



PUBLIC ELECTRICITY SUPPLY—ALL INDIA STATISTICS

1961-1962

GENERAL REVIEW

**[As compiled by the Central Water and Power Commission (Power Wing)
for and on behalf of the Central Electricity Authority]**

1964

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FOREWORD

Salient features of the Public Electricity Supply in the Republic of India for the year 1961-62 are summarised in this Review, on the same pattern as in previous years.

Although most of the State Electricity Boards/State Governments and privately owned Electricity Supply Undertakings have made available in time the data for compiling this Review, yet, some of them have failed to do so, thereby leaving no alternative to this Commission but to resort to estimating it in their cases. As this publication is intended to present as far as possible a correct picture of the progress achieved by the Electricity Supply Industry in the different states of the country, it is hoped that necessary co-operation would continue to be extended by both the Public & Private Sectors of the Electricity Supply Industry for achieving this objective.

Thanks are due to the State Electricity Boards and other Electricity Supply Undertakings in the Public and Private Sectors of the Electric Supply Industry for their whole hearted co-operation without which it would not have been possible to complete this review.

Every effort has been made to ensure the accuracy of the information presented in this publication but it has to be noted that the Government of India cannot accept responsibility for any errors or omissions.

Suggestions for improvement of the publication will be welcome.

M. R. CHOPRA
CHAIRMAN

CENTRAL WATER AND POWER COMMISSION
(POWER WING) "CLEREMONT", SIMLA-4
SEPTEMBER, 1962

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SECTION 1
PLANT DATA POWER GENERATION

PUBLIC ELECTRICITY SUPPLY ALL INDIA STATISTICS

GENERAL REVIEW

1.0 GENERAL POWER SUPPLY POSITION

During the year 1961-62 the total installed generating plant capacity in India rose to 5,202 Megawatts and the total generation increased to 19,670 million kWh. The installed plant capacity increased by 11.7 per cent and generation by 16.1 per cent and the number of consumers increased by 13.5 per cent over that in the previous year. Table I gives the salient features of the power supply industry in India for the years, 1951, 1956, 1959-60, 1960-61 and 1961-62.

The number of undertakings, their aggregate generating plant capacity, power production, fuel consumption, power sales, number of consumers, total connected load, the total number of electrified towns and villages the length of Transmission and H. V. Distribution lines and the capital expenditure of the entire power supply industry for these years are given in this table. Similar details in respect of each of the states has been given in Section 3 of this report.

TABLE I—OUTSTANDING FEATURES OF THE ELECTRICITY SUPPLY INDUSTRY FOR THE YEARS, 1951, 1956, 1959-60, 1960-61 and 1961-62

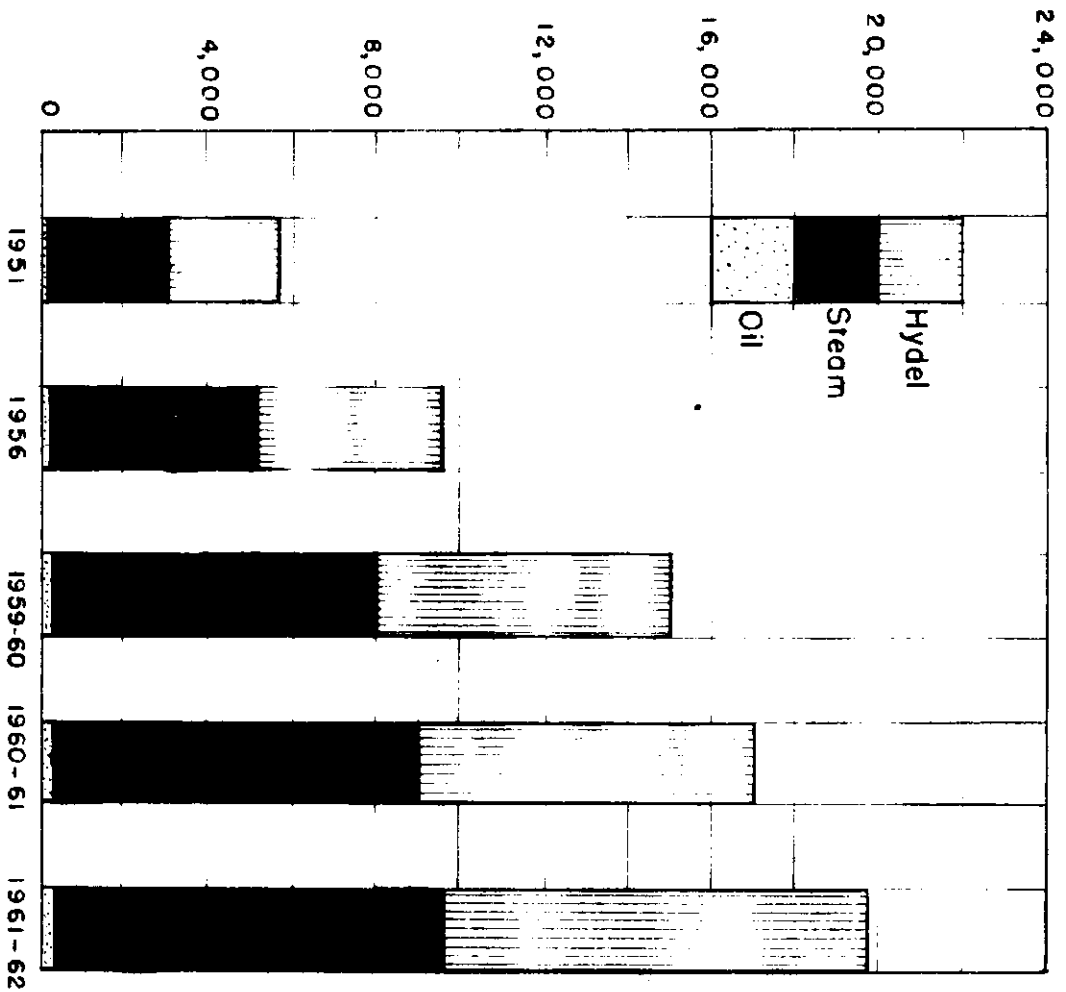
(ALL INDIA)

Year	1951	1956	1959-60	1960-61	1961-62
1. AUTHORISED UNDERTAKINGS					
<i>a) Generating—</i>					
(i) Public Sector	188	46	40	42	49
(ii) Private Sector	227	179	141	130	116
Total ..	415	225	181	172	165
<i>(b) Receiving Bulk Supply—</i>					
(i) Public Sector	81	23	31	32	36
(ii) Private Sector	89	122	138	133	142
Total ..	170	145	169	165	178
Grand Total ..	585	370	350	337	343

TABLE I—contd.

Year	1951	1956	1959-60	1960-61	1961-62
2. GENERATING CAPACITY (kW)					
Steam Plant	1,097,567	1,596,412	2,047,011	2,436,255	2,466,019
Oil Plant	162,680	228,288	296,010	300,135	316,764
Hydro Plant	575,179	1,061,441	1,530,145	1,916,661	2,419,106
Total	1,835,426	2,886,141	3,873,166	4,653,051	5,201,883
3. OUTPUT (MILLION kWh)					
Steam Plant	2,779.059	5,133,900	7,678,429	8,732,409	9,475.875
Oil Plant	219.646	233.356	327.100	368.022	379.694
Hydro Plant	2,859.698	4,294.877	7,027.424	7,836.581	9,814.376
Total	5,858.403	9,662.133	15,032.953	16,937.012	19,669.945
4. FUEL CONSUMPTION (METRIC TONS)					
(a) Coal	2,478,199	4,067,348	5,759,000	6,699,590	7,236,361
(b) Diesel	73,148	76,261	99,889	111,974	118,194
5. MAXIMUM DEMAND (kW)	1,205,194	1,989,774	2,931,360	3,545,930	3,971,206
6. SALES (MILLION kWh)					
(a) Domestic Light and Small Power ..	594.080	934.122	1,378.538	1,492.291	1,698.091
(b) Commercial Light and Small Power	330.016	545.851	766.184	847.735	934.092
(c) Industrial	3,058.889	5,323.424	8,455.534	9,584.338	11,544.975
(d) Public Lighting	67.602	117.707	177.984	193.241	215.530
(e) Traction	329.594	404.925	440.594	453.923	584.768
(f) Irrigation and Dewatering ..	203.048	316.178	653.946	832.921	991.133
(g) Public Water Works ..	210.115	317.078	434.163	436.190	479.706
Total	4,793.344	7,959.345	12,406.943	13,840.639	16,448.295
7. TRANSMISSION LINES (KM)	39,308.86	85,961.12	132,473.10	157,887.95	169,511.38
8. NO. OF CONSUMERS—					
(a) Domestic light and small power ..	1,307,059	2,180,659	3,100,327	3,666,889	4,153,869
(b) Commercial light and small power	273,280	469,845	634,997	672,554	770,082
(c) Industrial Power including traction and Public Water Works.	70,704	107,756	150,789	178,692	190,149
(d) Public lighting	2,367	3,694	7,382	15,126	18,088
(e) Irrigation and Dewatering ..	24,395	62,848	136,245	195,902	236,243
Total	1,677,805	2,824,802	3,029,740	4,729,163	5,368,431

GENERATION (IN MILLION KWH)



Y E A R S

TABLE I—*contd.*

Year	1951	1956	1959-60	1960-61	1961-62
9. CONNECTED LOAD (kW)					
(a) Domestic light and small power ..	858,958	1,319,328	1,863,872	2,234,786	2,395,874
(b) Commercial heat and small power	327,579	407,631	504,756	526,070	599,321
(c) Industrial Power including traction and Public Water Works.	1,723,110	2,632,280	3,992,612	4,561,915	4,518,548
(d) Public Lighting	22,723	36,805	57,889	76,155	96,427
(e) Irrigation & Dewatering ..	140,421	327,774	601,411	826,530	992,217
Total	3,072,791	4,723,818	7,020,537	8,225,456	8,602,397
10. ELECTRIFIED TOWNS AND VILLAGES ..	4,051	12,305	21,396	23,969	29,069
11. CAPITAL EXPENDITURE (Rs. Crores) ..	169.1	516.9	713.2	758.8	N.A.

2.0 AUTHORISED UNDERTAKINGS

The total number of undertakings included in the review are 343 reckoned on the basis of ownership. The operating data relating to these has been based on the various monthly and annual returns received from the reporting centres. Out of these 343 undertakings, 165 generated power and 178 were engaged in the retail distribution of bulk power purchased mostly from other public electric utility generating stations. A small amount of power was also purchased by them from industrial power stations situated close by. The Inter-State sale of power between adjoining states formed an insignificant portion of the total power sales in the country.

Table II gives the classification of the undertakings according to ownership and source of power supply.

TABLE II—AUTHORISED UNDERTAKINGS (OWNERSHIPWISE)

Ownership	Number of Undertakings		Total
	Generating	Distributing	
(i) Public Sector—			
(a) Government/State Electricity Boards	17	3	20
(b) Power Corporations	2	..	2
(c) Municipalities	30	33	63
Total	49	36	85
(ii) Private Sector—			
(a) Companies	116	142	258
Grand Total	165	178	343

The distribution of the undertakings in the different States is given in table III which indicates the extent to which the two sectors have participating interests in the development of electrical resources in each of the States.

3.0 ACQUISITION OF ELECTRICITY SUPPLY UNDERTAKINGS

During the year, 19 undertakings were acquired by the State Electricity Boards in the interest of rationalising power supply in the licencees' areas. The licence of one company owned undertaking was revoked by the Orissa State Electricity Board and one Municipal Undertaking in Punjab was transferred to State Electricity Board.

ACQUISITION OF ELECTRICITY SUPPLY UNDERTAKINGS

Name of undertaking	Prior ownership	By whom acquired
A. Generating Power Systems—		
1. Anjar	Company	The Gujarat Electricity Board
2. Dhari	Company	The Gujarat Electricity Board
3. Burhanpur	Company	Madhya Pradesh Electricity Board
4. Sitamau	Company	Madhya Pradesh Electricity Board
5. Bijapur	Company	Mysore State Electricity Board
6. Bidar	Company	Mysore State Electricity Board
7. Savanur	Municipal	Mysore State Electricity Board
8. Balasore	Company	Orissa State Electricity Board
9. Berhampur	Company	Orissa State Electricity Board
10. Nathdwara	Company	Rajasthan State Electricity Board
11. Pali	Company	Rajasthan State Electricity Board
12. Partabgarh	Company	Rajasthan State Electricity Board
13. Gourepora	Company	West Bengal State Electricity Board
14. Malda	Company	West Bengal State Electricity Board
B. Distributing Power System—		
1. Masulipatam	Municipal	Andhra Pradesh Electricity Board
2. Vijayawada	Municipal	Andhra Pradesh Electricity Board
3. Thangadh	Company	Gujarat Electricity Board
4. Sihor	Company	Gujarat Electricity Board
5. Cuttack	Company	Orissa State Electricity Board
6. Nilokheri	Municipal	Punjab State Electricity Board
7. Hanumangarh	Municipal	Rajasthan State Electricity Board

The total generating plant capacity in the aforesaid undertakings was 49,843 kW at the time of acquisition

TABLE III—STATEWISE DISTRIBUTION OF UNDERTAKINGS AND INSTALLED GENERATING PLANT CAPACITY.

Serial No.	Name of State or Union Territory	Public Sector						Private sector		All India Total			
		Government/State Electricity Board		Power Corporation		Municipality		Total				Company	
		Total number	Installed capacity (kW)	Total number	Installed capacity (kW)	Total number	Installed capacity (kW)	Total number	Installed capacity (kW)	Total number	Installed capacity (kW)	Total number	Installed capacity (kW)
1	Andhra Pradesh	1	258,275	..	..	..	..	1	258,275	2	165	3	258,440
2	Assam	1	21,059	—	..	..	..	1	21,059	6	5,428	7	26,487
3	Bihar	1	21,360	1	299,000	..	..	2	320,360	10	33,766	12	354,126
4	Gujarat	1	145,395	—	—	13	2,656	14	148,051	41	215,485	55	363,536
5	Jammu & Kashmir	1	21,981	—	..	..	..	1	21,981	..	..	1	21,981
6	Kerala	1	151,315	—	—	1	..	2	151,315	6	..	8	151,315
7	Madhya Pradesh	1	247,815	..	..	1	78	2	247,893	17	22,880	19	270,773
8	Madras	1	557,266	..	..	5	—	6	557,266	8	..	14	557,266
9	Maharashtra ..	1	283,047	..	..	18	2,112	19	285,159	63	485,392	82	770,551
10	Mysore	1	195,975	..	..	..	..	1	195,975	15	4,743	16	200,718
11	Orissa	1	136,685	..	..	..	..	1	136,685	1	427	2	137,112
12	Punjab	1	670,850	..	..	2	3,660	3	674,510	14	3,634	17	678,144
13	Rajasthan	1	60,298	..	..	7	376	8	60,674	12	11,271	20	71,945
14	Uttar Pradesh ..	1	404,903	..	..	13	8,560	14	413,463	34	88,138	48	501,601
15	West Bengal ..	1	55,228	*1	225,000	1	2,640	3	282,868	25	468,745	28	751,613
16	Union Territories												
	(a) Delhi .. .. .	..	..	..	..	2	77,230	2	77,230	2	75	4	77,305
	(b) The rest	5	8,970	..	..	63	—	5	8,970	2	..	7	8,970
	Total	20	2,240,422	*2	524,000	63	97,312	85	3,861,734	258	1,340,149	343†	5,201,883

* The Damodar Valley Corporation is reckoned on two undertakings as it has installations both in Bihar and West Bengal States.
† The figures include both the generating and distributing undertakings.

4.0 UNDERTAKINGS CHANGED OVER TO BULK POWER SUPPLY

Seven undertakings changed over to bulk power distribution during the year. Their names and the sources of bulk power supply are given below :—

Name of undertaking	Type of ownership	Name of State	Source of Supply
1. Patna	Company	Bihar	Bihar State Electricity Board
2. Broach	Company	Gujarat	The Gujarat Electricity Board
3. Jhalawar	Company	Gujarat	The Gujarat Electricity Board
4. Mandaur	Company	Madhya Pradesh	Madhya Pradesh Electricity Board
5. Sehore	Company	Madhya Pradesh	Madhya Pradesh Electricity Board
6. Kasauli	Company	Punjab	Punjab State Electricity Board
7. Unnao	Municipal	U. P.	U.P. State Electricity Board

The approximate reduction in the effective plant capacity on account of changing over of the aforesaid undertakings is 19,005 kW. The corresponding reduction in capacity during the last 4 years is as follows—

1958-59	19,994 kW
1959-60	1,451 kW
1960-61	778 kW
1961-62	19,005 kW

5.0 NEW GENERATING UNDERTAKINGS WHICH COMMENCED POWER SUPPLY

During the year, 28 new undertakings started functioning, 16 of these belong to Public Sector 12 to the Private Sector. These undertakings have been included in this review on the basis of the information supplied by the Chief Engineers and Electrical Inspectors of the States. Out of these 28 undertakings, 4 generating undertakings have supplied the data. The names of these are given as under :—

1. Municipal Undertakings at Dondaicha and Nandgaon and Company owned Undertaking at Sailu in Gujarat State.
2. Company owned undertaking at Tarakeshwar in West Bengal.

6.0 PLANT INSTALLATIONS, WITHDRAWALS ETC.

The net generating plant capacity added during the period 1st April 1961 to 31st March 1962 was 622,832 kW as compared to 779,885 kW in the corresponding period of the previous year. Out of this total added capacity, 29,764 kW or 4.6 per cent comprised steam plant, 16,629 kW 2.6 per cent diesel plant and 576,439 kW or 92.6 per cent hydro plant respectively. The plant capacity added in the public sector i.e., State Electricity Boards, Power Corporations and Municipalities was 638,325 kW or about 102.5 per cent of the total plant capacity added during the year and the remaining (—)15,493 kW or about (—)2.5 per cent was installed by the company owned undertakings. The plant capacity added in the public sector as compared with the previous year decreased from 24.7 to 14.0 per cent. The corresponding additions in the private sector registered a fall from 4.2 (—) 2.5 per cent.

In the Ahmedabad thermal station, one turbo alternator of total capacity 30,000 kW and 2 boilers of aggregate evaporating capacity of 61·512 kilograms/hr. were added during the year. The number and capacity of the generating plants and boilers installed in these steam power stations are given below:—

MAJOR STEAM TURBO ALTERNATORS INSTALLED DURING 1961-62

Serial No.	Installed at	State	Ownership	No. of Units	Capacity of each unit (kW)	Total Capacity (kW)
1	Ahmedabad	Gujarat	Company	1	30,000	30,000

BOILERS

Serial No.	Installed at	State	Ownership	No. of boilers	Evaporating capacity of each unit in 1,000 kilo-grams/hour	Steam condition at the stop valve at	
						Pressure in kilo-grams/sq. cm.	Temperature °C.
1	Ahmedabad	Gujarat	Company	2	61·512	72·00	496·1

*1 kgm./sq. cm=14·21 lbs./sq. in.

It was reported that 12 water wheels alternator sets of aggregate capacity of 496,000 kW were installed during the year. The number and capacity of generating plants installed in some of the important hydro-stations are given below :—

WATER WHEEL ALTERNATORS

Serial No.	Installed	State	Ownership	No. of units	Capacity of each unit (kW)	Total Capacity (kW)
1	Ganderbal	Jammu & Kashmir	Government	2	4,500	9,000
2	Neriamangalam	Kerala	Board	1	15,000	15,000
3	Canada (Kundah) P.H. II.	Madras	Board	1	35,000	35,000
4	Tungabhadra Left Bank (Munirabad)	Mysore	Board	1	9,000	9,000
5	Bhakra Left Bank P.H.	Punjab	Board	3	90,000	270,000
6	Ganguwal	Punjab	Board	1	29,000	29,000
7	Kotla	Punjab	Board	1	29,000	29,000
8	Rihand	U. P.	Board	2	50,000	100,000
				12		496,000

In the diesel power stations, 115 (one hundred and fifteen) sets of total capacity of 23,475 kW were installed during the year. The number and capacity of the generating plants added in some of the major diesel power stations are given below:—

MAJOR DIESEL GENERATORS

Serial No.	Installed at	State	Ownership	No. of units	Capacity of each unit (kW)	Total capacity (kW)
1	Gauhati	Assam	Board	1	686	686
2	Dibrugarh A.M.C. ..	Assam	Board	3	85	255
				1	50	50
				1	36	36
3	Doomdooma	Assam	Board	3	85	255
4	Jorhat	Assam	Board	1	350	350
5	North Lakhimpur ..	Assam	Board	1	500	500
6	Karimgani	Assam	Board	3	84	252
7	Nowgong	Assam	Board	1	512	512
				1	104	104
8	Tezpur	Assam	Board	4	560	2,240
9	Chapra	Bihar	Board	1	256	256
10	Katihar	Bihar	Board	1	256	256
11	Patan	Gujarat	Municipal ..	1	400	400
12	Vapi	Gujarat	Company ..	1	240	240
13	Lakshar	Madhya Pradesh ..	Board	1	720	720
					500	500
14	Kolhapur	Maharashtra ..	Board	3	377	1,131
15	Latur	Maharashtra ..	Board	1	144	144
				1	288	288
16	Vishrambag	Maharashtra ..	Board	1	160	160
				1	200	200
17	Nandad	Maharashtra ..	Board	1	388	388
				2	163	326
				1	256	256
				1	414	414
18	Belgaum	Mysore	Company ..	1	394	394
19	Udaipur	Rajasthan	Company ..	2	688	1,376
20	Ghaziabad	Uttar Pradesh ..	Company ..	8	560	4,480
21	Siliguri	West Bengal ..	Board	1	352	352
22	Kilokeri	Delhi	Municipal ..	1	1,012	1,012
23	Agartala	Tripura	Government	2	300	600

It is reported that an aggregate of 19,801 kW of generating capacity was withdrawn from service during the period 1st April 1961 to 31st March, 1962. Out of the withdrawn plant 2,116 kW comprised steam plant and 17,685 kW diesel plant.

Installed plant capacity as at the end of the last year report in some of the undertakings which were not correctly reported at the time of compilation have since been received and incorporated in this review.

7-0. TOTAL POWER PLANT CAPACITY AND ELECTRICITY PRODUCTION

The total installed capacity of generating plant as on 31-3-62 amounted to 5,202 MW. The capacity added in the year constituted 11.7 per cent of the total at the beginning of the year.

Total electricity production for the year 1961-62 was 19,670 million kWh registering an increase of about 16.1 per cent over that in the year 1960-61.

Table IV gives the All-India installed plant capacity and electricity production classified according to the type of generating plant.

TABLE IV—INSTALLED CAPACITY AND GENERATION BY TYPES OF GENERATING PLANT

Type of plant	Installed Capacity of Generators			Generation		
	As on 31-3-62	Percentage of total	Increase in 1961-62 as compared 1960-61	kWh generated in 1961-62	Percentage of total	Increase in 1961-62 as compared with 1960-61
	kW	%	%	(Millions)	%	%
Steam	2,466,019	47.4	1.2	9,475.875	48.2	8.5
Oil	316,764	6.1	5.5	379.694	1.9	3.2
Hydro	2,419,100	46.5	26.2	9,814.376	49.9	25.2
Total	5,201,883	100.0	11.8	19,669.945	100.0	16.1

The steam power plant capacity during the year increased by 1.1 per cent while the corresponding electricity production rose by 8.5 per cent over that in the previous year. The hydro power plant, the capacity increased by 26.2 per cent and electricity production by 25.2 per cent.

The total steam power plant capacity constituted 47.4 per cent of the total installed power plant capacity and the energy output was 48.2 per cent of the total production in India. The corresponding figures for hydro power plant were 46.5 per cent and 49.9 per cent respectively. The diesel power plant represented 6.1 per cent of the total capacity and produced only 1.9 per cent of the total generation by all the undertakings.

8-0 CLASSIFICATION OF INSTALLED POWER PLANT ACCORDING TO TYPE OF GENERATION

Table V gives separately further details of the installed generating capacity of steam, oil and hydro plants classified under direct current and alternating current plants.

As will be seen from table V that there were 2,741 generating sets of aggregate capacity 5,201,883 kW working in the electric utility power stations in India. Out of these, 301 were steam turbo-alternator sets, 40 reciprocating steam engine sets, 221 water wheels and 2,179 diesel engine sets. Among these, 266 sets generated direct current and the remaining 2,475 generated alternating current. The A. C. Plant was 99.4 per cent of the total installed plant capacity.

9-0 CLASSIFICATION OF PLANT BY OWNERSHIP.

Table VI gives the installed plant capacity and corresponding generation classified according to the ownership of the undertakings.

The installed plant capacity in the public sector (comprising Government/State Electricity Board, Power Corporation and Municipality) at the end of the year was 3,861,734 kW as compared to 1,340,149 kW in the private sector. The percentage of capacity installed in the two sectors were 74.3 per cent and 25.7 per cent respectively. The rate of plant installation in the public sector during the past few years has been relatively faster than in the private sector. In the public sector installed plant capacity increased by 14.6 per cent over that in the previous year as compared to (—) 1.1 per cent in the private sector.

The public sector generated 13,728 million kWh or 69.7 per cent of the total production. In the private sector the production was 5,942 million kW or 30.3 per cent of total production. The increase in production in the public sector was about 24.6 per cent and that in the private sector was 0.3 per cent over that in the previous year. The net increase in electricity production from both the sectors was 16.1 per cent over that in the previous year.

Table VII gives further details of the number of power stations, their installed plant capacity and generation classified according to the three main types of plant in each of the two sectors of the Electricity Supply Industry.

In power systems of the State Government/State Electricity Boards, Power Corporations and Municipalities the installed plant capacity represented 19.5 per cent, 8.1 per cent and 1.0 per cent respectively of the total All-India capacity under the Steam Plant, 3.8 per cent, 0.7 per cent and 1.6 per cent respectively under the oil plant; 39.0 per cent, 2.0 per cent and 0.2 per cent, respectively under the hydro plant.

The capacity of steam plant in the public sector expressed as percentage of the All-India total decreased from 31.1 per cent in 1960-61 to 28.6 per cent in 1961-62. The percentage of hydro plant capacity increased from 34.5 per cent to 41.2 per cent in the corresponding period. In the company owned undertakings comprising the private sector, the steam plant capacity decreased from 21.7 per cent in 1960-61 to 18.8 per cent in 1961-62 and the hydro plant decreased from 6.1 per cent to 5.3 per cent in the same period. The apparent decrease in the private sector is due to relatively faster rate of plant installation in the public sector.

10.0 SUMMARY OF INSTALLED PLANT CAPACITY AND GENERATION BY TYPE OF PLANT

Table VIII on page 15 gives the summary of installed plant capacity in the country together with the generation by type of plant. The break-up of installed capacity by ownership i.e. State Governments, State Electricity Boards, Power Corporations, Municipalities, and Company owned Undertakings is given in Table VI.

INSTALLED GENERATING PLANT AND POWER PRODUCTION IN THE RESPECTIVE STATES

The power production in the different states as classified according to ownerships, i.e. public sector or private sector is given in the Table IX without further segregation in the source or nature of generation.

Tables X, XI and XII separately give the break-up of plant capacity installed under the categories steam, Diesel and Hydro in different States in the country by public and private sectors respectively.

In West Bengal, Maharashtra, Gujarat, Bihar, Uttar Pradesh, Madhya Pradesh, Madras, Andhra Pradesh and Delhi States the aggregate steam plant capacity was 2,399,167 kW and accounted for about 97.3 per cent of the total installed steam plant capacity. The aggregate Diesel plant capacity in the States of Gujarat, Maharashtra, Uttar Pradesh, Madhya Pradesh, Rajasthan, Delhi, Bihar, Andhra Pradesh, Assam and Punjab was 255,458 kW representing about 80.6 per cent of the total oil plant capacity. The aggregate capacity of hydro plant in the states of Punjab, Madras, Maharashtra, Uttar Pradesh, Mysore, Andhra Pradesh, Kerala, Orissa, Madhya Pradesh and West Bengal was 2,345,142 kW or about 96.6 per cent of the total hydro installation in the country.

TABLE V—GENERATING PLANT-TYPE AND
(Analysis of type of Prime

Type of prime mover and generating plant	Segrega				
	Total			Public	
	Number of sets installed	Aggregate capacity of sets kW	Percentage of total plant installed capacity	Government and State Electricity Boards	
				Number of sets	Aggregate capacity kW
(i) <i>Steam turbines and—</i>					
A. C. Generators ..	299	2,454,622	48.94	178	1,008,497
D. C. generators ..	2	4,300	0.08	1	1,800
Total steam turbo plant ..	301	2,458,922	49.02	179	1,010,297
(ii) <i>Reciprocating steam engines and—</i>					
A. C. generators	37	7,045	0.14	23	4,400
D. C. generators	3	52	0.00	3	52
Total reciprocating steam plant	40	7,097	0.14	26	4,452
(iii) <i>Oil engines and—</i>					
A. C. generators ..	1,920	290,500	5.79	402	183,735
D. C. generators ..	259	26,264	0.52	159	12,828
Total Oil engine plant ..	2,179	316,764	6.31	1,561	196,563
(iv) <i>Water turbines and—</i>					
A. C. generators ..	219	2,419,034	44.53	171	2,029,044
D. C. generators ..	2	66	0.00	2	66
Total water power plant ..	221	2,419,100	44.53	173	2,029,110
GRAND TOTAL—					
A. C. generators ..	2,475	4,986,201	99.39	1,774	3,225,676
D. C. generators ..	266	30,682	0.61	165	14,746
Total Number of Generators ..	2,741	5,201,883	100.00	1,939	3,240,422

INSTALLED CAPACITY
movers and generating plant installed

tion						Type of prime mover and generating plant
Sector				Private Sector		
Power Corporation		Municipality		Company		
Number of sets	Aggregate capacity kW	Number of sets	Aggregate capacity kW	Number of sets	Aggregate capacity kW	
6	420,000	10	53,600	105	972,525	(i) <i>Steam turbines and—</i>
	..	..	..	1	2,500	A. C. generators D. C. generators
6	420,000	10	53,600	106	975,025	Total steam turbo plant
..	..	..	..	14	2,645	(ii) <i>Reciprocating steam-</i> <i>engines and—</i>
..	..	..	..	..	..	A. C. generators D. C. generators
..	..	..	..	14	2,645	Total reciprocating steam plant.
..	..	90	35,240	428	71,525	(iii) <i>Oil engines and—</i>
..	..	3	112	97	13,324	A. C. generators D. C. generators
..	..	93	35,352	525	84,849	Total Oil engine plant
6	104,000	21	8,360	21	277,630	(iv) <i>Water turbines and—</i>
..	..	..	..	..	..	A. C. generators D. C. generators
6	104,000	21	8,360	21	277,630	Total water power plant
12	524,000	121	97,200	568	1,324,325	GRAND TOTAL—
..	..	3	112	98	15,824	A. C. generators D. C. generators
12	524,000	124	97,312	666	1,340,149	Total number of Generators

TABLE VI—INSTALLED CAPACITY AND GENERATION OWNERSHIP

Ownership	Number of undertakings owning generating stations	Installed capacity of generators			Generation		
		As on 31-3-62	Percentage of grand total	Increase in 1961-62 over 1960-61	kWh generated in 1961-62	Percentage of grand total	Increase in 1961-62 over 1960-61
		kW	%	%	(Millions)	%	%
(i) <i>Public Sector—</i>							
(a) Government and State Electricity Boards.	17	3,240,422	62.3	17.3	11,293.300	57.4	24.1
(b) Power Corporation	2	524,000	10.1	00.0	2,080.929	10.5	27.2
(c) Municipality	30	97,312	1.9	0.3	354.058	1.8	1.0
(ii) <i>Private Sector—</i>							
(a) Company	116	1,340,149	25.7	(-)-1.1	5,941.658	30.3	0.3
Total	165	5,201,883	100.0	9.5	19,669.945	100.0	16.1

TABLE VII—INSTALLED CAPACITY AND GENERATION BY TYPE OF PLANTS AND OWNERSHIP

Type of plant and ownership	Number of undertakings owning generating stations	Installed capacity of Generators		Generation	
		As on 31-3-1962	Percentage of grand total	kWh generated	Percentage of grand total
		kW	%	Million	%
STEAM—					
<i>Public Sector—</i>					
(a) Government and State Electricity Board.	7	1,014,749	19.5	3,143.373	16.0
(b) Power Corporation	2	420,000	8.1	1,780.505	9.0
(c) Municipality	1	53,600	1.0	267.322	1.4
<i>Private Sector—</i>					
Company	15	977,670	18.8	4,284.675	21.8
Total for Steam Plant	25	2,466,019	47.4	9,475.875	48.2
OIL—					
<i>Public Sector—</i>					
(a) Govt. and State Electricity Board	2	196,563	3.8	179.257	0.9
(b) Power Corporation . . . . .	..	..	..	..	..
(c) Municipality	25	35,352	0.7	58.807	0.3
<i>Private Sector—</i>					
Company	99	84,849	1.6	141.630	0.7
Total for Oil Plant	127	316,764	6.1	379.694	1.9
HYDRO—					
<i>Public Sector—</i>					
(a) Govt. and State Electricity Board	8	2,029,110	39.0	7,970.670	40.5
(b) Power Corporation . . . . .	..	104,000	2.0	300.424	1.5
(c) Municipality	4	8,360	0.2	27.929	0.1
<i>Private Sector—</i>					
Company	2	277,630	5.3	1,515.363	7.8
Total for Hydro Plant	14	2,419,100	46.5	9,814.376	49.9
Grand Total (Steam, Oil and Hydro)	165	5,201,883	100.0	19,669.945	100.00

TABLE VIII—SUMMARY OF INSTALLED PLANT CAPACITY AND GENERATION BY DIFFERENT TYPES OF PLANT
(STATE-WISE) 1961-62

(Million kW)

