiruvananthapuram	33/11	5	2	10	Jul-08	3	
37	Kallara	Poovanthuruthu	33/11	5	2	10	18.03.2017 25.02.2020		
38	Kalletumkkara	Thrissur	33/11	5	2	10	Nov-05	3	
39	Kalloorkadu	Thodupuzha	33/11	5	1	5	Mar-09	3	
			33/11	8	1	8	14.03.2022		5 MVA enhanced with 8 MVA
40	Kalpachery	Malappuram	33/11	5	2	10	31.3.17	3	
41	Kalpetta	Kozhikode	33/11	5	1	5	Nov-04	4	
			33/11	8	1	8	2019		
42	Kanhangad town	Kannur	33/11	5	2	10	31.05.2016	3	
43	Kannanalloor	Kottarakara	33/11	5	2	10	Mar-13	4	
44	Kannur town	Kannur	33/11	5	2	10	Jul-10	2	
45	Karamana	Thiruvananthapuram	33/11	8	2	16	Apr-12, Jan-14	2	
46	Karukachal	Poovanthuruthu	33/11	5	2	10	Sep-11	4	
47	Kasargod town	Kannur	33/11	8	2	16	27.01.17	4	
48	Katchery	Thiruvananthapuram	33/11	5	2	10	07.10.2017	4	
49	Kelakam	Kannur	33/11	5	2	10		2	
50	Kidangoor	Poovanthuruthu	33/11	5	2	10	Oct-10	3	
51	Kinfra	Malappuram	33/11	5	2	10	Jul-03	2	
52	Kodiyeri	Kannur	33/11	5	2	10	Mar-07	3	
53	Koduvayur	Palakkad	33/11	5	3	15	Dec-03	3	
54	Kongad	Palakkad	33/11	5	2	10	Dec-05	4	
55	Kongannur	Thrissur	33/11	8	2	16	Apr-07	4	
56	Konni	Pathanamthitta	33/11	5	2	10	Mar-08	3	
57	Kooriyad (Kakkad)	Malappuram	33/11	8	2	16	16.11.17 & 06.12.17	3	
58	Koottikkal	Poovanthuruthu	33/11	5	1	5	28.01.2016	2	
59	Koovappady	Thodupuzha	33/11	8	2	16	Mar-09	4	

Table 34- 33 kV S/s contd..



Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
60	Koratty	Thrissur	33/11	5	2	10	Jan-09	5	
61	Kumbanad	Pathanamthitta	33/11	5	2	10	Feb-14	3	
62	Kumily	Thodupuzha	33/11	5	2	10	Feb-2019	4	
63	Kuruppambady	Thodupuzha	33/11	8	2	16	Aug-03	4	
64	Kuthiathode	Alappuzha	33/11	5	3	15	Mar-08	3	
65	Kuttiyattur	Kannur	33/11	5	2	10	Feb-01	4	
66	Makkaraparamba	Malappuram	33/11	8	2	16	May-04	4	
67	Maniampara	Palakkad	33/11	5	2	10	Jul-06	4	
68	Manimala	Poovanthuruthu	33/11	5	2	10	27.05.17	3	
69	Mannar	Alappuzha	33/11	5	3	15	Mar-09 20.12.2018	4	
70	Marayoor	Thodupuzha	33/11	5	1	5	Sep-2021	1	New Substation 2021-22
71	Maruthur (Pattambi)	Palakkad	33/11	5	3	15	23.03.2000 Jan-02	4	Renamed Pattambi 33 kV as Maruthur
72	Mazhuvanoor	Thodupuzha	33/11	8	2	16	20.01.2022	3	New transformers
73	Meenakshipuram	Palakkad	33/11	5	2	10	Mar-10	2	
74	Meenangady	Kozhikode	33/11	5	1	5	Oct-04	3	
			33/11	8	1	8			
75	Melady	Kozhikode	33/11	8	1	8	Jun-08	3	
				5	1	5	29.08.17		
76	Methala	Thrissur	33/11	5	2	10	Mar-14	2	
77	Mullassery	Thrissur	33/11	5	2	10	Feb-06	3	
78	Mulloorkara	Thrissur	33/11	5	2	10	Jan-08	3	
79	Mundur	Thrissur	33/11	5	3	15	Mar-01	4	
80	Muthalamada	Palakkad	33/11	5	2	10	Dec-03	3	
81	Nadukani	Kannur	33/11	8	2	16	09.10.2020	4	
82	Neeswaram	Kannur	33/11	5	2	10	Mar-07	4	
83	Nelliampathy	Palakkad	33/11	5	1	5	Jun-05	2	
84	Ochira	Kottarakara	33/11	8	2	16	01.09.2020	4	2x5mVA replaced with 2x8MVA
85	Olavakode	Palakkad	33/11	5	2	10		4	newly added
86	Othukkungal	Malappuram	33/11	5	2	10	Mar-09	2	
87	Padinjarethara	Kozhikode	33/11	5	2	10	Nov-04	3	
88	Paika	Poovanthuruthu	33/11	5	3	15	Mar-10 2016	5	
89	Palakkal	Thrissur	33/11	5	2	10	Mar-08	3	
90	Pallassena	Palakkad	33/11	5	2	10	Sep-11	3	
91	Pandalam	Kollam	33/11	5	2	10	28.03.2019	6	
92	Parappukara	Thrissur	33/11	5	2	10	Aug-03	4	
93	Parappur	Thrissur	33/11	5	2	10	Oct-08	4	
94	Paravoor	Kottarakara	33/11	5	2	10	Nov-12	4	
95	Pariyaram	Thrissur	33/11	5	2	10	Jul-03	4	
96	Pariyaram	Kannur	33/11	5	2	10	Mar-07	4	
97	Pattikadu	Thrissur	33/11	5	2	10	Aug-03	2	
98	Pattoor	Thiruvananthapuram	33/11	5	2	10	18.05.17	1	
99	Payannur town	Kannur	33/11	5	2	10	Aug-06	3	
100	Pazhassi	Kannur	33/11	5	2	10	Aug-06	4	
101	Perambra	Kozhikode	33/11	5	2	10	27.3.2017	4	
102	Perla	Kannur	33/11	5	2	10	Mar-09	3	
103	Perumthenaruvu	Pathanamthitta	33/11	5	1	5	02.06.2018		
104	Peyad	Thiruvananthapuram	33/11	5	2	10	Mar-13	3	
105	Pookkottumpadam	Malappuram	33/11	5	2	10	Aug-13	2	
106	Poomala	Thrissur	33/11	5	2	10	Mar-07	3	
107	Poovar	Thiruvananthapuram	33/11	5	1	5	16.7.14	5	
			33/11	8	2	16			
108	Pooyappally	Kottarakara	33/11	5	2	10	Sep-10	4	
109	Pothukallu	Malapuram	33/11	5	1	5	Aug-2020	2	
110	Pulamanthole	Malappuram	33/11	5	2	10	Nov-04 31.03.2021	2	
111	Pulpally	Kozhikode	33/11	5	2	10	Dec-04, 4.3.15	2	
112	Puthenvelikara	Kalamassery	33/11	5	2	10	May-06	4	
113	Puthiyatheruvu	Kannur	33/11	5	2	10	Feb-01	3	
114	Puthur	Thrissur	33/11	5	2	10	Mar-01	4	
115	Puthur	Kottarakara	33/11	5	2	10	Aug-10	3	
116	Puthur	Kannur	33/11	5	2	10	Mar-03	3	
117	Rajapuram	Kasargod	33/11	5	2	10		4	
118	Ramanattukara	Kozhikode	33/11	5	2	10	Nov-09	4	
119	Ramapuram	Poovanthuruthu	33/11	5	2	10	Oct-09, 25.6.14	4	
120	Ranni-Perunad	Pathanamthitta	33/11	5	2	10	Jan-11	4	
121	Senapathy	Thodupuzha	33/11	5	2	10	Oct-14	2	
122	Sreekrishnapuram	Palakkad	33/11	5	2	10	Jan-06	4	
123	Tarur	Palakkad	33/11	5	2	10	Apr-10	3	
124	Thakazhy	Alappuzha	33/11	5	2	10	Oct-08	2	

Table 34- 33 kV S/s contd..

Sl. No	Name of substation	Transmission Circle	Voltage Ratio (kV)	Capacity (MVA)	No.in each capacity	nos. total Capacity	Year of Commissioning	No. of 11 kV Feeders	Remarks
125	Thammanam	Kalamassery	33/11	5	2	10	17.02.2018	3	
126	Thazhekkode	Malappuram	33/11	5	2	10	Nov-02	2	
127	Thirunavaya	Malappuram	33/11	5	2	10	Jul-08	3	
128	Thiruvegappura	Palakkad	33/11	5	2	10	Jan-14 06.06.2020	2	
129	Thiruvellur	Kozhikode	33/11	5	1	5	Jun-08	2	
			33/11	8	1	8	Jan-2022		
130	Tholambra	Kannur	33/11	5	2	10	Feb-02	3	
131	Thottada	Kannur	33/11	8	2	16	Apr-02	3	
132	Thrikkannapuram (Thavanur)	Malappuram	33/11	5	2	10	Dec-09 24.06.2020	2	
133	Thrikkaripur	Kannur	33/11	5	2	10	Dec-04	4	
134	Thrithala	Palakkad	33/11	5	2	10	Mar-03	4	
135	Upputhura	Thodupuzha	33/11	5	2	10	Jun-09	3	
136	Urumi	Kozhikode	33/11	5	1	5	May-07	3	
137	Vadanapilly	Thrissur	33/11	5	2	10	Dec-04	3	
138	Vadikkekkara	Kalamassery	33/11	5	3	15	Aug-05	5	
139	Vagamon	Thodupuzha	33/11	5	1	5	Mar-10	3	
140	Vakathanam	Poovanthuruthu	33/11	5	2	10	Feb-13	4	
141	Vallikunnam	Alappuzha	33/11	5	2	10	Jun-12	2	
142	Valluambaram	Malappuram	33/11	8	2	16	Dec-01	3	
143	Vandanmedu	Thodupuzha	33/11	5	2	10		2	
144	Vannamada	Palakkad	33/11	5	2	10	Oct-09	3	
145	Vannappuram	Thodupuzha	33/11	5	2	10	Nov-12	4	
146	Varappuzha	Kalamassery	33/11	5	2	10	Jan-08	4	
147	Velanthavalam	Palakkad	33/11	5	2	10	Feb-11	3	
148	Veliyambra	Kannur	33/11	5	2	10		2	
149	Vellangallur	Thrissur	33/11	5	2	10	Mar-06	3	
150	Vellannur	Kozhikode	33/11	5	2	10	Sep-11	3	
151	Vellarada	Thiruvananthapuram	33/11	5	2	10	Aug-11	3	
152	Vellikulangara	Thrissur	33/11	5	2	10	Feb-10	4	
153	Vengola	Thodupuzha	33/11	5	2	10	May-07	3	
154	Venjaramoodu	Thiruvananthapuram	33/11	8	2	16	08.03.2022	3	New transformers
155	Vilakulam	Thiruvananthapuram	33/11	5	1	5		2	
156	Vithura	Thiruvananthapuram	33/11	5	2	10	Oct-11	3	
157	Vyddhyuthi Bhavanam-Tvpm	Thiruvananthapuram	33/11	5	2	10	01/07/2019	3	
158	Vydyuthi bhavan-pkkd	Palakkad	33/11	5	2	10	27-6-2015	4	
159	Wandoor	Malappuram	33/11	8	2	16	Aug-97, Nov-13	3	
160	West Elery	Kannur	33/11	5	2	10	Feb-07	2	
a	Barapole	Gen. Circle, Kakkayam	33/11	5	1	5		1	Switch yard
b	Vilangand	Gen. Circle, Kakkayam	33/11	5	1	5		1	Switch yard
<b>160</b>	<b>Total</b>				<b>323</b>	<b>1744.00</b>		<b>521</b>	
	<b>33 kV TRANSMISSION SUBSTATION</b>		<b>160</b>	<b>SWITCH YARD</b>	<b>2</b>				