Serial No.	Name of State or Union Territory	Installed plant capacity in kW				Generation			
		Steam	Diesel	Hydro	Total	Steam	Diesel	Hydro	Total
1	Andhra Pradesh ..	85,450	7,165	165,825	258,440	207·679	7·752	866·112	1,081·543
2	Assam .. ..	..	16,547	9,940	26,487	..	15·981	27·504	43·485
3	Bihar	288,900	21,226	44,000	354,126	1,301·349	49·203	169·489	1,520·041
4	Gujarat	310,900	52,636	..	363,536	1,308·621	57·872	..	1,366·493
5	Jammu & Kashmir	1,500	869	19,612	21,981	..	0·025	72·190	72·215
6	Kerala .. ..	..	3,815	147,500	151,315	..	..	694·020	694·020
7	Madhya Pradesh	168,532	33,241	69,090	270,773	518·948	26·371	136·725	682·044
8	Madras	101,500	516	455,250	557,266	405·990	0·255	2,122·316	2,528·561
9	Maharashtra ..	443,250	44,187	283,114	770,551	2,028·613	74·758	1,534·775	3,638·146
10	Mysore .. ..	..	13,518	187,200	200,718	..	21·848	1,079·556	1,101·404
11	Orissa	5,776	8,331	123,005	137,112	..	3·061	594·961	598·025
12	Punjab	7,326	16,248	654,570	678,144	7·137	3·906	1,850·758	1,861·801
13	Rajasthan	46,250	25,695	..	71,945	102·860	39·334	..	142·254
14	Uttar Pradesh ..	270,910	38,221	192,470	501,601	823·102	27·061	512·564	1,362·730
15	West Bengal ..	676,125	8,280	67,208	751,613	2,501·918	8·797	152·744	2,663·459
16	Union Territories—								
	(a) Delhi	53,600	23,705	..	77,305	267·322	41·381	..	308·703
	(b) The Rest ..	6,000	2,564	406	8,970	2·336	2·023	0·062	5·021
	Grand Total ..	2,466,019	316,764	2,419,100	5,201,883	9,475·875	379·694	9,814·376	19,669·945

TABLE IX—SUMMARY OF GENERATION—BY OWNERSHIP 1961-62

(Million kWh)

Serial No.	Name of State or Union Territory	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	Andhra Pradesh ..	..	1,081·213	..	..	..	1,081·543
2	Assam .. ..	..	31·917	..	..	0·330	43·485
3	Bihar .. ..	..	32·769	1,358·066	..	11·568	1,520·041
4	Gujarat .. ..	..	445·655	..	..	129·206	1,366·493
5	Jammu & Kashmir ..	72·215	..	..	4·584	916·254	1,366·493
6	Kerala .. ..	..	694·020	..	..	..	72·215
7	Madhya Pradesh ..	..	602·091	..	..	..	694·020
8	Madras .. ..	..	2,528·561	..	..	79·953	682·044
9	Maharashtra .. ..	..	918·815	..	..	..	2,528·561
10	Mysore .. ..	..	1,091·071	..	4·923	2,714·408	3,638·146
11	Orissa .. ..	..	598·025	..	..	10·333	1,101·404
12	Punjab .. ..	..	1,847·580	..	..	..	598·025
13	Rajasthan .. ..	..	116·308	..	13,276	0·945	1,861·801
14	Uttar Pradesh .. ..	..	1,047·362	..	0·257	25·691	142·254
15	West Bengal	12·377	168·302	722·863	15·025	300·343	1,362·730
	Grand Total .. ..	..	..	..	7·402	1,752·515	2,663·459
16	Union Territories—						
	(a) Delhi .. ..	..	..	..	308·591	0·112	308·703
	(b) The Rest	5·021	..	..	..	..	5·021
	Grand Total	89·619	11,203·687	2,080·929	354·058	5,941·658	19,669·945

TABLE X—INSTALLED STEAM PLANT CAPACITY BY OWNERSHIP AS ON 31-3-1962

(Kilowatt)

Serial No.	Name of State or Union Territory	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	Andhra Pradesh ..	..	85,450	..	..	..	85,450
2	Assam ..	..	..	..	..	..	..
3	Bihar ..	..	5,130	255,000	..	28,770	288,900
4	Gujarat ..	..	110,800	..	..	200,100	310,900
5	Jammu & Kashmir ..	1,500	..	..	..	..	1,500
6	Kerala ..	..	..	..	..	..	..
7	Madhya Pradesh ..	..	149,982	..	..	18,550	168,532
8	Madras ..	..	101,500	..	..	..	101,500
9	Maharashtra ..	..	255,750	..	..	187,500	443,250
10	Mysore ..	..	..	..	..	..	..
11	Orissa ..	..	5,776	..	..	..	5,776
12	Punjab ..	..	7,326	..	..	..	7,326
13	Rajasthan ..	..	46,250	..	..	..	46,250
14	Uttar Pradesh ..	..	194,285	..	..	76,625	270,910
15	West Bengal ..	..	45,000	165,000	..	466,125	676,125
16	Union Territories—	..	..	..	..	..	..
	(a) Delhi ..	..	..	..	53,600	..	53,600
	(b) The Rest ..	6,000	..	..	..	..	6,000
	Total ..	7,500	1,007,249	420,000	53,600	977,670	2,466,019

TABLE XI—INSTALLED OIL PLANT CAPACITY BY OWNERSHIP AS ON 31-3-1962

(Kilowatt)

Serial No.	Name of State or Union Territory	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	Andhra Pradesh ..	..	7,000	..	..	165	7,165
2	Assam ..	..	12,659	..	..	3,888	16,547
3	Bihar ..	..	16,230	..	..	4,996	21,226
4	Gujarat ..	..	34,595	..	2,656	15,385	52,636
5	Jammu & Kashmir ..	869	..	..	..	..	869
6	Kerala ..	..	3,815	..	..	..	3,815
7	Madhya Pradesh ..	..	28,833	..	78	4,330	33,241
8	Madras ..	..	516	..	..	..	516
9	Maharashtra ..	..	20,273	..	2,112	21,802	44,187
10	Mysore ..	..	8,775	..	..	4,743	13,518
11	Orissa ..	..	7,904	..	..	427	8,331
12	Punjab ..	..	10,704	..	1,910	3,634	16,248
13	Rajasthan ..	..	14,048	..	376	11,271	25,695
14	Uttar Pradesh ..	..	22,798	..	3,910	11,513	38,221
15	West Bengal ..	..	4,980	..	680	2,620	8,280
16	Union Territories—	..	..	..	..	..	..
	(a) Delhi ..	..	..	..	23,630	75	23,705
	(b) The Rest ..	2,564	..	..	..	..	2,564
	Total ..	3,433	193,130	..	35,352	84,849	316,764

TABLE XII—INSTALLED HYDRO PLANT CAPACITY BY OWNERSHIP AS ON 31-3-1962

(Kilowatt)

Serial No.	Name of State or Union Territory	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	Andhra Pradesh ..	..	165,825	..	..	..	165,825
2	Assam .. ..	..	8,400	..	..	1,540	9,940
3	Bihar .. ..	..	..	44,000	..	..	44,000
4	Gujarat .. ..	..	..	..	..	..	..
5	Jammu & Kashmir ..	19,612	..	..	..	..	19,612
6	Kerala .. ..	..	147,500	..	..	..	147,500
7	Madhya Pradesh ..	..	69,000	..	..	..	69,000
8	Madras .. ..	..	455,250	..	..	..	455,250
9	Maharashtra ..	..	7,024	..	..	276,090	283,114
10	Mysore .. ..	..	187,200	..	..	..	187,200
11	Orissa .. ..	..	123,005	..	..	..	123,005
12	Punjab .. ..	..	652,820	..	1,750	..	654,570
13	Rajasthan .. ..	..	..	..	..	..	..
14	Uttar Pradesh ..	..	187,820	..	4,650	..	192,470
15	West Bengal ..	4,000	1,248	60,000	1,960	..	67,208
16	Union Territories—						
	(a) Delhi .. ..	..	..	..	..	..	..
	(b) The Rest ..	406	..	..	..	..	406
	Total	24,018	2,005,092	104,000	8,360	277,630	2,419,100

Table XIII, XIV and XV separately give on a state-wise basis the generation by Steam, Diesel and Hydro plants respectively.

TABLE XIII—ELECTRICITY GENERATED BY STEAM PLANT DURING 1961-62

(Million kW)

Serial No.	Name of State or Union Territory	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power corporation	Municipality	Company	
1	Andhra Pradesh ..	..	207·679	..	..	..	207·679
2	Assam .. ..	..	..	..	..	..	..
3	Bihar .. ..	..	0·839	1,188·577	..	111·933	1,301·349
4	Gujarat .. ..	..	404·287	..	..	904·334	1,308·621
5	Jammu & Kashmir ..	..	..	..	..	..	..
6	Kerala .. ..	..	..	..	..	..	..
7	Madhya Pradesh ..	..	444·213	..	..	74·735	518·948
8	Madras .. ..	..	405·990	..	..	..	405·990
9	Maharashtra .. ..	..	872·024	..	..	1,156·589	2,028·613
10	Mysore .. ..	..	..	..	..	..	..
11	Orissa .. ..	..	..	..	..	..	..
12	Punjab .. ..	..	7·137	..	..	..	7·137
13	Rajasthan .. ..	..	102·860	..	..	..	102·860
14	Uttar Pradesh .. ..	..	536·390	..	..	286·712	823·102
15	West Bengal .. ..	..	159·618	591·928	..	1,750·372	2,501·918
16	Union Territories—	..	..	..	..	..	..
	(a) Delhi .. ..	..	..	..	267·322	..	267·322
	(b) The Rest	2·336	..	..	..	..	2·336
	Total (All-India) ..	2·336	3,141·037	1,780·505	267·322	4,286·675	9,475·875

TABLE XIV—ELECTRICITY GENERATED BY OIL PLANT DURING 1961-62

(Million kWh)

Serial No.	Name of State or Union Territory	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	Andhra Pradesh ..	..	7·422	..	..	0·330	7·752
2	Assam .. ..	..	9·321	..	..	6·660	15·981
3	Bihar .. ..	..	31·930	..	..	17·273	49·203
4	Gujarat .. ..	..	41·368	..	4·584	11·920	57·872
5	Jammu & Kashmir ..	0·025	..	..	..	..	0·025
6	Kerala .. ..	..	..	..	..	..	..
7	Madhya Pradesh ..	..	21·153	..	..	5·218	26·371
8	Madras .. ..	..	0·255	..	..	..	0·255
9	Maharashtra .. ..	..	22·461	..	4·923	47·374	74·758
10	Mysore .. ..	..	11·515	..	..	10·333	21·848
11	Orissa .. ..	..	3·064	..	..	..	3·064
12	Punjab .. ..	..	2·000	..	0·961	0·945	3·906
13	Rajasthan .. ..	..	13·446	..	0·257	25·691	39·394
14	Uttar Pradesh .. ..	..	8·617	..	4·816	13·631	27·064
15	West Bengal .. ..	..	4·657	..	1·997	2·143	8·797
16	Union Territories—	..	..	..	..	..	..
	(a) Delhi .. ..	..	..	..	41·269	0·112	41·381
	(b) The Rest	2·023	..	..	..	..	2·023
	Total (All-India) ..	2·048	177·209	..	58·807	141·630	379·694

TABLE XV—ELECTRICITY GENERATED BY HYDRO PLANT DURING 1961-62

(Million kWh)

Serial No.	Name of State or Union Territory	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	Andhra Pradesh ..	..	866·112	..	..	..	866·112
2	Assam .. ..	..	22·596	..	..	4·908	27·504
3	Bihar .. ..	..	..	169·489	..	..	169·489
4	Gujarat .. ..	..	..	..	..	..	..
5	Jammu & Kashmir ..	72·190	..	..	..	..	72·190
6	Kerala .. ..	..	694·020	..	..	..	694·020
7	Madhya Pradesh ..	..	136·725	..	..	..	136·725
8	Madras .. ..	..	2,122·316	..	..	..	2,122·316
9	Maharashtra .. ..	..	24·330	..	..	1,510·445	1,534·775
10	Mysore .. ..	..	1,079·556	..	..	..	1,079·556
11	Orissa .. ..	..	594·961	..	..	..	594·961
12	Punjab .. ..	..	1,838·443	..	12·315	..	1,850·758
13	Rajasthan .. ..	..	..	..	..	..	..
14	Uttar Pradesh .. ..	..	502·355	..	10·209	..	512·564
15	West Bengal	12·377	4·027	130·935	5·405	..	152·744
16	<i>Union Territories—</i>						
	(a) Delhi .. ..	..	..	..	..	..	..
	(b) The Rest	0·662	..	..	..	..	0·662
	Total (All-India) ..	85·229	7,885·441	300·424	27·929	1,515·353	9,614·376

Table XVI gives statewise installed plant capacity and power generation per square kilometre of area and per thousand of population.

During the year under review the overall installed plant capacity per square kilometre of area works out to 1·59 kW as against 1·40 kW in the previous year. The electrical energy generated per square kilometre of area is 6,028 kWh as against 5,191 kWh in the previous year. The net increase in capacity per square kilometre was 13·6 per cent and the net increase in generation per square kilometre was 16·1 per cent over the corresponding figure for the previous year.

The installed plant capacity per thousand of population was 11.2 kW as against 10.5 kW in the previous year whereas the power granted per thousand of population becomes 43,960 kWh as against 38,669 kWh

TABLE XVI—PLANT CAPACITY AND kWh GENERATED IN DIFFERENT STATES PER SQUARE KILOMETRE AND PER THOUSAND OF POPULATION

Serial No.	Name of State or Union Territory	Population (million)	Area square kilometre	Total Installed Capacity (kW)	Generating plant installed per 1,000 population (kW)	Generating plant installed per square kilometre (kW)	Total kWh generated (million)	kWh generated per 1,000 of population	kWh generated per square kilometre
1	Andhra Pradesh ..	36.54	273,763	258,440	7.073	0.944	1,081.543	29,599	3,950
2	Assam	12.27	220,311	26,487	2.159	0.120	43.485	3,544	197
3	Bihar	47.38	173,823	354,126	7.474	2.037	1,520.041	32,082	8,741
4	Gujarat	21.19	185,830	363,536	17.156	1.956	1,366.493	64,488	7,351
5	Jammu & Kashmir ..	3.61	222,380	21,981	6.089	0.099	72.215	20,004	325
6	Kerala	17.29	38,687	151,315	8.752	3.911	694.020	40,140	17,938
7	Madhya Pradesh ..	33.17	443,667	270,773	8.163	0.610	682.044	20,562	1,537
8	Madras	34.04	129,951	557,266	16.371	4.288	2,528.561	74,282	19,458
9	Maharashtra ..	40.42	308,000	770,551	19.064	2.502	3,638.146	90,009	11,811
10	Mysore	24.05	193,890	200,718	8.346	1.035	1,101.404	45,796	5,681
11	Orissa	17.91	156,047	137,112	7.656	0.878	598.025	33,391	3,831
12	Punjab	20.82	121,891	678,144	32.572	5.563	1,861.801	89,424	15,272
13	Rajasthan	20.87	342,134	71,945	3.481	0.210	142.254	6,882	416
14	Uttar Pradesh ..	74.98	293,765	501,601	6.690	1.707	1,362.730	18,175	4,636
15	West Bengal ..	36.12	87,762	751,613	20.809	8.583	2,663.459	73,739	30,346
16	Union Territories—								
	(a) Delhi	2.78	1,484	77,305	27.808	52.092	308.703	111,044	208.021
	(b) The Rest ..	4.18	69,489	8,970	2.146	0.129	5.021	1,201	17
	All-India Total ..	447.42	3,262.874	5,201.883	11.626	1.594	19,669.945	43,962	6,028

During 1961-62, the installed plant capacity per square kilometre of area was 52.1 kW in Delhi (comprising old Delhi and New Delhi City only), 8.6 kW in West Bengal, 4.3 kW in Madras, 5.6 kW in Punjab, 3.9 kW in Kerala, 2.5 kW in Maharashtra, 2.0 kW in Bihar, 2.0 kW in Gujarat, 1.7 kW in Uttar Pradesh and 1.0 kW in Mysore respectively. In the other States the figures for installed plant capacity per square kilometre were less than one kilowatt.

The kilowatt-hours generated per thousand of population were 111,044 kWh in Delhi (comprising old Delhi and New Delhi City only), 90,009 kWh in Maharashtra, 89,424 kWh in Punjab, 74,282 kWh in Madras, 73,739 kWh in West Bengal, 64,488 kWh in Gujarat, 45,796 kWh in Mysore, 40,140 kWh in Kerala, 33,391 kWh in Orissa, 32,082 kWh in Bihar, 29,599 kWh in Andhra Pradesh, 20,562 kWh in Madhya Pradesh, 18,175 kWh in Uttar Pradesh and 20,004 kWh in Jammu and Kashmir. In the other States the generation per thousand of population was less than 17 kWh.

The kilowatthours generated per square kilometre were 208,021 kWh in Delhi (Comprising old Delhi and New Delhi City only), 30,346 kWh in West Bengal, 19,458 kWh in Madras, 17,938 kWh in Kerala, 15,272 kWh in Punjab, 11,812 kWh in Maharashtra, 8,741 kWh in Bihar, 7,351 kWh in Gujarat, 5,681 kWh in Mysore, 4,639 kWh in Uttar Pradesh, 3,950 kWh in Andhra Pradesh and 3,831 kWh in Orissa. In other States, the kilowatthours generated per square kilometre of area were lower than 19,458.

11.0 CLASSIFICATION OF UNDERTAKINGS IN TERMS OF TOTAL INSTALLED PLANT CAPACITY

The distribution of undertakings according to installed plant capacity and the corresponding power generation are given in tables XVII and XVIII. The tables give the details separately for the public and private sectors of the industry.

TABLE XVII—CLASSIFICATION OF GENERATING UNDERTAKINGS OWNED BY DIFFERENT STATE GOVERNMENTS/STATE ELECTRICITY BOARDS, MUNICIPALITIES AND POWER CORPORATIONS IN TERMS OF TOTAL PLANT CAPACITY

Installed plant capacity (kW)	Government/State Electricity Board			Municipality			Power Corporation		
	Number of undertakings owning generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Millions)	Number of undertakings owning generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Millions)	Number of undertakings owning generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Millions)
0 to 250 ..	..	..	..	21	1,204	1.722	..	..	..
251 to 500 ..	1	456	..	..	362	..	..	..	..
501 to 750 ..	..	..	..	2	2,611	2.977	..	..	..
751 to 1,000 ..	..	861	0.685	..	..	..	..	..	..
1,001 to 2,500 ..	2	2,653	3.664	3	3,945	8.514	..	..	..
2,501 to 5,000 ..	..	5,000	0.072	2	6,300	20.678	..	..	..
5,001 to 10,000 ..	..	..	..	1	5,660	11.576	..	..	..
10,001 to 25,000 ..	2	64,400	136.901	..	..	..	..	..	..
25,001 to 50,000 ..	..	..	..	..	..	..	..	..	..
50,001 to 100,000 ..	2	115.526	296.985	1	77,230	308.591	..	..	..
100,001 and above ..	10	3,051,526	10,854.393	..	..	..	2	524,000	2,080.929
Total ..	17	3,240,422	11,293.300	30	97,312	354.058	2	524,000	2,080.929

TABLE XVIII—CLASSIFICATION OF GENERATING UNDERTAKINGS OF PUBLIC AND PRIVATE SECTORS IN TERMS OF PLANT CAPACITY

Installed Plant Capacity (kW)	Public Sector			Private Sector			Total		
	Number of undertakings owning generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Million)	Number of undertakings owning generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Million)	Number of undertakings owning generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Million)
0 to 250	21	1,204	1.722	45	6,744	5.167	66	7,948	6.889
251 to 500	1	818	..	17	9,352	8.056	18	10,170	8.056
501 to 750 ..	2	2,611	2.977	16	9,908	14.230	18	12,519	17.207
751 to 1,000 ..	..	861	0.685	6	6,783	12.996	6	7,644	13.681
1,001 to 2,500 ..	5	6,598	12.178	12	24,254	55.431	17	30,852	67.609
2,501 to 5,000 ..	2	11,300	21.350	9	38,933	80.361	11	50,233	101.711
5,001 to 10,000 ..	1	5,660	11.576	1	13,575	48.036	2	19,235	59.612
10,001 to 25,000 ..	2	64,400	136.901	7	137,850	513.983	9	202,250	650.884
25,001 to 50,000 ..	..	..	..	..	..	..	..	..	..
50,001 to 100,000 ..	3	192,756	605.576	..	..	..	3	192,756	605.576
1,00,001 and above ..	12	3,575,526	12,935.322	3	1,092,750	5,203.398	15	4,668,276	18,138.720
Total ..	49	3,861,734	13,728.287	116	1,340,149	5,941.658	165	5,201,883	19,669.945

In the public sector, 24 undertakings had installed capacity less than or equal to 1,000 kW each and these together constituted 0.15 per cent of the total plant capacity installed by public sector, similarly 8 undertakings with capacities each in the range from 1,001 to 10,000 kW formed 0.64 per cent and 17 undertakings each above 10,000 kW together represented 99.21 per cent of the total installed capacity.

In the private sector, 84 undertakings had installed capacity in the range upto 1,000 kW each, together forming 2.48 per cent of the total installation in private sector while in the capacity range 1,001 kW to 10,000 kW, 22 undertakings together formed 5.73 per cent and only 10 undertakings each having installed capacity in the range above 10,000 kW together constituted 91.79 per cent of the total installed plant capacity in the private sector.

The plant installed in 27 undertakings (17 in the public sector and 10 in the private sector) each of capacity in the range above 10,000 kW constituted 97.23 per cent of the total installed capacity in the country. The corresponding generation by the plant falling in this group was 98.6 per cent of total generation by all electricity undertakings in the country. The rest of the undertakings produced only 1.4 per cent of the total generation.

12.0 SIZES OF INDIVIDUAL GENERATING SETS

The largest capacity of steam, oil and hydro sets in operation in India were 75,000/82,500 kW, 2,140 kW and 90,000 kW respectively. Taking hydrogen cooling into account the capacity of the largest turbo-alternator would be 82,500 kW.

Table XIX gives the number of generating sets in service classified according to capacity groups.

TABLE XIX—GENERATING PLANT UNIT SIZES (SUMMARY OF THE SIZES OF GENERATORS INSTALLED) DIVISION OF TOTAL

Size of Generating Plants	Total		Percentage of total plant capacity	Public Sector						Private Sector	
	No. of Generating sets	Aggregate plant capacity		Government and State Electricity Board		Power Corporation		Municipality		Company	
				No. of sets	Aggregate plant capacity	No. of sets	Aggregate plant capacity	No. of sets	Aggregate plant capacity	No. of sets	Aggregate plant
(1) A.C. Plant		(kW)	%		(kW)		(kW)		(kW)		(kW)
Under 1,000 kW ..	2,048	315,679	6.07	1,500	217,229	..	..	93	19,250	455	79,200
1,001 kW to 2,000 kW ..	79	113,747	2.19	37	57,972	2	4,000	15	17,150	25	34,625
2,001 kW to 5,000 kW ..	127	470,575	9.04	91	341,375	..	..	8	21,200	28	108,000
5,001 kW to 10,000 kW ..	76	586,100	11.27	57	450,000	..	..	5	39,600	14	96,500
10,001 kW to 15,000 kW ..	63	831,600	15.99	39	515,100	..	..	..	..	24	316,500
15,000 kW to 20,000 kW ..	21	393,760	7.57	14	253,750	3	60,000	..	..	4	80,000
20,001 kW to 30,000 kW ..	34	892,250	17.15	20	520,250	..	..	..	..	14	372,000
30,001 kW to 50,000 kW ..	11	410,000	7.86	9	320,000	1	40,000	..	..	1	50,000
Over 50,000 kW ..	16	1,157,500	22.25	7	550,000	6	420,000	..	..	3	187,500
Sub Total A.C. Plant ..	2,475	5,171,201	99.39	1,774	3,225,676	12	524,000	121	97,200	668	1,324,325
(2) D.C. Plant ..	190	8,595	0.17	127	5,776	..	..	3	112	60	2,707
Under 100 kW ..	39	5,735	0.11	23	3,356	..	..	..	..	16	2,379
101 to 200 kW ..	20	5,027	0.10	12	3,128	..	..	..	..	8	1,899
201 to 300 kW ..	15	7,025	0.14	2	686	..	..	..	..	13	6,339
301 to 500 kW ..	..	..	..	..	..	..	..	..	..	..	..
Over 500 kW ..	2	4,300	0.09	1	1,800	..	..	..	..	1	2,500
Sub Total D.C. Plant ..	266	30,682	0.61	165	14,746	..	524,000	3	112	98	15,824
Total Generating Plant ..	2,741	5,201,883	100.00	1,939	3,240,422	12	524,000	124	97,312	666	1,340,149

Of the total installed capacity all the 2,475 A.C. sets of aggregate capacity of 5,171,201 kW and 266 D.C. generating sets of aggregate capacity 30,682 kW represented 99.41 per cent and 0.49 per cent respectively.

Table XIX also gives the distribution of generating sets according to capacity groups in respect of both the private and public sectors of the industry. In the public sector, there were 1,907 A.C. sets and 168 D.C. sets respectively. The corresponding number of sets in the private sector were 568 A.C. and 98 D.C. sets.

13.0 A.C. AND D.C. GENERATION

Out of 798 generating stations, 715 had A.C. generating plants, 75 had only D.C. generating plants and the remaining 8 had both A.C. and D.C. generating plants. The A.C. generating sets together produced 99.41 per cent of the total generation.

Table XX gives plant capacity and energy generation in terms of A.C. and D.C. plants.

TABLE XX—PLANT CAPACITY AND GENERATION BY A.C. AND D.C.

System of generation adopted	Number of generating stations	Aggregate installed capacity of generating plants (kW)	Percentage of grand total	kWh generated in (Millions)	Percentage of Grand Total
Alternating Current only	715	5,097,015	97.08	19,337.460	98.31
Alternating Current and Direct Current ..	8	74,186 4,819	1.43 0.09	302.254 10.489	1.54 0.05
Direct Current only	75	25,863	0.50	19.742	0.10
Total ..	798	5,171,201 30,682	99.41 0.59	19,639.714 30.231	99.85 0.15
Grand Total ..	798	5,201,883	100.00	19,669.945	100.00

14.0 CLASSIFICATION OF POWER STATIONS ACCORDING TO THEIR INSTALLED PLANT CAPACITY

Table XXI gives the distribution of steam power stations according to their installed capacity.

TABLE XXI—CLASSIFICATION OF STEAM POWER STATIONS IN TERMS OF GENERATING PLANT CAPACITY BOILER PLANT CAPACITY, AVERAGE OVERALL THERMAL EFFICIENCY AND AVERAGE PLANT FACTOR ETC.

Generating Plant Capacity (kW)	Number of Generating Stations	Aggregate Installed Capacity (kW)	Total kWh Generated by the Group (Millions)	Capacity of Boilers in Metric Tons/hr.	Average Capacity of the boilers in kg/kW of Generating Capacity	Average Overall Thermal Efficiency	Average Plant Factor
Up to 250 ..	3	172	..	0.4	2.3	..	..
251 to 500 ..	5	1,625	2.747	24.6	15.1	3.6	19.3
501 to 750 ..	2	1,350	1.500	13.4	9.9	7.0	12.7
751 to 1,000 ..	2	1,950	2.440	19.0	9.7	3.9	14.3
1,001 to 2,500 ..	11	19,224	19.860	111.5	5.6	7.2	11.8
2,501 to 5,000 ..	11	44,450	78.380	293.0	6.6	9.9	20.1
5,001 to 10,000 ..	12	89,783	176.516	561.6	6.3	11.9	22.4
10,001 to 25,000 ..	25	408,315	1,299.548	2,352.0	5.8	13.6	36.3
25,001 to 50,000 ..	6	212,400	957.054	848.7	4.0	18.9	51.4
Over 50,000 ..	15	1,686,750	6,937.830	8,629.3	5.1	24.5	46.9
Grand Total ..	92	2,466,019	9,475.875	12,853.5	5.2	18.7	43.8

There were 46 stations with installed plant capacity above 10,000 kW and among them 15 stations had capacity each above 50,000 kW. A group of other 34 stations had installed capacity between 1,001 to 10,000 kW. The remaining 12 stations had capacity below 1,000 kW.

The 46 stations having capacity each above 10,000 kW accounted for 97.04 per cent of the total power generated by all the steam power stations. Out of this, the 15 stations of a capacity above 50,000 kW each, produced by themselves 77 per cent of the total power produced by the steam power stations. Whereas 34 stations in the installed plant capacity group of 1,001 kW to 10,000 kW together generated 2.89 per cent, the remaining 12 power stations each of capacity less than 1,000 kW generated in all only 0.07 per cent of the total power produced in all the steam stations in India.

In column 6 of Table XXI are given average steam plant capacity of boilers expressed in kilograms per kW of the installed generating plant capacity. For stations of capacity upto 1,000 kW the boiler capacity ranged from 15.2 kilograms to 2.3 kilograms per kW of generating plant installed. The higher range of steam plant capacity per kW is ascribed to a number of small reciprocating steam engine sets installed in some of the old power stations.

The table also gives the thermal efficiency and average plant factor under different capacity groups. The average overall thermal efficiency of all the steam power stations was 18.7 per cent. In the capacity range above 1,000 kW the boiler capacity varies from 6.6 kilograms to 4.0 kilograms per kW of generating plant installed. The steam pressure adopted in the power stations in India ranges from 7 kilograms per square centimetre to 105 kilograms per square centimetre. Only two stations i.e., Durgapur and Bokaro have adopted a pressure of 105 kilograms per sq. cm.

In the table XXII are classified the diesel power stations according to their installed plant capacity.

TABLE XXII—CLASSIFICATION OF DIESEL POWER STATIONS IN TERMS OF PLANT CAPACITY, SPECIFIC FUEL CONSUMPTION AND AVERAGE PLANT FACTOR ETC.

Installed Capacity (kW)	Number of Generating Stations	Aggregate Installed Capacity (kW)	Total kWh generated by the group (Millions)	Fuel Consumption in (Metric Tons)	Fuel Consumption kilogram/ kWh generated	Average Plant Factor %
Up to 250	339	35,910	29,846	13,828.4	0.463	9.5
251 to 500	122	42,848	44,290	16,154.6	0.365	11.9
501 to 750	61	37,640	32,929	10,633.0	0.323	10.3
751 to 1,000	39	25,043	42,037	13,147.0	0.313	19.2
1,001 to 2,500	58	84,677	107,014	31,845.3	0.297	14.4
2,501 to 5,000	17	53,074	61,357	16,421.2	0.268	13.2
Above 5,000	5	37,772	62,221	16,164.7	0.260	18.8
Grand Total	641	316,764	379,694	118,194.2	0.311	13.0

339 stations out of a total of 641 had each capacity of 250 kW or less and their aggregate capacity was 11.3 per cent of the total installed diesel plant capacity in the country. 280 stations each in the capacity range 251 to 2,500 kW accounted for 60.1 per cent and 22 stations each of capacity above 2,500 kW

together accounted for 28.6 per cent of total installed diesel plant capacity. The table also gives specific consumption for diesel power stations classified according to their installed capacity and fuel oil consumption.

Table XXIII gives the hydro stations arranged according to their installed plant capacities.

TABLE XXIII—CLASSIFICATION OF HYDRO POWER STATIONS IN TERMS OF PLANT CAPACITY AND AGGREGATE PLANT FACTOR

Installed Capacity (kW)	Number of Generating Stations	Aggregate Installed Capacity (kW)	Total kWh Generated by the Group (Millions)	Aggregate Plant Factor (%)
Up to 250	11	1,133	1.123	11.3
251 to 500 .. .. .	..	..	..	..
501 to 750	1	600	2.974	56.6
751 to 1,000 .. .. .	..	..	..	..
1,001 to 2,500	8	10,912	34.831	36.4
2,501 to 5,000	8	28,400	128.939	51.9
5,001 to 10,000	3	23,400	42.245	*20.6
10,001 to 25,000	7	113,173	612.207	61.5
25,001 to 50,000	12	463,780	2,126.060	52.3
Over 50,000	15	1,777,700	6,865.947	44.1
Grand Total	65	2,419,100	9,814,376	46.4

*The plant factor in this range is low, as the Tungabhadra Right Bank Power House was installed late in the year.

There were only 15 stations each having installed plant capacity above 50,000 kW and totalling to an aggregate capacity of 1,777,700 kW which accounted for 73.5 per cent of the total installed hydro plant capacity and produced 70.0 per cent of the total hydro generation. 19 stations in the range 10,001 to 50,000 kW each and of aggregate plant capacity of 576,955 kW accounted for 25.7 per cent of total capacity and produced 27.7 per cent of the total hydro generation. As many as 31 other stations each of capacity in the range 10,000 kW and below totalling to an aggregate installed plant capacity of 64,445 kW represented only 2.9 per cent of the total hydro plant capacity and produced 2.3 per cent of the total hydro power.

The average plant factor of the hydro stations varied between 11.3 per cent to 61.5 per cent. The lowest plant factor was registered in stations of capacity 250 kW or below.

15.0 FUEL CONSUMPTION

Coal and diesel oil consumed in the steam and diesel power stations in the various States for the year 1961-62 are given in Table XXIV.

TABLE XXIV—STATEWISE FUEL CONSUMPTION IN 1961-62

Serial No.	Name of State and Union Territory	Steam Power Station			Oil Power Station		
		Coal Consumption (Metric Tons)	kWh Generated (Million)	Average Fuel consumption in kgm/kWh generation	Oil Consumption (Metric Tons)	kWh Generated (Million)	Average Fuel Consumption in kgm/kWh Generated
1	Andhra Pradesh ..	269,285.0	207.679	1.281	1,583.8	7.752	0.204
2	Assam .. ..	..	..	..	5,490.5	15.981	0.344
3	Bihar	775,626.9	1,301.349	0.596	14,953.7	49.203	0.304
4	Gujarat	999,175.4	1,308.621	0.764	18,164.8	57.872	0.312
5	Jammu & Kashmir	..	..	..	16.4	0.025	0.656
6	Kerala .. ..	..	..	..	..	..	..
7	Madhya Pradesh ..	499,839.2	518.948	0.963	10,172.1	26.371	0.336
8	Madras	535,933.3	405.990	0.827	..	0.255	..
9	Maharashtra ..	1,428,847.8	2,023.613	0.705	22,478.5	74.758	0.301
10	Mysore .. ..	..	..	..	6,462.9	21.848	0.296
11	Orissa .. ..	..	..	..	1,641.8	3.064	0.536
12	Punjab	12,760.0	7.137	1.788	2,086.8	3.906	0.534
13	Rajasthan ..	126,766.7	102.860	1.232	11,946.7	39.394	0.303
14	Uttar Pradesh ..	787,860.6	823.102	0.957	8,187.7	27.064	0.303
15	West Bengal ..	1,730,168.1	2,501.918	0.692	3,418.9	8.797	0.389
16	Union Territories—						
	(a) Delhi ..	253,389.0	267.322	0.928	11,044.2	41.381	0.267
	(b) The Rest ..	16,703.7	2.336	7.151	545.4	2.023	0.270
	ALL INDIA TOTAL	7,236,360.7	9,475.875	0.764	118,194.2	379.694	0.311

7,236,360 metric tons of fuel (mostly coal) and 118,194 metric tons of diesel oil were consumed in the steam and diesel stations respectively. The quantity of coal consumed in the steam power stations increased by 8.0 per cent over the consumption in the previous year.

The average coal consumption per kWh generated by steam plants (including reciprocating steam plants) was 0.764 kilograms. There appears to be no significant improvement in the steam stations during the year. The lowest coal consumption was 0.59 kilograms/kWh.

The national average oil consumption for the diesel power stations was 0.311 kilograms per kWh

16.0 THERMAL EFFICIENCY OF STEAM POWER STATIONS

Table XXV shows the distribution of steam power stations classified according to their average overall thermal efficiency.

TABLE XXV—CLASSIFICATION OF STEAM POWER STATIONS IN TERMS OF OVERALL THERMAL EFFICIENCY

Overall Thermal Efficiency	Number of Generating Station	Aggregate Installed Capacity (kW)	kWh generated by the group (Million)
Under 10%	34	102,539	178.861
Above 10% but below 12.5%	12	136,900	398.680
Above 12.5% but below 15.0%	17	283,285	820.844
Above 15.0% but below 17.5%	12	424,545	1,344.658
Above 17.5% but below 20.0%	4	215,250	698.097
Above 20.0% but below 22.5%	7	426,000	1,940.316
Above 22.5%	6	877,500	4,094.419
Grand Total	92	2,466,019	9,475.875

Out of the total of 92 steam stations, 34 stations operated with overall thermal efficiencies below 10 per cent but these stations together had only 4.2 per cent of the total steam power plant capacity and generated about 1.9 per cent of the total electricity produced by all the steam stations. Only 13 large stations which have aggregate 1,303,500 kW of plant capacity operated at thermal efficiencies above 20 per cent. The highest thermal efficiency registered was 31.2 per cent.

17.0 SUMMARY OF AGGREGATE GENERATING MAXIMUM DEMAND BY OWNERSHIP

The aggregate maximum demand of the States classified under ownership i.e. public and private sectors is given in table XXVI. The aggregate maximum demand in the Public Sector was 2,849,776 kW as compared to 1,121,430 kW in the private Sector.

TABLE XXVI—SUMMARY OF AGGREGATE MAXIMUM DEMAND BY OWNERSHIP (kW)

Serial No.	Name of State or Union Territory	Government Board	Power Corporation	Municipal	Company	Total
1	Andhra	180,628	..	..	136	180,764
2	Assam	8,673	..	..	4,011	12,684
3	Bihar	7,596	289,500	..	23,655	320,751
4	Gujarat	90,120	..	1,273	165,367	256,760
5	Jammu & Kashmir	15,000	..	..	..	15,000
6	Kerala	147,500	..	..	..	147,500
7	Madhya Pradesh	125,933	..	..	17,838	143,771
8	Madras	523,200	..	..	..	523,200
9	Maharashtra	240,122	..	1,312	488,177	729,611
10	Mysore	179,824	..	..	2,904	182,728
11	Orissa	124,389	..	..	..	124,389
12	Punjab	364,800	..	4,020	858	369,678
13	Rajasthan	20,088	..	107	6,560	26,755
14	Uttar Pradesh	215,788	..	4,193	60,629	280,610
15	West Bengal	28,682	211,200	3,272	351,245	694,399
16	Union Territories—					
	(a) Delhi	..	..	59,160	50	59,210
	(b) The Rest	3,396	..	..	..	3,396
	Grand Total	2,215,739	500,700	73,337	1,121,430	3,971,206

SUMMARY OF AGGREGATE GENERATING MAXIMUM DEMAND BY TYPE OF PLANT

Table XXVII gives the summary of aggregate maximum demand by type of plant. The aggregate maximum demand registered during 1961-62 was 3,971,206 kW comprising 1,918,145 kW of steam, 99,375 kW of Oil and 1,953,686 kW of hydro stations.

TABLE XXVII—SUMMARY OF AGGREGATE GENERATING MAXIMUM DEMAND BY TYPES OF PLANT STATEWISE (kW)

Serial No.	Name of State or Union Territory	Steam	Oil	Hydro	Total
1	Andhra Pradesh	34,500	1,464	144,800	180,764
2	Assam .. .. .	..	5,426	7,258	12,684
3	Bihar	259,965	11,786	49,000	320,751
4	Gujarat	238,539	18,221	..	256,760
5	Jammu & Kashmir .. .. .	..	..	15,000	15,000
6	Kerala .. .. .	..	..	147,500	147,500
7	Madhya Pradesh	104,755	8,216	30,800	143,771
8	Madras	74,200	..	449,000	523,200
9	Maharashtra	410,700	20,139	298,772	729,611
10	Mysore .. .. .	..	6,628	176,100	182,728
11	Orissa .. .. .	..	1,389	123,000	124,389
12	Punjab	1,800	4,878	363,000	369,678
13	Rajasthan	17,200	9,555	..	26,755
14	Uttar Pradesh	189,950	8,453	82,207	280,610
15	West Bengal	524,965	2,412	67,022	594,399
16	Union Territories—				
	(a) Delhi	59,160	50	..	59,210
	(b) The Rest	2,411	758	227	3,396
	All India Total ..	1,918,145	99,375	1,953,686	3,971,206

MAXIMUM DEMAND OF POWER SYSTEMS

Table XXVIII shows the undertakings arranged in groups according to the increasing order of their aggregate maximum demand.

The aggregate of the highest annual maximum demands on individual systems of public electric utilities amounted to 3,971,206 kW which was 79.1 per cent of the total plant capacity as compared with 77.8 per cent in the previous year. The aggregate demand in the public and private sectors were 77.1 and 83.6 per cent respectively of the installed plant capacity in each sector as against 77.3 per cent and 79.2 per cent respectively in the previous year.

TABLE XXVIII—CLASSIFICATION OF UNDERTAKINGS IN TERMS OF GENERATING MAXIMUM DEMAND

Maximum Demand on Generating Undertakings (kW)	Public Sector						Private Sector		Total	
	Government/State Electricity Board		Power Corporation		Municipality		Company		Number of undertakings owning generating stations	Aggregate Maximum Demand (kW)
	Number of undertakings owning generating stations	Aggregate Maximum Demand (kW)	Number of undertakings owning generating systems	Aggregate Maximum Demand (kW)	Number of undertakings owning generating stations	Aggregate Maximum Demand (kW)	Number of undertakings owning generating stations	Aggregate Maximum Demand (kW)		
Up to 50 .. ..	..	..	..	..	12	113	20	183	32	296
51 to 250 .. ..	..	227	..	..	9	428	40	4,274	49	4,929
251 to 500	1	411	..	..	3	1,404	19	7,110	23	8,925
501 to 1,000 ..	2	758	..	..	1	520	10	9,329	13	10,607
1,001 to 2,500 ..	..	2,000	..	..	1	1,020	14	22,579	15	25,599
2,501 to 5,000 ..	..	..	..	..	3	10,692	3	11,100	6	21,792
5,001 to 10,000 ..	1	16,269	..	..	..	..	1	19,600	2	35,869
10,001 to 25,000 ..	2	35,088	..	..	..	..	6	85,455	8	120,543
25,001 to 50,000 ..	1	28,682	..	..	..	..	..	..	1	28,682
50,001 to 100,000 ..	1	90,120	..	..	1	59,160	..	..	2	149,280
Over 100,000 ..	9	2,102,184	2	500,700	..	..	3	961,800	14	3,564,684
Total ..	17	2,275,739	2	500,700	30	73,337	116	1,121,430	165	3,971,206

113 out of the total 165 generating undertakings or 68.5 per cent registered annual maximum demands each of 500 kW or less. The annual maximum demands in excess of 10,000 kW were incidented on only 24 undertakings (15 in the public sector and 9 in the private sector) which together met about 91.5 per cent (65.2 per cent in public sector and 26.3 per cent in private sector) of the total demand for power in the country.

Out of these 24 undertakings, only 7 undertakings in the public sector and 3 in the private sector on which the incident demands were above 100,000 kW together met about 89.9 per cent of the total All India demand for power.

18.0 CLASSIFICATION OF UNDERTAKINGS ACCORDING TO POWER GENERATION

Table XXIX gives the classification of undertakings according to kWh generated and their ownership.

TABLE XXIX—CLASSIFICATION OF UNDERTAKINGS ACCORDING TO kWh GENERATED

(Million kWh)

kWh generated Million	Government/State Electricity Board		Power Corpora- tion		Municipality		Company		Total	
	No. of Under- tak- ings	Total kWh Generated by the group	No. of Under- tak- ings	Total kWh Generated by the group	No. of Under- tak- ings	Total kWh generated by the group	No. of under- tak- ings	Total generated by the group	No. of under- tak- ings	Total kWh generated by the group
0 to 0.250 .. ..	..	..	..	..	18	0.617	45	3.073	63	3.690
0.251 to 0.500 .. ..	..	..	..	..	2	0.591	12	4.922	14	5.513
0.501 to 1.000 .. ..	..	1.357	..	..	2	2.298	15	13.091	17	16.746
1.001 to 2.500	3	3.664	..	..	2	2.984	13	24.400	18	31.028
2.501 to 5.000 .. ..	..	..	..	..	2	6.743	8	30.440	10	37.183
5.001 to 10.000 .. ..	..	..	..	..	1	7.402	9	64.304	10	71.706
10.001 to 25.000 .. ..	..	..	..	..	2	24.852	4	55.866	6	80.718
25.001 to 50.000	1	64.686	..	..	..	..	1	88.676	2	162.552
50.001 to 100.0000	1	72.215	..	..	..	..	6	453.488	7	516.513
100.001 to 250.000	2	296.985	..	..	..	..	..	..	2	296.985
250.001 to 500.000	1	445.655	..	..	1	308.591	..	..	2	754.246
500.001 to 1,000.000	4	2,812.951	1	722.863	..	..	1	870.155	6	4,405.969
1,000.001 to Above	5	7,555.787	1	1,358.066	..	..	2	4,333.243	8	13,247.096
Grand Total	17	11,253.300	2	2,080.929	30	354.058	116	5,941.658	165	19,689.945

Only 18 undertakings (3 in the private and 15 in the public sector generated each in excess of 100 million kWh and together accounted for about 95.3 per cent of total electricity produced in the country. The remaining 147 undertakings generated 4.7 per cent of the total energy output.

19.0 AVERAGE OUT-PUT LOAD FACTOR ETC. FOR STEAM OIL AND HYDRO STATIONS

Table XXX gives the average energy output per kW of generating plant capacity, station load factor and plant demand factor for steam, diesel and hydro stations.

TABLE XXX—AVERAGE OUTPUT, LOAD FACTOR AND DEMAND FACTOR IN 1961-62

Type of Power Plant	Aggregate Installed Plant capacity of Generating Plant (kW)	kWh Generated (Millions)	Aggregate Maximum demand of individual generating stations (kW)	kWh Genera- ted per kW of Plant Capacity (kWh)	Combined load factor based on* (col (3) & col.(4)%	Plant Demand Factor %
Steam	2,466,019	9,475.875	1,918,145	3,842	56.5	77.7
Oil	316,764	379.604	99,375	1,199	43.6	31.4
Hydro	2,419,100	9,814.378	1,953,686	4,041	57.1	80.8
Total	5,201,883	19,689.945	3,971,206	3,770	56.4	76.3

*The equivalent number of hours during which plants were run, as on average, at the full rated capacity.

The All-India average load factor for all the steam power stations has risen from 54.9 per cent in the previous year to 56.5 per cent in 1961-62 and that for the hydro stations has increased from 54.9 per cent in the previous year to 57.1 per cent in the current year.

The All-India average annual output per kW of installed plant capacity of hydro plant decreased from 4,250 kWh in 1960-61 to 4,041 kWh during year under review.

The All-India average plant demand factor in hydro stations was 80.8 per cent and continued to be higher than that in the steam stations. The plant demand factor in the steam stations improved from 74.6 per cent in 1960-61 to 77.7 in the current year.

20.0 VOLTAGE OF GENERATION

Generation voltages in India ranged from 230 volts to 3300 volts in the stations generating A.C. power. D.C. power was generated at voltages from 110 volts to 500 volts.

In table XXXI the undertakings are classified according to their generation voltages separately for the public and private sectors of the industry. The majority of the undertakings generated A.C. power at the standard voltages, 11 kV, 6.6 kV, 3.3 kV and 400 volts. Only one undertaking generated power at 33 kV.

TABLE XXXI—CLASSIFICATION OF UNDERTAKING ACCORDING TO VOLTAGE OF GENERATION

Serial No.	A.C. or D.C.	Voltage of Generation	Public Sector			
			Government State Electricity Board		Power Corporation	
			No. of undertakings owning generating stations	Aggregate installed capacity	No. of undertakings	Aggregate installed capacity
1	A.C. 3 phase	33 kV	..	..	..	..
2	A.C. 3 phase	11 to 14 kV	..	..	..	..
3	A.C. 3 phase	6 to 6.9 kV	11	2,296,371	2	524,000
4	A.C. 3 phase	5 to 5.5 kV	10	363,429	..	..
5	A.C. 3 Phase	3 to 3.6 kV	1	27,500	..	..
6	A.C. 3 phase	2 to 2.35 kV	14	267,749	..	..
7	A.C. 3 phase	500 Volts	4	77,424	..	..
8	A.C. 3 phase	400-460 V.	2	555	..	..
9	A.C. 1 phase	230 V.	19	191,655	..	..
10	D.C. 3 wire	400-500 V.	6	993	..	..
11	D.C. 2 wire	100-250 V.	11	11,343	..	..
	GRAND TOTAL	..	9	3,403	..	..
			87	3,240,422	2	524,000

Serial No.	A.C. or D.C.	Voltage of Generation	Public Sector		Private Sector		Total	
			Municipality		Company		No. of undertakings	Aggregate installed capacity
			No. of undertakings	Aggregate installed capacity	No. of undertakings	Aggregate installed capacity		
1	A.C. 3 phase	33 kV	..	..	1	280,000	1	280,000
2	A.C. 3 phase	11 to 14 kV	..	40,020	4	520,000	18	3,380,391
3	A.C. 3 phase	6 to 6.9 kV	2	40,710	9	223,713	21	627,852
4	A.C. 3 phase	5 to 5.5 kV	..	..	1	144,000	2	171,500
5	A.C. 3 phase	3 to 3.6 kV	5	4,664	33	106,937	52	379,350
6	A.C. 3 phase	2 to 2.35 kV	1	3,660	2	1,414	7	82,498
7	A.C. 3 phase	500 Volts	..	..	1	300	3	855
8	A.C. 3 phase	400-460 V	19	8,146	102	47,961	140	247,762
9	A.C. 1 phase	230 V	..	..	..	..	6	993
10	A.C. 3 phase	400-500 V	1	100	17	15,670	20	27,113
11	A.C. 2 phase	100-250 V	1	12	5	154	15	3,569
	Grand Total	..	30	97,812	176	1,340,149	294	5,201,883

FREQUENCY OF A.C. POWER SUPPLY

About 99 per cent of the total A.C. plant installed in the country generated power at 50 cycles frequency. The remaining 1 per cent of plant (owned by two undertakings only) generated power at frequencies other than 50 cycles. In the Mohora Power Station of the Kashmir Government and Sivasamudram of the Mysore State Electricity Board, power is being generated at 25 cycles only.

In table XXXII the electricity supply undertakings are classified according to the system of supply in the public as well as private sectors. 33 undertakings were supplying power at 50 cycles and 2 undertakings in the public sector at other than 50 cycles.

TABLE XXXII—CLASSIFICATION OF UNDERTAKINGS IN TERMS OF SYSTEMS OF SUPPLY A.C. AND D.C.

System of Supply	Number of Undertakings	Division of Total	
		Public Authority Undertakings	Company Undertakings
A.C. only	286	65	221
A.C. and D.C.	29	16	13
D.C. only	28	4	24
Total ..	343	85	258
Standard frequency (50 cycles per second)	313	79	234
Non-standard frequency 25 cycles per second	2	2	..
Grand Total ..	315	81	234

Although the total number of A.C. undertakings is only 315 (286 plus 29) there is an increase of two numbers due to the fact that Jammu and Kashmir State and Mysore State have been counted twice as it had two different frequencies of supply respectively.

SECTION 2
TRANSFORMERS, TRANSMISSION AND HIGH
VOLTAGE DISTRIBUTION LINES, CONSUMERS,
CONNECTED LOAD DATA AND TOWNS AND
VILLAGES ELECTRIFIED ETC.

TRANSFORMERS, TRANSMISSION AND HIGH VOLTAGE DISTRIBUTION LINES,
CONSUMERS CONNECTED LOAD AND TOWNS AND VILLAGES ELECTRIFIED ETC.

1.0

TRANSFORMERS

Table XXXIII gives the number of Power and Distribution transformers and their aggregate installed capacities in the different States. There were 838 step-up power Transformers of aggregate capacity of 4,629,229 kVA, 2,252 step-down power transformers of aggregate capacity of 8,512,165 kVA and 63,580 Distribution Transformers of aggregate capacity of 4,291,178 kVA. The total transformer capacity installed in all the Power Systems in India amounted to 17.43 million kVA. Transformer capacity increased by 10.5 per cent over that in the previous year as compared to 11.8 per cent increase of generating plant capacity.

TABLE XXXIII—IMPORTANT POWER TRANSFORMERS COMMISSIONED DURING THE YEAR 1961-62

Name of the State	Capacity & Voltage ratio of transformer	No. installed during 1961-62	Place of installation	Remarks
1	2	3	4	5
Andhra Pradesh	7,500 kVA at 132/33/11 kV	1	Carvidi sub-station under Visakhapatnam District.	
	500 kVA at 33/11 kV	1	Seikakulam sub-station under Visakhapatnam District.	
Bihar	30,000 kVA	1	Maithon sub-station DVC	1 No. of 15,000 kVA transformer changed to 30,000 kVA.
	20,000 kVA	1	Ramgarh sub-station DVC	1 No. of 5,000 kVA transformer changed to 20,000 kVA.
	20,000 kVA	1	Belmuri sub-station DVC	
	25,000 kVA	1	Berun sub-station DVC	1 No. of 15,000 kVA transformer changed by two of 25,000 kVA each.
	25,000 kVA	1		
	15,000 kVA	1	Patna sub-station DVC	2 No. of 1,000 kVA each changed by two of 15,000 kVA each.
	15,000 kVA	1		
	12,500 kVA	1	At five sub-stations for supply to Railways at 25 kV. (D.V.C.)	
	12,500 kVA	1		
	12,500 kVA	1		
	12,500 kVA	1		
	4,000 kVA	1		
	4,000 kVA	1		
	4,000 kVA	1		
	4,000 kVA	1		
	at 132/33 kV			
	132/25 kV			
	33/11 kV			
Gujarat	5,000 kVA at 33/11 kV	1	Patna Electricity Supply Co. Ltd.	
	500 kVA at 11,000/3,300 kV	1	Virangam Electric Supply Co. Ltd.	
	37,500 kVA	1	The Ahmedabad Electricity Co. Ltd.	
	at 66/11 kV			
	3,000 kVA at 11/3.3 kV	1	The Ahmedabad Electricity Co. Ltd.	

1	2	3	4	5
Madras— <i>concl'd.</i>	5,000 kVA at } 66/33 kV 5,000 kVA at } 66/33 kV 5,000 kVA at } 66/11 kV 5,000 kVA at } 66/11 kV 3,000 kVA at } 66/33 kV 1,500 kVA at } 66/33 kV 2,000 kVA at } 66/11 kV 2,000 kVA at } 66/11 kV	4	Somanur in Mettur Electricity System.	Four transformers 1×5,000 kVA } 66/33 kV 1×5,000 kVA } 1×5,000 kVA } 66/11 kV 1×5,000 kVA } were installed in place of four transformers 1×3,000 kVA } 66/33 kV 1×1,500 kVA } 2×2,000 kVA, 66/11 kV Four transformers i.e. 1×3,000 kVA } 66/23 kV 1×1,500 kVA } 2×2,000 kVA, 66/11 kV. were installed in place of four transformers 2×1,500 kVA, 66/33 kV 2×1,500 kVA, 66/11 kV
Maharashtra	10,000 kVA at 22/11 kV 3,000 kVA at 5/115, 5/6, 6 kV 80,000 kVA at 100/123/11.5 kV 20,000 kVA at 100/23.1 kV 7,500 kVA at 100/23/11.4 kV 500 kVA at 410/63 kV	1	Bombay, Suburban Electric Supply Ltd. Goregaon Receiving Station. Khopli in Tata Hydro Electric Supply Co. Ltd. Cannac in Tata Hydro Electric Supply Co. Ltd. Kalyan in Tata Hydro Electric Supply Co. Ganeshkhind in Tata Hydro Electric Supply Co. Amalgamated Electricity Co. Ltd., Malegaon Branch.	500 kVA transformer was installed in place of 150 kVA transformer
Orissa	3,000 kVA at 66/11/33 kV 10,000 kVA at 132/25 kV	1	Bctudhi in Hirakud Dam Project Rourkella in Hirakud Dam Project.	

1	2	3	4	5
Punjab	2,000 KVA at 15,000/220 kV 3 × 100,000 kVA } at 11/66 kV 2 × 100,000 kVA } at 11/66/220kV 4 × 30,000 kVA } at 11/66/220 kV } 4,000 kVA at } 66/15 kV } 2,000 kVA at } 66/11 kV } 1000 kVA	1 3 6 1 1 1	Simla Municipality Bhakra Bhakra Punjab State Elec- tricity Board. Simla Solan Moga Bhaghpurana	(1) 11,200 kVA at 132/33/11kV have been substituted to smaller one at Jullundur. (2) 6,000 kVA at 66/3·3kV sub- stituted to smaller one at Surajpur. (3) 9,500 kVA at 33/11kV sub- stituted to 7,500 kVA capacity at Sadhaura, Bahadurgarh, Sonepat, Malerkotla, Sunam, Mandi and Naraingarh.
Rajasthan	750 kVA at 420/11,000 kV	1	Maharana Bhupal Electric Supply Co. Ltd., Udaipur.	
Uttar Pradesh	500 kVA at } 11/3·3 kV } 500 kVA at } 11/3·3 kV } 1,000 kVA 1,000 kVA at } 11,000/5,500 kV } 1,000 kVA at } 11,000/5,500 kV } 1,000 kVA at } 11,000/5,500 kV } 2,000 kVA at } 11/22 33 kV } 5,000 kVA at } 6·6/33 kV }	2 1 2 1 1 2	Hydrel Division, Moradabad. Hydrel Division, Moradabad. Ghaziabad in Upper Jumna Valley Electric Supply Co. Ltd. Hapur Town in Upper Jumna Valley Electric Supply Co. Ltd. Balrampur Electric Supply Co. Private Ltd. G.S. Aishbagh in The United Provinces Electric Supply Co. Ltd.	One of 750 kVA transformer was changed by one of 1,000 kVA. One of 800 kVA and one of 500 kVA at 11,000/5,000 kV were changed by two of 1,000 kVA each. One of 500 kVA transformer was changed by one of 1,000 kVA.
West Bengal	3,000 kVA at 33/11 kV	1	Associated Power Co. Ltd. Seebpore.	
Union Territories	5,000 kVA at 33/11 kV, 11/6·6 kV 3,000 kVA 3,000 kVA at 33/11 kV 11/6·6 kV	1 2	Rohtak Road in D.E.S.U. Kilokeri in D.E.S.U.	

TABLE XXXIII--STATEWISE SUMMARY OF THE TRANSFORMERS DATA AS ON 31-3-1962

Serial No.	Name of State or Union Territory	Step-Up Transformers		Step Down Transformers		Distribution Transformers	
		No.	Aggregate kVA	No.	Aggregate kVA	No.	Aggregate kVA
1	Andhra Pradesh ..	76	287,693	257	449,750	6,008	453,269
2	Assam ..	21	6,775	9	8,865	150	19,616
3	Bihar ..	67	385,275	197	1,184,100	4,170	234,476
4	Gujarat ..	69	306,300	119	269,600	2,572	236,786
5	Jammu and Kashmir	10	12,050	23	19,800	473	32,916
6	Kerala ..	22	229,430	69	218,125	3,325	209,139
7	Madhya Pradesh ..	53	155,630	80	353,225	597	120,178
8	Madras ..	41	627,180	453	1,760,590	12,807	979,876
9	Maharashtra ..	85	743,825	190	1,403,375	2,921	515,912
10	Mysore ..	106	232,620	201	384,875	12,527	269,937
11	Orissa ..	33	150,775	35	299,350	229	35,148
12	Punjab ..	38	800,439	166	501,278	6,208	406,607
13	Rajasthan ..	42	16,808	30	9,617	419	45,696
14	Uttar Pradesh ..	119	329,803	242	432,893	9,567	402,081
15	West Bengal ..	44	324,049	135	1,059,042	786	146,373
16	Union Territories—						
	(a) Delhi ..	..	..	39	155,730	450	159,348
	(b) The Rest ..	12	20,577	7	1,950	371	23,820
	Grand Total ..	838	4,629,229	2,252	8,512,165	63,580	4,291,178

2.0 TRANSMISSION AND HIGH VOLTAGE DISTRIBUTION LINES

Table XXXIV gives the total circuit kilometres of transmission lines grouped under various voltages between 2.2 kV and 230 kV as on 31st March 1962.

TABLE XXXIV—TRANSMISSION AND

Serial No.	Name of State or Union Territory	Length of Transmission					
		Below 11 kV					
		2·2/3·3 kV		5/6·6 kV		11 kV	
		O.H.	U.G.	O.H.	U.G.	O.H.	U.G.
1	Andhra Pradesh	45·47	11·93	422·16	21·10	13,906·59	7·08
2	Assam	26·00	10·50	..	..	172·75	..
3	Bihar	78·55	14·52	188·61	53·44	11,100·17	33·94
4	Gujarat	225·30	121·85	13·38	0·56	3,072·91	472·41
5	Jammu and Kashmir	26·40	..	115·00	..	251·00	..
6	Kerala	136·63	..	8·80	18·60	5,641·67	35·15
7	Madhya Pradesh	126·62	76·80	85·92	16·30	2,335·60	24·91
8	Madras	128·16	7·01	210·94	122·34	15,866·56	199·26
9	Maharashtra	183·12	60·54	105·29	657·84	3,433·33	335·64
10	Mysore	1,106·54	6·58	6,650·00	206·44	8,892·56	9·61
11	Orissa	90·83	10·25	72·00	25·60	575·78	18·14
12	Punjab	19·04	41·70	..	..	12,268·34	4·80
13	Rajasthan	343·23	77·00	199·62	16·81	564·35	2·01
14	Uttar Pradesh	107·16	499·83	348·67	381·29	14,156·55	98·08
15	West Bengal	44·20	158·28	158·62	1,357·05	520·02	56·09
16	<i>Union Territories—</i>						
	(a) Delhi .. ..	..	..	165·20	359·60	300·00	132·86
	(b) The Rest	11·76	0·10	34·13	..	517·04	0·15
	Grand Total	2,759·01	1,097·08	8,778·44	3,236·37	93,615·27	1,435·08

HIGH VOLTAGE DISTRIBUTION LINES

Lines in Circuit Kilometres as on 31-3-1962.										Serial No.
22 kV		33 kV		44/3.5 kV	78/66 kV	110/90 kV	132 kV	220 kV	230 kV	
O.H.	U.G.	O.H.	U.G.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	
..	..	3,462.50	..	..	2,693.70	..	1,036.60	..	..	1
..	..	119.00	..	..	..	..	..	..	..	2
..	..	2,778.50	..	..	..	..	2,770.00	..	..	3
850.92	3.04	883.47	..	1.07	810.63	0.18	..	..	..	4
..	..	210.00	..	..	48.00	56.00	..	..	..	5
181.76	..	36.21	..	..	1,373.08	552.75	..	..	..	6
25.10	1.60	1,672.50	..	..	245.00	..	198.00	..	..	7
7,012.12	..	1,792.00	19.40	..	2,714.00	3,109.00	..	..	478.00	8
545.33	283.91	982.94	..	..	1,250.76	1,034.12	..	..	..	9
72.50	..	580.00	..	..	1,538.00	1,633.00	..	..	..	10
3.20	..	501.00	..	..	259.72	..	672.12	..	..	11
..	..	2,414.05	..	..	535.89	..	1,226.99	657.08	..	12
216.00	..	461.80	..	..	..	..	..	..	..	13
1,104.21	6.67	1,046.33	11.40	1,549.63	1,437.53	..	516.00	..	..	14
..	99.34	941.06	415.29	75.20	167.00	..	460.00	..	..	15
..	..	40.49	..	..	..	..	..	..	..	(a)
586.69	..	130.00	..	..	..	..	..	..	..	(b)
10,597.83	394.56	18,051.85	446.09	1,625.90	13,073.34	6,385.05	6,879.71	657.08	478.00	

O.H.—Overhead conductor.

U.G.—Underground cable.

At the end of the year 1961-62 there were 11,537.45 kilometres of overhead transmission lines operating on voltages below 11 kV, 93,615.27 kilometres of 11 kV, 10,597.83 kilometres of 22 kV, 18,051.85 kilometres of 33kV and 29,099.80 kilometres above 33 kV and upto 230 kV. The length of underground cables were 4,333.45 kilometres below 11 kV, 1,435.08 kilometres of 11 kV, 394.56 kilometres of 22 kV and 446.09 kilometres of 33 kV.

IMPORTANT TRANSMISSION AND HIGH VOLTAGE DISTRIBUTION LINES COMMISSIONED
DURING THE YEAR ENDED 1961-62.

ANDHRA PRADESH

201.05 kilometres of 11 kV }
58.59 kilometres of 33 kV } Visakhapatnam Operation Circle.

92.91 kilometres of 11 kV Cuddapah District.

78.39 kilometres 33 kV }
175.77 kilometres of 11 kV } Chittoor District.

275.75 kilometres of 11kV Anantapur District.

9.65 kilometres of 33 kV }
120.44 kilometres of 11 kV } Kurnool District.

BIHAR

457.02 kilometres of 132 kV Damodar Valley Corporation.

1.16 kilometres of 11 kV Sijua (Jherria) Electric Supply Co. Ltd.

12.80 kilometres of 11 kV Behar Shariif Sub. Dn. No. II.

10.60 kilometres of 11 kV Sheikhpura Sub-Division.

2.94 kilometres of 11 kV Patna Electric Supply Co. Ltd.

GUJARAT

4.83 kilometres of 11 kV The Amalgamated Electricity Co. Ltd. (Balsar Branch).

11.00 kilometres of 66 kV }
27.55 kilometres of 11 kV } Ahmedabad Electricity Co. Ltd.

KERALA

0.20 kilometres of 11 kV The West Coast Electric Supply Corporation Ltd.

MADRAS

- 71·00 kilometres of 11 kV The South Madras Electric Supply Corporation Ltd.
- 8·00 kilometres of 11 kV The South Madras Electric Supply Corporation Ltd.
- 250·19 kilometres of 22 kV }
3·47 kilometres of 11 kV } Pykara Electricity System
- 43·73 kilometres of 33 kV }
3·59 kilometres of 22 kV }
399·57 kilometres of 11 kV } Vellore Electricity System
- 10·55 kilometres of 11 kV Vellore Electricity System
- 1·33 kilometres of 11 kV Pollachi Municipality.
- 10·00 kilometres of 11 kV Nagapatam Electricity Supply Co. Ltd.
- 8·79 kilometres of 22 kV }
6·79 kilometres of 11 kV } Tirunneveli—Tuticoria Electricity Supply Co. Ltd.
- 26·60 kilometres of 110 kV }
37·00 kilometres of 66 kV }
405·50 kilometres of 11 kV } Tirunneveli Electricity System
- 20·27 kilometres of 110 kV }
20·73 kilometres of 33 kV }
39·35 kilometres of 11 kV } Madras Electricity System
- 237·07 kilometres of 22 kV }
231·07 kilometres of 11 kV } Mettur Electricity System
- 8·05 kilometres of 11 kV Kumbakoram Electricity Supply Co. Ltd.
- 102·26 kilometres of 110 kV }
15·32 kilometres of 33 kV }
218·94 kilometres of 22 kV }
154·00 kilometres of 11 kV } Trichy. Electricity System

MAHARASHTRA

- 1·06 kilometres of 11 kV Maharashtra State Electricity Board, Akola.
- 16·87 kilometres of 11 kV Bombay Suburban Electricity Supply Co. Ltd.
- 4·07 kilometres of 11 kV Nagpur Electric Light and Power Co. Ltd.
- 7·14 kilometres of 11 kV Poona Electric Supply Co. Ltd.
- 19·51 kilometres of 22 kV Bombay Electric Supply and Transport Undertakings.
- 72·89 kilometres of 110 kV }
18·51 kilometres of 22 kV } Tata Hydro Electric Agencies Ltd.