Remarks-Switch yards with outgoing HT feeders included

\*\* Substation not in control of KSEBL(6 nos. 400 kV S/s owned by PGCIL,110 kV Mahe and 66 kV Vaiga)

ABSTRACT OF EHV AND 33 kV SUBSTATIONS				
Substations	Transmission substations	Gen. Switch yard with HT feeder	MVA Capacity	HT Feeders
400kV	1+6*	0	5530.00	8
220kV	29	3	10941.50	240
110kV	176+1*	8	8593.80	1368
66kV	56+1*	1	1389.40	414
<b>EHT S/S</b>	<b>270</b>	<b>12</b>	<b>26454.7</b>	<b>2030</b>
33kV	160	2	1744.00	521
<b>TOTAL</b>	<b>430</b>	<b>14</b>	<b>28198.70</b>	<b>2551</b>

\* Substations not owned by KSEBL

TABLE 35

## LIST OF EHV AND 33 kV TRANSMISSION LINES

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
<b>I. 400 kV Lines (PGCIL owned)</b>				
1	Thirunelveli - Pallippuram No.I	Twin Moose	160 (74.9 in Kerala)	PGCIL
2	Thirunelveli - Pallippuram No.II	Twin Moose	160 (74.9 in Kerala)	PGCIL
3	Thirunelveli -Kochi East I	Quad Moose	148.3	PGCIL
4	Thirunelveli -Kochi East II	Quad Moose	148.3	PGCIL
5	Udumalpet - Elappully No.I	Twin Moose	95.7 (48.1 in Kerala)	PGCIL
6	Udumalpet - Elappully No.II	Twin Moose	95.7 (48.1 in Kerala)	PGCIL
7	Elappully – Thrissur No.I	Twin Moose	84.78	PGCIL
8	Elappully – Thrissur No.II	Twin Moose	84.78	PGCIL
9	Kochi East - HVDC I	Quad Moose	78.2	PGCIL
10	Kochi East - HVDC II	Quad Moose	78.2	PGCIL
11	Mysore-Kozhikkode No. I	Twin Moose	206 (142 in Kerala)	PGCIL
12	Mysore-Kozhikkode No. II	Twin Moose	206 (142 in Kerala)	PGCIL
13	Pugalur HVDC-Thrissur HVDC I	UG+ LAPWING	66.36(2.72 UG + 63.64 OH in KERALA)	PGCIL
14	Pugalur HVDC-Thrissur HVDC II	UG+ LAPWING	66.36(2.72 UG + 63.64 OH in KERALA)	PGCIL
15	Thrissur-thrissur HVDC I	Quad Moose	1.5	PGCIL
16	Thrissur-thrissur HVDC II	Quad Moose	1.5	PGCIL
17	Madakkathara - Areacode I(KSEBL)	Twin Great hornbill	88.513	(KSEBL)
18	Madakkathara - Areacode II (KSEBL)	Twin Great hornbill	88.513	(KSEBL)
<b>400kV LINE-Total in Ckt.KM</b>			<b>1465.306</b>	<b>177.03 KSEBL Owned</b>
<b>II. 220 kV Lines</b>				
1	Ambalamugal-BPCL KR GR1 I	1000 sq.mm CU cable	2.5	
2	Ambalamugal-BPCL KR GR1 II	1000 sq.mm CU cable	2.5	
3	Ambalathara - Mylatty	Kundah	16.52	
4	Areacode - Kanhirode	Kundah	108.92	
5	Areacode - Nallalam No.I	Kundah	27.63	
6	Areacode - Nallalam No.II	Kundah	27.63	
7	Areacode - Orkatteri	Kundah	72.45	
8	Areacode-Kunnamangalam	Kundah +Panther	25.16	
9	Brahmapuram - Ambalamugal No.I	Kundah	4.4	
10	Brahmapuram - Ambalamugal No.II	Kundah	4.4	
11	Brahmapuram - Kaloore No.I	1200 Sq mm UG+OH (Panther)	11.5	
12	Brahmapuram - Kaloore No.II	1200 Sq mm UG+OH (Panther)	11.5	
13	Brahmapuram-Infopark	UG	1.6	
14	Cochin East- Brahmapuram I	Kundah	6.58	
15	Cochin East- Brahmapuram II	Kundah	6.58	
16	Cochin East - Aluva I	ACSR Panther	11.45	2021
17	Cochin East - Aluva II	ACSR Panther	11.45	2021
18	Cochin East – Kalamassery No.I	Kundah	15.06	
19	Cochin East – Kalamassery No.II	Kundah	15.06	
20	Edamon - Pothencode No.I	Kundah	47.69	
21	Edamon - Pothencode No.II	Kundah	47.69	
22	Elamkur - Areacode	Kundah	16.914	
23	Elappully - Madakkathara	Kundah	82.53	
24	Elappully - Palakkad No.I	Kundah	3.3	
25	Elappully - Palakkad No.II	Kundah	3.3	
26	Elappully - Palakkad No.III	Kundah	3.66	
27	HVDC Nallalam	AAAC Drake	104.55	New
28	Idukki - Kalamassery No.I	Kundah	72	
29	Idukki - Kalamassery No.II	Kundah	72	
30	Idukki - Kothamangalam	Kundah/ double panther	44.5	
31	Idukki - Lower Periyar No.I	Kundah	35.9	
32	Idukki - Lower Periyar No.II	Kundah	35.9	

Table 35 -220 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
33	Idukki - New Pallom	Kundah	49.94	
34	Idukki-Pallivasal	Kundah	40	New
35	Kanhirode - Ambalathara	Kundah	62.19	
36	Kanhirode - Thaliparamba	Kundah	28.02	
37	Kaniyampetta - Kadakola (Inter state)	Kundah	92(25.4 in Kerala)	81 in Karnataka
38	Kothamangalam - Aluva	Twin ACSR Panther	34	2021
39	Kunnamangalam-Kaniyampetta	Kundah	46	
40	Lower Periyar - Brahmapuram No.I	Kundah	58.46	
41	Lower Periyar - Brahmapuram No.II	Kundah	58.46	
42	Lower Periyar - Chalakkudy	Kundah	88.372	
43	Lower Periyar - Madakkathara	Kundah	102	
44	Madakkathara-Chalakkudy	Kundah	60.372	
45	Madakkathara - Elamkur	Kundah	77.4	
46	Madakkathara – Elappully	Kundah	82	
47	Madakkathara - Shornur	Kundah	29.35	
48	Malaparamba - Nallalam	AAAC Drake	60	2021
49	New Kattakkada-Vizhinjam GIS	Kundah	18.36	
50	New Kattakkada-VISL	Kundah	18.36	
51	New Pallom - Pallom	Twin Moose	0.8	
52	North Thrissur HVDC - Nallalam	AAAC Drake	120	2021
53	North Thrissur HVDC-Malapparamba	ACCC , Drake	51.29	
54	Orkatteri - Kanhirode	Kundah	37.14	
55	Palakkad-Madakkathara	Kundah	82.26	
56	Pallipuram - Pothencode No.I	Moose	3.49	
57	Pallipuram - Pothencode No.II	Moose	3.49	
58	Pallipuram - Pothencode No.III	Moose	3.49	
59	Pallipuram - Pothencode No.IV	Moose	3.49	
60	Pallivasal-Aluva	Panther	81	New
61	Pallivasal-Kothamangalam	TWIN PANTHER	51.47	New
62	Pallivasal-Udumalpet	Kundah	44.417	Total length-71.61 (27.2 km in TNEB)
63	Pallom - Ambalamugal	Kundah	56.3	
64	PGCIL Kozhikode - 220 kV Areacode No I	Twin Moose	0.225	
65	PGCIL Kozhikode - 220 kV Areacode No II	Twin Moose	0.225	
66	PGCIL Kozhikode - 220 kV Areacode No III	Twin Moose	0.225	
67	Pothencode - New Kattakkada I	Twin Moose	27	
68	Pothencode - New Kattakkada II	Twin Moose	27	
69	Sabarigiri - Ambalamugal	Kundah	123.62	
70	Sabarigiri - Edamon No.I	Kundah	52.89	
71	Sabarigiri - Edamon No.II	Kundah	52.93	
72	Sabarigiri - Edamon No.III	Kundah	52.93	
73	Sabarigiri - Pallom	Kundah	67.32	
74	Sabarigiri - Theni (Inter state)	Kundah	106.5 (44.8 in Kerala)	Inter state
75	Shornur - Areacode	Kundah	72.53	
76	Thaliparamba - Mylatty	Kundah	63.39	
77	Vizhinjam-VISL	ACSR Kundah	3.119	
78	Edamon - Edappon	Twin Moose	67.17	PGCIL
79	Edamon - Kundara	Twin Moose	61.17	PGCIL
80	Edamon - Thirunelveli No.I (PGCIL)	Quad Moose	81	PGCIL
81	Edamon - Thirunelveli No.II (PGCIL)	Quad Moose	81	PGCIL
82	Kayamkulam - Edappon	Twin Moose	28.57	PGCIL
83	Kayamkulam - Kundara	Twin Moose	64.81	PGCIL
84	Kayamkulam - New Pallom	Zebra	47	PGCIL
85	Kayamkulam - Punnapra	Zebra	18.3	PGCIL
86	Punnapra- New Pallom	Zebra	18.3	PGCIL
<b>220kV LINE-Total in Ckt.KM</b>			<b>3485.67</b>	
<b>III. 110 kV Lines</b>				
1	Adimali- Myloor (Pothanikad)	Lynx	34.484	
2	Agasthiamoozhy -Thambalamanna	630 Sq mm UG	11.5	
3	Aluva-KWA	UG	3.2	