MYSORE

- 6.80 kilometres of 11 kV The Kanara Electric Supply Co. Ltd., Sirsi.
 10.46 kilometres of 11 kV The Amalgamated Electricity Co. Ltd. (Belgaum Branch)
 4.18 kilometres of 11 kV Dharwar Electric Supply Co. Ltd.

PUNJAB

- 42.12 kilometres of 220 kV }
 28.18 kilometres of 66 kV } Punjab State Electricity Board.
 119.86 kilometres of 33 kV }
 1,661.08 kilometres of 11 kV }

RAJASTHAN

- 1.75 kilometres of 11 kV The Maharana Bhupal Electric Supply Co. Ltd., Udaipur.

UTTAR PRADESH

- 12.31 kilometres of 11 kV Kanpur Electricity Supply Administration.
 50.99 kilometres of 11 kV Hydro Electric Division, Gonda.
 8.64 kilometres of 11 kV Hydro Electric Division, Moradabad.
 22.21 kilometres of 11 kV Hydro Electric Division, Sitapur.
 16.00 kilometres of 22 kV Balarampur Raj Electric Supply Co. (Private) Ltd.
 67.52 kilometres of 11 kV Hydro Electric Division, Bareilly.
 1.04 kilometres of 11 kV The United Provinces Electric Supply Co. Ltd., Allahabad.

WEST BENGAL

- 2.76 kilometres of 11 kV Associated Power Co. Ltd., Seebpore.
 0.70 kilometres of 33 kV The Calcutta Electric Supply Corporation Ltd.
 1.70 kilometres 11 kV Berhampur Electric Supply Co. Ltd.

UNION TERRITORIES

- 48.00 kilometres of 33 kV }
 59.00 kilometres of 22 kV } Hydro Electrical Circle, Himachal Pradesh.
 101.00 kilometres of 11 kV }
 83.13 kilometres of 11 kV Delhi Electric Supply Undertaking.
 26.85 kilometres of 22 kV Pondicherry.

3.0 TOWNS AND VILLAGES ELECTRIFIED

There were in all 29,069 towns and villages electrified in the country including Jammu and Kashmir and Pondicherry at the end of the year as shown in the Table XXXV (a) and (b).

TABLE XXXV (a)—NUMBER OF TOWNS AND VILLAGES ELECTRIFIED AS ON 31-3-1962

Serial No.	Population Range	Number of towns and villages in each group	No. of Towns and Villages electrified as on 31-3-62	Percentage of electrified places of Col. 4 to 3
1	Over 100000	73	74	101.4
2	50001—100000	111	111	100.0
3	20001—50000	403	392	97.3
4	10001—20000	864	767	88.8
5	5001—10000	3,121	1,858	59.5
6	Upto—5000	561,487	25,867	4.6
	Total	561,106	29,069	5.2

The total includes places of 14 States (except Jammu & Kashmir) Union Territories and the Territories of Goa, Daman & Diu, Nagaland, NEFA and Pondicherry.

TABLE XXXV (b)—TOWNS AND VILLAGES ELECTRIFIED AS ON 31-3-1962

Serial No.	Name of State or Union Territory	Over 100,000	50,001 to 100,000	20,001 to 50,000	10,001 to 20,000	5,001 to 10,000	Below 5,000	Total
1	Andhra Pradesh*	6	10	31	77	257	2,293	2,674
2	Assam .. ..	..	1	6	8	9	39	63
3	Bihar*	5	6	19	36	105	1,855	2,026
4	Gujarat	6	4	35	39	95	757	936
5	Jammu and Kashmir*	1	..	..	2	10	196	209*
6	Kerala	3	5	28	117	300	1,190	1,643
7	Madhya Pradesh	5	5	21	36	59	385	511
8	Madras	7	13	58	137	432	6,000	6,646
9	Maharashtra	5	16	41	64	116	1,005	1,247
10	Mysore	5	8	22	52	95	2,779	2,961
11	Orissa	1	1	5	8	23	137	175
12	Punjab†	3	8	26	42	112	3,425	3,616
13	Rajasthan	4	4	20	32	53	85	198
14	Uttar Pradesh	14	15	47	66	138	4,426	4,706
15	West Bengal	7	14	29	44	30	357	481
16	Union Territories*	2	2	3	2	17	776	802
(a)	Goa, Daman & Diu .. ..	..	..	..	5	3	9	17
(b)	Nagaland .. ..	..	..	..	..	2	2	4
(c)	NEFA .. ..	..	..	..	..	..	4	4
(d)	Pondicherry .. ..	..	..	1	..	2	147	150
	Total	74	111	392	767	1,858	25,867	29,069

* As intimated by the Board.

† Estimated.

4.0 CONSUMER AND CONNECTED LOAD

The total number of consumers and their connected load as on 31-3-1962 in the various states are

TABLE XXXVI—CLASSIFICATION OF

Serial No	Name of State or Union Territory	Segregation of Number of Consumers			
		Domestic light and small power		Commercial light and small power	
		A.C.	D.C.	A.C.	D.C.
1	Andhra Pradesh	283,048	..	16,288	..
2	Assam	17,108	3,281	1,295	1,838
3	Bihar	154,533	4,443	21,685	1,259
4	Gujarat	370,545	13,811	47,970	2,081
5	Jammu & Kashmir	44,578	..	5,783	..
6	Kerala	179,290	..	39,095	..
7	Madhya Pradesh	134,939	3,892	31,963	277
8	Madras	572,168	13,050	93,663	4,224
9	Maharashtra	579,902	3,281	158,128	305
10	Mysore	334,095	1,417	23,485	37
11	Orissa	29,451	119	7,460	1
12	Punjab	393,534	8,792	135,213	5,630
13	Rajasthan	100,826	2,186	30,893	1,054
14	Uttar Pradesh	193,441	49,885	53,398	21,944
15	West Bengal	189,019	246,662	16,771	624
16	Union Territories—				
	(a) Delhi	171,634	37,700	32,154	12,130
	(b) The Rest	17,077	162	3,355	29
	Total	3,765,188	388,681	718,599	51,483

given in Tables XXXVI and XXXVII respectively.

CONSUMERS AS ON 31-3-62

Serial No.	Segregation of Number of Consumers								
	Industrial Power including electric traction and Public Water Works		Public lighting		Irrigation and Dewatering		Total Number of Consumers		
	A.C.	D.C.	A.C.	D.C.	A.C.	D.C.	A.C.	D.C.	Total
1	8,123	..	2,193	..	23,754	..	333,406	..	333,406
2	331	87	468	4	..	..	19,202	5,260	24,462
3	6,104	117	228	3	5,358	1	187,908	5,823	193,731
4	22,473	851	791	32	8,842	49	450,021	16,824	467,445
5	639	..	4	..	48	..	51,052	..	51,052
6	7,076	..	845	..	3,036	..	229,342	..	229,342
7	8,074	32	454	44	2,384	6	177,814	4,251	182,065
8	29,792	212	10,792	8	140,646	..	847,061	17,494	864,555
9	25,376	30	730	4	9,208	..	773,344	3,620	776,964
10	13,526	28	331	3	19,226	..	390,663	1,485	392,148
11	859	..	145	2	13	..	37,928	122	38,050
12	16,440	374	262	2	14,334	..	559,783	14,798	574,581
13	5,221	84	47	6	1,401	14	138,388	3,344	141,732
14	13,949	1,627	278	8	6,192	11	267,258	73,475	340,733
15	10,142	11,885	131	13	7	..	216,070	259,184	475,254
16									
(a)	6,001	211	229	..	20	..	210,038	50,041	260,079
(b)	485	..	30	1	1,693	..	22,640	192	22,832
Total	174,611	15,538	17,958	130	236,162	81	4,912,518	455,913	5,368,431

TABLE XXXVII—CLASSIFICATION OF CONNECTED LOAD AS ON 31-3-62

Serial No.	Name of State or Union Territory	Segregation of Connected Load in KW			
		Domestic light and small power		Commercial light and small power	
		A.C.	D.C.	A.C.	D.C.
1	Andhra Pradesh	143,070	..	10,085	..
2	Assam	10,486	1,864	2,063	1,312
3	Bihar	82,139	2,527	18,918	589
4	Gujarat	200,207	8,900	38,363	651
5	Jammu & Kashmir	3,851	..	1,183	..
6	Kerala	103,589	..	19,627	..
7	Madhya Pradesh	49,213	1,604	28,395	572
8	Madras	304,748	6,760	96,748	5,960
9	Maharashtra	403,030	2,393	132,847	96
10	Mysore	137,732	164	20,681	15
11	Orissa	18,300	44	5,387	7
12	Punjab	133,516	6,667	69,663	4,736
13	Rajasthan	39,275	1,184	14,417	428
14	Uttar Pradesh	103,558	31,017	41,774	16,510
15	West Bengal	191,480	293,057	13,084	626
16	<i>Union Territories—</i>				
	(a) Delhi	85,528	20,590	40,370	12,770
	(b) The Rest	9,368	13	1,441	3
	Total	2,019,090	376,784	555,046	44,275

The total number of consumers as on 31-3-1962 were about 5·368 million as compared to 4·911 million in the previous year, showing an increase of 9·3 per cent over the number of consumers as at the beginning of

TABLE XXXVII—contd.

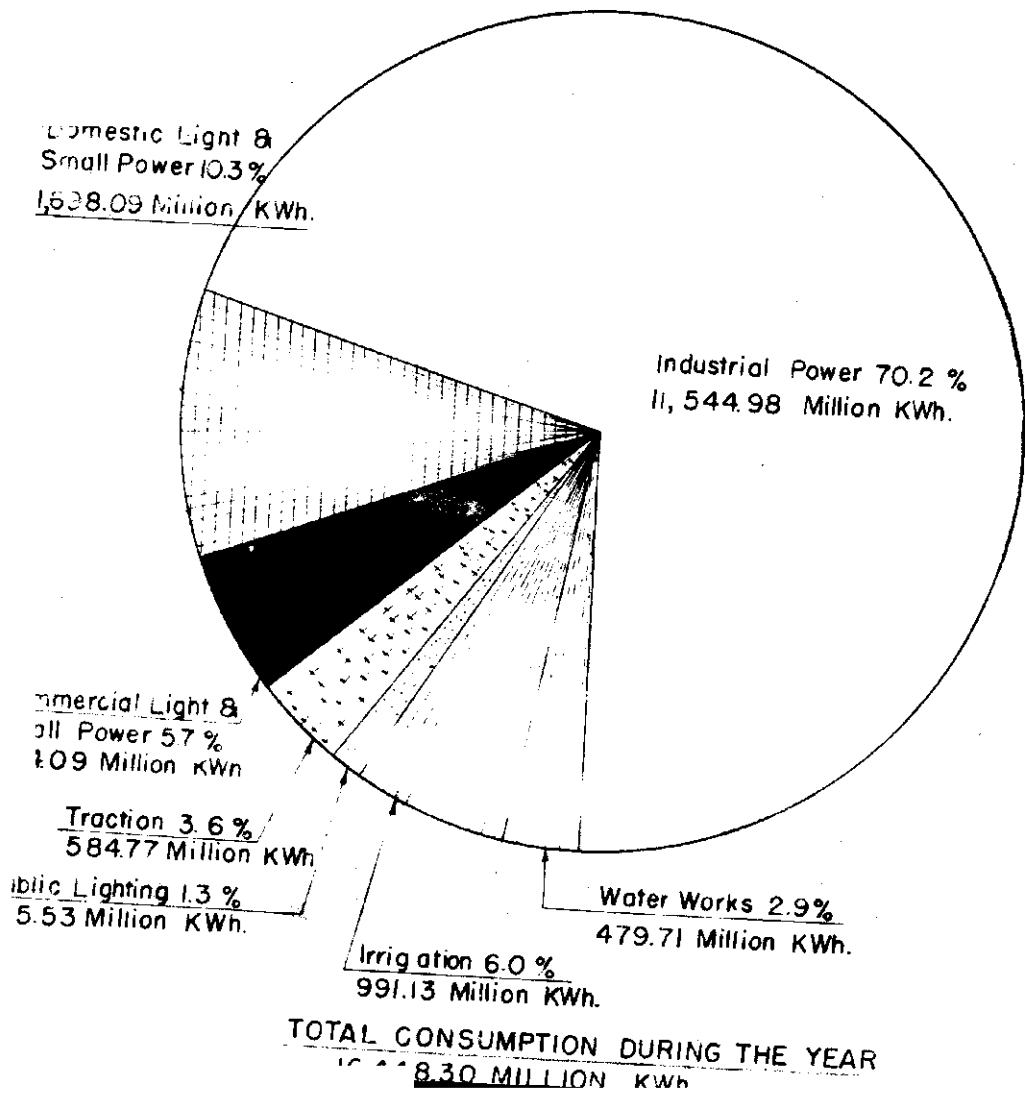
Serial No.	Segregation of Connected Load in KW								
	Industrial power including Electric Traction and Public Water Works		Public lighting		Irrigation and dewatering		Total Connected Load in kW		
	A.C.	D.C.	A.C.	D.C.	A.C.	D.C.	A.C.	D.C.	Total
1	209,751	..	7,016	..	117,143	..	487,065	..	487,065
2	3,763	926	370	97	..	..	16,682	4,199	20,881
3	327,629	893	1,524	30	26,725	4	456,935	4,043	460,978
4	387,814	3,488	34,718	926	39,326	154	700,428	14,119	714,547
5	3,812	..	117	..	342	..	9,305	..	9,305
6	190,408	..	3,729	..	19,444	..	336,797	..	336,797
7	128,701	119	2,311	42	5,513	60	214,133	2,397	216,530
8	561,667	2,300	10,302	8	517,095	..	1,490,560	15,028	1,505,588
9	922,991	15,061	7,160	49	23,124	..	1,489,152	17,599	1,506,751
10	237,705	110	8,760	20	76,459	..	481,337	309	481,646
11	138,355	..	629	12	186	..	162,857	63	162,920
12	215,060	2,309	2,761	210	73,151	..	494,151	13,922	508,073
13	38,307	475	2,109	99	4,336	56	98,444	2,242	100,686
14	254,296	11,152	3,018	718	77,900	31	480,546	59,428	539,974
15	725,762	59,493	3,270	4,000	20	..	933,616	357,176	1,290,792
16									
(a)	62,687	3,510	1,973	..	2,221	..	192,779	36,870	229,649
(b)	9,982	22	448	1	8,927	..	30,166	39	30,205
Total	4,418,690	99,859	90,215	6,212	991,912	305	8,074,953	527,434	8,602,387

the year. The corresponding connected load increased from 8.441 million kW to 8.602 million kW or 2.0 per cent during the year.

**SECTION 3
ENERGY SALES**

COMPARATIVE CONSUMPTION
ENERGY BY CLASS

TRICAL
ISATION.



1.0 UTILISATION OF ENERGY GENERATED AND PURCHASED DURING THE YEAR 1961

Table XXXVIII gives the summary of power generated, power purchased from non-utilities, power sold to ultimate consumers, the amount of the power lost in transmission and distribution etc.

TABLE XXXVIII—TOTAL ENERGY GENERATED, PURCHASED AND SOLD

Serial No.	Item	Million kilowatt hours	Percentage of energy available for supply
1	kWh generated	19,669·945	98·2
2	kWh purchased from non-electric utilities	367·367	1·8
3	Gross kWh available for supply	20,037·312	100·0
4	kWh used in power station auxiliaries	813·628	4·1
5	Net kWh available for supply	19,223·684	95·9
6	Total kWh sold to ultimate consumers	16,448·295	82·0
7	kWh lost in transmission, distribution and unaccounted for	2,775·389	13·9

TABLE XXXIX—ENERGY SALES BY CLASS OF UTILISATION

Serial No.	Class of utilisation	kWh sold in 1961-62	Percentage to total sales in 1961-62	kWh sold in 1960-61	Net Percentage increase over 1960-61
1	Domestic light and small power	1,698·091	10·3	1,492·291	13·8
2	Commercial light and small power	934·092	5·7	847·735	10·2
3	Industrial Power	11,544·975	70·2	9,584·338	20·5
4	Traction	584·768	3·6	453·923	28·8
5	Public lighting	215·530	1·3	193·241	11·5
6	Irrigation & dewatering	991·133	6·0	832·921	19·0
7	Water Works	479·706	2·9	436·190	10·2
	Total	16,448·295	100·0	13,840·637	18·8

10·3 per cent of total energy was sold to domestic consumers for domestic light and power, 5·7 per cent to commercial lighting, heating and small power, 70·2 per cent to industrial power, 3·6 per cent to traction, 1·3 per cent to public lighting, 6·0 per cent to irrigation & dewatering and 2·9 per cent to water works. The percentage increase in sales during the year for domestic light and power, commercial light and power and the industrial power was 13·8, 10·2 and 20·5 respectively. The net increase in sales for all classes of utilisation was 18·8 per cent over the sales in the previous year.

Table XLI gives the details of energy generated, purchased and sold in various States.

The total kwh purchased from non-electric utilities aggregated 367·367 million kwh and represented 1·8 per cent of the total energy produced by the public electric utility undertakings.

TABLE XL—ELECTRICITY GENERATED AND SOLD IN STATES DURING THE YEAR 1961-62

(Million kWh)

Serial No.	Name of the State or Union Territory	kWh generated	kWh purchased		kWh consumed for power station auxiliaries	kWh sold to adjoining states
			From the non-Electric utilities	From Electric utilities in the adjoining States		
1	2	3	4	5	6	7
1	Andhra Pradesh	1,081·543	..	1·614	24·189	110·452
2	Assam	43·485	..	..	1·209	..
3	Bihar	1,520·041	39·700	27·150	92·396	224·368
4	Gujarat	1,366·493	0·883	..	93·862	..
5	Jammu & Kashmir	72·215	..	21·950	0·509	..
6	Kerala	694·020	..	56·758	16·389	14·146
7	Madhya Pradesh	682·044	0·049	39·240	55·759	6·500
8	Madras	2,528·561	..	27·016	68·354	97·201
9	Maharashtra	3,638·146	0·184	..	161·871	29·240
10	Mysore	1,101·404	..	51·062	15·939	..
11	Orissa	598·025	40·213	46·520	3·950	25·780
12	Punjab	1,861·801	..	..	9·199	261·518
13	Rajasthan	142·254	0·209	37·338	9·452	..
14	Uttar Pradesh	1,362·730	..	..	65·761	..
15	West Bengal	2,663·459	286·129	224·368	169·359	1·370
16	Union Territories—					
	(a) Delhi	308·703	..	206·094	25·017	..
	(b) The Rest	5·021	..	41·465	0·503	..
	Total	19,669·945	367·367	780·575	813·628	780·575

Serial No.	Name of the State or Union Territory	kWh available for sale within the States	kWh sold direct to consumers within the States			kWh lost in transmission and Distribution Systems
			Public	Private	Total	
1	2	8	9	10	11	12
1	Andhra Pradesh	948·516	698·356	0·266	698·622	249·894
2	Assam	42·276	24·397	10·168	34·565	7·711
3	Bihar	1,270·127	766·746	204·946	971·692	296·435
4	Gujarat	1,273·514	384·893	755·553	1,140,446	133·068
5	Jammu & Kashmir	93·656	79·190	..	79·190	14·466
6	Kerala	720·243	563·115	43·265	606·380	113·863
7	Madhya Pradesh	659·074	520·655	60·469	581·124	77·950
8	Madras	2,390·022	1,760·553	168·693	1,929·246	460·776
9	Maharashtra	3,437·219	1,309·081	1,786·155	3,095·246	341·973
10	Mysore	1,136·527	964·000	15·362	979·362	157·165
11	Orissa	655·028	552·000	2·669	553·669	100·359
12	Punjab	1,591·084	1,338·625	30·362	1,374·987	216·097
13	Rajasthan	170·349	115·685	21·566	137·251	33·098
14	Uttar Pradesh	1,297·059	729·383	368·746	1,098·129	198·930
15	West Bengal	3,003·227	530·048	2,186·264	2,716·312	286·915
16	Union Territories—					
	(a) Delhi	489·780	400·990	7·592	408·582	81·198
	(b) The Rest	45·983	41·051	1·440	42·491	3·492
	Total	19,223·684	10,778·768	5,669·526	16,448·295	2,775·389

TABLE XLI—AUXILIARIES AND TRANSMISSION AND DISTRIBUTION LINE LOSSES IN STATE ELECTRICITY BOARDS/GOVERNMENT DEPARTMENTS FOR THE YEAR 1961-62

(Million kWh)

Serial No.	Name of State Electricity Board/Government Departments	kWh generated	kWh purchased			kWh used in power station auxiliaries	Percentage of kWh used in power station auxiliaries on column (3)
			From non-electric utilities	From electric utilities			
				Within the State	In the adjoining States		
1	2	3	4	5	6	7	8
1	Andhra Pradesh E.B. ..	1,081-213	..	..	1-614	24-186	2.2
2	Assam E. B. ..	31-917	..	..	..	0-810	2.5
3	Bihar E.B. ..	32-769	4-513	507-230	27-150	2-238	6.8
4	Gujarat E.B. ..	445-655	0-883	157-572	..	44-427	10.0
5	Jammu and Kashmir E.D.	72-215	..	..	21-950	0-509	0.7
6	Kerala E.B. ..	694-020	..	..	56-758	16-353	2.4
7	Madhya Pradesh E.B. ..	602-091	0-049	9-148	39-240	35-825	5.9
8	Madras E.B. ..	2,528-561	..	0-804	27-016	68-231	2.7
9	Maharashtra E. B. ..	918-815	0-184	28-864	..	77-761	8.5
10	Mysore E.B. ..	1,091-071	..	..	51-062	15-500	1.4
11	Orissa E.B. ..	598-025	40-213	..	46-520	5-757	0.6
12	Punjab E.B. ..	1,847-580	..	..	..	8-636	0.5
13	Rajasthan E.B. ..	118-308	..	..	37-338	8-687	7.5
14	Uttar Pradesh E.B. ..	1,047-362	..	..	..	41-449	4.0
15	West Bengal E.B. ..	180-679	..	159-655	..	11-325	6.3

Serial No.	Name of State Electricity Board/Government Departments	kWh sent out	kWh sold			kWh lost in transmission and unaccounted for	kWh lost in transmission as percentage of total kWh sent out
			Within the State	In the adjoining States	within the area of the Board/Government		
1	2	9	10	11	12	13	14
1	Andhra Pradesh E.B. ..	1,058-641	..	110-452	698-356	249-833	23.6
2	Assam E.B. ..	31-107	..	..	24-397	6-710	21.6
3	Bihar E.B. ..	569-424	146-800	..	296-810	125-814	22.0
4	Gujarat E.B. ..	559-683	141-000	..	345-077	73-606	13.2
5	Jammu and Kashmir E.D.	93-656	..	..	79-190	14-466	15.4
6	Kerala E.B. ..	734-425	24-408	14-146	563-115	132-756	18.1
7	Madhya Pradesh E.B. ..	614-703	9-750	6-500	524-297	74-156	12.1
8	Madras E.B. ..	2,488-150	258-601	97-201	1,704-090	428-258	17.2
9	Maharashtra E.B.	870-102	89-340	39-240	690-265	51-257	5.9*
10	Mysore E.B. ..	1,126-633	9-143	..	964-000	153-490	13.6
11	Orissa E.B. ..	681-001	3-167	25-780	552-000	100-054	14.7
12	Punjab E.B. ..	1,838-944	67-861	261-518	1,266-276	223-289	12.1
13	Rajasthan E.B. ..	144-957	1-651	..	118-500	27-606	19.2
14	Uttar Pradesh E.B. ..	1,005-913	170-526	..	690-248	145-139	14.4
15	West Bengal E.B. ..	329-009	11-927	1-370	285-423	30-349	9.2

*Losses are low, because the generation and sale of Chola Station (Central Railway) has been included in Maharashtra State Electricity Board.

TABLE XLII—SEGREGATION

Serial No.	Name of State or Union Territory	Total sold to ultimate consumers	Domestic heat & small power	Domestic light & fans	Commercial heat and small power	Commercial light and fans
1	Andhra Pradesh	698·622	15·043	63·487	14·095	20·000
2	Assam	34·565	1·156	7·190	1·546	6·913
3	Bihar	971·692	5·487	42·005	8·429	17·044
4	Gujarat	1,140·446	20·227	59·732	10·387	22·503
5	Jammu & Kashmir	79·190	2·500	35·190	1·000	1·500
6	Kerala	606·380	7·250	52·943	1·785	2·689
7	Madhya Pradesh	581·124	3·674	51·693	5·374	18·600
8	Madras	1,929·246	44·301	118·476	59·660	113·583
9	Maharashtra	3,095·246	103·175	193·537	54·069	162·856
10	Mysore	979·362	20·741	64·946	4·311	20·396
11	Orissa	554·669	3·073	27·076	4·110	10·967
12	Punjab	1,374·987	17·909	61·935	15·283	56·004
13	Rajasthan	137·251	3·083	28·158	4·718	18·739
14	Uttar Pradesh	1,098·129	13·865	132·308	19·991	56·508
15	West Bengal	2,716·312	81·767	301·434	28·030	92·230
16	<i>Union Territories—</i>					
	(a) Delhi	408·582	20·101	89·087	12·012	65·561
	(b) The Rest	42·491	0·489	5·053	0·919	2·220
	Total ..	16,448·295	363·841	1,334·250	245·719	688·373

OF ENERGY SALES IN STATES

(Million kWh)

Serial No.	Industrial power at low and medium voltage	Industrial power at high voltage	Public lighting	Electric traction	Irrigation and dewatering	Public water works and sewage pumping	kWh generated
1	60·478	432·849	15·772	..	63·450	13·448	1,081·543
2	4·427	10·338	2·404	..	..	0·591	43·485
3	55·718	746·174	3·984	61·598	18·462	12·791	1,520·041
4	129·217	797·608	16·208	..	42·384	42·180	1,366·493
5	22·000	9·000	1·500	..	1·500	5·000	72·215
6	60·514	446·628	8·767	..	18·196	7·608	694·020
7	59·762	399·268	10·881	..	3·537	28·335	682·044
8	232·793	815·068	37·639	38·901	440·654	28·171	2,528·561
9	419·638	1,728·794	22·823	366·625	13·978	29·751	3,638·146
10	94·575	664·181	20·144	..	30·068	60·000	1,101·404
11	20·611	480·000	2·240	..	1·580	5·012	598·025
12	210·747	890·387	12·520	..	99·690	10·512	1,861·801
13	31·508	7·755	5·641	..	9·378	28·271	142·254
14	228·889	340·863	14·284	..	229·878	63·543	1,362·730
15	164·182	1,807·039	27·196	117·144	3·555	93·676	2,663·459
16							
(a)	73·556	79·650	12·005	0·500	6·010	50·100	308·703
(b)	4·053	18·705	1·522	..	8·813	0·717	5·021
Total	1,870·668	9,674·307	215·530	584·768	991·133	479·706	19,669·945

2.0 PER CAPITA CONSUMPTION OF ELECTRICITY

The average per capita consumption of electricity for the Indian Union was 39.76 kWh. If the generation by the industries and the Railways power stations is also taken into account, the per capita consumption for the year would be 43.57 kWh the corresponding per capita generation being 51.21 kWh.

Table XLIII gives the annual per capita consumption of electricity in public utilities under five classes of utilisation in the various states based on the estimated population figures as on 1st April, 1962. The table also gives the per capita consumption met by self-generating industrial establishments. The rate of proportionate growth of population in each state is assumed to be the same as it was during the period 1951 to 1961. On this rate of growth of population the per capita figures in (i) public utilities and (ii) public utilities including self-generating industrial establishments for the previous years were as follows:—

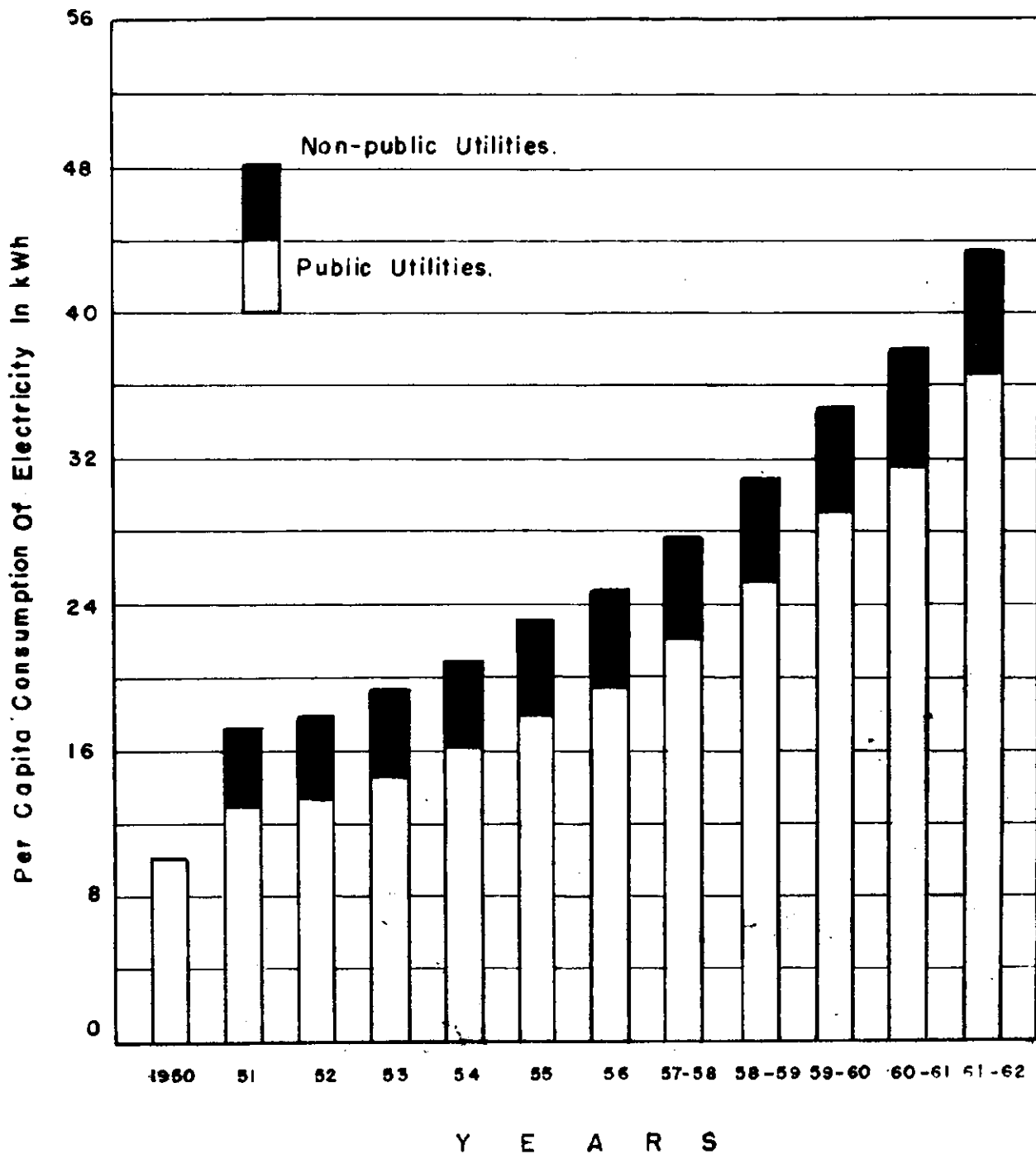
Year	Public Utilities	Public utilities plus self-generating industrial establishments
1961-62	36.79 kWh	43.57
1960-61	31.62 kWh	37.92
1959-60	28.94 kWh	34.79
1956	19.65 kWh	24.83
1951	13.00 kWh	17.26

The Delhi State, because of its predominant urban character, showed the highest overall per capita consumption of electricity of 183.94 kWh. Next to Delhi State, the West Bengal, Maharashtra, Gujarat, Punjab, Madras, Orissa, Mysore, Bihar and Kerala States followed in the order of magnitude.