Table 35 -110 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
4	Ambalappuram - Kottiyam	Wolf	18.9	
5	Ambalathara - Cheruvathoor	Wolf	19.57	
6	Ambalathara- Kanhangad	Wolf/Panther	6.23	
7	Anchal - Ayoor	Wolf	9	upgraded
8	Angamaly - Kurumassery	Wolf	8.68	
9	Arangottukara-Pattambi	AAAC+wolf	5.9	
10	Areacode - Keezhissery No.I	Wolf	9.2	
11	Areacode - Keezhissery No.II	Wolf	9.2	
12	Aroor - Mattanchery	Wolf	9.2	
13	Aroor - Thykkattussery	Wolf	15.6	
14	Attingal - Paripally No.I	Wolf	15.3	
15	Attingal - Paripally No.II	Wolf	15.3	
16	Autocast (SILK) - SL Puram	Wolf	1.7	
17	Ayarkunnam - MRF	Wolf	5.02	
18	Ayathil - GIS Kollam DC UG No. I	UG Cable	3.75	
19	Ayyampuzha - Chalakudy	Wolf	14.84	
20	Azhikode - WIPL	Wolf	0.23	
21	Bilievers Church - Thrikodithanam	Wolf	4.72	
22	Brahmapuram - FACT (CD) No.I	Wolf	3.1	
23	Brahmapuram - FACT (CD) No.II	Wolf	3.1	
24	Brahmapuram - Kadavanthara	Wolf	10.77	
25	Brahmapuram - Kandanad	Wolf	12.1	
26	Brahmapuram - KINFRA No.I	Wolf	1.85	
27	Brahmapuram - KINFRA No.II	Wolf	1.85	
28	Brahmapuram - New Vytila	Wolf	7.776	
29	Brahmapuram - Vaikom	Wolf	29.64	
30	Chakkittappara - Nadapuram	Wolf	20.969	
31	Chalakkudy - Kodungallur	Wolf	20.61	
32	Chalakkudy - Puthukkad	Wolf	16.39	
33	Chalakkudy -Mala	Wolf	13.371	
34	Chalakudy - Angamaly	Wolf	21.426	
35	Chalakudy - Carborandum	Wolf	6.447	
36	Chalakudy - Kodakara	Wolf	7.1	
37	Chalakudy - Traction S/s, Chalakudy	Wolf	2.3	
38	Chavara - Kavanad No.I	Wolf	9.1	
39	Chavara - Kavanad No.II	Wolf	9.1	
40	Chavara - KMML	Wolf	4.1	
41	Chelari - Parappanangadi	Wolf	15.86	
42	Chembari - Mattannur	Wolf	31.819	
43	Chengalom- Punnapra	Wolf	29.4	
44	Chengannoor - Bilievers Church	Wolf	12.55	
45	Chengannoor - Edappon No.I	Wolf	11.38	
46	Chengannoor - Edappon No.II	Wolf	11.38	
47	Cherai - North paravur	Wolf	8.08	
48	Cherpu - Irinjalakuda	Wolf	19	
49	Cheruvathur - Traction Cheruvathur SC UG	SC UG	2.308	
50	Chevayur - GIS, Gandhiroad	UG	6.005	
51	Chevayur -Meppayur	HTLS	33.614	
52	Chovva-Traction S/s, Kannur South	UG Cable	0.85	
53	Edamon - Ambalappuram	Wolf	29	
54	Edamon - Anchal	Wolf	12	upgraded
55	Edamon - Ayoor	Wolf	21	
56	Edamon - Kilimanoor	Wolf	33.9	
57	Edamon - Paruthippara	Wolf	54	
58	Edamon - Punalur No.I	Wolf	9.89	
59	Edamon - Punalur No.II	Wolf	9.89	
60	Edappal - Kuttippuram	Wolf	24.48	
61	Edappal - Ponnani	Wolf	10.34	
62	Edappally - Kaloor	Wolf	4.43	
63	Edappon - Kayamkulam	Wolf	18	
64	Edappon - Kudara	Wolf	31	

Table 35 -110 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
65	Edappon - Mavelikkara	Wolf	14	
66	Edappon - Pathanamthitta No.I	Wolf	22.53	
67	Edappon - Pathanamthitta No.II	Wolf	22.53	
68	Edappon - Sasthamkotta	Wolf	17.117	
69	Edarikode – Tirur I	Wolf	11.68	
70	Edarikode - Tirur II	Wolf	11.68	
71	Edathala-Aluva	PANTHER	4	
72	Edayar - Binani Zinc No.I	Wolf	1.85	
73	Edayar - Binani Zinc No.II	Wolf	1.85	
74	Edayar - Cherai	Wolf	16.12	
75	Edayar - North Paravur	Wolf	9.416	
76	Elankur- Malappuram	Al59+Wolf	12.24	
77	Elankur-Nilambur	Wolf	22.473	New
78	Eramalloor - Chellanam	Wolf	11.283	
79	Erattupetta - Pala	Wolf	15.9	
80	Erumeli - Mundakkayam	Wolf	17.62	
81	Guruvayur - Kandassankadavu	Wolf	16.3	
82	Idamalayar - Ayyampuzha	Wolf	33.457	
83	Idamalayar - Malayattoor	Wolf	33.524	
84	Irinjalakkuda-Kodungallur	Panther	15.069	
85	Kadavanthara - Traction S/s, Kadavanthara	UG Cable	0.15	
86	Kadavanthara - Willington Island No.I	UG Cable + Wolf	2.11	1.41+0.7 OH
87	Kadavanthara - Willington Island No.II	UG Cable + Wolf	2.11	1.41+0.7 OH
88	Kakkad - Karikkayam	Wolf	10.6	
89	Kakkad - Pathanamthitta	Wolf	28.405	
90	Kakkayam - Chakkittappara	Wolf	10.557	
91	Kakkayam - Kinaloor	Wolf	11.6	
92	Kakkayam - Kuttiady	Wolf	21.689	
93	Kalamassery - Aroor	Wolf	23.5	
94	Kalamassery - Brahmapuram No.I	Wolf	11.6	
95	Kalamassery - Brahmapuram No.II	Wolf	11.6	
96	Kalamassery - Brahmapuram No.III	Wolf	10.94	
97	Kalamassery - Brahmapuram No.IV	Wolf	10.94	
98	Kalamassery - Carborandum	Wolf	36.498	
99	Kalamassery - Edappally	Wolf	7	
100	Kalamassery - Edayar No.I	Wolf	4.2	
101	Kalamassery - Edayar No.II	Wolf	4.2	
102	Kalamassery - FACT (UD) No.I	Wolf	5.2	
103	Kalamassery - FACT (UD) No.II	Wolf	5.2	
104	Kalamassery - Kaloor	Wolf	11.39	
105	Kalamassery - Kizhakambalam	Wolf	10.523	
106	Kalamassery-Kochi Metro-I	630 Sq mm SC UG	3.2	
107	Kalamassery-Kochi Metro-II	630 Sq mm SC UG	3.2	
108	Kalamassery - Kurumassery	Wolf	22.235	
109	Kalamassery-Malayattoor	Wolf	26.284	
110	Kalamassery - Moovattupuzha	Lynx	26.12	
111	Kalamassery - Panangad	Wolf	17	
112	Kalamassery - Perumbavoor	Wolf	19.868	
113	Kalamassery - Vyttila	Wolf	11.58	
114	Kalladikode - Mannarkkad	Wolf	14	
115	Kaloor- Ernankulam North UG I	UG	4.1	
116	Kaloor- Ernankulam North UG II	UG	4.1	
117	Kandanad - Vaikom	Wolf	18	
118	Kandassankadav-Valappad	Wolf	12.9	
119	Kanhirode - Mattannur	Wolf	18.7	
120	Kanhirode - Mundayad No.I	Wolf	9.55	
121	Kanhirode - Mundayad No.II	Wolf	9.55	
122	Kanhirode - Sreekantapuram	Wolf	20.9	
123	Kanjikode - Saint Gobain	ACSR Mink	1.1	
124	Kanjirappally - Erumeli	Wolf	11.814	
125	Kanjirappally- Mundakkayam	Wolf	8.81	

Table 35 -110 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
126	Karikkayam - Maniyar	Wolf	3.243	
127	Kattakkada - Parassala No.I	Wolf	18.98	
128	Kattakkada - Parassala No.II	Wolf	18.98	
129	Kattakkada - Thirumala No.I	Wolf	9.24	
130	Kattakkada - Thirumala No.II	Wolf	9.24	
131	Kazhakkuttam - Traction S/s, Kazhakkuttam	Wolf	0.854	
132	Kazhakkuttam - TERLS No.I	Wolf	4.53	
133	Kazhakkuttam - TERLS No.II	Wolf	4.53	
134	Keezhissery - Malappuram No.I	Wolf	17.61	
135	Keezhissery - Malappuram No.II	Wolf	17.61	
136	Kilimanoor - Paruthippara	Wolf	39.9	
137	Kinaloor - Chevayoor	Wolf	26.88	
138	Kizhakambalam - Moovattupuzha	Lynx	17.22	
139	Kodimatha -Punnapra	Wolf	27.05	
140	Kodungalloor -Kattoor	Panther/Wolf	21.365	
141	Koduvally - Kakkayam	HTLS	23.45	
142	Kollengode - Nennara	Wolf	19.17	
143	Kollengode - Vadakkenchery	Wolf	36.98	
144	Koottanad - Edappal	AAAC	14.9	
145	Kothamangalam-Aluva	Wolf	34	
146	Kothamangalam-Edathala	Panther	30	New
147	Kothamangalam-Koothattukulam	Wolf	21.84	New
148	Kottarakkara - Kundara	Wolf	13.52	
149	Kottiyam - Kundara	Wolf	16.96	
150	Koyilandy-Vadakara	Wolf/Tiger	24.946	
151	Kozhenchery - Ranni	Wolf	13.4	
152	Kozhinjampara - Kollengode	Wolf	24.28	
153	Kubanur - Traction Uppala	110kV XLPE UG Cable	5.5	
154	Kundara - Ayathil No.I	Wolf	13	
155	Kundara - Ayathil No.II	Wolf	13	
156	Kundara - Chavara	Wolf	26.2	
157	Kundara - Parippally No.I	Wolf	24	
158	Kundara - Parippally No.II	Wolf	24	
159	Kundara - Perinadu	Wolf	8.4	
160	Kundara - Traction Perinad No.I	Wolf	8.94	
161	Kundara-Technopark	UG	2.1	
162	Kunnamangalam - Agasthiamoozhy No.I	Wolf+Panther	9.68	
163	Kunnamangalam - Agasthiamoozhy No.II	Wolf+Panther	9.68	
164	Kunnamkulam- Athani	Wolf	18.27	New
165	Kunnamkulam-Kandassankadavu	Wolf	18.4	
166	Kunnamangalam - Koduvally	HTLS	8.24	
167	Kunnamangalam-Kuttikatoor	Wolf	5.6	New
168	Kunnamangalam-Nallalam	Wolf	30.92	
169	Kunnamkulam - Guruvayur	Wolf	5.873	
170	Kunnamkulam - Punnayurkulam No.I	AAAC	15.18	
171	Kunnamkulam - Punnayurkulam No.II	AAAC	15.18	
172	Kuthuparamba-Kanhirode	Wolf	23.7	
173	Kuthuparamba - Valiavelicham	Wolf	8.356	
174	Kuthupramba - Nedumpoil	Wolf	18.936	
175	Kuttiady - Kanhirode	Wolf	54.3	
176	Kuttippuram - Tirur	Wolf	20.73	
177	Madakkathara - Athani	Wolf	10.9	
178	Madakkathara - Cherpu	Wolf	19	
179	Madakkathara - Kunnamkulam	Wolf	27.39	
180	Madakkathara - Ollur	Wolf	15.7	
181	Madakkathara - Shornur	Wolf	30.28	
182	Madakkathara - Valappad	Wolf	28.1	
183	Madakkathara - Viyyur No.I	Wolf	10.2	
184	Madakkathara - Viyyur No.II	Wolf	10.2	

Table 35 -110 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
185	Madakkathara – Mannuthy	Wolf	5.918	
186	Madakkathara-Valappad	Wolf	28.102	
187	Madakkathara - Wadakkanchery	Wolf	15.09	
188	Mala - Kodungallur	Mink	7.858	
189	Malampuzha - Kalladikode	Wolf	19.25	
190	Malaparamba - Koppam	Tiger	9.53	
191	Malaparamba - Kuttippuram No.I	Wolf	16.5	
192	Malaparamba - Kuttippuram No.II	Wolf	16.5	
193	Malaparamba - Malappuram No.I	Wolf	14.05	
194	Malaparamba - Malappuram No.II	Wolf	14.05	
195	Malaparamba- Melattur	Wolf	26.05	
196	Malaparamba- Melattur tap to Mankada	Wolf	4.95	
197	Malaparamba-Shornur	Wolf	24	
198	Malaparamba-Perinthalmanna	Wolf	23.32	
199	Malappuram - Edarikode I	Wolf	13.52	
200	Malappuram - Edarikode II	Wolf	13.52	
201	Malappuram - Manjeri	AL 59+ Wolf	13.91	
202	Malayattoor - Rayonpuram	Wolf	10.674	
203	Mallappally - Chengannoor	Wolf	21.16	
204	Mangad - Azhikode	Wolf	14.2	
205	Maniyar - Pathanamthitta	Wolf	17.82	
206	Manjeri - Elamkur	Wolf	4.73	
207	Manjeswaram - Konaje (Inter state)	Wolf	13.9 (8.15 in Kerala)	
208	Manjeswaram -Kubanur	AAAC, 80sqmm	12.6	
209	Mankavu- West Hill	HTLS	15.33	
210	Mannuthy- Kodakara	Wolf	18.524	
211	Marady - Koothattukulam	Wolf	9.36	
212	Marady-Kothamangalam	Wolf	12.4	
213	Mattanchery - Chellanam	Wolf	11.1	
214	Mattannur - Iritty No.I	Wolf	12.95	
215	Mattannur - Iritty No.II	Wolf	12.95	
216	Mavelikkara - Kayamkulam	Wolf	14	
217	Mundayad - Azhikode	Tiger	13.3	
218	Mundayad – Chovva I	Wolf	3.132	
219	Mundayad - Chovva II	Wolf	3.132	
220	Mundayad - Pinarayi	Tiger	11.3	
221	Mylatty - Kanhangad	Wolf/Panther	14.8	
222	Mylatty - Vidyannagar	Wolf/Tiger	11.9	
223	Myloor (Pothanikad)-Moovattupuzha	Lynx	10.209	
224	Nadapuram-Kuthuparamba	Wolf	35	
225	Nallalam - Chelari	Wolf	20.83	
226	Nallalam - Chevayur No.I	HTLS	6.84	
227	Nallalam - Chevayur No.II	HTLS	6.84	
228	Nallalam - Keezhissery	Wolf	20.4	
229	Nallalam - Kunnamangalam	Wolf	35.88	
230	Nallalam- Mankavu	HTLS	6.1	
231	Nallalam - Steel Complex	Tiger	0.79	
232	Nenmara - Vadakkenchery	Wolf	17.11	
233	Neriamangalam - Adimali	Lynx	10.237	
234	Neriamangalam - Kuthungal No.I	Wolf	16.827	
235	Neriamangalam - Kuthungal No.II	Wolf	16.827	
236	Neriamangalam - Moovattupuzha	Lynx	54.93	
237	Neriamangalam – Muttom	Wolf	25.6	
238	Neriamangalam - Sengulam	Lynx	11	
239	New Kattakada-Aruvikkara	Wolf	10.4	
240	New Kattakada-Balaramapuram I	KUNDAH	10.2	
241	New Kattakada-Balaramapuram II	KUNDAH	10.2	
242	New Kattakada-Kattakada I	WOLF	2.739	
243	New Kattakada-Kattakada II	WOLF	2.739	
244	New Vytilla-Kochi Metro I	UG Cable 630sqmm	0.205	
245	New Vytilla-Kochi Metro II	UG Cable 630sqmm	0.147	

Table 35 -110 kV lines continued



Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
246	New Vyttila - Kadavanthara	Wolf	3	
247	Neyyattinkara - Balaramapuram No.I	Wolf	3.81	
248	Neyyattinkara - Balaramapuram No.II	Wolf	3.81	
249	Nilambur-Edakkara	Wolf	12.75	New
250	Ollur - Puthukkad	Wolf	12.83	
251	Orkatteri - Meppayur	AAAC/Wolf	25.214	
252	Orkatteri - Panoor	Wolf/AAAC	9.064	
253	Orkatteri - Pinarayi	Wolf/AAAC	19.94	
254	Orkatteri - Vadakara	AAAC/Wolf	8.79	
255	Ottappalam - Cherpulassery No.I	Wolf	18.95	
256	Ottappalam - Cherpulassery No.II	Wolf	18.95	
257	Ottappalam - Pazhayannur	Wolf	11.2	
258	Ottappalam - Vadakkanchery	Wolf	27	
259	Ottappalam - Vennakkara	Wolf	28.96	
260	Pala - Ayarkunnam No.I	Wolf	14.5	
261	Pala - Ayarkunnam No.II	Wolf	14.5	
262	Pala - Muttom	Wolf	12.2	
263	Palakkad - Kanjikode No.I	Wolf	5.46	
264	Palakkad - Kanjikode No.II	Wolf	5.46	
265	Palakkad - Kollengode	Wolf	26.45	
266	Palakkad - Kozhinjampara	Wolf	10.613	
267	Palakkad - Traction, Kanjikode I	Wolf	3.15	new
268	Palakkad - Traction, Kanjikode II	Wolf	3.15	new
269	Palakkad - Vennakkara No.I	Wolf	20.865	
270	Palakkad - Vennakkara No.II	Wolf	20.865	
271	Palakkad - Walayar No.I	Wolf	6.804	
272	Palakkad - Walayar No.II	Wolf	6.354	
273	Palakkad - INOX Air	Wolf	1.2	
274	Pallom - Ayarkunnam	Wolf	13	
275	Pallom - Chengalam	Wolf	14.212	
276	Pallom - Kanjirappally	Wolf	29	
277	Pallom - Kodimatha	Wolf	4.5	
278	Pallom - Mallappally	Wolf	32.23	
279	Pallom-MRF	Wolf	8.62	
280	Pallom - Pambady	Wolf	12.5	
281	Pallom - Thrikodithanam	Wolf	11.8	
282	Pambady -Kanjirapally	Wolf	16.8	
283	Panangad - Aroor	Wolf	6.5	
284	Panniar - Sengulam No.I	Wolf	0.5	
285	Panniar - Sengulam No.II	Wolf	0.5	
286	Panoor - Mahe No.I	Wolf	2.43	
287	Panoor - Mahe No.II	Wolf	2.43	
288	Parali - Vennakkara	Wolf	9.5	
289	Parappanangadi- Keezhissery	Wolf	32.85	
290	Parassala - Kuzhithura (Inter state)	Wolf	4.75	
291	Parassala - Neyyattinkara No.I	Wolf	10.5	
292	Parassala - Neyyattinkara No.II	Wolf	10.5	
293	Paripally - Varkala No.I	Wolf	9.8	
294	Paripally - Varkala No.II	Wolf	9.8	
295	Paruthippara - Medical College No.I	Wolf	2.87	0.37 km UG
296	Paruthippara - Medical College No.II	Wolf	2.87	0.37 km UG
297	Pathanamthitta - Kozhenchery	Wolf	12.5	
298	Pathanamthitta - Ranni	Wolf	26	
299	Pathanapuram - Koodal	Wolf	8.279	
300	Pathiripala - Parali	Wolf	11.2	
301	Pattambi- Edappal	AAAC+Wolf	23.26	New 2021 (20.16 km AAC, 3.1 km Wolf)
302	Payangadi - Ezhimala No.I	Wolf	7.35	
303	Payangadi - Ezhimala No.II	Wolf	7.35	
304	Payyannur - Cherupuzha No.I	Wolf	20.8	

Table 35 -110 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
305	Payyannur - Cherupuzha No.II	Wolf	20.8	
306	Payyannur - Cheruvathur	Wolf+Panther	13.64	5.98+7.66 New
307	Pazhayannur - Vadakkanchery	Wolf	15.8	
308	Perinadu - Traction Perinadu	Wolf	1.9	
309	Perinthalmanna-Melattur	Wolf	18.27	New 2021
310	Pinarayi - Thalassery	Wolf	12.477	New 2021
311	Ponnani - Tirur	Wolf	29.03	
312	Poringalkuthu - Chalakudy No.I	Tiger/Panther	32.5	
313	Poringalkuthu - Chalakudy No.II	Tiger/Panther	32.5	
314	Poringalkuthu-Malayattoor	Wolf	24.891	
315	Poringalkuthu - Sholayar	Wolf	12.9	
316	Pothencode - Aruvikkara	Wolf	20.54	
317	Pothencode - Attingal No.I	Wolf	10.2	
318	Pothencode - Attingal No.II	Wolf	10.2	
319	Pothencode - Kazhakkuttom No.I	HTLS	8.1	
320	Pothencode - Kazhakkuttom No.II	HTLS	8.1	
321	Pothencode - New Kattakkada	Wolf	27	
322	Pothencode - Paruthippara No.I	Wolf	10.39	
323	Pothencode - Paruthippara No.II	Wolf	10.39	
324	Pothencode - Technocity	630MM2 CABLE	4	New
325	Pullazhy-Valappad	Dog/Wolf	20.9	
326	Punalur - Koodal	Wolf	19.53	
327	Punalur - Kottarakkara	Wolf	20.07	
328	Punalur - Kundara	Wolf	33.585	
329	Punalur - Pathanapuram	Wolf	12.282	
330	Punnapra - Autocast	Wolf	26.6	
331	Punnapra - Edathua No.I	Wolf	15.7	
332	Punnapra - Edathua No.II	Wolf	15.7	
333	Punnapra -SL Puram	ACSR WOLF	27.7	
334	Punnapra - Traction S/s, Punnapra	Wolf	0.47	
335	Rayonpuram - Perumbavoor	Wolf	1.5	
336	Sasthamkotta - KMML	Wolf	18.9	
337	Sengulam - Udumpannoor	Wolf	18.5	
338	Sholayar - Chalakudy	Wolf	52.764	
339	Shornur -Arangotukkara	AAAC	9.2	
340	Shornur - Koottanad	AAAC	17.86	
341	Shornur - Koppam	Tiger	14.241	
342	Shornur - Ottappalam	Wolf	13.6	
343	Shornur - Pathiripala	Wolf	26.3	
344	Shornur - Traction I	Tiger	4.98	
345	Shornur - Traction II	Tiger	4.98	
346	SL Puram - Eramalloor	Wolf	23.16	
347	Sreekantapuram - Chemberi	Wolf	10.398	
348	Tap No.I to Aluva from KLCB feeder	Wolf	2	
349	Tap No.I to BSES from KLKA feeder	Wolf	1.3	
350	Tap No.I to CIAL from KLCB feeder	Wolf	1.81	
351	Tap No.I to CSEZ from KLBR No.I feeder	Wolf	0.05	
352	Tap No.I to HNL from BRVK feeder	Wolf	8.7	
353	Tap No.I to IAC from KLED No.I feeder	Wolf	0.05	
354	Tap to Kazhakkuttom Technopark from 1KZTE	Wolf	0.05	
355	Tap No.I to Nedumangad from PCAV feeder	Wolf	0.2	
356	Tap No.I to Piravam from HNL Tap No.I	Wolf	7.7	
357	Tap No.I to Rubber Park from KLMV feeder	Wolf	2.1	
358	Tap No.I to TCC from KLFA No.I feeder	Wolf	0.8	
359	Tap No.II to Aluva from KLKR feeder	Wolf	2	
360	Tap No.II to CIAL from CHAN feeder	Wolf	1.81	
361	Tap No.II to CSEZ from KLBR No.II feeder	Wolf	0.05	
362	Tap No.II to HNL from KNVK feeder	Wolf	8.7	
363	Tap No.II to IAC from KLED No.II feeder	Wolf	0.05	
364	Tap No.II to Nedumangad from PCKK feeder	Wolf	0.2	