TABLE XLIII—ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY IN 1961-62

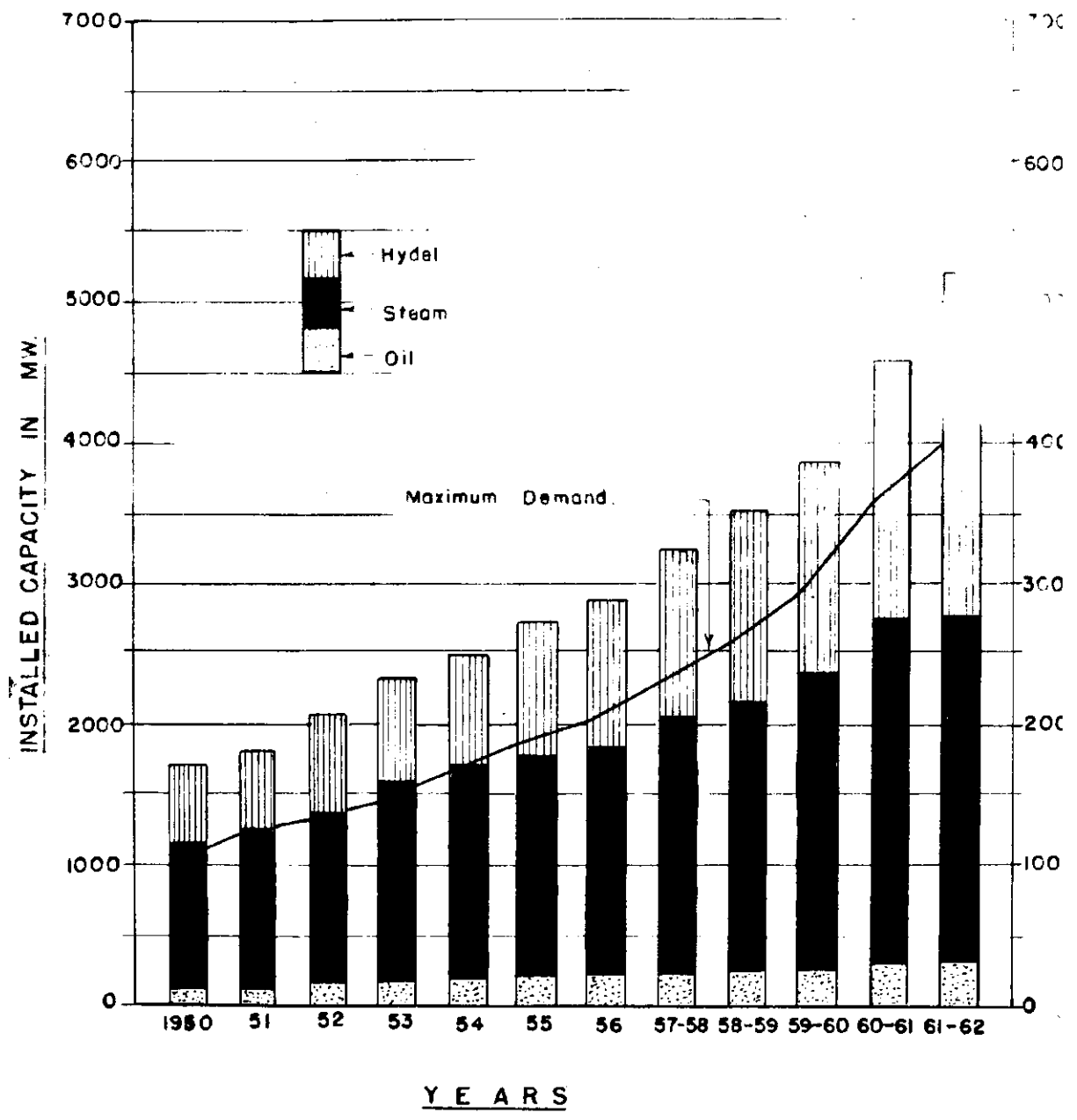
Serial No.	Name of State or Union Territory	Population (Millions)	Public Utilities					Non-Electric Utilities per capita kWh	All-India per capita kWh Column (9) plus Column (10)	
			Domestic light and small power per capita kWh	Commercial light and small power per capita kWh	Industrial including traction and water works per capita kWh	Public lighting per capita kWh	Irrigation per capita kWh			Total per capita consumption kWh
1	2	3	4	5	6	7	8	9	10	11
1	Andhra Pradesh	36.54	2.14	0.93	13.87	0.43	1.74	19.11	3.11	22.21
2	Assam ..	12.27	0.68	0.69	1.26	0.20	..	2.82	1.27	4.09
3	Bihar ..	47.38	1.00	0.54	18.49	0.08	0.39	20.51	18.24	38.74
4	Gujarat	21.19	3.77	1.55	45.72	0.76	2.80	53.82	7.98	61.75
5	Jammu & Kashmir	3.61	10.40	0.69	9.97	0.42	0.42	21.94	..	21.90
6	Kerala ..	17.29	3.48	0.26	29.77	0.51	1.05	35.07	0.03	35.10
7	Madhya Pradesh	33.17	1.67	0.72	14.69	0.33	0.11	17.52	7.70	25.22
8	Madras ..	34.04	4.78	5.09	32.75	1.11	12.95	56.68	0.95	57.63
9	Maharashtra	40.42	7.34	5.37	63.00	0.56	0.35	76.58	3.24	79.83
10	Mysore ..	24.05	3.56	1.03	34.04	0.84	1.25	40.72	4.34	45.06
11	Orissa ..	17.91	1.68	0.84	28.23	0.13	0.09	30.97	17.35	48.32
12	Punjab ..	20.82	3.83	3.42	53.39	0.60	4.79	66.07	3.45	69.49
13	Rajasthan ..	20.67	1.51	1.13	3.26	0.27	0.45	6.64	7.08	13.72
14	Uttar Pradesh	74.98	1.95	1.02	8.42	0.19	3.07	14.65	1.80	16.45
15	West Bengal ..	36.12	10.61	3.31	60.41	0.75	0.10	75.20	16.53	91.72
16	Union Territories									
	(a) Delhi ..	2.78	39.28	27.90	73.31	4.33	2.16	146.97	36.97	183.94
	(b) The Rest	4.18	1.33	0.75	5.62	0.36	2.11	10.17	0.06	10.23
	All-India Total	447.42	3.79	2.09	28.18	0.48	2.22	36.76	6.78	43.54

PER CAPITA CONSUMPTION OF ELECTRICITY



INSTALLED CAPACITY

MAXIMUM DEMAND



3.0 AVERAGE REVENUE REALISED FROM SALE OF ELECTRICITY

Table XLIV gives an idea of the weighted average revenue realised from sale of electrical energy to ultimate consumers during 1961-62 as compiled from the data collected from major public utility undertakings covering about 73.0 per cent of the total power sold.

TABLE XLIV—AVERAGE PRICE OF ELECTRICITY

Serial No.	Category of sales	kWh sold in 1961-62 (Millions)	Revenue realised in Rs. (lakhs)	Revenue realised in naye Paisa per kWh sold
1	Domestic and commercial premises for lighting, heating and small ..	1,929	32,55	16.87
2	Industries and traction	9,334	50,12	5.37
3	Agriculture	795	6,46	8.13
4	All purposes i.e. (1), (2) and (3) above	12,068	89,13	7.39

4.0 PROGRESS OF ELECTRICITY SUPPLY INDUSTRY

The progress of electricity supply in the country as a whole and in each of the states is indicated in tables XLV (1), XLV (2) to XLV (18)

TABLE XLV(1)—PROGRESS OF ELECTRICITY SUPPLY IN THE COUNTRY

Year	Installed capacity of generating plant to the end of the year				Aggregate of M.D. on individual systems during the year kW	kWh generated (million)	kWh generated per kW of average capacity	kWh sold (million)	Average load factor based on Columns (6) & (7) %	Average plant demand factor based on columns (5) & (6) %
	Steam kW	Oil kW	Hydro kW	Total kW						
1	2	3	4	5	6	7	8	9	10	11
1939	540,760	86,790	442,169	1,069,719	575,801	2,442.415	2,283	2,034.636	48.42	53.8
1947	757,457	97,679	508,129	1,363,265	882,853	4,073.318	2,988	3,358.794	52.67	64.8
1948	788,393	107,019	515,554	1,410,966	965,780	4,575.466	3,243	3,721.464	54.08	68.4
1949	852,639	125,468	559,079	1,537,186	1,008,000	4,909.289	3,194	4,004.716	55.60	65.6
1950	1,004,434	148,796	559,285	1,712,515	1,098,314	5,106.700	2,981	4,156.657	53.55	64.1
1951	1,097,567	162,680	575,179	1,835,426	1,205,194	5,858.403	,192	4,793.344	55.49	65.7
1952	1,176,317	170,259	715,179	2,061,755	1,310,651	6,120.347	2,969	5,005.682	53.31	63.6
1953	1,393,717	180,294	731,179	2,305,190	1,416,350	6,697.187	2,905	5,597.083	53.98	61.4
1954	1,491,043	209,607	793,346	2,493,996	1,625,123	7,521.777	3,016	6,252.501	52.84	65.2
1955	1,546,805	208,529	939,483	2,694,817	1,849,672	8,592.451	3,189	7,111.011	53.03	68.6
1956	1,596,412	228,288	1,061,441	2,886,141	1,989,774	9,662.133	3,348	7,959.345	55.43	68.9
1957-58	1,763,257	245,935	1,213,919	3,223,111	2,288,212	11,369.142	3,527	9,345.224	56.72	71.0
1958-59	1,879,553	270,288	1,361,745	3,511,586	2,542,955	12,993.886	3,700	10,718.610	58.33	72.4
1959-60	2,047,011	296,010	1,530,145	3,873,166	2,931,360	15,032.953	3,381	12,406.943	58.56	75.7
1960-61	2,436,255	300,135	1,916,661	4,653,051	3,551,124	16,937.012	3,681	13,840.295	54.44	76.3
1961-62	2,466,019	316,764	2,419,100	5,201,833	3,971,206	19,669.945	3,912	16,448.295	56.40	76.4

TABLE XLV(2)—PROGRESS OF ELECTRICITY SUPPLY (ANDHRA PRADESH)

Item	1951	1956	1959-60	1960-61	1961-62
Installed capacity (in kW)					
Steam	46,000	46,000	83,500	83,500	85,450
Oil	13,164	19,876	22,702	20,188	7,165
Hydro .. .. .	..	66,000	171,400	166,150	165,825
Total ..	59,164	131,876	277,602	269,838	258,440
Out-put (in million kWh)					
Steam	89·612	60·177	116·673	145·836	207·679
Oil	14·328	9·661	7·007	5·450	7·752
Hydro .. .. .	..	169·364	577·389	748·743	866·112
Total ..	103·940	239·202	701·069	900·029	1,031·543
Sales (Million kWh) within the State					
Domestic light and small power ..	20·946	32·666	70·035	70·815	78·530
Commercial light and small power ..	18·657	33·810	49·014	30·321	34·095
Industrial Power	59·946	88·641	307·969	393·331	493·327
Public Lighting	5·878	9·032	17·032	14·863	15·772
Traction .. .. .	..	..	..	..	..
Irrigation & Dewatering	4·905	10·458	53·378	54·827	63·450
Public Water Works	3·493	6·410	12·932	7·399	13·448
Total ..	113·825	181·017	510·360	571·556	698·622

TABLE XLV(3)—PROGRESS OF ELECTRICITY SUPPLY (ASSAM)

Item	1951	1956	1959-60	1960-61	1961-62
Installed capacity (in kW)					
Steam	200	622	..	..	..
Oil	2,593	4,108	9,990	10,160	16,547
Hydro	550	550	9,270	9,270	9,940
Total ..	3,343	5,280	19,260	19,430	26,487
Out-put (in million kWh)					
Steam	0·001	..	..	..	..
Oil	4·469	8·372	13·117	15·336	15·981
Hydro	2·130	2·897	17·792	20·883	27·504
Total ..	6·600	11·269	30·909	36·219	43·485
Sales (Million kWh) within the State					
Domestic light and small power ..	2·080	3·331	9·308	9·897	8·346
Commercial light and small power ..	2·060	3·689	5·677	4·212	8·459
Industrial Power	0·772	1·363	6·558	11·827	14·765
Public Lighting	0·614	0·740	2·325	2·699	2·404
Traction .. .. .	..	..	..	..	..
Irrigation & Dewatering .. .. .	..	..	..	..	..
Public Water Works	0·069	0·143	1·002	0·463	0·591
Total ..	5·595	9·286	24·870	29·098	34·565

TABLE XLV (4)—PROGRESS OF ELECTRICITY SUPPLY (BIHAR)

Item	1951	1956	1959-60	1960-61	1961-62
Installed capacity (in kW)					
Steam	39,510	185,045	206,020	288,520	288,900
Oil	7,486	15,396	17,793	18,373	21,226
Hydro .. .. .	..	4,000	44,000	44,000	44,000
Total ..	46,996	204,441	267,813	350,893	354,126
Out-put (in million kWh)					
Steam	118·870	580·118	1,260·206	1,408·554	1,301·349
Oil	13·162	20·964	44·183	44·624	49·203
Hydro .. .. .	..	2·153	98·115	143·655	169·489
Total ..	132·032	603·235	1,402·504	1,596·833	1,520·041
Sales (Million kWh) within the State					
Domestic light and small power	14·820	27·138	55·212	44·312	47·492
Commercial light and small power	6·062	13·296	23·108	29·830	25·473
Industrial Power	87·847	298·543	651·796	776·395	801·892
Public Lighting	1·098	1·937	4·216	3·647	5·984
Traction .. .. .	..	..	..	4·528	61·598
Irrigation & Dewatering	4·599	4·272	22·008	18·255	18·462
Public Water Works	4·167	8·126	14·479	12·238	12·791
Total ..	118·593	353·312	770·819	889·205	971·692

TABLE XLV (5)—PROGRESS OF ELECTRICITY SUPPLY (GUJARAT)

Item	1951	1956	1959-60	1960-61	1961-62
Installed capacity (in kW)					
Steam	108,930	183,600	271,245	280,900	310,900
Oil	32,948	40,605	49,369	52,367	52,636
Hydro .. .. .	..	..	..	..	..
Total ..	141,878	224,205	320,634	333,267	363,536
Out-put (in million kWh)					
Steam	316·405	739·372	1,025·339	1,209·144	1,308·621
Oil	57·244	51·577	65·417	62·083	57·872
Hydro .. .. .	..	..	..	..	..
Total ..	373·649	790·949	1,090·756	1,271·227	1,366·493
Sales (Million kWh) within the State					
Domestic light and small power	30·901	46·726	63·803	71·573	79·959
Commercial light and small power	12·328	14·936	28·075	31·660	32·890
Industrial Power	266·694	590·402	770·368	805·961	926·825
Public Lighting	5·889	8·980	13·228	15·274	16·208
Traction .. .. .	..	..	..	..	..
Irrigation & Dewatering	1·326	6·060	27·241	19·610	42·384
Public Water Works	12·083	26·746	35·713	39·560	42·180
Total ..	329·221	693·850	938·428	983·638	1,140·446

TABLE XLV (6)—PROGRESS OF ELECTRICITY SUPPLY (JAMMU AND KASHMIR)

Item	1951	1956	1959-60	1960-61	1961-62
Installed capacity (in kW)					
Steam	1,500	1,500	1,500	1,500	1,500
Oil	465	789	869	869	869
Hydro	4,514	10,606	10,612	10,612	19,612
Total ..	6,479	12,875	12,981	12,981	21,981
Out-put (in million kWh)					
Steam	1.774	..	..	..	..
Oil	0.261	0.075	0.081	0.025	0.025
Hydro	23.479	23.896	42.442	43.489	72.190
Total ..	25.514	23.971	42.523	43.514	72.215
Sales (Million kWh) within the State					
Domestic light and small power	7.660	8.864	22.000	22.500	37.690
Commercial light and small power	0.811	0.176	1.000	1.000	2.500
Industrial Power	6.318	6.424	21.500	22.000	31.000
Public Lighting	0.552	0.566	1.300	1.300	1.500
Traction .. .. .	..	..	..	..	..
Irrigation & Dewatering	0.424	0.302	0.700	0.700	1.500
Public Water Works	1.610	2.086	3.500	3.500	5.000
Total ..	17.375	18.418	50.000	51.000	79.190

TABLE XLV (7)—PROGRESS OF ELECTRICITY SUPPLY (KERALA)

Item	1951	1956	1959-60	1960-61	1961-62
Installed capacity (in kW)					
Steam .. .. .	..	..	..	..	..
Oil	4,170	4,277	4,762	4,762	3,815
Hydro	28,500	85,500	117,500	132,500	147,500
Total ..	32,670	89,777	122,262	137,262	151,315
Out-put (in Million kWh)					
Steam .. .. .	..	..	..	..	..
Oil	1.460	0.132	0.106	..	..
Hydro	152.179	349.599	487.811	581.818	694.020
Total ..	153.639	349.731	487.917	581.818	694.020
Sales (Million kWh) within the State					
Domestic light and small power	13.748	22.890	44.840	51.073	60.193
Commercial light and small power	2.697	2.291	4.319	3.851	4.474
Industrial Power	140.939	223.592	342.060	398.407	507.142
Public Lighting	1.604	2.722	7.439	8.358	8.767
Traction .. .. .	..	..	..	..	..
Irrigation & Dewatering	6.170	10.721	12.668	18.287	18.196
Public Water Works	3.292	7.001	7.730	7.844	7.608
Total ..	168.550	289.217	419.056	485.820	606.380

TABLE XLV (8)—PROGRESS OF ELECTRICITY SUPPLY (MADHYA PRADESH)

Item	1951	1956	1959-60	1960-61	1961-62
Installed capacity (in kW)					
Steam	27,308	66,322	169,798	169,798	168,532
Oil	11,979	15,984	26,364	28,739	33,241
Hydro .. .. .	..	..	..	69,000	69,000
Total ..	39,287	82,306	196,162	267,537	270,773
Out-put (in million kWh)					
Steam	57,354	150,070	331,519	429,677	518,948
Oil	15,953	19,271	22,604	24,049	26,371
Hydro .. .. .	..	..	..	23,240	136,725
Total ..	73,307	169,341	354,123	476,966	682,044
Sales (Million kWh) within the State					
Domestic light and small power	14,845	25,206	38,145	45,397	55,367
Commercial light and small power	7,470	13,525	20,324	20,790	23,974
Industrial Power	23,094	77,280	207,171	301,267	459,030
Public Lighting	2,183	4,801	7,849	9,113	10,881
Traction .. .. .	..	..	..	..	..
Irrigation & Dewatering	0,188	0,698	2,323	3,890	3,537
Public Water Works	10,321	18,486	19,677	25,243	28,335
Total ..	58,101	139,996	295,489	405,700	581,124

TABLE XLV (9)—PROGRESS OF ELECTRICITY SUPPLY (MADRAS)

Item	1951	1956	1959-60	1960-61	1961-62
Installed capacity (in kW)					
Steam	52,000	84,000	112,500	101,500	101,500
Oil	516	516	516	516	516
Hydro	101,950	165,150	290,150	415,450	455,250
Total ..	154,466	249,666	403,166	517,466	557,266
Out-put (in Million kWh)					
Steam	140,189	281,718	429,336	416,171	405,990
Oil	0,195	..	0,206	..	0,255
Hydro	579,173	802,619	1,458,351	1,797,545	2,122,316
Total ..	719,557	1,084,337	1,897,893	2,213,716	2,528,561
Sales (Million kWh) within the State					
Domestic light and small power	65,063	108,915	153,117	152,890	162,777
Commercial light and small power	53,541	90,398	98,262	150,712	173,243
Industrial Power	298,342	449,368	769,982	909,791	1,047,861
Public Lighting	13,491	20,774	31,027	33,920	37,639
Traction	15,749	12,628	14,849	15,000	38,901
Irrigation & Dewatering	69,607	138,300	357,525	382,403	440,654
Public Water Works	8,625	10,319	14,385	14,427	28,171
Total ..	614,418	830,702	1,439,147	1,665,143	1,929,246

TABLE XLV (10)—PROGRESS OF ELECTRICITY SUPPLY (MAHARASHTRA)

Item	1951	1956	1959-60	1960-61	1961-62
Installed capacity (in kW)					
Steam	64,954	225,110	322,405	443,250	443,250
Oil	21,122	27,917	35,202	34,363	44,187
Hydro	253,114	279,914	279,914	281,914	283,114
Total ..	339,190	532,941	637,521	759,527	770,551
Out-put (in Million kWh)					
Steam	230·038	742·343	1,425·261	1,834·760	2,028·613
Oil	32·203	38·879	54·583	68·171	74·758
Hydro	1,229·024	1,467·483	1,440·623	1,364·946	1,534·775
Total ..	1,541·265	2,248·705	2,920·467	3,267·877	3,638·146
Sales (Million kWh) within the State					
Domestic light and small power	108·464	165·574	233·040	259·901	296·712
Commercial light and small power	87·033	131·301	178·405	198·230	216·925
Industrial Power	815·801	1,234·899	1,619·604	1,852·666	2,148·432
Public Lighting	7·129	14·503	18·351	19·883	22·823
Traction	270·946	344·463	335·633	338·927	366·625
Irrigation & Dewatering	2·748	5·129	8·105	14·759	13·978
Public Water Works	23·381	31·366	41·581	35·157	29·751
Total ..	1,315·502	1,927·235	2,434·719	2,719·523	3,095·246

TABLE XLV (11)—PROGRESS OF ELECTRICITY SUPPLY (MYSORE)

Item	1951	1956	1959-60	1960-61	1961-62
Installed capacity (in kW)					
Steam	0,057	..	..	..	..
Oil	7,681	12,264	12,411	12,876	13,518
Hydro	107,200	173,200	178,200	178,200	187,200
Total ..	114,938	190,464	190,611	191,076	200,718
Out-put (in million kWh)					
Steam .. .. .	..	..	..	..	..
Oil	13·159	16·449	16·963	19·242	21·848
Hydro	525·343	809·725	982·750	1,038·756	1,079·556
Total ..	538·502	826·174	999·713	1,057·998	1,101·404
Sales (Million kWh) within the State					
Domestic light and small power	31·987	55·489	69·923	75·243	85·687
Commercial light and small power	8·734	17·785	21·203	21·299	24·707
Industrial Power	292·174	486·229	686·926	731·889	758·756
Public Lighting	7·140	13·838	17·326	18·880	20·144
Traction .. .. .	..	..	..	..	..
Irrigation & Dewatering	6·967	16·465	26·308	28·714	30·068
Public Water Works	37·034	42·574	55·669	58·915	60·000
Total ..	384·036	632·380	877·355	934·940	979·362

TABLE XLV (12)—PROGRESS OF ELECTRICITY SUPPLY (ORISSA)

Item	1951	1956	1959-60	1960-61	1961-62
Installed capacity (in kW)					
Steam	776	5,776	5,776	5,776	5,776
Oil	4,079	3,991	7,101	7,468	8,331
Hydro	5	24,005	123,005	123,005	123,005
Total ..	4,860	33,772	135,882	136,249	137,112
Out-put (in million kWh)					
Steam	2·133	17·617	1·125	..	..
Oil	4·665	3·517	6·998	5·901	3·064
Hydro	0·013	0·011	493·609	483·738	594·961
Total ..	6·811	21·145	501·732	489·639	598·025
Sales (Million kWh) within the State					
Domestic light and small power	2·256	4·023	16·806	18·300	30·149
Commercial light and small power	1·408	1·938	7·229	7·870	15·077
Industrial Power	1·117	7·578	428·491	457·465	500·611
Public Lighting	0·243	0·614	1·193	1·487	2·240
Traction .. .. .	..	..	..	..	..
Irrigation & Dewatering .. .. .	..	..	0·672	0·752	1·580
Public Water Works	0·101	1·049	3·091	2·297	5·012
Total ..	5·135	15·202	455·482	488·171	554·669

TABLE XLV (13)—PROGRESS OF ELECTRICITY SUPPLY (PUNJAB)

Item	1951	1956	1959-60	1960-61	1961-62
Installed capacity (in kW)					
Steam	2,376	7,826	7,276	7,876	7,326
Oil	18,245	20,647	18,015	16,725	16,248
Hydro	49,990	145,990	145,990	326,476	654,570
Total ..	70,611	174,463	171,281	351,077	678,144
Out-put (in million kWh)					
Steam	2·881	6·769	8·930	6·658	7·137
Oil	19·882	8·359	3·555	8·093	3·906
Hydro	184·420	425·697	760·296	988·887	1,850·758
Total ..	207·183	440·825	772·790	1,003·638	1,861·801
Sales (Million kWh) within the State					
Domestic light and small power	24·898	40·840	59·792	69·867	79·844
Commercial light and small power	12·006	34·819	56·344	61·397	71·287
Industrial Power	56·128	153·632	287·958	355·974	1,101·134
Public Lighting	2·443	5·755	7·937	9·092	12·520
Traction .. .. .	..	..	..	..	..
Irrigation & Dewatering	0·490	22·655	50·447	74·848	99·690
Public Water Works	6·589	8·729	9·256	9·121	10·512
Total ..	102·554	266·430	471·734	580·299	1,374·987

TABLE XLV (14)—PROGRESS OF ELECTRICITY SUPPLY (RAJASTHAN)

Item	1951	1956	1959-60	1960-61	1961-62
Installed capacity (in kW)					
Steam	17,265	24,000	29,250	46,250	46,250
Oil	13,675	19,787	21,878	24,425	25,695
Hydro .. .. .	..	..	..	..	..
Total ..	30,940	43,787	51,128	70,675	71,945
Out-put (in million kWh)					
Steam	42·716	61·279	65·811	70·411	102·860
Oil	21·552	29·030	37·894	37·991	39·304
Hydro .. .. .	..	..	..	..	..
Total ..	64,268	90·309	103·705	108·402	142·254
Sales (Million kWh) within the State					
Domestic light and small power	10·834	12·325	18·003	20·734	31·241
Commercial light and small power	5·833	11·115	13·561	15·858	23·457
Industrial Power	14·198	21·890	24·995	33·580	30·263
Public Lighting	1·969	2·987	4·073	5·200	5·641
Traction .. .. .	..	..	..	..	..
Irrigation & Dewatering	1·664	1·845	2·795	3·621	9·378
Public Water Works	12,923	14·459	16·872	19·537	28·271
Total ..	47·421	64·621	80·299	98·530	137·251

TABLE XLV (15)—PROGRESS OF ELECTRICITY SUPPLY (UTTAR PRADESH)

Item	1951	1956	1959-60	1960-61	1961-62
Installed capacity (in kW)					
Steam	161,090	179,860	249,810	270,810	270,910
Oil	12,883	32,490	35,699	34,164	38,221
Hydro	26,220	96,390	92,490	92,470	192,470
Total ..	200,193	308,740	377,999	397,444	501,601
Out-put (in million kWh)					
Steam	398·271	490·829	729·432	786·262	823·102
Oil	14·181	20·343	26·029	26·092	27·064
Hydro	157·320	232·309	427·078	439·967	512·564
Total ..	569·772	743·481	1,182·539	1,252·321	1,362·730
Sales (Million kWh) within the State					
Domestic light and small power	49·587	71·510	118·081	122·718	146·173
Commercial light and small power	40·451	59·317	80·252	74·736	76·499
Industrial Power	230·991	314·181	485·152	503·928	567·752
Public Lighting	6·246	8·384	13·223	13·848	14·284
Traction .. .. .	..	..	..	..	..
Irrigation & Dewatering	98·230	90·441	176·448	199·992	229·878
Public Water Works	32·434	42·145	58·112	60·481	63·543
Total ..	457·939	585·978	931·268	975·703	1,098·129

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TABLE XLV (16)—PROGRESS OF ELECTRICITY SUPPLY (WEST BENGAL)

Items	1951	1956	1959-60	1960-61	1961-62
Installed capacity (in kW)					
Steam	539,901	528,351	528,331	678,975	678,125
Oil	3,513	5,612	8,963	9,473	8,280
Hydro	2,760	4,760	67,208	67,208	67,208
Total ..	546,174	538,723	604,502	753,656	751,613
Out-put (in million kWh)					
Steam	1,156,902	1,766,624	1,994,810	2,150,169	2,501,918
Oil	4,443	4,632	7,974	8,684	8,797
Hydro	5,929	8,335	240,178	159,886	152,744
Total ..	1,207,274	1,778,591	2,242,962	2,318,739	2,663,459
Sales (Million kWh) within the State					
Domestic light and small power	180,831	253,402	326,242	353,517	383,201
Commercial light and small power	37,550	79,275	106,732	115,786	120,320
Industrial Power	731,949	1,291,502	1,702,812	1,860,162	1,971,221
Public Lighting	8,346	15,112	22,079	23,395	27,196
Traction	42,899	47,487	90,056	95,297	117,144
Irrigation & Dewatering .. .. .	..	2,170	0,455	0,650	3,555
Public Water Works	32,564	65,594	94,493	95,993	93,676
Total ..	1,034,139	1,754,542	2,342,869	2,544,800	2,716,313

TABLE XLV (17)—PROGRESS OF ELECTRICITY SUPPLY (DELHI)

Item	1951	1956	1959-60	1960-61	1961-62
Installed capacity (in kW)					
Steam	35,150	52,400	53,600	53,600	53,600
Oil	7,436	2,791	22,703	22,703	23,705
Hydro .. .. .	..	..	..	..	..
Total ..	42,586	55,191	76,303	76,303	77,305
Out-put (in million kWh)					
Steam	131,881	231,676	276,394	271,406	267,322
Oil	5,400	0,541	17,516	39,350	41,381
Hydro .. .. .	..	..	..	..	..
Total ..	137,281	232,217	293,910	310,756	308,703
Sales (Million kWh) within the State					
Domestic light and small power	24,250	52,462	74,790	97,101	109,188
Commercial light and small power	33,003	57,629	71,460	72,582	77,573
Industrial Power	32,406	74,306	135,789	153,892	153,206
Public Lighting	2,637	6,491	8,111	10,937	12,005
Traction .. .. .	..	0,347	0,056	0,171	0,500
Irrigation & Dewatering	5,730	4,928	7,618	5,007	6,010
Public Water Works	21,420	31,592	45,020	43,185	50,100
Total ..	119,446	227,755	342,844	382,875	408,582

TABLE XLV (18)—PROGRESS OF ELECTRICITY SUPPLY (UNION TERRITORIES EXCLUDING DELHI)

Item	1951	1956	1959-60	1960-61	1961-62
Installed capacity (in kW)					
Steam	550	6,000	6,000	6,000	6,000
Oil	725	1,258	1,653	1,963	2,564
Hydro	376	376	406	406	406
Total ..	1,651	7,634	8,059	8,370	8,970
Out-put (in million kWh)					
Steam	0.032	6.308	3.584	3.361	2.336
Oil	0.615	1.554	2.867	2.930	2.023
Hydro	0.688	0.789	0.990	1.028	0.662
Total ..	1.335	8.651	7.441	7.319	5.021
Sales (Million kWh) within the State					
Domestic light and small power	0.910	2.761	5.401	6.453	5.542
Commercial light and small power	0.372	0.553	1.219	1.601	3.139
Industrial Power	0.173	3.575	8.403	15.783	22.758
Public Lighting	0.140	0.531	1.275	1.345	1.522
Traction .. .. .	..	..	..	..	..
Irrigation & Dewatering .. .. .	..	1.734	5.255	6.606	8.813
Public Water Works	0.009	0.251	0.651	0.830	0.717
Total ..	1.604	9.045	22.204	32.618	42.491

The Index numbers for the salient features of the electricity supply industry are given in Table XLVI.

TABLE XLVI—INDEX NUMBER OF PROGRESS OF ELECTRICITY SUPPLY IN THE COUNTRY WITH 1951 AS BASE YEAR

Item	1951	1956	1959-60	1960-61	1961-62
Installed generating plant capacity					
(a) Steam plant	100	145.4	186.5	222.0	224.7
(b) Oil plant	100	140.3	182.0	184.5	194.7
(c) Hydro plant	100	184.6	266.0	320.3	388.4
Total ..	100	157.2	211.0	240.5	273.3
kWh generated					
(a) Steam plant	100	184.8	276.3	313.9	341.0
(b) Oil plant	100	106.2	148.8	167.0	172.9
(c) Hydro plant	100	150.1	245.7	271.5	343.2
Total ..	100	164.9	255.9	287.7	335.7
Coal consumption	100	161.6	232.4	270.3	292.0
Fuel oil consumption	100	102.6	136.5	153.1	161.6
Aggregate maximum demand	100	165.0	243.2	294.6	329.5
kWh sold					
Domestic light and small power	100	157.1	229.4	250.8	285.4
Commercial light and small power	100	164.6	230.1	255.7	281.7
Industrial	100	174.3	276.2	314.0	378.0
Public lighting	100	173.4	261.9	284.5	311.7
Traction	100	122.4	133.7	137.7	177.2
Irrigation & Dewatering	100	155.7	392.7	410.2	483.0
Public Water Works	100	149.9	202.2	206.2	226.7
Total ..	100	166.1	258.2	288.9	343.2

SECTION 4
POWER GENERATED AND USED IN
SELECTED INDUSTRIES

1.0. ELECTRICITY PRODUCTION AND CONSUMPTION IN SELECTED MAJOR INDUSTRIAL ESTABLISHMENTS

The data in respect of generating plant capacity, maximum demand, energy generated and purchased relating to certain selected industries during 1961-62 is given in Table XLVII.

TABLE XLVII—ELECTRICITY PRODUCTION AND CONSUMPTION IN SELECTED INDUSTRIES DURING THE YEAR 1961-62

Serial No.	Industry	Total number of factories covered	Installed generating plant capacity as on 31-3-62	Aggregate Maximum Demand (kW)		Kilowatt-hours (millions)				Annual load factor %
				Generated in own power stations	Purchased from public utility electricity undertakings	Generated in own power stations	Purchased from public utility electricity undertakings	Used in industry	Sold to outside agencies	
1	Aluminium (Primary)	4	10,734	10,612	52,380	77,792	364,453	442,197	0,048	80.1
2	Aluminium (Secondary)	9	173	60	5,797	0,210	29,773	29,989	0,014	58.4
3	Cement (Primary)	27	133,249	87,825	84,861	474,981	497,099	362,164	9,916	63.6
4	Cement (Secondary)	23	460	340	6,609	0,172	21,168	21,339	0,001	35.1
5	Chemicals ..	32	83,464	58,215	55,504	330,822	275,265	413,588	286,129	60.7
6	Collieries ..	143	60,125	32,854	98,345	168,555	277,341	442,568	3,330	38.5
7	Copper (Primary) ..	1	9,025	4,768	6,260	9,317	29,937	39,254	..	40.6
8	Copper (Secondary)	1	..	..	928	..	2,621	2,621	..	32.2
9	Cotton Textiles ..	331	133,472	83,521	387,921	330,336	1,955,298	2,271,949	13,685	55.0
10	Ferro Manganese ..	5	32	..	52,676	..	335,871	335,866	0,005	72.8
11	Fertilizers ..	6	80,560	65,870	181,381	409,748	918,249	1,294,119	33,878	59.8
12	Gold	1	6,700	100	18,840	0,113	112,174	112,287	..	67.6
13	Iron & Steel (Primary)	7	298,492	183,960	220,753	961,942	918,575	1,688,084	192,433	47.0
14	Iron & Steel (Secondary)	39	1,815	1,437	78,756	3,899	316,504	319,561	0,842	45.0
15	Jute	76	23,527	12,052	109,809	42,668	429,218	470,432	1,354	44.1
16	Oil and Petroleum	5	3,591	2,750	10,390	15,881	62,360	77,757	0,484	67.6
17	Paper	23	69,778	53,158	47,037	306,392	251,492	526,100	31,784	59.9
18	Silk	18	1,480	1,300	31,816	6,747	153,360	160,107	..	55.2
19	Soap	10	366	320	5,143	0,204	26,013	26,217	..	54.8
20	Sugar	99	90,138	61,902	14,041	142,657	17,508	158,377	1,788	23.8
21	Tanneries ..	8	737	402	4,778	0,636	18,045	18,681	..	41.2
22	Wool	10	3,874	2,061	8,878	4,235	34,260	38,455	0,040	40.1
	Total ..	878	1,011,792	663,507	1,483,703	3,287,207	7,046,584	9,852,690	561,651	53.4

Among the 878 industrial undertakings, 279 undertakings supplemented their power requirements by 3,287 million kWh from their own generating plants.

The total amount of electricity purchased by all the industrial establishments from the Electric Utilities during the year was about 7,046 million kWh. The industries consumed 9,852 million kWh of power of which 70 per cent was purchased from different electric utilities in the country. The total energy used by these industries increased by 19.3 per cent as compared with the previous year. The plant capacity owned by the industries increased during 1961-62 by 1.0 per cent.

The textile, Iron and Steel Fertilizers, and Jute industries are the largest purchasers of electricity from public electric supply undertakings. The cement (Primary), Iron (Primary), papers, and sugar industries, however, generated the major portion of their requirements in their own power stations.

The table XLVIII gives the electricity production and consumption in selected major industries during 1961-62 in various States of the Indian Union.

TABLE XLVIII—ELECTRICITY PRODUCTION AND CONSUMPTION IN SELECTED INDUSTRIES ON STATEWISE BASIS DURING THE YEAR 1961-62

Serial No.	States and Union Territories	Total No. of factories covered	Installed generating plant capacity as on 31-3-62	Aggregate Maximum Demand (kW)		Kilowatt hours (millions)			
				Generated in own power stations	Purchased from public utility electricity undertakings	Generated in own power stations	Purchased from public utility electricity undertakings	Used in industry	Sold to outside agencies
1	Andhra Pradesh ..	22	44,285	26,456	46,895	149·776	278·726	395·799	32·70
2	Assam	2	3,516	2,750	..	15·881	..	15·397	0·48
3	Bihar	100	283,684	189,672	200,023	1,048·109	808·990	1,638·548	218·55
4	Gujarat	107	40,692	33,477	123,431	169·561	612·491	778·363	3·68
5	Jammu & Kashmir ..	1	..	..	25	..	0·300	0·300	..
6	Kerala	14	1,478	555	52,463	0·560	336·898	337·458	..
7	Madhya Pradesh ..	45	72,482	53,538	71,741	262·052	341·238	593·071	10·21
8	Madras	79	21,163	12,853	88,821	31·642	400·930	432·572	..
9	Maharashtra ..	132	66,077	32,360	222,926	118·722	1,144·429	1,261·349	1·80
10	Mysore	30	27,875	22,479	111,938	105·384	559·336	663·764	0·95
11	Orissa	10	93,368	69,710	85,237	320·315	492·061	806·832	5·54
12	Punjab	16	26,548	22,353	164,557	71·751	98·445	170·196	..
13	Rajasthan	18	41,256	29,054	1,957	146·734	753·725	899·021	1·43
14	Uttar Pradesh ..	80	66,297	40,889	43,620	135·158	189·008	324·030	0·13
15	West Bengal ..	214	193,047	110,468	264,287	608·557	1,009·301	1,412·279	286·12
16	Union Territories—								
	(a) Delhi ..	7	29,459	16,463	4,007	102·767	10·457	113·224	..
	(b) The Rest ..	1	565	430	1,775	0·238	10·249	10·487	..
	Total ..	878	1,011,792	663,507	1,483,703	3,287·207	7,046·584	9,852·690	561·65

2.0. ANALYSIS OF GENERATING PLANT CAPACITY OF INDUSTRIAL ESTABLISHMENT

The Table XLIX gives the distribution of Plant capacity in the various industrial power stations.

TABLE XLIX—ANALYSIS OF GENERATING PLANT CAPACITY OF INDUSTRIAL ESTABLISHMENTS FOR THE YEAR 1961-62

Installed generating plant capacity kW	Number of industrial establishments	Aggregate installed capacity kW	Percentage of total capacity %	kWh generated (Millions)	Percentage of total kWh %
Under 1,000 ..	184	73,126	7.2	360.501	11.9
1,001—5,000 ..	81	185,475	18.3	376.919	11.5
5,001—10,000 ..	19	146,464	14.5	529.835	16.1
10,001—25,000 ..	14	207,859	20.5	770.645	23.4
Over 25,000 ..	5	398,868	39.5	1,249.307	38.0
Total ..	303	1,001,792	100.0	3,287.207	100.0

The table L gives further break-up of the installed capacity of generating plant industrial establishments.

TABLE L—INSTALLED GENERATING PLANT CAPACITY OF SELECTED MAJOR,

Serial No.	Name of State or Union Territory	Aluminium Primary	Aluminium Secondary	Cement Primary	Cement Secondary	Chemicals	Collieries	Copper Primary	Copper Secondary	Cotton Textiles
1	2	3	4	5	6	7	8	9	10	11
1	Andhra Pradesh .. ..	..	..	..	310	..	17,700	..	..	2,950
2	Assam .. ..	..	..	..	..	..	..	..	..	..
3	Bihar	2,634	173	37,300	..	..	22,875	9,025	..	..
4	Gujarat .. ..	..	..	17,874	..	2,100	..	..	..	20,718
5	Jammu & Kashmir .. ..	..	..	..	..	..	..	..	..	..
6	Kerala .. ..	..	..	..	..	..	..	..	..	998
7	Madhya Pradesh .. ..	..	..	17,760	..	..	14,250	..	..	14,663
8	Madras .. ..	..	..	2,095	..	..	..	..	..	14,816
9	Maharashtra .. ..	..	..	380	150	14,711	..	..	..	24,630
10	Mysore .. ..	..	..	10,000	..	..	..	..	..	7,943
11	Orissa .. ..	..	..	50	..	..	3,000	..	..	1,600
12	Punjab .. ..	..	..	9,300	..	..	..	..	..	2,315
13	Rajasthan .. ..	..	..	31,290	..	..	..	..	..	8,142
14	Uttar Pradesh .. ..	..	..	7,200	..	6,593	..	..	..	4,518
15	West Bengal	8,100	..	..	..	60,000	2,500	..	..	215
16	Union Territories—									
	(a) Delhi .. ..	..	..	..	..	60	..	..	..	29,399
	(b) The Rest .. ..	..	..	..	..	..	..	..	..	565
	Grand Total	10,734	173	133,249	460	83,464	60,125	9,025	..	133,472

State and Industrywise.

INDUSTRIES STATE AND INDUSTRY WISE AS ON 31-3-1962.

(Kilowatt)

Serial No.	Fertili- zer	Gold	Iron and Steel Primary	Iron and Steel Secon- dary	Jute	Paper	Silk	Soap	Sugar	Tan- neries	Wool	Oil	Ferro- Man- ganese	Total
	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1	..	..	..	..	..	18,430	..	..	4,820	..	..	75	..	44,285
2	..	..	..	..	..	..	..	..	..	..	..	3,516	..	3,516
3	80,400	..	120,500	..	3,187	..	..	..	7,790	..	..	..	..	283,684
4	..	..	..	..	..	..	..	..	..	..	..	..	..	40,692
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	..	..	..	280	..	200	..	..	..	..	..	1,478
7	..	..	23,994	..	..	580	..	..	1,235	..	..	..	..	72,482
8	..	..	..	..	..	..	..	..	3,985	287	..	..	..	21,163
9	..	..	..	1,320	..	..	1,480	166	23,016	..	224	..	..	66,077
10	..	6,700	..	80	..	..	..	..	3,120	..	..	..	32	27,875
11	..	..	77,968	..	..	10,750	..	..	..	..	..	..	..	93,368
12	..	..	..	..	..	9,500	..	..	4,233	..	1,200	..	..	26,548
13	160	..	780	..	..	..	..	..	884	..	..	..	..	41,256
14	..	..	..	415	780	3,338	..	..	40,553	450	2,450	..	..	66,297
15	..	..	75,250	..	19,560	26,900	..	..	522	..	..	..	..	193,047
16														
(a)	..	..	..	..	..	..	..	..	..	..	..	..	..	29,459
(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	565
Total	80,560	6,700	298,492	1,815	23,527	69,778	1,480	366	90,138	737	3,874	3,591	32	1,011,792

The Table LI shows the consumption of energy in selected major Industries in several states during
TABLE LI—ENERGY CONSUMED IN SELECTED MAJOR INDUSTRIES AND

Sl. No.	Name of State or Union Territory	Aluminium (Primary)	Aluminium (Secondary)	Cement (Primary)	Cement (Secondary)	Chemicals	Collieries	Copper (Primary)	Copper (Secondary)	Cotton Textiles	Ferromanganese	Fertilizers
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Andhra Pradesh	..	..	46·891	..	..	59·563	..	..	16·356	119·914	..
2	Assam ..	..	..	..	..	..	..	..	..	..	..	..
3	Bihar ..	9·564	0·215	255·879	1·387	9·005	188·031	39·254	..	1·310	..	375·942
4	Gujarat ..	..	..	99·498	0·398	74·782	..	..	..	592·375	..	..
5	Jammu & Kashmir ..	..	..	..	..	..	..	..	..	..	..	..
6	Kerala ..	121·558	2·880	7·718	..	44·925	..	..	..	7·809	..	143·963
7	Madhya Pradesh	..	..	69·857	5·282	..	43·929	..	..	104·754	..	..
8	Madras ..	..	0·049	129·063	..	35·822	..	..	..	252·899	..	..
9	Maharashtra ..	..	0·978	1·094	4·871	41·925	2·152	..	2·621	865·637	42·584	..
10	Mysore ..	..	..	65·899	0·023	0·655	..	..	..	54·073	31·968	26·903
11	Oriasa ..	242·895	3·833	39·493	..	..	9·099	..	..	10·865	141·400	..
12	Punjab ..	..	..	78·736	..	..	..	..	..	30·537	..	747·139
13	Rajasthan ..	..	..	134·862	0·325	..	..	..	..	15·344	..	0·712
14	Uttar Pradesh	..	..	33·084	..	32·078	..	..	..	147·530	..	..
15	West Bengal ..	68·180	22·014	..	8·933	122·880	139·792	..	..	100·395	..	..
16	Union Territories—											
	(a) Delhi ..	..	..	..	0·120	51·526	..	..	..	61·578	..	..
	(b) The Rest	..	..	..	..	..	..	..	..	10·487	..	..
	Grand Total	442·197	29·969	962·164	21·339	413·588	442·566	39·254	2·621	2,271·949	335·866	1,294·119

the period 1-4-1961 to 31-3-1962

INDUSTRY-WISE DURING 1961-62 (ENERGY CONSUMPTION IN MILLION kWh)

(Million kWh)

Sl. No.	Gold	Iron & Steel (Primary)	Iron & Steel (Secondary)	Jute	Oil and Petroleum	Paper	Silk	Soap	Sugar	Tanneries	Wool	Total
1	14	15	16	17	18	19	20	21	22	23	24	25
1	2-350	13-284	18-490	73-508	30-903	..	14-531	..	..	395-799
2	15-397	..	..	..	..	..	..	15-397
3	..	595-717	133-795	9-844	..	..	..	..	18-605	..	..	1,638-548
4	5-232	3-523	..	..	..	2-555	778-963
5	0-300	..	..	..	..	0-300
6	8-605	..	..	..	..	..	337-458
7	..	312-929	..	..	..	54-480	..	..	1-860	..	..	593-071
8	3-804	..	..	..	..	..	10-257	0-678	..	432-572
9	49-384	..	42-763	22-591	121-003	22-337	36-664	..	4-695	1,261-349
10	112-287	267-332	27-610	..	..	53-524	0-680	0-130	7-645	0-111	19-924	663-764
11	..	252-240	..	..	..	107-007	..	..	..	..	..	806-832
12	0-936	..	..	47-678	1-983	..	3-964	..	5-972	899-021
13	0-178	..	..	..	..	..	1-001	..	..	170-196
14	13-163	10-969	..	17-783	..	..	62-005	2-801	4-617	324-030
15	..	264-866	88-341	436-335	1-098	135-412	1-715	3-700	1-845	15-091	0-632	1,412-279
16
(a)	113-224
(b)	10-487
Total	112-287	1,688-094	319-561	470-432	77-757	526-100	160-107	26-217	158-377	18-681	38-455	9,852-690

SECTION 5
ELECTRICAL ACCIDENTS

ELECTRICAL ACCIDENTS IN THE ELECTRICITY SUPPLY AND INDUSTRIAL UNDERTAKINGS

Table LII gives the fatal and non-fatal electrical accidents Statewise in electricity supply and industrial undertakings.

TABLE LII—STATEMENT SHOWING THE NUMBER OF FATAL AND NON-FATAL ELECTRICAL ACCIDENTS DURING THE YEAR 1961-62

Sl. No.	Name of State or Union Territory	Generating and sub-station				Transmission				Distribution				Total	
		Electric Supply Undertakings		Industrial Undertaking		Electric Supply Undertakings		Industrial Undertakings		Electrical Supply Undertakings		Industrial Undertakings			
		Fatal	Non-Fatal	Fatal	Non-Fatal	Fatal	Non-Fatal	Fatal	Non-Fatal	Fatal	Non-Fatal	Fatal	Non-Fatal	Fatal	Non-Fatal
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Andhra Pradesh	Not received													
2	Assam ..	2	..	..	..	..	..	..	..	..	1	..	..	2	1
3	Bihar ..	..	1	..	..	3	3	..	..	8	16	..	..	11	20
4	Gujarat ..	..	2	1	8	..	2	..	..	8	6	1	..	10	18
5	Jammu & Kashmir	Not received													
6	Kerala ..	2	5	..	..	..	..	..	..	5	9	44	33	51	47
7	Madhya Pradesh	15	5	2	2	1	..	..	10	28	3	..	45	46	65
8	Madras ..	3	10	..	..	40	41	..	..	35	67	..	..	78	118
9	Maharashtra ..	3	18	..	1	1	7	..	..	23	28	..	..	27	54
10	Mysore ..	..	..	..	..	20	34	..	..	3	..	29	15	52	49
11	Orissa ..	..	..	..	..	..	..	..	..	..	4	..	2	..	6
12	Punjab ..	15	26	..	..	26	..	..	..	2	20	33	11	76	57
13	Rajasthan ..	..	..	..	..	9	1	..	..	14	19	..	..	23	20
14	Uttar Pradesh	7	5	19	..	37	26	..	..	24	24	..	8	87	63
15	West Bengal ..	1	2	8	..	3	4	..	..	12	23	7	6	31	35
16	Union Territories	..	..	..	..	..	1	..	..	6	1	..	..	6	2
	Mines ..	6	1	..	..	2	2	..	..	4	1	..	..	12	4
	Railways ..	3	4	..	..	2	4	..	..	10	20	..	..	15	28
	Grand Total ..	57	79	30	11	144	125	..	10	182	242	114	120	527	587

SECTION 6
FINANCIAL DATA OF PUBLIC ELECTRICITY
SUPPLY UNDERTAKINGS

STATEMENT OF CAPITAL OUTLAY (i.e.) ORIGINAL COST OF PLANT, EQUIPMENT ETC., ON ELECTRICITY SUPPLY SYSTEMS AND UNDERTAKINGS OWNED AND OPERATED BY STATE GOVERNMENT DEPARTMENTS, STATE ELECTRICITY BOARDS, POWER CORPORATION AND LOCAL AUTHORITIES IN THE PUBLIC SECTOR AND COMPANIES, PARTNERSHIPS ETC., IN THE PRIVATE SECTOR AS ON THE 31ST MARCH, 1961 —(GROUPED STATE-WISE)

TABLE LIII—CAPITAL EXPENDITURE

(Figure represent Rs. in Lakhs)

Sl. No.	States and Union Territories	State owned				Private		Total	
		Government and Boards		Municipalities		Companies		1959-60	1960-61
		1959-60	1960-61	1959-60	1960-61	1959-60	1960-61		
1	2	3	4	5	6	7	8	9	10
1	Andhra Pradesh	6,864	3,606	13	13	24	12	6,901	3,631
2	Assam	368	450	..	..	70	84	438	534
3	Bihar	2,265	2,854	..	..	414	434	2,679	3,288
4	Gujarat	2,068	2,709	85	97	2,073	2,199	4,226	5,005
5	Jammu & Kashmir	573	..	..	..	..	..	573	..
6	Kerala	3,127	3,531	20	20	84	88	3,231	3,639
7	Madhya Pradesh	2,318	2,670	..	..	213	219	2,531	2,889
8	Madras	9,281	10,206	103	111	459	504	9,843	10,821
9	Maharashtra	1,588	2,686	2,470	2,624	4,582	5,349	8,640	10,659
10	Mysore	3,722	3,811	..	..	96	102	3,818	3,913
11	Orissa	1,109	1,190	..	..	70	70	1,179	1,260
12	Punjab	5,763	7,255	92	91	134	140	5,989	7,485
13	Rajasthan	310	408	..	..	140	135	450	543
14	Uttar Pradesh	7,008	7,317	182	189	1,151	1,272	8,341	8,778
15	West Bengal	740	896	19	19	5,173	5,384	5,932	6,299
16	Damodar Valley Corpn. ..	5,097	5,358	..	..	..	..	5,097	5,358
17	Union Territories—								
	(a) Delhi .. ..	..	..	1,312	1,446	11	12	1,323	1,458
	(b) Rest	129	308	..	..	3	4	132	312
	Total	52,330	55,265	4,296	4,610	14,697	16,008	71,323	75,833

TABLE LIV

- (a) Consolidated Capital Account, 1960-61
- (b) Consolidated Revenue Account, 1960-61
- (c) Consolidated Net Revenue and Appropriation Account, 1960-61
- (d) Consolidated Balance Sheet, 1960-61

PUBLIC ELECTRICITY SUPPLY INDUSTRY—CONSOLIDATED
TABLE LIV (v)—

1959-60			Government and Boards	Municipali- ties	Companies	Total
1	2	3	4	5	6	
	1. TO GENERATION ASSETS—					
	(a) Steam Power Stations—					
G	(i) Land	330	5	89	424	
M	(ii) Buildings	835	7	768	1,610	
C	(iii) Boilers, Turbines etc.	8,735	367	4,134	13,236	
	(iv) Other equipments	12	..	91	103	
	Group Total	9,912	379	5,082	15,373	
	(b) Oil Power Stations					
G	(i) Land	22	1	6	29	
M	(ii) Buildings	179	8	61	248	
C	(iii) Engines, generators etc.	1,543	164	414	2,121	
	(iv) Other equipments .. .. .	..	..	1	1
	Group Total	1,744	173	482	2,399	
	(c) Hydro Power Stations—					
G	(i) Land	374	1	72	447	
M	(ii) Buildings	485	4	90	579	
C	(iii) Hydraulic Power Plant	9,576	30	304	9,910	
	(iv) Civil Works	6,999	29	1,014	8,042	
	Group Total	17,434	64	1,480	18,978	
	Sub Total (Generation Assets)	29,090	616	7,044	36,750	
G	6,137					
M	10					
C	1,477	2 To Transmission Assets	6,481	12	1,568	8,061
	3. TO DISTRIBUTION ASSETS—					
G	(a) Cables and mains	9,780	1,092	2,877	13,749	
M	(b) Sub-Stations, Transformers	3,381	486	1,260	5,227	
C	(c) Service lines	1,435	379	1,297	3,211	
	(d) Public lighting	587	47	205	839	
	(e) Meters, testing instruments etc.	1,661	383	874	2,918	
	Group Total	16,844	2,387	6,713	25,944	
G	1,999	4. TO GENERAL ASSETS—				
M	251	(a) Special structures tool etc.	1,172	194	276	1,642
C	524	(b) Office equipment, furniture etc.	631	58	175	804
		(c) Motor cars, vans, cycles etc.	308	17	92	417
	Group Total	2,111	269	543	2,923	
	5. TO INTANGIBLE ASSETS—					
G	(a) Good will .. .. .	..	..	10	10
M	(b) Preliminary expenses	239	1	31	271	
C	(c) Expenses capitalised	500	..	99	599	
	Group Total	739	1	140	880	
M	1,286	6. TO SPECIAL ITEMS—				
		(Tramways in the case of Bombay)	1,325	..	1,325
	Group Total .. .. .	..	1,325	..	1,325
G	52,330	Total carried to General Balance Sheet	55,265	4,610	16,008	75,883
M	4,296					
C	14,697					

G—Government

M—Municipalities

C—Companies

TABLE LIV (b)--

1969-60			Government and Boards	Municipali- ties	Companies	Total	
1		2	3	4	5	6	
		TO OPERATING EXPENSES—					
		1. Generation—					
G	1,084						
M	87						
C	1,016	2,187	(a) (i) Coal	1,291	120	1,260	2,671
G	124						
M	18						
C	154	296	(ii) Oil	148	48	155	351
G	58						
M	4						
C	26	88	(iii) Consumable stores	69	8	31	108
G	346						
M	16						
C	137	499	(b) Salaries and wages	412	15	143	570
G	357						
M	3						
C	147	510	(c) Repairs and Maintenance	425	8	174	607
			(d) Purchase of Energy—				
G	267						
M	431						
C	774	1,472	(i) From other utilities	318	493	911	1,722
G	1						
C	4	25	(ii) From non-utilities	25	..	5	30
			2. TRANSMISSION				
G	49						
M	2						
C	20	71	(a) Salaries and Wages	59	2	22	83
G	28						
M	1						
C	12	41	(b) Repairs and Maintenance	33	..	11	44
			3. DISTRIBUTION—				
G	327						
M	55						
C	187	569	(a) Salaries and Wages	390	54	162	636
G	256						
M	29						
C	112	397	(b) Repairs and Maintenance	305	35	114	454
G	41						
M	10						
C	31	82	(c) Public Lighting (attendance, repairs and renewals)	49	13	35	97
			4. CONSUMERS SERVICING				
G	205						
M	36						
C	143	384	(a) Salaries and Wages	244	29	155	428
G	43						
M	27						
C	79	149	(b) Other Expenses	51	24	71	146
G	352						
M	111						
C	348	811	5. Management Expenses	419	133	355	907
G	1,133						
M	74						
C	405	1,612	6. Depreciation	1,191	81	424	1,696
G	4,691						
M	907						
C	3,595	9,193	Total operating expenses	5,429	1,063	4,058	10,550
G	1,876						
M	284						
C	973	3,135	To balance carried over	2,603	272	1,005	3,880
G	6,587						
M	1,193						
C	4,588	12,328	Total	8,032	1,335	5,063	14,430

REVENUE ACCOUNT—1960-61

(Figures represent Rs. in Lakhs)

1959-60		8	Government and Boards	Municipali- ties	Companies	Total
7							9	10	11	12
BY OPERATING REVENUES—						
1. Sale of Electricity—						
G	1,952	(i) Domestic and Commercial ..	2,387	668	1,470	4,525
M	609					
C	1,355						3,916
G	2,567	(ii) Industrial	3,140	465	2,751	6,356
M	383					
C	2,454						5,404
G	395	(iii) Irrigation	483	7	31	521
M	7					
C	32						434
G	230	(iv) Public lighting	281	31	113	425
M	25					
C	93						348
G	982	(v) Distributing Licenses	1,201	93	540	1,834
M	94					
C	471						1,547
G	85	2. Meter and other rentals	104	39	68	211
M	32					
C	58						175
G	4	3. Income from public lighting maintenance	5	..	16	21
M	1					
C	15						20
G	352	4. Miscellaneous receipts	431	32	74	537
M	42					
C	90						484
G	6,567		8,032	1,355	5,063	14,430
M	1,193					
C	4,568	12,328				

TABLE LIV (c)—NET REVENUE

1959-60			Government and Boards	Municipali- ties	Companies	Total	
		To appropriation (Applicable to local authority licensee only)—					
	75	(a) Interest on loan capital .. ..	..	78	..	78	
	35	(b) Instalment of redemption of loan capital	..	12	..	12	
	11	(c) General Rates .. .. .	..	53	..	53	
G M C	9 4 194	207	To Taxes on Income and Profits	11	4	235	250
M C	4 8	12	To instalment of write down in respect of Intangible Assets.	..	..	9	9
M C	4 41	45	To contribution towards Contingencies Reserve.	..	4	53	57
M C	29 53	82	To Development Reserve .. ..	..	15	74	89
C	6	6	To appropriation to Tariffs and Dividends Control Reserve.	..	..	18	18
M C	5 58	63	To appropriation to Consumers Rebate Reserve	..	5	12	17
G M C	309 74 193	576	To other appropriations	368	51	179	598
		To appropriations towards interest paid and accrued and dividends paid and payable—					
G C	2,228 124	2,352	(a) Interest on debentures and other secured loans.	2,228	..	131	2,359
M C	1 13	14	(b) Interest on consumers security deposits	..	1	14	15
C	25	25	(c) Interest on unsecured loans, advances, deposits, bank over-drafts etc.	..	..	33	33
C	37	37	(d) Dividends on preference share capital	..	..	38	38
C	295	295	(e) Dividends on ordinary share capital ..	..	..	296	296
G M C	1,079 74 22	1,079 96	To balance of loss brought forward from previous year.	1,572	..	..	1,572
		To balance carried over to General Balance Sheet.	..	102	26	128	
G M C	3,625 316 1,069	5,010		4,179	325	1,118	5,622

AND APPROPRIATION ACCOUNT—1960-61.

(Figures represent Rs. in Lakhs)

1959-60			Government and Boards	Municipali- ties	Companies	Total
G	1,876					
M	286					
C	973	3,135	2,603	272	1,005	3,880
			By balance brought forward from Revenue Account.			
G	49					
M	9					
C	19	77	60	12	35	107
			By interest on securities and investment ..			
G	128					
M	2					
C	63	193	156	2	73	231
			By other receipts (non-operating), e.g., rents less out-goings not otherwise provided for transfer fee etc.			
M(-)	46	(-) 46	..	(-) 34	..	(-) 34
			By deficit on incidental business (tramways and omnibuses of Bombay Municipality).			
M	65					
C	14	79	..	73	5	78
			By balance of profit brought forward from previous year.			
G	1,572	1,572	1,360	..	..	1,360
			By balance carried over to General Balance Sheet.			
G	3,625					
M	316					
C	1,069	5,010	4,179	325	1,118	5,622

TABLE LIV (d)—GENERAL BALANCE

1959-60		Government and Boards	Municipali- ties	Companies	Total
66,538	Fixed capital raised and appropriated as per the capital account.	58,820	2,727	8,551	70,098
1,128	Capital Redemption Reserve .. ..	..	1,141	233	1,374
	RESERVE AND SURPLUS—				
5,767	Non-statutory Reserve	3,727	668	1,865	6,260
324	Contingencies Reserve Fund .. ..	..	31	313	344
86	Tariffs and Dividends Control Reserve .. ..	..	..	86	86
127	Consumer's Rebate Reserve .. ..	..	..	138	138
310	Development Reserve .. ..	..	147	289	436
96	Balance of net revenue and appropriation account.	..	102	26	128
	CURRENT LIABILITIES AND PROVISIONS				
8,511	Creditors on open accounts	8,232	230	576	9,038
4,123	Consumer's Security Deposits	3,674	173	580	4,427
1,420	Accounts payable .. ..	..	286	1,055	1,341
2,288	Temporary accommodations, Bank over-drafts and other finances.	1,928	30	507	2,465
90,718		76,381	5,535	14,199	96,115

SHEET AS AT 31ST MARCH, 1961.

(Figures represent Rs. in Lakhs)

1959-60		Government and Boards	Municipali- ties	Companies	Total
71,323	Capital expenditure on works as per the capital accounts.	55,265	4,610	16,008	75,883
	<i>Less—</i>				
10,731	Accumulated provisions for depreciation ..	5,913	1,103	5,008	12,024
60,592	NET BLOCK	49,352	3,507	11,000	63,859
	CURRENT ASSETS—				
9,046	Capital works in progress	9,412	117	361	9,890
	Stores and Materials in hand—				
710	(a) Fuel coal and or oil at cost	676	10	84	770
6,490	(b) General Stores at or below cost ..	5,792	418	743	6,953
1,849	Sundry debtors for electricity supplied ..	1,153	245	665	2,063
1,230	Other debtors	1,002	81	193	1,276
1,857	Accounts receivable	1,788	129	73	1,990
	Investment in statutory securities at cost—				
287	(a) Contingencies Reserve Fund investment (market value on closing date).	..	5	288	293
4,682	(b) Other investment (Market value on closing date).	4,207	624	264	5,095
	SPECIAL DEPOSITS—				
83	(a) In respect of taxation .. .. .	..	2	84	86
552	(b) Other	528	24	23	575
	Balance at Bank—				
415	(a) Deposit Account	209	254	74	537
1,133	(b) Current Account and at call	744	88	287	1,119
117	Cash in hand	68	3	45	143
	Debit Balances—				
103	Deferred payments	90	1	15	106
1,572	Debit balance of net revenue and appropriations accounts.	1,360	..	..	1,360
90,718		76,331	5,535	14,199	96,115

Some Important Financial features for the Years 1956-57 to 1960-61 are given in Table LV.

TABLE LV—FINANCIAL DATA OF THE PUBLIC ELECTRICITY SUPPLY INDUSTRY—1956-57 TO 1960-61

	Units	1956-57	1957-58	1958-59	1959-60	1960-61
A. Installed capacity—	kW.	2,886,141	3,223,111	3,511,586	3,873,166	4,579,051
Average Capital Outlay per kW installed—						
(a) Generation	Rs.	878	764	905	892	803
(b) Transmission, Distribution etc. ..	Rs.	879	781	925	917	826
	Rs.	1,757	1,545	1,830	1,809	1,629
B. Number of consumers—	No.	2,825,802	3,207,508	3,617,849	4,029,740	4,729,163
Average Capital Outlay per consumer—						
(a) Generation	Rs.	896	768	878	857	777
(b) Transmission, Distribution etc. ..	Rs.	898	785	898	881	799
	Rs.	1,794	1,553	1,776	1,738	1,576
C. Maximum Demand—	kW.	1,989,774	2,288,212	2,542,955	2,931,360	3,545,930
Average Capital Outlay on transmission, distribution etc. per kW of Maximum Demand	Rs.	1,276	1,100	1,277	1,211	1,066
D. Total Capital Outlay—						
(a) On electrical works	Rs. (Crores)	507	498	643	700	746
(b) Non-electrical works like tramways and Omnibus.	Rs. (Crores)	10	11	12	13	13
	Rs. (Crores)	517	509	655	713	759

	1956-57		1957-58		1958-59		1959-60		1960-61	
	Out-lay	Per cent of total	Out-lay	Per cent of total	Out-lay	Per cent of total	Out-lay	Per cent of total	Out-lay	Per cent of total
SEGREGATION										
Public Sector	393.96	76	374.10	73	512.81	78	566.26	79	598.75	79
Private sector	122.93	24	135.18	27	142.05	22	146.97	21	160.08	21
	516.89	100	509.28	100	654.86	100	713.23	100	758.83	100
Additions during the year ..	190.66	..	..	..	145.58	..	58.37	..	45.60	..
SEGREGATION										
Public Sector	182.03	95	*		188.71	95	53.45	92	32.49	71
Private Sector	8.65	5			6.87	5	4.92	8	13.11	29
	190.68	100			145.58	100	58.37	100	45.60	100

*Could not be worked out due to non-receipt of data from the Andhra Pradesh and Assam State Electricity Boards and Orissa and Jammu & Kashmir Government Electricity Departments.