Table 35 -110 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
365	Tap No.II to Piravam from HNL Tap No.II	Wolf	7.7	
366	Tap No.II to Rubber Park from KZMV feeder	Wolf	2.1	
367	Tap No.II to TCC from KLFA No.II feeder	Wolf	0.8	
368	Tap No.III to BSES from KLED No.I feeder	Kundah	0.8	
369	Tap No.IV to BSES from KLED No.II feeder	Wolf	0.8	
370	Tap to BPCL from BRFA No.II feeder	Wolf	2.81	
371	Tap to Chingavanam Traction from PLTN feeder	Wolf	1.578	
372	Tap to Co-op. Med. College from KLBR No.II	Wolf	0.04	
373	Tap to GTN Textiles from KLPM feeder	Wolf	0.86	
374	Tap to Infopark from SL- Chellanam	Wolf	0.125	
375	Tap to MPS Steel from PKKE feeder	Wolf	0.05	
376	Tap to Paragon Steel from PKKJ No.II	Wolf	0.05	
377	Tap to PATSPIN from PKKJ No.II	Wolf	0.05	
378	Tap to Petronet from BRFA No.I feeder	Wolf	2.81	
379	Tap to Precot Meridian from WLMC No.II	Wolf	0.22	
380	Tap to Sasthamkotta from EPKD feeder	Wolf	13.5	
381	Tap to TECIL from PLTN feeder	Wolf	2.12	
382	Tap to Thiruvalla from Mallappally - Chengannoor	630 Sq mm SC UG	0.38	
383	Tap to Thrissur Corpn. from VIPL feeder	Wolf	1.5	
384	TERLS - VELI	Wolf	4.1	
385	TERLS -VSSC I	Wolf	0.8	
386	TERLS -VSSC II	Wolf	0.8	
387	Thalassery - Panoor	Tiger	7.177	
388	Thaliparamba - Mangad	Wolf/Tiger	10.53	
389	Thaliparamba - Payangadi No.I	Wolf	9.5	
390	Thaliparamba - Payangadi No.II	Wolf	9.5	
391	Thaliparamba - Payyannur	Wolf/Tiger	22.4	
392	Thykkattussery - SL Puram	Wolf	16.15	
393	Tirur- Tirur traction	XLPE UG CABLE	0.566	
394	Udumpannoor - Erattupetta	Wolf	28.4	
395	Valappad-Kattoor	Wolf	11.16	
396	Veli - Muttathara	630 Sq mm SC UG	8.45	
397	Vennakkara - Malampuzha	Wolf	10.25	
398	Vidyanagar - Kubanur	Wolf	21.7	
399	Vidyanagar - Mulleria No.I	Wolf	17.8	
400	Vidyanagar - Mulleria No.II	Wolf	17.8	
401	Viyur - Kandassankadavu	Dog	15.73	
402	Viyur - Pullazhy	Dog	7.22	
403	Vytilla - New Vytilla UG	UG Cable	0.71	
404	Wadakkanchery - Shornur	Wolf	16.56	
405	Walayar - Malabar Cement No.I	Wolf	4.41	
406	Walayar - Malabar Cement No.II	Wolf	4.41	
407	West Hill - Gandhi Road	XLPE UG CABLE	7.036	
408	West Hill - Quilandy	HTLS	17.312	
409	West Hill -Traction Elathur	400 Sq mm UG Cable	4.42	
410	Willington Island - Port Trust	UG Cable	2.31	
<b>110kV LINE-Total in Ckt.KM</b>			<b>5385.43</b>	
<b>IV. 66 kV Lines</b>				
1	Adoor- Enathu	Wolf	11.4	
2	Alappuzha - Pathirappally	Tiger	6.3	
3	Aluva - Edayar	Mink / Copper	5.65	
4	Aluva- Karukutti	Mink/Dog	18.02	
5	Ambalaparamba Tap	Mink	13.71	
6	Ambalavayal tap line	Wolf	4.013	
7	Aroor-Cherthala	Dog	23.3	
8	Aroor- Mattanchery	Mink	9	
9	Attingal - Palode	Mink	19.4	
10	Chalakkudy - Aluva I	Mink/Dog	26.78	
11	Chalakkudy - Aluva II	Mink	26.78	
12	Chalakkudy-Karukutti	Mink/Copper	8.75	
13	Chalakkudy- Karukutti tap -vaiga	Dog	0.8	

Table 35 -66 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
14	Chalakkudy – Viyyur 1	AAAC 80 sq.mm	34.5	
15	Chalakkudy – Viyyur 2	AAAC 80 sq.mm	34.5	
16	Chevayur - Puthiyara	400 Sq.mm XLPE	4.37	
17	Chumathra - Thiruvalla	Dog	2.8	
18	Edappon - Adoor No.I	Dog	16	
19	Edappon - Adoor No.II	Dog	16	
20	Edappon - Mavelikkara No.I	Dog	10.8	
21	Edappon - Mavelikkara No.II	Dog	10.8	
22	Ettumanur - Gandhi Nagar	Dog	10	
23	Ettumanur - Pala	Dog	16.2	
24	Ettumanur - Pallom	Dog	17	
25	Gandhi Nagar - Pallom	Dog	10	
26	Idukki-Malankara	Dog	15.9	
27	Idukki- Thodupuzha Tap to Koothattukulam	Dog	10.85	
28	Idukki- Thodupuzha	Dog	29.7	
29	Idukki-Vazhathope	Dog-8.65 km Mink-3.462 km Wolf-2.423 km	14.535	
30	Kalamassery – Aluva 1	Dog	6.857	
31	Kalamassery – Aluva 2	Dog	6.857	
32	Kalamassery - Njarakkal No.I	Dog	13.6	
33	Kalamassery - Njarakkal No.II	Dog	13.6	
34	Kalamassery - NPOL (Thrikkakara)	Tiger	5.7	
35	Kalamassery - Premier Tyres No.I	Wolf+UG	2	
36	Kalamassery - Premier Tyres No.II	Wolf+UG	2	
37	Kalamassery - Vyttila	Tiger	12.3	
38	Kallada - Edamon No.I	Dog	9.24	
39	Kallada - Edamon No.II	Dog	9.24	
40	Kaloor - Marine Drive	400 Sq.mm XLPE	3.85	
41	Kaniyampetta - Anchukunnu	AAAC	9.2	
42	Kaniyampetta - Kuthumunda I	Wolf	12.801	
43	Kaniyampetta - Kuthumunda II	Wolf	12.801	
44	Kanjikode-Chandranagar	Dog/Mink	17.77	
45	Kanjikode - Chittoor No.I	Dog	15.58	
46	Kanjikode - Chittoor No.II	Dog	15.58	
47	Kanjikode - ITI	Mink	0.36	
48	Kanjikode - MCL Quarry	Mink	23.45	
49	Kanjikode-Kannampully	Dog/Mink	26.28	Newly added
50	Karuvatta - Mavelikkara	Dog	16	
51	Kattanam - Karunagappally	Copper/ACSR Dog/ACSR Wolf	29.65	
52	Kochu Pampa - Sabarigiri	Dog	15.831	
53	Kochu Pampa - Thriveni No.I	Dog	12.1	
54	Kochu Pampa - Thriveni No.II	Dog	12.1	
55	Koothattukulam - Kuravilangad	Copper	13.1	
56	Kunnamangalam - Cyberpark	Dog/Wolf	8.73	
57	Kunnamangalam - Thamarassery	Dog	17.8	
58	Kuthumunda - Thamarassery	Dog	20.679	
59	Kuthumunda - Uppatty (Inter state)	Dog+Copper	16.8	
60	LA Complex - Powerhouse	400 Sq.mm XLPE	3.5	
61	Malankara - Thodupuzha	Dog	13.9	
62	Mananthavadi - Anchukunnu	AAAC	9.7	
63	Mankavu - Puthiyara	400 Sq.mm XLPE	3.17	
64	Mattanchery - Fort Kochi No.I	400 Sq.mm XLPE	4.2	
65	Mattanchery - Fort Kochi No.II	400 Sq.mm XLPE	4.2	
66	Mavelikkara - Kattanam	Copper/ACSR Dog/ACSR Wolf	13.65	
67	Mavelikkara - Nangiarkulangara	Dog	9.3	
68	Mundakkayam - Peerumedu	Dog	13.5	
69	Nallalam - Cyberpark	Tiger/Dog/Wolf	6.12	
70	Nedumkandam - Kattappana	Wolf	16.671	
71	Nedumpoyil - Mananthavadi	Copper	28.98	

Table 35 -66 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
72	NPOL(Thrikkakkara)-Vytila	Dog	9.3	
73	Odakkali-Aluva I	Copper	23.9	Newly added
74	Odakkali-Aluva II	Copper	38.1	Newly added
75	Pallivasal - Karimanal I	Copper	26.8	
76	Pallivasal-Karimanal II	Copper	75.06	Newly added
77	Pallivasal-Sengulam	Dog	6.5	double ckt line shorted at both end
78	Pallom - Chumathra	Dog	20	
79	Pallom - Kuttanad	Dog	18.54	
80	Pallom - Thiruvalla	Dog	20.7	
81	Panampilly Nagar - Perumanoor	Dog	0.704	
82	Paruthippara - Balaramapuram	Mink	17.58	
83	Paruthippara - LA Complex	400 Sq.mm XLPE	4.3	
84	Paruthippara - TERLS	Dog	8.294	
85	Paruthippara - Vattiyorkavu	Mink	9.25	
86	Pathirappally - Cherthala	Tiger	17.1	
87	PCBL- Puthencruz	Dog	7.5	
88	Peerumedu - Vandiperiyar	Dog	13.79	
89	Perumanoor - Cochin Shipyard I	400 Sq.mm XLPE	0.09	
90	Perumanoor - Cochin Shipyard II	400 Sq.mm XLPE	0.09	
91	Perumanoor - Marine Drive	400 Sq.mm XLPE	4.25	
92	Powerhouse - Thirumala	400 Sq.mm XLPE	6.8	
93	Punnapra - Alappuzha No.I	Dog	8.9	
94	Punnapra - Alappuzha No.II	Dog	8.9	
95	Punnapra - Karuvatta	Dog	17.4	
96	Punnapra - Nangiarkulangara	Dog	24.1	
97	Sasthamkotta - Karunagappally	Dog	13.2	
98	Sengulam - Vazhathopu	Dog/Wolf	22.172	
99	Tap I Aluva-Odakkali Perumbavoor	Dog	1.8	
100	Tap II Aluva-Odakkali Perumbavoor	Dog	1.8	
101	Tap line Kaniyampetta-Kuthumunda – Sulthan Bathery	Mink	20.46	
102	Tap I to Kakkanadu S/s from 6 KL VT	Tiger	0.1	
103	Tap II to Kakkanadu S/s from 6 NP VT	Tiger	0.1	
104	Tap line to KAMCO from CHAL feeder	Mink	0.47	
105	Tap No.I to Appollo Tyres from CHVYfeeder	Dog	0.97	
106	Tap No.I to HOC from VTPC No.I feeder	Dog	0.3	
107	Tap No.I to TELK from CHAL feeder	Mink	0.35	
108	Tap No.II to Appollo Tyres from CHVI feeder	Dog	0.97	
109	Tap No.I to Changanassery from PLCU feeder	Dog	0.03	
110	Tap No.II to Changanassery from PLTV feeder	Dog	0.03	
111	Tap No.II to Ernakulam North from KLNJ No.II feeder	Dog	4.96	
112	Tap No.II to HOC from TPPT No.II feeder	Dog	0.3	
113	Tap No.II to TELK from ALKR feeder	Mink	0.35	
114	Tap to Carborandum from KLPR No.II feeder	Mink	2.6	
115	Tap to Edamula KRL Pumphouse from KLAL feeder	Dog	1.9	
116	Tap to HMT from KLVV feeder	Mink	0.37	
117	Tap to INDSIL from KJCI No.I feeder	Dog	0.1	
118	Tap to Iruttukanam PH from PVKR feeder	Wolf	1.25	
119	Tap to Kottayam from PLET feeder	Dog	0.08	
120	Tap to Kulamavu from 6MLVZ feeDer	Dog	0.989	
121	Tap to Mulavukad from KLNJ No.II feeder	Dog	0.1	
122	Tap to Nangiarkulangara from KVMV feeder	Dog	0.01	
123	Tap to PRECOT Mills from 6KJKN feeder	Dog	1.0	
124	Tap to Thrissur Corporation from 6CHVI-2 feeder	Dog	2.1	
125	TERLS - Veli	240 Sq.mm XLPE	4.8	
126	Thiruvalla – Mavelikkara I	Dog	19.74	
127	Thiruvalla – Mavelikkara II	Dog	19.74	
128	Thripunithara- Puthencruz	14.5 km Dog+ 1.5 km UG	16	
129	Valiavelicham - Nedumpoil	Wolf	15.428	
130	Vandiperiyar - Kochu Pampa	Dog	25.215	
131	Vattiyorkavu - Thirumala	Mink	7.25	

Table 35 -66 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
132	Vazhathope - Nedumkandam	Dog 15.64 km/ Wolf 11 km	26.64	
133	Veli - Airport No.I	240 Sq.mm XLPE	4.3	
134	Veli - Airport No.II	240 Sq.mm XLPE	4.3	
135	Veli-TTPL	UG	0.705	
136	Vyttila - Panampilly Nagar	Dog	2.7	
137	Vyttila - PCB	Dog	13.1	
138	Vyttila - Perumanoor	Dog	3.5	
139	Vyttila-Tripunithara	Dog 3 km/ UG 2.275 km	5.275	
<b>66kV LINE-Total in Ckt.KM</b>			<b>1572.11</b>	
<b>V. 33 kV Lines</b>				
1	Agastyamoozhi - Thambalamanna No.I	Dog	8.6	
2	Agastyamoozhi - Thambalamanna No.II	Dog	8.6	
3	Agastyamoozhi - Vellannur	Dog	8.3	
4	Ambalappuram - Chengamanad	Dog	12.56	
5	Ambalappuram - Ezhukone	Dog	4.4	
6	Ambalappuram - Pooyappally	Dog	11	
7	Ambalappuram - Puthur (Kollam)	Dog	10.4	
8	Ambalathara – Solar Park 1	33 kV XLPE 3X300 mm UG Cable	1.3	
9	Ambalathara – Solar Park 2	33 kV XLPE 3X300 mm UG Cable	1.3	
10	Ambalathara – Solar Park 3	33 kV XLPE 3X300 mm UG Cable	1.3	
11	Ambalathara – Solar Park 4	33 kV XLPE 3X300 mm UG Cable	1.3	
12	Ambalathara – Solar Park 5	33 kV XLPE 3X300 mm UG Cable	1.3	
13	Ambalathara – Kanhangad I	Dog	6.2	
14	Ambalathara – Kanhangad II	Dog	6.2	
15	Anakkampoyil- Thambalamanna	AL 59	9	
16	Anchangady - Methala	Dog	9.61	
17	Athani - Erumappetty	Dog	13	
18	Athani - Mundoor	Dog	8	
19	Attingal - Kacheri UG Cable	UG	4.8	
20	Attingal - Kadakkavur	Dog	11.247	
21	Attingal - Venjaramoodu	Dog	10.935	
22	Azhikode - Coast Guard	UG	13.74	
23	Azhikode - Kannur Town	Dog	7.9	
24	Belur - Rajapuram	UG	13.815	
25	Brahmapuram – DLF Tower I	UG	8.234	
26	Brahmapuram – DLF Tower I	UG	8.234	
27	Chalakudy - Kallettumkara	Dog	11.497	
28	Chalakudy - Koratty	Dog	6.9	
29	Chalakudy - Pariyaram (Thrissur)	Dog	7.8	
30	Chalakudy - Vellikulangara	Dog	14.158	
31	Chattankottunada – Kuttiyadi	UG Cable 3x300 sq.mm XLPE	7.5	
32	Chavakkad ( Punna) - Blangad	Dog(OH+UG)	5.943	
33	Chelari - KINFRA No.I	Dog	2.26	
34	Chelari - KINFRA No.II	Dog	2.26	
35	Chembukadavu-II PH - Chembukadavu-I PH	Dog	1.1	
36	Chengannur - Mannar	Dog	11.3	
37	Cherpu - Chirakkal	Dog	5.8	
38	Cherpu - Palakkal	Dog	5.4	
39	Cheruvathur - Thrikkarippur	Dog	11.2	
40	Cheruvathur - West Elery	Dog	17.5	
41	Edappally-Aims I	3x300 sq.mm XLPE	0.085	
42	Edappally-Aims II	3x300 sq.mm XLPE	0.085	
43	Edappally-Medicity I	3x300 XLPE	2.75	cable not energised
44	Edappally-Medicity II	3x300 XLPE	2.75	
45	Edappon - Pandalam	Dog	8	
46	Edappon-Vallikunnam	Dog	17.7	

Table 35 -33 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
47	Edarikkode-Kalpakanchery	Dog	12	
48	Edarikkode - Kooriyad (Kakkad)	Dog	8	
49	Edarikkode - Othukungal	Dog	8.2	
50	Edathua - Kadapra	Dog	9.2	
51	Edavanna - Wandoor	Dog	13.2	
52	Guruvayoor - Chavakkad	Dog	6.7	
53	Irinjalakuda - Parappukara No.I	Dog	11.6	
54	Irinjalakuda - Parappukara No.II	Dog	11.6	
55	Irinjalakuda - Vellangallur	Dog	6.5	
56	Iritty-Barapole 1	UG	14.7	
57	Iritty-Barapole 2	UG	14.7	
58	Kaduthuruthy - Kallara	Dog	7.7	
59	Kaipamangalam - Anchangady No.I	Dog	8.5	
60	Kaipamangalam - Anchangady No.II	Dog	8.5	
61	Kaloor - Lulu Mall No.I	300 Sq.mm XLPE	4.2	
62	Kaloor - Lulu Mall No.II	300 Sq.mm XLPE	4.2	
63	Kaloor - Lulu Mall No.III	300 Sq.mm XLPE	4.2	
64	Kaloor-Kaloor Metro II	XLPE UG CABLE	0.22	
65	Kaloor-Lulu Hotel I	UG CABLE	5.659	
66	Kaloor-Lulu Hotel II	UG CABLE	5.642	
67	Kaloor- Thammanam I	XLPE UG CABLE	4.12	
68	Kaloor- Thammanam II	XLPE UG CABLE	4.12	
69	Kandassankadavu - Mullassery	Dog	7.63	
70	Kandassankadavu - Vadanappilly	Dog	4.26	
71	Kanhangad - Belur	Dog	11.2	
72	Kanhangad – Kanhangad Town	2 km Dog/ 4.99 km UG	6.99	
73	Kanhangad - Neeleswaram	Dog	10.3	
74	Kanhirode - Kuttiyattoor	Dog	8.9	
75	Kanhirode - Pazhassi	Dog	18.7	
76	Kaniyampetta - Kalpetta	Dog	9.5	
77	Kaniyampetta - Meenangadi	Dog	10	
78	Kaniyampetta - Padinjarethara	Dog	16.5	
79	Kaniyampetta - Pulpally	Dog	24.5	
80	Kayamkulam - Oachira	Dog	11	
81	Kazhakuttom-Lulu I	UG	7	
82	Kazhakuttom-Lulu II	UG	7	
83	Keezhissery - Chelari	Dog	14	
84	Keezhissery – Edavanna I	Dog	22	
85	Keezhissery – Edavanna II	Dog	22	
86	Keezhissery - Valluvambram	Dog	11	
87	Kilimanoor - Kadakkal	Dog	9.5	
88	Kilimanoor - Kallambalam	Dog	15	
89	Kollenkode - Koduvayur	Dog	11.7	
90	Kollenkode - Muthalamada	Dog	9.7	
91	Kollenkode - Nelliampathy	Dog	9.5	
92	Kollenkode - Pallassena	Dog	8.7	
93	Koottanad - Chalissery	Dog	4.5	
94	Koottanad - Thrithala	Dog	5.3	
95	Koppam – Maruthur	Dog	10.1	
96	Koppam-Pulamanthole	Dog	4.5	
97	Koppam – Pulamanthole-T-Thazhekod	Dog	24	
98	Koppam - Thiruvegappura	Dog	13.2	
99	Kottiyam - Adichanallur	Dog	9.85	
100	Kottiyam - Kannanallur	Dog	7.5	
101	Kottiyam - Paravoor	Dog	4.85	
102	Koyilandi - Balussery	Dog	13	
103	Kozhinjampara - Meenakshipuram	Dog	4	
104	Kozhinjampara - Vannamada	Dog	16	
105	Kozhinjampara - Velanthavalam	Dog	9.2	
106	Kunnamangalam - Vellannur	UG	5.3	