SECTION 7

ADDRESSES OF PUBLIC ELECTRICITY SUPPLY
UNDERTAKINGS & SYSTEM OF SUPPLY

AS AT 31-3-1962

ANDHRA PRADESH

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
1	<p>Andhra Pradesh State Electricity Board.</p> <p>(a) <i>Hydro Power Station</i></p> <p>Machkund Tungabhadra Dam Hampi Nimazsagar</p> <p>(b) <i>Thermal Power Station</i></p> <p>Visakhapatnam Vijayawada Nellore Hussainsagar Ramagundam</p> <p>(c) <i>Diesel Power Station</i></p> <p>(Andhra Region)</p> <p>Pathapatnam Arakh Badhrachalam Venkatapuram Rampachodavaram Addateegala Chintalapudi Kanigiri Atmakur Udayagiri Kalyandurg Badvel Pulivendla Markapur Giddalur Cumbam Srisailam</p> <p>(Telangana Region)</p> <p>Narsapur Ibrahimpatam Pochampalli Gajwel Kalwakurthi Wanaparthi Achampet Kolhapur Makthal Atmakur Wanaparthi Road Gadwal Ieez G.I.S. Mahboobnagar</p>	<p>BOARD</p> <p>The Chief Engineer, Electricity, Andhra Pradesh Electricity Board, opposite Bella Vista, P. O. Hyderabad-4.</p>	<p>132,000 11,000 6,600 3,300 400 230</p>	<p>3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy</p>

ANDHRA PRADESH—concl'd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
BOARD—concl'd.				
	(Telangana Region— <i>cont'd.</i> Kosgi Kodangal Husnabad Pargi Tandur Surajkhanpet Dharampuri Metpalli Chinnoor Sirpur Tandur Mulug Khammameth Ashwaraopet Burghampad Mahboobabad Sultanpur Palwancha Devarkonda Ramannapet Nizamabad C.D.S. Adilabad Utnoor Boath Ichoda Nirmal Madhole Rampur	The Chief Engineer, Electricity, Andhra Pradesh Electricity Board, opposite Bella Visita P.O. Hyderabad-4.		
COMPANIES				
2	Mahboobnagar	The Mahboobnagar Electricity Consumers' Coopera- tive Society Ltd., Mahboobnagar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
3	Wanaparthy	M/S. Power Supply Industrial Co., P.O. Wanaparthy, District Mahboobnagar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
ASSAM BOARD				
1-1	Gauhati Electrical Division Gauhati		11,000 3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-2	Jorhat Electrical Divi- sion, Dergaon Golaghat Jorhat North Lakhimpur Sibsagar Tita bar	The Commercial Officer, Assam State Electricity Board, Uzan Bazar, Gauhati.	400 230 440 220	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire

ASSAM—*concl.*

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply		
			Voltage	A.C. or D.C. Phases, frequency etc.	
BOARD—<i>concl.</i>					
1-3	Nalbari Electrical Division Abhayapuri Nalbari Mangaldai Sualkuchi Goalpara. Kokrajhar Tura	The Commercial Officer, Assam State Electricity Board, Uzan Bazar, Gauhati.	400 230	3 ph. A.C. 30 cy 1 ph. A.C. 50 cy	
1-4	Nowgong Electrical Division Aijal Diphu Hailakandi Hojai Karimganj Nowgong		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-5	Tezpur Electrical Division Charali Dhekiajuli		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-6	Umtru Electrical Division Umtru		6,600 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-7	Umain Generation Division II Barapeni Jowai Umain Project		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
COMPANIES					
2	Barpeta Mouza		The Barpeta Mouza Co-operative Electric Supply Co., P. O. Barpeta, District Kamrup.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
3	Dibrugarh	The Dibrugarh Electric Supply Co. Private Ltd., P.O. Rehabari, Post Box No. 9, Dibrugarh.	440 220	D.C. 3 Wire D.C. 2 Wire	
4	Dhubri	The National Power Supply Corporation Ltd., Dhubri Branch, M/A. M/S. K. K. Sen & Sons, 23-B, Allenby Road, Calcutta-20.	400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy	
5	Shillong	The Shillong Hydro Electric Ltd., M/A. Development of Industries (India) Private Ltd., 135, Prinsep Street, Calcutta-13.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
6	Silchar	The Silchar Electric Supply Ltd., M/A. M/S. Sarada Charan Barda Kanta Roy, Silchar.	440 220	D.C. 3 Wire D.C. 2 Wire	
7	Tinsukia	The Tinsukia Electric Supply Co. Ltd., P. O. Senairam Bazar, Tinsukia.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	

BIHAR—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
BOARD—concl.				
1-13	Kodarma Division	The Chief Electrical Engineer, Bihar State Electricity Board, Patna.	11,000	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-14	Monghyr Division		400	3 ph. A.C. 50 cy
	Monghyr		230	1 ph. A.C. 50 cy
	Lakhisarai		400	D.C. 3 wire
			230	D.C. 2 wire
1-15	Muzafferpore Division		3,300	3 ph. A.C. 50 cy
	Madhubani (Sakri)		400	3 ph. A.C. 50 cy
	Pusa		230	1 ph. A.C. 50 cy
	Samastipur	460	D.C. 3 wire	
	Hajipur	230	D.C. 2 wire	
		440	D.C. 3 wire	
		220	D.C. 2 wire	
1-16	Patna Division	400	3 ph. A.C. 50 cy	
		230	1 ph. A.C. 50 cy	
1-17	Paledur Division			
	Sahibgung			
1-18	Ranchi Division		400	3 ph. A.C. 50 cy
	Netarhat		230	1 ph. A.C. 50 cy
	Simdega			
	Gumla			
1-19	Singhbhum Division		400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
POWER CORPORATION				
2	Damodar Valley Corpora- tion	The Chief Electrical Engineer, Damodar Valley Corporation, Anderson House, Alipore, Calcutta 27.	33,000	3 ph. A.C. 50 cy
	Bokaro		11,000	3 ph. A.C. 50 cy
	Tilaiya		400	3 ph. A.C. 50 cy
	Panchit Hill		230	1 ph. A.C. 50 cy
COMPANIES				
3	Bhagalpur	The Bhagalpur Electric Supply Co., M/A. M/S. Octavious Steel & Co. Ltd., 14, Old Court House Street, Calcutta-1.	3,300	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
4	Chaibasa	The Chaibasa Electric Supply Co., C/O M/S. Madan Gopal, Chaibasa.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
5	Chirkunda	The Chirkunda Electric Supply Co., P. O. Barakar, District Burdwan.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
6	Darbhanga Lehrisarai	The Darbhanga Lehorisarai Electric Supply Corpora- tion Ltd., M/A. M/S. Baroliya Bros., Darbhanga.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
7	Jharia Coal Field	The Jharia Coal Field Electric Supply Co. Private Ltd., P. B. No. 16, Dhanbad.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
			440	D.C. 3 wire
			220	D.C. 2 wire
8	Jugsalai	The Jugsalai Electric Supply Co., C/O. M/S. Mangilal Rungta, Jugsalai (Tatanagar), B.N., Rly.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
9	Muzafferpore	The Muzafferpore Electric Supply Co. Ltd., M/A. M/S. Octavious Steel & Co. Ltd., 14, Old Court House Street, Calcutta-1.	3,300	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
			440	D.C. 3 wire
			220	D.C. 2 wire

BIHAR—concl'd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
COMPANIES—concl'd.				
10	Patna	The Patna Electric Supply Co. Ltd., M/A. M/S. Octavious Steel & Co. Ltd., 14, Old Court Street, House Calcutta-1.	6,000 3,300 400 230 440 220	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 wire D.C. 2 wire
11	Ranchi	The Ranchi Electric Supply Co. Ltd., M/A. M/S. Budhia Brothers Private Ltd., Main Road, Ranchi.	6,600 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
12	Sijua (Jhariah)	The Sijua (Jhariah) Electric Supply Co. Ltd., M/A. M/S. Bird & Co. Private Ltd., P. O. Bansjora (District Dhanbad).	10,000 6,300 500	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy
GUJARAT				
BOARD				
1-1	Baroda Division Chota Udepur Deogad Baria Rajpipla Santrampur Dhari	The Chief Engineer, The Gujarat Electricity Board, Race Course, Baroda-1.	3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-2	Dhoraji Division Bhanavad Dhoraji Upleta Jamjodhpur Manvadar		11,000 400 230 460 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 wire D.C. 2 wire
1-3	Jamnagar Division Dhrol-Jodiya Jamnagar Jamkhambala		11,000 400 230 460 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 wire D.C. 2 wire
1-4	Junagadh Division Amarnagar Bagasara Cherwad Junagadh Keshod Mangrol Talala Una Veraval Vadia		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-5	Kutch Division Anjar Bhuj Mandvi Mundra Nakhatrana Kothara Kandla Bhachan Rahpara		400 230 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 2 wire

GUJARAT—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
BOARD—contd.				
1-6	Nanded Division North Gujarat Grid		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-7	Palitana Division Botad Gadhada Lathi Mahuva Palitana Rajula Silhor Vallabhipur Savarkundla		400 230	1 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-8	Porbander Division Port Okha Porbander		11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-9	Rajkot Division Gondal Jasdan Kotda Sangni Morvi Rajkot Virupur		400 230 460 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 wire D.C. 2 wire
1-10	Surendranagar Division Chotila Dharangadhra Halwad Lakhtar Sayla Surendranagar	The Chief Engineer, The Gujarat Electricity Board, Race Course, Baroda-1.	400 230 460 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 wire D.C. 2 wire
1-11	Shahpur Division Shahpur		6,600	3 ph. A.C. 50 cy
1-12	Sabarmati Division Ambaji Deesa Dhandhuka Modasa Radhanpur Himatnagar Mansa Vijapur		400 230 440 220	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 wire D.C. 2 wire
1-13	Sikka Power House Division— Sikka		11,000 460 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-14	Utran Power House Division— (South Gujarat Grid) Utran Dharampur Bansda Buher		22,000 11,000 3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

GUJARAT—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
		BOARD—contd.		
1-15	Amreli Dwarka Sihore Thangadh	The Chief Engineer, The Gujarat Electricity Board, Race Course, Baroda-1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
		MUNICIPALITIES		
2	Baroda	The Electrical Engineer, Department of Electricity, Baroda Borough Municipality, Post Box No. 17, Baroda-1.	3,300 400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy 1 ph. A.C. 50 cy
3	Bhadran	The President, Bhadran Municipality, Bhadran ..	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
4	Karjan	The President, Karjan Municipality, Karjan ..	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
5	Muli	The President, Muli Municipality, Muli	230	D.C. 2 wire
6	Nar Gram Panchayat	The Electrical Engineer, Nar Gram Panchayat, Nar (via Anand).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
7	Palanpur (Iqbal)	The Electrical Engineer, The Iqbal Electric Supply Municipal Power House, Palanpur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
8	Patan	The Electrical Engineer, Patan Municipality, Patan	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
9	Petlad	The Electrical Engineer, Petlad Municipality, Petlad	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
10	Sojitra	The President, Sojitra Nagar Panchayat, Sojitra ..	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
11	Sankheda	The Sankheda Municipal Electric Power House, Sankheda.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
12	Vadnagar	The Chief Officer, Electricity Department, Vadnagar Municipality, Vadnagar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
13	Visanagar	The Chief Officer, Visnagar Municipality, Visnagar	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
14	Vanthali	The Administrator, Vanthali Nagar Panchayat, Vanthali, District Junagadh.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
		COMPANIES		
15	Ahmedabad	The Ahmedabad Electricity Co. Ltd., M/A. M/S. Killick Industries Ltd., Electricity House, Lal Darwaja Ahmedabad-1.	11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
16	Anand	The Anand Electric Supply Co. Ltd., M/S. Sonawala Co. Ltd., Sonawala Buildings, 459, Apollo Street, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
17	Bajana	Shri Babu Lal Valji, Proprietor, Bajana Power House, Via Patri.	230	D.C. 2 wire
18	Bardoli	Shree Sardar Kheti Sahayak Sahakari Vidyut Mandal Ltd., Bardoli (District Surat).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

GUJARAT—contd.

Serial No.	Area of Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
COMPANIES—contd.				
19	Bulsar	The Amalgamated Electricity Co. Ltd. (Bulsar Branch) M/A. M/S. N. C. Javeri & Co., Post Box No. 879, 17-B, Horniman Circle, Bombay-1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
20	Bilkha	M/S. Unity Power House, Bilkha	230	D.C. 2 Wire
21	Bilimora	The Bilimora Electric Power Supply Co. Ltd., Bilimora.	460 230	D.C. 3 wire D.C. 2 Wire
22	Bhavnagar	The Bhavnagar, Electricity Co. Ltd., P. O. Box No. 45, Bhavnagar.	11,500 3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
23	Broach	The Broach Electric Supply & Development Corporation Ltd., M/S. The Rajputana Textile (Agencies) Private Ltd., Esplanade Mansions, 144-146, Mahatma Gandhi Road, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
24	Cambay	The Cambay Electric Supply & Industrial Co. Ltd., M/A. M/S. A. A. Meeyajee & Co., Private Ltd., Power House, Bombay.	400 230 400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
25	Dabhoi	The Dalboi Electric Supply Co., C/O. Seth Giridhari Lal Moti Lal Contractor, Dabhoi, District Baroda.	400 220	D.C. 3 Wire D.C. 2 Wire
26	Dakor Umreth	The Dakor-Umreth Electricity Co. Ltd., Dakor ..	400 230	3 Ph. A.C. 50 cy 1 ph. A.C. 50 cy
27	Dhanera	The Dhanera Electric Supply Co., M/A. M/S. M.A. Master & Sons, Station Road, Palampur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
28	Dohad	The Amalgamated Electricity Co. Ltd., (Dohad Branch) M/A. M/S. N.C. Javeri & Co., Post Box No. 879, 17-B, Horniman Circle Bombay-1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
29	Godhra	The Godhra Electricity Co. Ltd., M/A. M/A. Udayan & Co., Power House, Godhra.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
30	Gandhidham	The Sindhu Resettlement Corporation Ltd., Power Supply Department, Adipur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
31	Jetpur	The Jetpur Electric Supply Co. Ltd., Jetpur ..	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
32	Jambusar	The Jambusar Electric Supply Co. Ltd., Sarodi Bhagal, Jambusar (District Broach).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
33	Jhalawar (Surandernagar)	The Jhalawar Electric Supply Co. Ltd., M/S. N.D. Mehra & Co., Surendranagar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
34	Kadi	The Kadi Electric Supply Co. Ltd., M/A. M/S. Parikh & Co., Kadi.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
35	Kalol	The Kalol Electric Supply and Industrial Co. Ltd., Power House, Kalol (North Gujarat)	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

GUJARAT—concl'd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. on D.C. Phases frequency etc.
COMPANIES—concl'd.				
36	Kapadwanj	The Kapadwanj Town Co-operative Electricity Association Ltd., Sardar Baug, Kapadwanj.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
37	Kholvad	The Kholvad Electric Supply, Corporation, Kholvad (District Surat).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
38	Limbdi	The Limbdi Electric Supply Co., M/A. M/S. Amulakh Amichand & Co., Limbdi.	400 330	D.C. 3 Wire D.C. 2 Wire
39	Lunawada	The Lunawada Electric Supply Co-operative Society Ltd., Lunawada.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
40	Nadiad	The Nadiad Electric Supply Co. Ltd., M/A. M/S. Sonawala Co. Ltd., Sonawala Buildings, 59, Appollo Street, Bombay-1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
41	Navasari	The Navsari Electric Supply Co. Ltd., M/A. M/S. Ardeshir Modi & Co., Navsari.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
42	Rander	The Rander Electric Supply Co. Ltd., M/A. M/S. Sunderrao Moreshwar Co., Lal Baug, Rander, District Surat.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
43	Sanad	The Sanad Electric Supply Co. Private Ltd., M/A. M/S. Ranchodlal Chandu Lal & Co., Station Road, Sanad.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
44	Sidhpur	The Sidhpur Electric Industrial Co. Ltd., Near Station, Sidhpur (District Mehsana).	440 230	D.C. 3 Wire D.C. 2 Wire
45	Surat	The Surat Electricity Co., Ltd., Central Administration Department, M/A. M/S. Killick Industries Ltd., 5 Graham Road (4th floor), Ballard Estate, (P.O. Box No. 199), Bombay-1.	3,300 400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy 1 ph. A.C. 50 cy
46	Tapi	The Tapi Electric Supply & Industries Ltd., (in liquidation), Kathor (Via Sawan).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
47	Udwada	The Udwada Vapi Electric Supply Co. Ltd., M/A. M/S. Raiyamand Engineering Co., Electric House, Ganchalla Post, Vapi, District Surat.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
48	Vapi	The Udwada Vapi Electric Supply Co. Ltd., M/A. M/S. Raiyamand Engineering Co., Electric House, Ganchalla Post, Vapi, District Surat.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
49	Vallabh-Vidayanagar	M/S. Charotar Gramodhar-Sahakari Mandal Ltd., Vallabh Vidayanagar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
50	Vasai	The Vasai Electric Supply Co. Ltd., M/A. M/S. R. Shukla & Co., Vasai-Debhla Taluka Bijapur, District Mehsana.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
51	Virangam	The Virangam Electric Supply Co. Ltd., M/A. M/S. Saifee & Co., Mandal Road, Virangam.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
52	Vyara-Kanpura	The Vyara Kanpura Electric Supply Co-operative Society Ltd., Vyara, District Surat.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
53	Wankaner	The Wankaner Electric Supply Co., M/A. M/S. Survaiya & Co., Wankaner.	460 230	D.C. 3 Wire D.C. 2 Wire

JAMMU & KASHMIR

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply		
			Voltage	A.C. or D.C. Phases frequency etc.	
1-1	Jammu Electric Division Jammu Miran Sahib	The Chief Engineer, Electrical & Mechanical Department, Kashmir State, Srinagar.	3,000	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-2	Sindh Electric Division Ganderbal			400	3 ph. A.C. 50 cy
				230	1 ph. A.C. 50 cy
1-3	Srinagar Division Bandipore Pulalgam			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy	
1-4	Mohora Division Mohora		2,300	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-5	Rannagar		400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-6	Poonch		400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
KERALA					
BOARD					
1-1	Kerala State Electricity Board Pallivasal Sengulam Poringalkuthu Noriannangam	The Chief Engineer, Kerala State Electricity Board, P.O. Box No. 65, Trivandrum.	60,000	3 ph. A.C. 50 cy	
			22,000		
			11,000		
			2,300		
			490		
			230	1 ph. A.C. 50 cy	
1-2	Port of Cochin		400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
			440	D.C. 3 Wire	
			220	D.C. 2 Wire	
MUNICIPALITY					
2	Trichur	The Commissioner, Trichur Municipality, Trichur . .	11,000	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
COMPANIES					
3	Calicut (Kozhikode)	The West Coast Electric Supply Corporation Ltd., (Calicut Branch) M.A. M.S. Chandrie & Co., P.O. No. 156, National Insurance Building, Esplanade, Madras 1.	11,000	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
4	Chinnamangalam	The Channamangalam Electrical Distribution, Cheeranamangalam.			
5	Ernakulam	The Cochin State Power & Light Corporation Ltd., M.A. M.S. Chandrie & Co. (Private) Ltd., P.O. Box No. 156, National Insurance Building, Espla- nade, Madras 1.	11,000	3 ph. A.C. 50 cy	
			6,000	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	

KERALA—concl'd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply		
			Voltage	A.C. or D.C. Phases frequency etc.	
COMPANIES—concl'd.					
6	Kottayam	The Kottayam Electric Supply Agency, C/O M/S. N. S. Moos, Kottayam.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
7	Kannan Dewan Hills	The Kannan Dewan Hills Produce Co. Ltd., Headquarters Office, Munnar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
8	Mattencherry	The Cochin Electric Co. Private Ltd., Mattencherry, Cochin-5.	3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
MADHYA PRADESH					
BOARD					
1-1	Bhilai Division Bhilai Chhuikhadam Khaingarh Rajnandgaon	The Chief Engineer, Madhya Pradesh Electricity Board, P.O. Box No. 34, Rampur, Jabalpur.	11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-2	Bhopal Division Bhopal Eareli Begunaaganj Fiparia		3,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-3	Bilaspur Division Ambikapur Baikunthpur Champa Dharamjaigarh Jashpur Fendra Road Raigarh Sakti Saragarh		400 230 440 220	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire	
1-4	Chambal Hydrel Division (Gandhi Sagar Power House)		The Superintending Engineer, (Electrical), Chambal Hydrel & Irrigation Scheme, Madhya Pradesh Electricity Board, P.O. Chambal Hydrel Works, via Jhalwar Road Rly. Station, (Western Rly.)	132,000 11,000	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy
1-5	Chhindwara Division			11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-6	Dhar Division Kharwone Sanawad Jhabua Sindhwa Barwani Dhar Maheshwar		The Chief Engineer, Madhya Pradesh Electricity Board, P. O. Box No. 34 Rampur, Jabalpur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

MADHYA PRADESH—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
BOARD—contd.				
1-7	Gwalior Division Bhind Datia Gwalior Morena Sheopur	The Chief Engineer, Madhya Pradesh Electricity Board, P.O. Box No. 34, Rampur, Jabalpur.	400 230 440 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 2 Wire D.C. 2 Wire
1-8	Guna Division Ashokagar Basoda Biaora Chanderi Guna Jhabua Kurwai Mungaoli Narsingarh Rajgarh Shivpuri Sirong Vidisha		400 230 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 2 Wire
1-9	(a) Indore Division Mhow		22,000 11,000 6,600 400	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy
	(b) Power House Division, Indore Indore Dewas (Jr)		400 230 460 230	1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
1-10	Jabalpur Division Amarkantak Kareli Mandla Shahdol Gotegaon Umoria		11,000 400 230 440 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
1-11	Korba Division Korba		11,000 3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-12	Chandni Division Chandni		11,000 6,600 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-13	Raipur Division Jagdalpur Kanker Raipur		11,000 400 230 440 220	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire

MADHYA PRADESH—contd. 5

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply		
			Voltage	A.C. or D.C. Phases frequency etc.	
BOARD—concl'd.					
1-14	Satna Division Ajaigarh Maihar Nagod Panna Rewa Sidhi Satna	The Chief Engineer, Madhya Pradesh Electricity Board, P.O. Box No. 54, Rampur Jabalpur.	400 230 440 220	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire	
1-15	Sagar Division Bina Bijapur Chattarpur Damoh Khajraho Nowgaon Tikamgarh		400 230 220	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 2 Wire	
1-16	Ujjain Division Jaora Mehidpur Shujalpur Ujjain		11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-17	Itarsi Division Itarsi Burhanpur Pachmarhi Harsud		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-18	Sitamau Shajapur Neemach Barnagar		400 230	D.C. 3 Wire D.C. 2 Wire	
COMPANIES					
2	Alirajpur		The Aliraj Electric Supply Co., Alirajpur ..	400 230	D.C. 3 Wire D.C. 2 Wire
3	Bilaspur		The Central India Electric Supply Co. Ltd., P. B. No. 9, Bilaspur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
4	Bhikangaon		The Proprietor, Mohan Talkies, Bhikangaon ..	230	D.C. 2 Wire
5	Chhindwara		The Chhindwara Electric Supply Co., Narsinghpur Road, Chhindwara.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
6	Dewas (Senior)		The Dewas (Senior) Electric Supply Co. Private Ltd., Dewas Senior.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
7	Harda		The Harda Electric Supply Co. Private Ltd., M.A. M.S. Bomanjee Eduljee Cassinath, 17-19, Baston Road, Fort, Bombay.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
8	Jubbulpore		The Jubbulpore Electric Supply Co., Ltd., M.A. M.S. Martia Bura Co. Ltd., Calcutta-1.	3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

MADHYA PRADESH—*concl'd.*

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
COMPANIES—<i>concl'd.</i>				
9	Katni	The Central India Electric Supply Co. Ltd., P. O. Box No. 100, Katni.	6,600 3,300 400 230	2 ph. A.C. 50 cy 2 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
10	Khilchipur	The Khilchipur Power House, Khilchipur ..	230	DC. 2 Wire
11	Mandsaur	The Mandsaur Electric Supply Co., Mandsaur ..	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
12	Ratlam	The Ratlam Electric Supply & Weaving Mills Co., Ltd., Ratlam.	400 230	D.C. 3 Wire D.C. 2 Wire
13	Sailana	The Sailana Electric Power House, Sailana ...	230	D.C. 2 Wire
14	Saugor	The Saugor Electric Supply Co. Ltd., M/A. M/S. Martin Burn Ltd., 12, Mission Row, Calcutta 1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
15	Seoni	The Seoni Electric Supply Co., C/O M.S. Byramji D. Doongaji & Sons, Seoni.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
16	Sehore	The Sehore Electric Supply Co. Privat Ltd., Sehore Cantt.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
MADRAS				
BOARD:				
1-1	Madras Electricity System	The Chief Engineer, Electricity, Madras State Electricity Board, 157, Mount Road, Madras.	11,000 6,000 400 230 450 250	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
1-2	Mettur Electricity System		22,000 11,000 6,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-3	Madurai Electricity System		11,000 400 240	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-4	Pykara Electricity System		11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-5	Petiyar Hydro Electric System		11,000	3 ph. A.C. 50 cy
1-6	Tirunelveli Electricity System		11,000	3 ph. A.C. 50 cy

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply		
			Voltage	A.C. or D.C. Phases frequency etc.	
BOARD—concl'd.					
1-7	Tiruchirappally Electricity System	The Chief Engineer, Electricity, Madras State Electricity Board, 157, Mount Road, Madras.	110,000	3 ph. A.C. 50 cy	
			66,000	3 ph. A.C. 50 cy	
			22,000	3 ph. A.C. 50 cy	
			11,000	3 ph. A.C. 50 cy	
			6,600	3 ph. A.C. 50 cy	
			3,300	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-8	Vellore Electricity System			33,000	3 ph. A.C. 50 cy
				22,000	3 ph. A.C. 50 cy
				11,000	3 ph. A.C. 50 cy
				400	3 ph. A.C. 50 cy
				230	1 ph. A.C. 50 cy
1-9	Kundah		400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
MUNICIPALITIES					
2	Coimbatore	The Commissioner, Coimbatore Municipality, Coimbatore.	11,000	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
3	Karur	The Municipal Electrical Engineer, Karur Municipality, Karur, District Tiruchirappalli.	400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
4	Mathurai	The Commissioner, Mathurai Municipality, Mathurai	3,300	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
5	Pollachi	The Commissioner, Pollachi Municipality, Pollachi	400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
6	Tanjore	The Municipal Electrical Engineer, Tanjore Municipality, Tanjore.	400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
COMPANIES					
7	Kumbakonam	The Kumbakonam Electric Supply Corporation Ltd., M.A. The India Co. Private Ltd., Oriental Buildings, Armenian Street, Madras I.	400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
8	Mayawaram	The South Madras Electric Supply Corporation Ltd., Post Box No. 67, Tiruchirappalli.	11,000	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
9	Negapatam	The Negapatam Electric Supply Co. Ltd., M.A. The India Co. (Private) Ltd., Oriental Buildings, Armenian Street, Madras I.	11,000	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
10	Salem Erode	The Salem Erode Electricity Distribution Co. Ltd., M.A. M.S. Octavious Steel & Co. Ltd., 14, Old Court House Street, Calcutta.	22,000	3 ph. A.C. 50 cy	
			800	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
11	Shencottah	The Shencottah Electric Supply Agencies, Shencottah	11,000	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
12	Tirunelveli Tuticorin	The Tirunelveli Tuticorin Electric Supply Co., Ltd., M.A. M.S. Octavious Steel & Co. Ltd., 14, Old Court House Street, Calcutta I.	22,000	3 ph. A.C. 50 cy	
			11,000	3 ph. A.C. 50 cy	
			3,300	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	

MADRAS—concl'd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply		
			Voltage	A.C. or D.C. Phases frequency etc.	
COMPANIES—cont'd.					
13	Tiruchirapalli	The South Madras Electric Supply Corporation, Post Box No. 67, Tiruchirapalli.	22,000 11,000 3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
14	Vellore	The Vellore Electric Supply Corporation Ltd., M/A. M/S. Chandrie & Co. (Private) Ltd., National Insurance Buildings, Esplanade, Madras 1.	11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
MAHARASHTRA					
BOARD					
1-1	Akola Division Buldana Deolgaon Raja Digras Malkapur Mehkar Umerkhed	The Chief Engineer, Maharashtra State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	400 230 440 220	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 wire D.C. 2 wire	
1-2	Amravati Division Amravati Karanja		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-3	Ballarshah Power House Division		66,000 11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-4	Chola		95,000	3 ph. A.C. 50 cy	
1-5	Kolhapur Division Chiplun Islampur Kolhapur E.I. Radhanagiri Malvan Ratnagiri Vengurla Gadhingraj		11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-6	Khaperkheda Power House Division		66,000 11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-7	Kalyan Division Janjira Jawhar Vasind		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-8	Koyna Power Project		The Chief Engineer, Koyna Project (Electrical), Maharashtra State Electricity Board, Mercantile Bank Building, Mahatma Gandhi Road, Bombay 1.	220,000 11,000 2,200	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy

MAHARASHTRA—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply		
			Voltage	A.C. or D.C. Phases frequency etc.	
BOARDS—concl'd.					
1-9	Marathwada Division Aurangabad Ashti Aurangabad Bhir Chopda Dharangaon Manmad Bhokardhan Manjalegaon Vijapur Paithon	The Chief Engineer, Maharashtra State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	6,600	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-10	Nanded Division Hingoli Latur Osmanabad Parbhani Parli Vajjnath Nanded Udgir Kinwat Degloor Murun Bhoom Patur Jintur			400	3 ph. A.C. 50 cy
				230	1 ph. A.C. 50 cy
1-11	Nagpur North Division			11,000	3 ph. A.C. 50 cy
				400	3 ph. A.C. 50 cy
				230	1 ph. A.C. 50 cy
1-12	Nagpur South Division Hinganghat			11,000	3 ph. A.C. 50 cy
				400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy	
1-13	Paras	The Power Station Superintendent, Maharashtra Electricity Board, Power House Construction Division, Paras.			
1-14	Pachora	The Executive Engineer, (Construction) Divisional Office, Maharashtra State Electricity Board, Vaishampayan Bungalow, Trimbak Road, Nasik.			
1-15	Poona Division Akiluj Bhatgar Phaltan Wai	The Chief Engineer, Maharashtra State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	2,000	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
			230	D.C. 2 wire	
1-16	Sholapur		400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-17	Sangli Division Vishrambag Sangli	The Executive Engineer (O. & M.) Division, Maharashtra State Electricity Board, Sangli.	400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-18	Ambarnath Khamgaon Kolhapur Savda Faizpur	The Chief Engineer, Maharashtra Electricity Board, Mercantile Bank Building, Fort, Bombay.	400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	

MAHARASHTRA—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
MUNICIPALITIES				
2	B.E.S.T. (Bombay City)	The Bombay Electric Supply and Transport Undertaking (Municipal Corporation), B.E.S.T. House, P.B. No. 192, Bombay 1.	6,600 5,500 400 230 600 460 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire D.C. 3 Wire D.C. 2 Wire
3	Chandor	The Engineer-in-Charge, The Chandor Grampanchayat, Electric Supply Department, Chandor, District Nasik.		
4	Dondaicha	The Chairman, Dondaicha Municipality Cooperative Electric Supply Society Ltd., Dondaicha (West Khandesh).		
5	Karjat	Karjat Bhisgaon Panchayat, Karjat, District Kolaba.		
6	Khandbara	The Secretary, Navapur Taluka Vidhayak Samiti, Khandbara Distt. Dhulia (West Khandesh).		
7	Nandgaon	The Engineer-in-Charge, The Municipal Power House, Nandgaon Municipality, Nandgaon District, Nasik.		
8	Raver	The Electrical Engineer, Raver Municipal Power House, Raver.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
9	Sangli	The Jubilee Electric Works (Sangli Nagarpalika Trust Property), Electric Power House, Sangli.		
10	Savantwadi	The Electrical Engineer, Savantwadi Municipality, Savantwadi.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
11	Yeola	The Electrical Engineer, Yeola Municipal Power House, Yeola.	460 230	D.C. 3 Wire D.C. 2 Wire
COMPANIES				
12	Ahmednagar	The Ahmednagar Electric Supply Co. Private Ltd., M/A. M/S. Nariman Sons Private Ltd., Power House, Station Road, Ahmednagar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
13	Arvi	The Electrical Undertakings Ltd. (Arvi Branch), M/S. The Indian Engineering Syndicate, Mehta House, Apollo Street, Bombay.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
14	Akalkot	The Vijayasingha Electric Supply Co., Akalkot	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
15	Aundh	The Light & Power Supplies Ltd., (Aundh Branch), M/S. Industrial Service Ltd. Gumaste Buildings, 180, Budhwar Peth, Lazmi Road, Poona 2.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
16	Baramati	The Baramati Electric Supply Co. Private Ltd., Poonawala & Co., 182, Raviwar Peth, Poona.	460 230	D.C. 3 Wire D.C. 2 Wire.
17	Barsi	The General Engineering Corporation Ltd., Barsi Electric Supply Co., 60, Forbes Street, Temple Bazar Buildings, Fort, Bombay 1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

MAHARASHTRA—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
COMPANIES—contd.				
18	Bassein	The Bassein Electric Supply Co. Ltd., M/A. M/S. J. B. Maneckji & Co. Ltd., Mehta House, Apollo Street, Fort, Bombay.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
19	Belapur Road Kopergaon	The Belapur-Kopergaon Supply Co. Ltd., Shirampur, District Ahmednagar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
20	Bhiwandi	The Amalgamated Electricity Co. Ltd., (Bhiwandi Branch) M/A. M/S. N.C. Javeri and Co., Post Box No. 879, 17-B, Horniman Circle, Bombay 1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
21	Bhusawal	The Amalgamated Electricity Co. Ltd., (Bhusawal Branch) M/A. M/S. N. C. Javeri & Co., Post Box No. 879, 17-B, Horniman Circle, Bombay 1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
22	Bhor	Thopte Electric Supply Co. Private Ltd., (Bhor Branch) M/S. Thopte Patel & Co., 'Nana Bhavan', 1194/20 Ghote Road, Poona 4.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
23	Bombay Suburban	The Bombay Suburban Electric Supply Ltd., Central Administration Department M/S. Killick Industries Ltd., 5, Graham Road (4th Floor), Ballard Estate, P.O. Box No. 109, Bombay 1.	11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
24	Belapur Town	The Belapur & Kopergaon Electric Supply Co. Ltd., Belapur Town, Distt. Ahmednagar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
25	Chalisingaon	The Amalgamated Electricity Co. Ltd., (Chalisingaon Branch) M/A. M/S. N. C. Javeri & Co., Post Box No. 879, 17-B, Horniman Circle, Bombay 1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
26	Dhanu Road	The Dhanu Road People's Co-operative Electric Supply Society Ltd., Dhanu Road, District Thana.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
27	Dhulia	The Dhulia Electric Supply Co. Private Ltd., M/A. M/S. Godbole Kane & Co., P.B. No. 36, Dhulia.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
28	Dhond	The Dhond Electric Supply Co., Dhond	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
29	Gondia	The Gondia Electric Supply Co. Ltd., M/S. Sugni Chand Chaman Dass Jotwani & Co., Gondia.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
30	Ichalkaranji	The Ichalkaranji Electric Supply Co., Ichalkaranji (Dist. Satara).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
31	Igatpuri	The Igatpuri Electric Supply Co., M/A. M/S. Pandit & Co., 15, Forbes Street, Fort, Bombay 1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
32	Jalgaon	The Amalgamated Electricity Co. Ltd., (Jalgaon Branch) M/A. M/S. N. C. Javeri & Co., Post Box No. 879, 17-B, Horniman Circle, Bombay.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
33	Junnar	The Junnar Electric & Water Supply Co. Ltd., M/A. M/S. Thopte Patel & Co., 'Nana Bhavan', 1194/20, Ghole Road, Poona 4.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
34	Karad	The Karad Electric Supply Co. Private Ltd., Karad	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