Table 35 -33 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
107	Kunnankulam - Kongannur	Dog	8.5	
108	Kurumassery - Puthenvelikkara	Dog	7.2	
109	Kurumassery 110 - Kurumassey 33	Dog	1.2	
110	Kurumassery-Annamanada	Dog	9.1	
111	Kuthunkal-Senapathy	Dog	16.79	
112	Kuttiapuram - Thirunavaya	Dog	16.5	
113	Kuttiyadi - Poozhithodu PH	Dog	13.7	
114	Makkaraparamba - Pulamanthole	Dog	14.2	
115	Malampuzha- Olavakkode	Dog	8.5	
116	Malappuram - Makkaraparamba	Dog	8.7	
117	Malappuram - Valluvambram	Dog	11	
118	Malayattoor - Kalady	Dog	6.3	
119	Malayattoor - Koovapady	Dog	4.2	
120	Mallappally - Karukachal	Dog	7.1	
121	Mallappally - Kumbanad	Dog	10.5	
122	Mannarkkad - Agali No.I	Dog	28.5	
123	Mannarkkad - Agali No.II	Dog	28.5	
124	Mannarkkad - Alanellur	Dog	16.2	
125	Maruthur- South Malabar	UG	0.8	
126	Mattannur - Kuyiloor (KWA) No.I	Dog	5	
127	Mattannur - Kuyiloor (KWA) No.II	Dog	5	
128	Mattannur- KIAL 33 DC	UG	12.4	
129	Mattannur-Pazhassi	3x300 sq.mm XLPE cable+ covered conductor	10.24	
130	Mattannur-Tholambra	3x300 sq.mm XLPE cable+ covered conductor	16.07	
131	Medical college, TVM - Pattoor SC UG	UG	3.3	
132	Medical college, TVM - Vidyuthi Bhavanam	UG	4	
133	Meenangadi- Ambalavayal	Dog	3	
134	Melattur - Thazhekode	Dog	23	
135	Melattur - Wandoor	Dog	18.7	
136	Meppayur - Melady	Dog	9.45	
137	Meppayur - Perambra	Dog	8.5	
138	Moovattupuzha - Kalloorkkad	Dog	14	
139	Moovattupuzha - Mazhuvannur	Dog	4.8	
140	Mulleria – Badiadka	Dog	12.5	
141	Mulleria - Perla	Dog	15.8	
142	Mulloorkara - Chelakkara	Dog	9.7	
143	Mundakkayam - Kootikkal	Dog	8.09	
144	Mundayad - Puthiyatheru	Dog	6.5	
145	Mundayad - Thottada	Dog	10.5	
146	Nadukani - Alakode	Dog	16.7	
147	Nallalam - Feroke	(OH Dog+UG)	7.5	
148	Nallalam-Hilite	UG	9.5	
149	Nedumangad – Aryanadu	OH+UG	12.5	
150	Nedumangad - Chullimanur	Dog	5.8	
151	Nedumangad - Vithura No.I	Dog	12.1	
152	Nedumangad - Vithura No.II	300 sq.mm XLPE	24.518	
153	Nedumangad to LPSC SC UG	UG	5.1	
154	Nedumkandom - Vandamedu	Dog	21	
155	Nedumpoil - Kelakom	UG	10.23	
156	Nilambur - Pookkottumpadam	Dog	8.05	
157	Nilambur- Pothukallu	Dog	17.5	
158	Nilambur- Pothukallu-Tap- Adyanpara	Dog	1.5	
159	North Parur - Alangad	Dog	6.75	
160	North Parur - Vadakkekara	Dog	9.724	
161	North Parur - Varappuzha	Dog	8.5	
162	Ollur - Pattikkad	Dog	16	
163	Ollur - Puthur (Thrissur)	Dog	4.3	

Table 35 -33 kV lines continued



Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
164	Paivalika Solar Park- Kubanur 1	Covered Conductor XLPE	8	
165	Paivalika Solar Park- Kubanur 2	Covered Conductor XLPE	8	
166	Pala - Kidangoor	Dog	9.6	
167	Pala - Paika	Dog	10	
168	Pala - Ramapuram	Dog	10	
169	Palakkad Vydhyuthi Bhavan - Olavakkode	Covered conductor/ABC	2.78	
170	Pallivasal-Marayoor	Dog	55	
171	Panoor - Kodiyeri	Dog	6.5	
172	Panoor - Puthur (Kannur)	Dog	8.9	
173	Parali - Kongad	Dog	12	
174	Parali - Maniyampara	Dog	8	
175	Parali - Sreekrishnapuram	Dog	30	
176	Parappur - Mullassery	Dog	6.3	
177	Parassala - Poovar	Dog	15.5	
178	Parassala - Vellarada	Dog	14.5	
179	Parippally-ESIC I	3x300 sq.mm XLPE	3.7	
180	Parippally-ESIC II	3x300 sq.mm XLPE	3.7	
181	Pathanamthitta - Konny	Dog	8.3	
182	Pathanamthitta - Ranni Perinad	Dog	18.6	
183	Pattambi-Maruthur	3x300 sq.mm XLPE	3.1	
184	Payyannur - Payyannur Town	Dog	5.49	
185	Peerumedu - Upputhara	Dog	23	
186	Peerumedu - Vagaman	Dog	17	
187	Perumbavoor - Kurupampady	Dog	8.5	
188	Perumbavoor – Travancore Rayons Tap1	Dog	1.3	
189	Perumbavoor – Travancore Rayons Tap2	Dog	1.3	
190	Perumbavoor - Vengola	Dog	4.8	
191	Perumthenaruvu-Ranni-Perinad-Tap-Ranni	UG	9.24	
192	Pinarayi - Dharmadom	Dog	5.8	
193	Pinarayi - Tholambra	Dog	31	
194	Pinarayi - Thottada	Dog	10.5	
195	Punnapra - Kalarcode	Cov C	4.5	
196	Punnapra - Thakazhy	Dog	11.4	
197	Pushpakandam-Nedumkandam No.I	Dog	8	
198	Pushpakandam-Nedumkandam No.II	Dog	8	
199	Ranni - Manimala	Dog	18.5	
200	Ranni - Perumthenaruvu	OH+UG	12.1	
201	Tap to Alanellur from METZ feeder	Dog	6	
202	Tap to Ramanattukara from CLKN No.I feeder	Dog	5.92	
203	Thaliparamba - Nadukani No.I	Dog	12.5	
204	Thaliparamba - Nadukani No.II	Dog	12.5	
205	Thaliparamba - Pariyaram (Kannur)	Dog	9.2	
206	Thambalamanna - Chembukadavu-II PH	Al 59+Dog	11	
207	Thambalamanna - Urumi	Dog	5.3	
208	Thirumala - Karamana	300 sq.mm XLPE	4.95	
209	Thirumala - Peyad	300 sq.mm XLPE	7	
210	Thirunavaya - Thrikkannapuram (Thavanur)	Dog	3.1	
211	Thrikodithanam - Vakathanam	Dog	11.1	
212	Thycattussery - Kuthiyathodu No.I	Dog	6	
213	Thycattussery - Kuthiyathodu No.II	Dog	6	
214	Udumpannoor - Vannapuram	Dog	15.081	
215	Urumi - Urumi-II PH	Dog	0.2	
216	Urumi-II PH - Urumi-I PH	Dog	0.82	
217	Vadakara - Thiruvallur	Dog	10.16	
218	Vadakkenchery - Alathur	Dog	13.6	
219	Vadakkenchery - Chittadi	Dog	12.5	
220	Vadakkenchery - Tarur	Dog	11	
221	Vaikom - Kaduthuruthy No.I	Dog	10	
222	Vaikom - Kaduthuruthy No.II	Dog	10	

Table 35 -33 kV lines continued

Sl. No.	Name of Line	Conductor	Length (ckt.km)	Remarks
223	Valappad - Anthikadu No.I	Dog	8.5	
224	Valappad - Anthikadu No.II	Dog	8.5	
225	Valappad - Kaipamangalam No.I	Dog	10.7	
226	Valappad - Kaipamangalam No.II	Dog	10.7	
227	Vandiperiyar - Kumily	Dog	13	
228	Varkala - Vilakulam	300 sq.mm UG (3.7)+ OH (1.8)	5.5	
229	Vellangalore-Anchangady	Covered Conductor	7.8	2021
230	Vennakkara- Palakkad Vydhyuthi Bhavan	UG Cable + OH	5	
231	Vidyanagar - Ananthapuram	Dog	9.3	
232	Vidyanagar - Kasargod Town	Dog	5	
233	Vilangad HEP-Nadapuram	3x300 sq.mm XLPE	14.5	
234	Vithura - IISER	3x300 sq.mm XLPE	13.4	
235	Viyyur - Parappur No.I	Dog	13.6	
236	Viyyur - Parappur No.II	Dog	13.6	
237	Viyyur - Poomala	Dog	11	
238	Wadakkanchery - Mulloorkara	Dog	7.3	
239	Wandoor - Kalikavu	Dog	11.5	
240	Wandoor-Kalikavu-T-Pookkottumpadam	Dog	10	
	<b>33kV LINE-Total in Ckt.KM</b>		<b>2335.657</b>	
	<b>Grand Total</b>		<b>14244.17</b>	

**TABLE 36**  
**COST PER UNIT SENT OUT**

(All figures in Ps.)

Sl. No	Year	At Generation end		At Transmission end		At Distribution LT side	
		Including interest charges	Excluding interest charges	Including interest charges	Excluding interest charges	Including interest charges	Excluding interest charges
1	2012-13	487	480	515	501	666	632
2	2013-14	417	408	446	428	659	614
3	2014-15	382	379	422	416	625	578
4	2015-16	357	354	393	388	586	542
5	2016-17	413	410	448	443	659	613
6	2017-18	339	332	394	377	637	569
7	2018-19	60	42	398	389	653	618
8	2019-20	76	67	399	395	632	609
9	2020-21	81	72	403	397	730	693
10	2021-22	51	49	421	416	651	616

**TABLE 37**  
**ALL INDIA INSTALLED GENERATION CAPACITY(MW) OF POWER UTILITIES (Sector wise)**

As on 31-3-2022

Region	Sector	Mode wise breakup									Total
		Thermal					Nuclear	Renewable			
		Coal	Lignite	Gas	Diesel	Total		Hydro	RES* (MNRE)	Renewable (Total)	
Northern Region	State	17979.00	250.00	2879.20	0.00	21108.20	0.00	5888.25	735.85	6624.10	27732.30
	Private	22425.83	1080.00	558.00	0.00	24063.83	0.00	3241.00	25955.85	29196.85	53260.68
	Central	15732.18	250.00	2344.06	0.00	18326.24	1620.00	11502.52	379.00	11881.52	31827.76
	<b>Sub Total</b>	<b>56137.01</b>	<b>1580.00</b>	<b>5781.26</b>	<b>0.00</b>	<b>63498.27</b>	<b>1620.00</b>	<b>20631.77</b>	<b>27070.70</b>	<b>47702.47</b>	<b>112820.74</b>
Western Region	State	21290.00	900.00	2849.82	0.00	25039.82	0.00	5446.50	575.98	6022.48	31062.30
	Private	31947.17	500.00	4676.00	0.00	37123.17	0.00	481.00	32407.18	32888.18	70011.35
	Central	20479.10	0.00	3280.67	0.00	23759.77	1840.00	1635.00	666.30	2301.30	27901.07
	<b>Sub Total</b>	<b>73716.27</b>	<b>1400.00</b>	<b>10806.49</b>	<b>0.00</b>	<b>85922.76</b>	<b>1840.00</b>	<b>7562.50</b>	<b>33649.46</b>	<b>41211.96</b>	<b>128974.72</b>
Southern Region	State	20592.50	0.00	791.98	159.96	21544.44	0.00	11819.83	597.88	12417.71	33962.15
	Private	13272.00	250.00	5340.24	273.70	19135.94	0.00	0.00	45768.56	45768.56	64904.50
	Central	11835.02	3390.00	359.58	0.00	15584.60	3320.00	0.00	541.90	541.90	19446.50
	<b>Sub Total</b>	<b>45699.52</b>	<b>3640.00</b>	<b>6491.80</b>	<b>433.66</b>	<b>56264.98</b>	<b>3320.00</b>	<b>11819.83</b>	<b>46908.34</b>	<b>58728.17</b>	<b>118313.15</b>
Eastern Region	State	6970.00	0.00	100.00	0.00	7070.00	0.00	3550.22	275.11	3825.33	10895.33
	Private	5553.00	0.00	0.00	0.00	5553.00	0.00	209.00	1460.21	1669.21	7222.21
	Central	15233.68	0.00	0.00	0.00	15233.68	0.00	1005.20	10.00	1015.20	16248.88
	<b>Sub Total</b>	<b>27756.68</b>	<b>0.00</b>	<b>100.00</b>	<b>0.00</b>	<b>27856.68</b>	<b>0.00</b>	<b>4764.42</b>	<b>1745.32</b>	<b>6509.74</b>	<b>34366.42</b>
North Eastern Region	State	0.00	0.00	466.36	36.00	502.36	0.00	422.00	233.25	655.25	1157.61
	Private	0.00	0.00	0.00	0.00	0.00	0.00	0.00	210.30	210.30	210.30
	Central	770.02	0.00	1253.60	0.00	2023.62	0.00	1522.00	30.00	1552.00	3575.62
	<b>Sub Total</b>	<b>770.02</b>	<b>0.00</b>	<b>1719.96</b>	<b>36.00</b>	<b>2525.98</b>	<b>0.00</b>	<b>1944.00</b>	<b>473.55</b>	<b>2417.55</b>	<b>4943.53</b>
Islands	State	0.00	0.00	0.00	40.05	40.05	0.00	0.00	5.25	5.25	45.30
	Private	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.66	27.66	27.66
	Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.10	5.10	5.10
	<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>40.05</b>	<b>40.05</b>	<b>0.00</b>	<b>0.00</b>	<b>38.01</b>	<b>38.01</b>	<b>78.06</b>
ALL INDIA	State	66831.50	1150.00	7087.36	236.01	75304.87	0.00	27126.80	2423.32	29550.12	104854.99
	Private	73198.00	1830.00	10574.24	273.70	85875.94	0.00	3931.00	105829.76	109760.76	195636.70
	Central	64050.00	3640.00	7237.91	0.00	74927.91	6780.00	15664.72	1632.30	17297.02	99004.93
	<b>Total</b>	<b>204079.50</b>	<b>6620.00</b>	<b>24899.51</b>	<b>509.71</b>	<b>236108.72</b>	<b>6780.00</b>	<b>46722.52</b>	<b>109885.38</b>	<b>156607.90</b>	<b>399496.62</b>

Figures at decimal may not tally due to rounding off

**\*Break up of Renewables**

Small Hydro Power	Wind Power	Bio Power		Solar Power	Total capacity
		BM Power /Co-gen	Waste to Energy		
4848.90	40357.58	10205.61	476.75	53996.54	<b>109885.38</b>

Source - Installed Capacity as on 31.03.2022 CEA Monthly Report

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

As on 31-3-2022

State / UT / Utilities	Mode wise breakup									Grand Total
	Thermal					Nuclear	Renewable			
	Coal	Lignite	Gas	Diesel	Total		Hydro	RES* (MNRE)	Total	
Delhi	4405.51	0	2115.41	0	6520.92	102.83	723.09	270.12	993.21	7616.96
Haryana	8636.58	0	685.61	0	9322.19	100.94	2324.62	1242.13	3566.75	12989.88
Himachal Pradesh	151.69	0	62.01	0	213.7	28.95	3248.88	1040.47	4289.35	4532
Jammu & Kashmir & Ladakh	577.14	0	304.07	0	881.21	67.98	2321.88	239.05	2560.93	3510.12
Punjab	8315.5	0	414.01	0	8729.51	196.81	3818.28	1767.82	5586.1	14512.42
Rajasthan	11599.59	1580	824.9	0	14004.49	556.74	1941.93	17040.62	18982.55	33543.78
Uttar Pradesh	20483.54	0	549.49	0	21033.03	289.48	3424.03	4483.52	7907.55	29230.06
Uttarakhand	491.6	0	519.66	0	1011.26	31.24	1975.89	931.8	2907.69	3950.19
Chandigarh	44.83	0	15.03	0	59.86	8.01	101.71	55.17	156.88	224.75
Central unallocated	1431.03	0	291.05	0	1722.08	237.03	751.45	0	751.45	2710.56
<b>Total Northern Region</b>	<b>56137.01</b>	<b>1580</b>	<b>5781.24</b>	<b>0</b>	<b>63498.25</b>	<b>1620.01</b>	<b>20631.76</b>	<b>27070.7</b>	<b>47702.46</b>	<b>112820.72</b>
Goa	492.27	0	67.67	0	559.94	26	2	20.34	22.34	608.28
Daman & Diu	164.74	0	43.34	0	208.08	7	0	40.72	40.72	255.8
Gujarat	16302.27	1400	6586.82	0	24289.09	559	772	16587.9	17359.9	42207.99
Madhya Pradesh	16087.48	0	332	0	16419.48	273	3223.66	5468.88	8692.54	25385.02
Chattisgarh	12221.89	0	0	0	12221.89	48	233	869.08	1102.08	13371.97
Maharashtra	25254.18	0	3512.73	0	28766.91	690	3331.84	10657.08	13988.92	43445.83
Dadra & Nagar Haveli	422.44	0	66.34	0	488.78	9	0	5.46	5.46	503.24
Central unallocated	2771	0	197.59	0	2968.59	228	0	0	0	3196.59
<b>Total Western Region</b>	<b>73716.27</b>	<b>1400</b>	<b>10806.49</b>	<b>0</b>	<b>85922.76</b>	<b>1840</b>	<b>7562.5</b>	<b>33649.46</b>	<b>41211.96</b>	<b>128974.72</b>
Andhra Pradesh	10430.71	180.23	4066.72	36.8	14714.46	127.27	1673.6	9211.56	10885.16	25726.89
Telangana	9438.8	210.57	831.82	0	10481.19	148.73	2479.93	4959.19	7439.12	18069.04
Karnataka	9846.3	471.9	0	25.2	10343.4	698	3631.6	15904.59	19536.19	30577.59
Kerala	2058.92	314.2	533.58	159.96	3066.66	362	1856.5	670.7	2527.2	5955.86
Tamilnadu	12357.99	1767.3	1027.18	211.7	15364.17	1448	2178.2	16148.61	18326.81	35138.98
NLC	0	166	0	0	166	0	0	0	0	166
Pondicherry	140.8	111.8	32.5	0	285.1	86	0	13.69	13.69	384.79
Central unallocated	1426	418	0	0	1844	450	0	0	0	2294
<b>Total Southern Region</b>	<b>45699.52</b>	<b>3640</b>	<b>6491.8</b>	<b>433.66</b>	<b>56264.98</b>	<b>3320</b>	<b>11819.83</b>	<b>46908.34</b>	<b>58728.17</b>	<b>118313.15</b>
Bihar	6825.71	0	0	0	6825.71	0	110	387.35	497.35	7323.06
Jharkhand	2446.5	0	0	0	2446.5	0	191	97.14	288.14	2734.64
West Bengal	8617.34	0	100	0	8717.34	0	1396	586.95	1982.95	10700.29
DVC	3247.02	0	0	0	3247.02	0	186.2	0	186.2	3433.22
Odisha	5027.21	0	0	0	5027.21	0	2163.22	617.09	2780.31	7807.52
Sikkim	53.57	0	0	0	53.57	0	633	56.79	689.79	743.36
Central unallocated	1539.33	0	0	0	1539.33	0	85.01	0	85.01	1624.34
<b>Total Eastern Region</b>	<b>27756.68</b>	<b>0</b>	<b>100</b>	<b>0</b>	<b>27856.68</b>	<b>0</b>	<b>4764.43</b>	<b>1745.32</b>	<b>6509.75</b>	<b>34366.43</b>
Assam	402.52	0	764.92	0	1167.44	0	522.08	154.05	676.13	1843.57
Arunachal Pradesh	37.05	0	46.82	0	83.87	0	544.55	142.34	686.89	770.76
Meghalaya	51.6	0	109.69	0	161.29	0	409.27	50.48	459.75	621.04
Tripura	56.1	0	518.94	0	575.04	0	68.49	30.9	99.39	674.43
Manipur	47.1	0	81.58	36	164.68	0	95.34	17.7	113.04	277.72
Nagaland	32.1	0	73.93	0	106.03	0	66.33	33.71	100.04	206.07
Mizoram	31.05	0	60.46	0	91.51	0	97.94	44.37	142.31	233.82
Central unallocated	112.5	0	63.62	0	176.12	0	140	0	140	316.12
<b>Total North Eastern Region</b>	<b>770.02</b>	<b>0</b>	<b>1719.96</b>	<b>36</b>	<b>2525.98</b>	<b>0</b>	<b>1944</b>	<b>473.55</b>	<b>2417.55</b>	<b>4943.53</b>
Andaman & Nicobar Island	0	0	0	40.05	40.05	0	0	34.74	34.74	74.79
Lakshadweep	0	0	0	0	0	0	0	3.27	3.27	3.27
<b>Total Islands</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40.05</b>	<b>40.05</b>	<b>0</b>	<b>0</b>	<b>38.01</b>	<b>38.01</b>	<b>78.06</b>
<b>GRAND TOTAL</b>	<b>204079.5</b>	<b>6620</b>	<b>24899.49</b>	<b>509.71</b>	<b>236108.7</b>	<b>6780.01</b>	<b>46722.52</b>	<b>109885.38</b>	<b>156607.9</b>	<b>399496.61</b>

Figures at decimal may not tally due to rounding off

Source: Installed Capacity as on 31.03.2022 CEA Monthly Report