MAHARASHTRA—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
COMPANIES—contd.				
35	Kurundwad	The Kurundwad Electric Supply Co., Ltd., Kurundwad (Dist. Kolhapur).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
36	Koregaon	The Allied Electric Agencies Private Ltd., Power House, Koregaon (North Satara).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
37	Karmala	The Karmala Electric Supply Co., Station Road, Pandharpur.		
38	Lonavala Khandala	The Lonavala Khandala Electric Supply Co. Ltd., Lonavala.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
39	Lasalgaon	The Lasalgaon Cooperative Electric Supply Society Ltd., Lasalgaon, Distt. Nasik.		
40	Mangalwedha	Shri Ganta Chokha Electric Supply Co., Mangalwedha.		
41	Madhavnagar	The Madhavnagar Electric Supply Co. Ltd., Madhvanagar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
42	Mahableshwar	The Mahableshwar Electric Supply Co., M/A. M/S. Panchgani Electric Supply Co. Ltd., 96, Duncan Road, Byculla, Bombay.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
43	Mahad	The Mahad Electric Supply Co. Ltd., Mahad (Distt. Kolaba).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
44	Malegaon	The Amalgamated Electricity Co. Ltd., (Malegaon Branch) M/A. M/S. N. C. Javeri & Co., Post Box No. 879, 17/B Horniman Circle, Fort, Bombay 1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
45	Matheran	The Matheran Electric Supply Co. Ltd., M/A. M/S. Anderson Engineering Co. Ltd., Mehta House, Apollo Street, Fort, Bombay.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
46	Miraj	The Miraj Electric Supply Co. Ltd., Miraj (South Satara).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
47	Nagpur	The Nagpur Electric Light and Power Co. Ltd., Civil Lines, Post Box No. 2, Nagpur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
48	Nandurbar	The Nandurbar Electric Supply Co., Ltd., M/S. K. S. Guzdar & Co., Alli Chambers, 4 BG-Dean Lane, Fort, Bombay.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
49	Nasarapur	The Nasarapur Electric Supply Co., Prop., N.S. Chakke, 649, Shanwar Peth, Poona 2.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
50	Nasik Deolali	The Nasik Deolali Electric Supply Co. Ltd., M/A. The Rajputana Textile (Agencies) Ltd., Esplanado Mansions, 144-146, Mahatma Gandhi Road, Fort, Bombay 1.	6,600 3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
51	Nira-Lonand	The Nira-Lonand Electric Supply Co., M/A. M/S. Thopte Patel & Co., 'Nana Bhavan', 1194/20, Ghole Road, Poona 4.	400 250	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

MAHARASHTRA—concl'd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
COMPANIES—concl'd.				
52	Palghar Navli	The Light & Power Suppliers Ltd., (Palghar-Navli Branch) M/A. Industrial Service Ltd., Gumaste Buildings, 180, Budhwar Peth, Laxmi Road, Poona 2.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
53	Panchgani	The Panchgani Electric Supply Co. Ltd., 96, Duncan Road, Byculla, Bombay.	460 230	D.C. 3 Wire D.C. 2 Wire
54	Pandharpur	The Pandharpur Electric Supply Co., Pandharpur.	460 230	D.C. 3 Wire D.C. 2 Wire
55	Panvel Taluka	The Panvel Taluka Electrical Development Co. Ltd., M/A. M/S. Bantia Brothers, Kesar Baug, Panvel.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
56	Poona	The Poona Electric Supply Co., M/A. The Rajputana Textile (Agencies), Private Ltd., Esplanade Mansions, 144-146, Mahatma Gandhi Rd., Fort, Bombay 1.	11,000 3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
57	Satara Road	The Chairman, The Consumers Electric Supply Sahakari Mandali Ltd., Satara Road, District North Satara.		
58	Sailu	The Proprietor, Sailu Electric Supply Co., Sailu (Central Railway), District Parbhani.		
59	Sangamner	The Sangamner Electric Supply Co., Ltd., M/A. M/S. Penta & Co., Sangamner, Distt. Ahmednagar.	460 230	D.C. 3 Wire D.C. 2 Wire
60	Satara	The Satara Electric Supply Co. Private Ltd., 217, Partaganj Peth, Satara City.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
61	Shirpur	The Shirpur Electric Supply Co. Ltd., Shirpur (East Khandesh).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
62	Sinnar	The Sinnar Electric Supply Co. Ltd., M/A. M/S. Deshpande & Co., Sinnar (District Nasik).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
63	Shirwal	Thopte Electric Supply Co., Private Ltd., (Shirwal Branch) M/S. Thopte Patel & Co., 'Nana Bhavan', 1194/20, Ghole Road, Poona 4.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
64	Tata Hydro	The Tata Hydro Electric Agencies Ltd., Bombay House, 24, Bruce Street, Fort, Bombay.	110,000 22,000 6,600	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy
65	Tasgaon	The Tasgaon Electricity General Co-operative Society Ltd., Tasgaon (District Satara).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
66	Thana	The Thana Electric Supply Co. Private Ltd., Court House (4th Floor), Carnace Road, Dhobi Talao, Bombay.	6,800 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
67	Vita	The Co-operative Electric Supply Society Ltd., Vita (South Satara).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
68	Wardha	The Nagpur Electric Light and Power Co. Ltd., (Wardha Branch), Civil Lines, Post Box No. 2, Nagpur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
69	Yeotmal	The Yeotmal Electric Supply Co. Ltd., M/A. M/S. Hassanmal & Sons, Yeotmal.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

MYOSRE

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply			
			Voltage	A.C. or D.C. Phases frequency etc.		
1	Mysore State Electricity Board Sivasamundram Shimahapura Jog Munirabad Bhadra Ghataprabha Alland Bidar Bailhongal Bhalgi Bijapur Chincholi Chittrapur Guledgud Gulbarga Gonikkopal Hukeri Humnabad Ilkal Khushtagi Mangalore Mercara Raichur Shorapur Somwarpet Virajpet Yadgir	BOARD				
		The Chief Engineer, (Electricity), Mysore State Electricity Board, Post Bag No. 15, Bangalore 1.	110,000	3 ph. A.C. 50 cy		
			68,000	3 ph. A.C. 50 cy		
			33,000	3 ph. A.C. 50 cy		
			11,000	3 ph. A.C. 50 cy		
			4,600	3 ph. A.C. 50 cy		
			3,300	3 ph. A.C. 50 cy		
			400	3 ph. A.C. 50 cy		
			230	1 ph. A.C. 50 cy		
			13,200	3 ph. A.C. 25 cy		
			4,600	3 ph. A.C. 25 cy		
			3,300	3 ph. A.C. 25 cy		
			3,000	3 ph. A.C. 25 cy		
		COMPANIES				
		2	Athni	The Light and Power Suppliers Ltd., (Athni Power House), M/A. Industrial Service Ltd., Gumaste Buildings, 180, Budhwar Peth, Laxmi Road, Poona 2.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
		3	Bagalkot	Shri Venkatesh Power Works Ltd., Shrimant K.S. Sardeshai, Bagalkot.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
		4	Belgaum	The Amalgamated Electricity Co., Ltd., (Belgaum Branch) M/A. M/S. N.C. Javeri & Co., Post Box No. 879, 17-B, Horniman Circle, Fort, Bombay.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
		5	Byadgi	M/S Manvi Brothers, Electric Light & Power Suppliers, Gadag, (District Dharwar).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
		6	Dharwar	The Dharwar Electric Supply Co. Ltd., M/A. The A.E. Co.s' Post Box No. 5, Dharwar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
		7	Gadag	M/S Manvi Brothers, Electric Light & Power Suppliers Gadag, (District Dharwar).	440 220	D.C. 3 wire D.C. 2 Wire
8	Haveri	M/S Manvi Brothers, Electric Light & Power Suppliers, Gadag, (District Dharwar).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy		
9	Jamkhandi	The Electric Power Supply Co. Private Ltd., Jamkhandi, District Bijapur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy		
10	Karwar	The Karwar Electric Supply & Trading Co. Ltd., Karwar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy		

MYSORE—concl'd.

Serial No.	Area of Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
COMPANIES—concl'd.				
11	Khannapur	The Khannapur Co-operative Electricity Society Ltd., Khannapur, District Belgaum.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
12	Nipani	The Nipani Electricity Co. Private Ltd., Dharwar, Nipani, District Belgaum.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
13	Rabkavi	The Rabkavi Electric Supply Co. Ltd., Rabkavi, District Bijapur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
14	Ramdurg	The Madhav Pratap Electric Supply Co. Ramdurg.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
15	Ranebenur	M/S. Manvi Brothers, Electric Light & Power Suppliers, Gadag, (District Dharwar).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
16	Sirsi	The Kanara Electric Supply Co. Ltd., Sirsi (North Kanara).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
ORISSA				
BOARD				
1-1	Balasore Electrical Division Anandpur Balasore Baripada Bhadrak Chandballi Jaleswar Keonjhar Kuldiha Markona	The Chairman, Orissa State Electricity Board, Bhubaneswar.	400 230 440 220	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
1-2	Cuttack Electrical Division Choudhwar Cuttack		11,000 3,300 400 230 460 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
1-3	Duduma Transmission Division Jeypore		11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-4	General Electrical Division Bhawanipatna Bargarh Bolangir Deogarh Khariar Road Padampur Sonepur Titilagarh Junagarh		400 230 220 110	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire

ORISSA—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
BOARD—concl'd.				
1-5	Hirakud Utilization Division No. 11, Rajgangpur	The Chairman, Orissa State Electricity Board, Bhubaneswar.	33,000	3 ph. A.C. 50 cy
	Jharsuguda		11,000	3 ph. A.C. 50 cy
	Sundergarh		400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-6	Hirakud Dam Project		11,000	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-7	Puri Electrical Division, Bhubaneswar.		11,000	3 ph. A.C. 50 cy
	Angols		2,300	3 ph. A.C. 50 cy
	Berhampur		400	3 ph. A.C. 50 cy
	Chatarpur		230	1 ph. A.C. 50 cy
	Bhubaneswar			
	New Town			
	Nayagarh			
	Talacher			
1-8	Transmission Line Construction Division, Berhampur		11,000	3 ph. A.C. 50 cy
	Arkua		400	3 ph. A.C. 50 cy
	Baudh		230	1 ph. A.C. 50 cy
	Bhanjanagar			
	Chatarpur Thermal			
	Khalli Kote			
	Parlakimedi			
	Phulbani			
	Surada			
PUNJAB BOARD				
1-1	Nangal Hydrel Scheme	The Chairman, Punjab State Electricity Board, Patiala.	132,000	3 ph. A.C. 50 cy
			33,000	3 ph. A.C. 50 cy
			11,000	3 ph. A.C. 50 cy
			3,300	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-2	Uhl River Scheme		11,000	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
MUNICIPALITIES				
2	Amritsar	The Chief Electrical Engineer, Amritsar Municipal Committee, Amritsar.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
			440	D.C. 3 Wire
			230	D.C. 2 Wire
3	Simla	The Chief Electrical Engineer, Municipal Electricity Department, Simla-1.	2,200	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy

PUNJAB—concl'd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
COMPANIES				
4	Ambala Cantt.	The Ambala Cantonment Electric Supply Corporation Ltd., M/A. M/S. L. Kidarnath Ltd., Ambala Cantt.	440 220	D.C. 3 Wire D.C. 2 Wire
5	Bhatinda	The Modi Electric Supply Co. Ltd., Bhatinda ..	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
6	Bhiwani	The Bhiwani Electric Supply Co. The South Punjab Electricity Corporation Private Ltd., Hissar.	11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
7	Jagadhri	The Jagadhri Electric Supply & Industrial Co. Private Ltd., Jagadhri.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
8	Kaithal	The Kaithal Electric Supply Co. Ltd., Kaithal (District Karnal).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
9	Loharu	The Loharu Electric & Water Supply Co. (Private) Ltd., P.O. Loharu, District Hissar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
10	Malerkotla	The Malerkotla Power Supply Co., Proprietor M/S. Bhagwan Dass & Sons, Malerkotla.	400 250	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
11	Rewari	The Rewari Electric Supply & General Industries Ltd., Rewari.	3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
12	Rohtak	The South Punjab Electricity Corporation Private Ltd. (Rohtak Branch), Rohtak.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
13	Sirsa	The Sirsa Electric Supply Co., C/O. The Lal Chand Minda, Sirsa.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
RAJASTHAN				
BOARD				
1-1	Alwar	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	400 230 440 220	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
1-2	Bikaner		6,600 2,200 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-3	Bharatpur		440 220	D.C. 3 Wire D.C. 2 Wire
1-4	Bhilwara		230	1 ph. A.C. 50 cy
1-5	Bhawani Mandi		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

RAJASTHAN—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
BOARD—contd.				
1-6	Bhilwara Division (a) Bijainagar (b) Kekri	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-7	Bundi		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-8	Chittorgarh		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-9	Churu		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-10	Deeg		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-11	Dholpur		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-12	Dungarpur		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-13	Ganganagar		6,600 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-14	Hindaun		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-15	Hanumangarh Sub-Division.			
1-16	Jaisalmer		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-17	Jhalawar		400 230 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 2 Wire
1-18	Jodhpur		3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-19	Jodhpur Division (a) Bilara (b) Didwana (c) Nagaur (d) Jalore (e) Sumerpur		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-20	Jaipur		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-21	Jaipur Division (a) Sewai Madhopur (b) Malpura		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

RAJASTHAN—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply		
			Voltage	A.C. or D.C. Phases frequency etc.	
BOARD—concl'd.					
1-22	Karauli	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	440 220	D.C. 3 Wire D.C. 2 Wire	
1-23	Kishangarh		400 230 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire	
1-24	Kotah		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-25	Kanchaman		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-26	Nathdwara		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-27	Nawalgarh		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-28	Newai Town		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-29	Pali				
1-30	Partapgarh				
1-31	Phalodi		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-32	Rajssmand		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-33	Segwara		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-34	Shahpura		230	D.C. 2 Wire	
1-35	Sikar		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-36	Sirchi		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-37	Tonk		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
MUNICIPALITIES					
2	Barmer		The Chairman, Municipal Board, Barmer ..	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
3	Balotara		The Chairman, Municipal Board, Balotara ..		
4	Baran	The Chairman, Municipal Board, Baran (Kota) ..			
5	Merta	The Chairman, Municipal Board, Merta City ..	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
6	Nasirabad	The Cantonment Executive Officer, Power House, Nasirabad.	460 230	D.C. 3 Wire D.C. 2 Wire	
7	Nainwa	The Chairman, Municipal Board, Nainwa ..	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	

RAJASTHAN—concl'd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
MUNICIPALITIES—concl'd.				
8	Suratgarh	The Chairman, Municipal Board, Power House, Suratgarh (Power House closed).		
COMPANIES				
9	Abu Mount	The Mount Abu Electric Supply Co., Lothian Power House, Mount Abu.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
10	Abu Road	The Abu Road Electricity and Industries Co. Ltd., M/A. M/S. Acharya Yodha & Co., Abu Road.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
11	Ajmer	The Amalgamated Electricity Co. Ltd. (Ajmer Branch), M/A. M/S. N. C. Javeri & Co., P. O. Box No. 879, 17-B, Horniman Circle, Fort, Bombay.	400 230 440 220	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
12	Banswara	The Banswara Electric Supply Co., Prop. Haji Mulla Rasoolbhai, Mulla Abdul Husain & Bros., Banswara.		(Power House Closed).
13	Beawar	The Beawar Electric Supply Co. Ltd., Beawar ..	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
14	Nagaur	The Nagaur Electric Supply Co., Nagaur ..	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
15	Pilani	The Pilani Industrial Corporation Ltd., Pilani ..	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
16	Rajgarh (Alwar)	The Rajgarh Electric Supply Co., Proprietor The Bharat Electrical and Industrial Corporation Ltd., Rajgarh (Alwar).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
17	Sambar Lake	The Sambar Lake Electric Supply Co. (Private) Ltd., Sambar Lake.	400 230	3 ph. A.C. 50 cy 1 ph. A.D. 50 cy
18	Surajgarh	The Secretary, Jiwan Mandi Vyapar Saniti, Vishnunagar, Surajgarh.		
19	Udaipur	The Maharana Bhupal Electric Supply Co. Ltd., Udaipur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
UTTAR PRADESH				
BOARD				
1-1	Hydel Division, Aligarh Aligarh Sudamapuri Sumnera Tundla	The Chief Engineer, Hydel, U.P. State Electricity Board, Lucknow.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-2	Hydel Division, Budaun Chandausi		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-3	Hydel Division, Bullandshahr Palra		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

UTTAR PRADESH—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply		
			Voltage	A.C. or D.C. Phases frequency etc.	
BOARD—contd.					
1-4	Hydel Division, Mainpuri Mainpuri	The Chief Engineer, Hydel, U.P. State Electricity Board, Lucknow.	400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-5	Hydel Division, Meerut Bhola Chitaura Meerut M.E.S. Salawa		400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-6	Hydel Division, Moradabad Moradabad Pauri		400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-7	Hydel Division, Roorkee— Dhakrani Laksar Mohammedpur Narendernagar Nirgajni Pathri Saharanpur Tehri		400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
			440	D.C. 3 Wire	
			220	D.C. 2 Wire	
			110	D.C. 2 Wire	
1-8	Kanpur		The Kanpur Electricity Supply Administration, KESA House, P.O. Box No. 141, Kanpur.	6,600	3 ph. A.C. 50 cy
				400	3 ph. A.C. 50 cy
				230	1 ph. A.C. 50 cy
			450	D.C. 3 Wire	
			225	D.C. 2 Wire	
1-9	Hydel Division, Kanpur Hamirpur Mohoba		400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-10	Hydel Division Gorakhpur Deoria Gorakhpur		11,000	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-11	Charkhari	The Chief Engineer, Hydel, U.P. State Electricity Board, Lucknow.	440	D.C. 3 Wire	
			220	D.C. 2 Wire	
1-12	Hydel Division, Azamgarh Azamgarh Mau		11,000	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-13	Hydel Division, Rampur Rampur		400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-14	Rihand Hydro Generation Circle Chopan Pipri Roberts Ganj		400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	

UTTAR PRADESH—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply		
			Voltage	A.C. or D.C. Phases frequency etc.	
BOARD—contd.					
1-15	Hydro Electric Division, Baroilly Bageshwar Khatima	The Chief Engineer, Hydel, U. P. State Electricity Board, Lucknow.	11,000	3 ph. A.C. 50 cy	
			3,300	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-16	Hydel Division; Faizabad Sohwal			6,600	3 ph. A.C. 50 cy
				400	3 ph. A.C. 50 cy
				230	1 ph. A.C. 50 cy
				460	D.C. 3 Wire
				230	D.C. 2 Wire
1-17	Hydel Division, Gonda, Bhariach			440	D.C. 3 Wire
				220	D.C. 2 Wire
1-18	Hydel Generation Division, Lohia Head		400	3 ph. A.C. 50 cy	
			220	1 ph. A.C. 50 cy	
1-19	Hydel Division, Sitapur		400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-20	Thermal Division, Kasimpur Harduaganj		400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-21	Hydel Division Shahjahanpur Shahjahanpur				
1-22	Hydel Division, Varanasi Bhadoli				
MUNICIPALITIES					
2	Almora	The Electrical and Water Works Engineer, Municipal Board, Almora.	400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
3	Haldwani	The Electrical and Municipal Engineer, Municipal Board, Haldwani-cum-Kathgodam, Haldwani.	400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
4	Hardwar	The Electrical and Water Works Engineer, Municipal Board, Hardwar Union, Hardwar.	400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
5	Kasganj	The Electrical Engineer, Municipal Electric Supply, Kasganj.	400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
6	Khurja	The Electrical Engineer, Municipal Electric Supply, Municipal Board, Khurja.	400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
7	Lalitpur	The Municipal Electric Supply undertaking, Lalitpur			
8	Meerut	The Electrical Engineer, Municipal Board, Meerut	400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
9	Muzaffarnagar	The Electrical Engineer, Municipal Board, Muzaffarnagar.	400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
10	Mussoorie	The President, Mussoorie Dehra Hydro Electric Undertaking, City Board, Mussoorie.	400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
11	Nainital	The Electrical & Mechanical Engineer, Municipal Board, Nainital.	380	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	

UTTAR PRADESH—*contd.*

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
MUNICIPALITIES—<i>concl.</i>				
12	Roorkee	The President, Municipal Board, Roorkee	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
13	Rishikesh	The President, Municipal Board, Rishikesh	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
14	Unnao	The Electrical & Water Works Engineer, Municipal Board, Unnao.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
COMPANIES				
15	Aligarh	The Aligarh Electric Supply Co. Ltd., M/A. M/S. Jain & Co., Udai Singh Jain Road, Mathura.	3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
16	Agra	The Agra Electric Supply Co. Ltd., M/A. M/S. Martin Burn Ltd., 12, Mission Row, Calcutta 1.	6,600 3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
17	Allahabad	The U. P. Electric Supply Co. (Allahabad Branch) M/A. M/S. Martin Burn Ltd., 12, Mission Row, Calcutta 1.	11,000 3,300 400 230 440 220	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
18	Auraiya	The Auraiya Water and Electric Supply Corporation Society Ltd., Auraiya, District Etawah.		
19	Banaras	The Banaras Electric Light & Power Co. Ltd., M/A. M/S. Martin Burn Ltd., 12, Mission Row, Calcutta 1.	33,000 11,000 6,600 3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
20	Bareilly	The Bareilly Electric Supply Co. Ltd., M/A. M/S. Martin Burn Ltd., 13, Mission Row, Calcutta 1.	3,300 400 230 440 220	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
21	Bharaich	The Balrampur Electric Supply Co. Private Ltd., Balrampur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
22	Balrampur	The Balrampur Electric Supply Co. Private Ltd., Balrampur.	11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
23	Barabanki	The Barabanki Electric Supply Co. Ltd., M/A. The Progressive Industries, Barabanki.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
24	Budaun	The Kishore Electric Supply Corporation; C/O Kishore Chand Shiv Charan Lal, Budaun.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
25	Banda	The Banda Electric Supply Co. Ltd., M/A. Shah & Co. Bhagwan Dass Road, New Delhi.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
26	Etah	M/S. Seth Ram Gopal & Partners Electricity Suppliers, Etah.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

UTTAR PRADESH—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
COMPANIES—contd.				
27	Etawah	The Western United Provinces Electric Power and Supply Co. Ltd., M/A. M/S. Alopri Prashad and Sons Private Ltd., P. B. No. 1097, Kashmere Gate, Delhi 6.	11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
28	Farrukhabad	The Farrukhabad Electric Supply Co. Ltd., M/A. M/S. Radheshyam & Brothers, Fategarh.	3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
29	Faizabad	The Faizabad Electric License 1933 C/O The British Insulated Calenders Cables Ltd., 116, Station Road, Faizabad.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
30	Ghazipur	The Eastern United Provinces Electric Supply Co. Ltd., M/A. M/S. Seth Brothers, Kothi Shiv Sahaya, Ghazipur.	440 220	D. C. 3 Wire D. C. 2 Wire
31	Gonda	The Balrampur Electric Supply Co. Private Ltd., Balrampur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
32	Hathras	The lower Ganges Jamna Electricity Distribution Co. Ltd. (In Liquidation), Shiv Bhavan Morris Rd., Aligarh.	3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
33	Hardoi	The Laxmi Electric Supply Co., Proprietor, The Laxmi Sugar & Oil Mills Ltd., M/A. M/S. Bansidhar Sons and Co., Hardoi.	440 220	D.C. 3 Wire D.C. 2 Wire
34	Jhansi	The Jhansi Electric Supply Co. Ltd., M/A. M/S. Moona Lal & Sons, Jhansi.	3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
35	Jaunpur	The Jaunpur Electric Licensees (1934) C/O The British Insulated Calenders Cables Ltd., Jaunpur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
36	Kosikalan	The Kosi Electric Supply Co., Kosikalan, District Mathura.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
37	Lucknow	The United Provinces Electric Supply Co. Ltd. (Lucknow Branch, M/A. M/S. Martin Burn Ltd., 12, Mission Row, Calcutta 1.	11,000 6,000 3,000 400 230 440 220	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
38	Mathura	The Resident Engineer, The Mathura Electric Supply Co. Ltd., Mathura.	3,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
39	Mainpuri	The Mainpuri Electric Supply and General Mills Co. Ltd., Mainpuri.		
40	Mirzapur	The Mirzapur Electric Supply Co. Ltd., Mirzapur.	3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

UTTAR PRADESH—concl'd.

Serial No.	Name of Town served/ system	Address of Undertaking	System of Supply		
			Voltage	A.C. or D.C. Phases frequency etc.	
COMPANIES—concl'd.					
41	Pilibhit	The Pilibhit Electric Supply Co. Private Ltd., M/A. M/S. Manmohan Lal & Sons (Private) Ltd., Pilibhit.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
42	Rohtak & Hissar Districts Electric Supply Co.	The Commercial Officer, The Rohtak & Hissar Districts Electric Supply Co. Ltd., 5, Prayag Street, Allahabad 2.			
43	Sadabad	The Sadabad Electric Supply Co. C/O M/S. M. N. Bharagava & Brothers Sadabad.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
44	Saharanpur	The Saharanpur Electric Supply Co. Ltd., Ramnagar (Pathanpura Street), P.B. No. 16, Saharanpur.	400 230 440 220	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire	
45	Shahjahanpur	The Shahjahanpur Electric Supply Co. Ltd., M.A. M/S. Octavions Steel & Co. Ltd., 14, Old Court House Street, P.B. No. 5, Calcutta.	33,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
46	Upper Jamuna Valley	The Upper Jamuna Valley Electricity Supply Co. Ltd., M/A. M.S. Martin Burn Ltd., 12, Mission Row, Calcutta.	400 230 440 220	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire	
47	Vrindaban	The General Engineering Co. Electricity Supplies, Vrindaban.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
WEST BENGAL					
BOARD					
1-1	Barrackpore Division Barrackpore Barasat Grid North Calcutta Grid Sodepur Grid	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta.	11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-2	Burdwan Division Burdwan Memari Grid Durgapur Sonamukhi Grid Mogra Boinechi Grid Ondal Grid Arambagh		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-3	Gouripur		The General Superintendent, Gouripur Electric Supply, West Bengal State Electricity Board, P.O. Garifa, Distt. 24 Parganas.	6,600 3,300 440 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-4	Howrah Division Howrah Amta Grid Duttabad Grid Singur Tarakeshwar Grid South Calcutta Grid caning		The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

WEST BENGAL—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply		
			Voltage	A.C. or D.C. Phase frequency etc.	
BOARD—concl'd.					
1-5	Krishnagar Division North Calcutta Grid Nimtita Grid Karimpore		11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-6	Kharagpur Division Adra Purulia Grid Kharagpur Midnapore Grid Contai Digha Ghatal		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-7	Siliguri Division Balurghat Grid Changrabandha Grid Cooch Behar Grid Kurseong Siliguri Grid Raiganj Grid Haldibari Hariachandrapur Mal Mathabhanga Old Malda Malda		The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta.	400 230 440 220	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
1-8	Suri Division Churulia Grid Damagoria Grid Mayurakshi Grid			400 400	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-9	Massanjore		The Assistant Engineer, Hydel Power Station, P.O. Massanjore, District Santhal Parganas.	33,000 11,000	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy
MUNICIPALITIES					
2	Darjeeling		The Chairman, Darjeeling Municipality, Electrical Department, Darjeeling.	6,600 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
POWER CORPORATION					
3	Damodar Valley Corporation. Mai han Durgapur		The Electrical Engineer, Damodar Valley Corporation, Anderson House, Alipore, Calcutta 27.	11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
COMPANIE					
4	Andul Mouri	The National Power Supply Corporation Ltd. (Andul Mouri Branch), M/A/M/S. K.K. Sen and Sons' 23-B, Allenby Road, Cacustta 20.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
5	Asansol	The Asansol Electric Supply Co. Ltd., M/S. Bengal Trust Ltd., Burnpur Road, Asansol.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
6	Bankura	The West Begul Power Supply lCo. Ltd., M/A. M/S. B. N. Elias & Co. Ltd., Northern Buildings, 1 & 2, Old Court Ho use Corner, Calcutta.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	

WEST BENGAL—*contd.*

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
COMPANIES—<i>contd.</i>				
7	Bansberia	The East India Electric Supply & Traction Co. Ltd., 3, Jogendra Kaviraj Row, Calcutta.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
8	Barakar	The Barakar Electric Supply Co., Proprietor, Babu Hari Ram Agarwala, P.O. Barakar, District Burdwan.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
9	Berhampur	The Berhampur Electric Supply Co. Ltd., M/A. M/S. S. C. Nag & Co., Berhampur.	400 230 440 220	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
10	Bhatpara	The Riverside (Bhatpara) Electric Supply Co. Ltd., M/A. M/S. Development of Industries (India) Private Ltd., 135, Princep Street, Calcutta 1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
11	Bongaon	The Bongaon Electric Supply Co. Ltd., M/A. M/S. R. N. Chatterjee & Co., 135, Canning Street, Calcutta 1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
12	Chandernagore	The Chandernagore Electric Supply Co. Private Ltd., Rue Carnot, Chandernagore.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
13	Calcutta	The Calcutta Electric Supply Corporation Ltd., Victoria House, Calcutta 1.	33,000 20,000 6,600 3,300 400 230 450 225	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
14	Dishergarh	The Dishergarh Power Supply Co. Ltd., Associated Power Co. Ltd., Central Office, Dishergarh, P. O. Sanctoria, District Burdwan.	11,000 3,300 550	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy
15	Hooghly Chinsura	The East India Electric Supply & Traction Co. Ltd., 3, Jogendra Kaviraj Row, Calcutta.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
16	Jalpaiguri	The Jalpaiguri Electric Supply Co. Ltd., M/A. M/S. Indo Swiss Trading Co. Ltd., Kent House, P. 33, Mission Row Extension, Calcutta 13.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
17	Joynagar-Majilpur	The Joynagar-Majilpur Electric Supply Co. Ltd., 135, Canning Street, Calcutta 1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
18	Jamuria	The Jamuria Electric Supply Co. M/A. M/S. Bengal Trust Ltd., Burnpur Road, Asansol.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
19	Kalimpong	The Kalimpong Electric Supply Co. Ltd., P-34, Misson Row Extension, 3rd Floor, Calcutta 1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
20	Krishnagar	The West Bengal Power Supply Co. Ltd., M/A. M/S. B. N. Elias & Co. Ltd., Norton Buildings, 1 & 2, Old Court House Corner, Calcutta.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
21	Midnapur	The West Bengal Power Supply Co. Ltd., M/A. M/S. B. N. Elias & Co. Ltd., Norton Buildings, 1 & 2, Old Court House Corner, Calcutta.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

WEST BENGAL—concl'd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply		
			Voltage	A.C. or D.C. Phases frequency etc.	
COMPANIES—concl'd.					
22	Nabadwip	The West Bengal Power Supply Co. Ltd., M/A. M/S. B. N. Elias & Co. Ltd., Norton Buildings, 1 & 2, Old Court House Corner, Calcutta.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
23	Naihati	The Naihati Electric Supply Co. Ltd., M/S. Sanyal & Co., 309, Bow Bazar Street, Calcutta.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
24	Purulia	The Purulia Electric Supply Corporation Ltd., M/S. The Purulia Trading Co. Private Ltd., Electrical Engineers and Contractors, Purulia.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
25	Raneeganj	The Raneeganj Electric Supply Co. Ltd., M/A. M/S. Industries and Power Development Private Ltd., Western Block, 1st Floor, 40—1, Mahatma Gandhi Road, Calcutta 9.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
26	Seebpore	The Dishergarh Power Supply Co. Ltd., Associated Power Co. Ltd. (Seebpore Power House), Central Office, P. O. Sanctoria, Dishergarh, District Burdwan.	11,000 3,300 550	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy	
27	Tarakeshwar	The Tarakeshwar Electric Supply Co. Ltd., Tarakeshwar.			
28	Vishnupur	The Vishnupur Electric Supply & Industrial Development Co. Ltd., Vishnupur, Distt. Bankura.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
UNION TERRITORIES					
GOVERNMENT					
1	ANDAMAN & NICOBAR ISLANDS				
	Port Blair	The Electrical Engineer, Andaman & Nicobar Islands, Port Blair.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
2	HIMACHAL PRADESH				
2-1	Hydro Electric Division Simla Chhaila Jubbal Rampur Thanedar Theog	The Superintending Engineer, Hydro Electric Circle, Himachal Pradesh P.W.D., Simla.	460 230 400 230	D.C. 3 Wire D.C. 2 Wire 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
2-2	Hydro Electric Division Dalhousie Chamba		400 230 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 2 Wire	
2-3	Hydro Electric Division Solan		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
MANIPUR					
3	Imphal		The Electrical Engineer, Manipur Administration, Imphal Electricity Sub-Division, P.W.D., Manipur	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

UNION TERRITORIES—*concl.*

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
GOVERNMENT				
TRIPURA				
4	Agartala	The Electrical Engineer, Agartala Electric Supply, Tripura Administration, Agartala.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
PONDICHERRY				
5	Pondicherry	The Director of Electricity, Electricity Department, Pondicherry.	22,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
MUNICIPALITIES				
DELHI				
6	Delhi Electric Supply Undertaking.	The Electrical Engineer, Delhi Electric Supply Undertaking (Municipal Corporation of Delhi) Central Power House, Rajghat, P. O. Box No. 589, New Delhi.	11,000 6,600 400 230 500 250	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
7	New Delhi Municipal Committee.	The Electrical Engineer, Electricity Department, New Delhi Municipal Committee, New Delhi.	6,600 400 230 440 220	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
COMPANIES				
8	Narela	The National Electric Supply & Trading Corporation Private Ltd. (Ganpati Bhawan), "Harblas Colony" Power House, Narela.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
PONDICHERRY				
9	Karaikal	The Karaikal Electric Supply Co. Ltd., M/A. M/S. A. S. Ahilandam, 13, West Boulevard Road, Tiruchirapalli 8.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
10	Mahe	The Electrical Engineer, The West Coast Electric Supply Corporation Ltd., M/A. M/S., Chandrie & Co. (Private) Ltd., Mahe.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy