



सत्यमेव जयते

# CENTRAL WATER AND POWER COMMISSION

(POWER WING)

S I M L A

## PUBLIC ELECTRICITY SUPPLY

## ALL INDIA STATISTICS, 1959-60

GENERAL REVIEW

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

GOVERNMENT OF INDIA \* MINISTRY OF IRRIGATION AND POWER

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## FOREWORD

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Salient features of the Public Electricity Supply in the Republic of India for the year 1959-60 are summarised in this review. The presentation of the review in general follows the same pattern as in the previous year.

Thanks are due to the Public Electricity Supply Undertakings 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 book, but it is to be noted that the Government of India cannot accept responsibility for any errors or omissions.

CENTRAL WATER & POWER COMMISSION  
(POWER WING)  
SIMLA, THE 26TH SEPTEMBER, 1960

M. HAYATH  
CHAIRMAN



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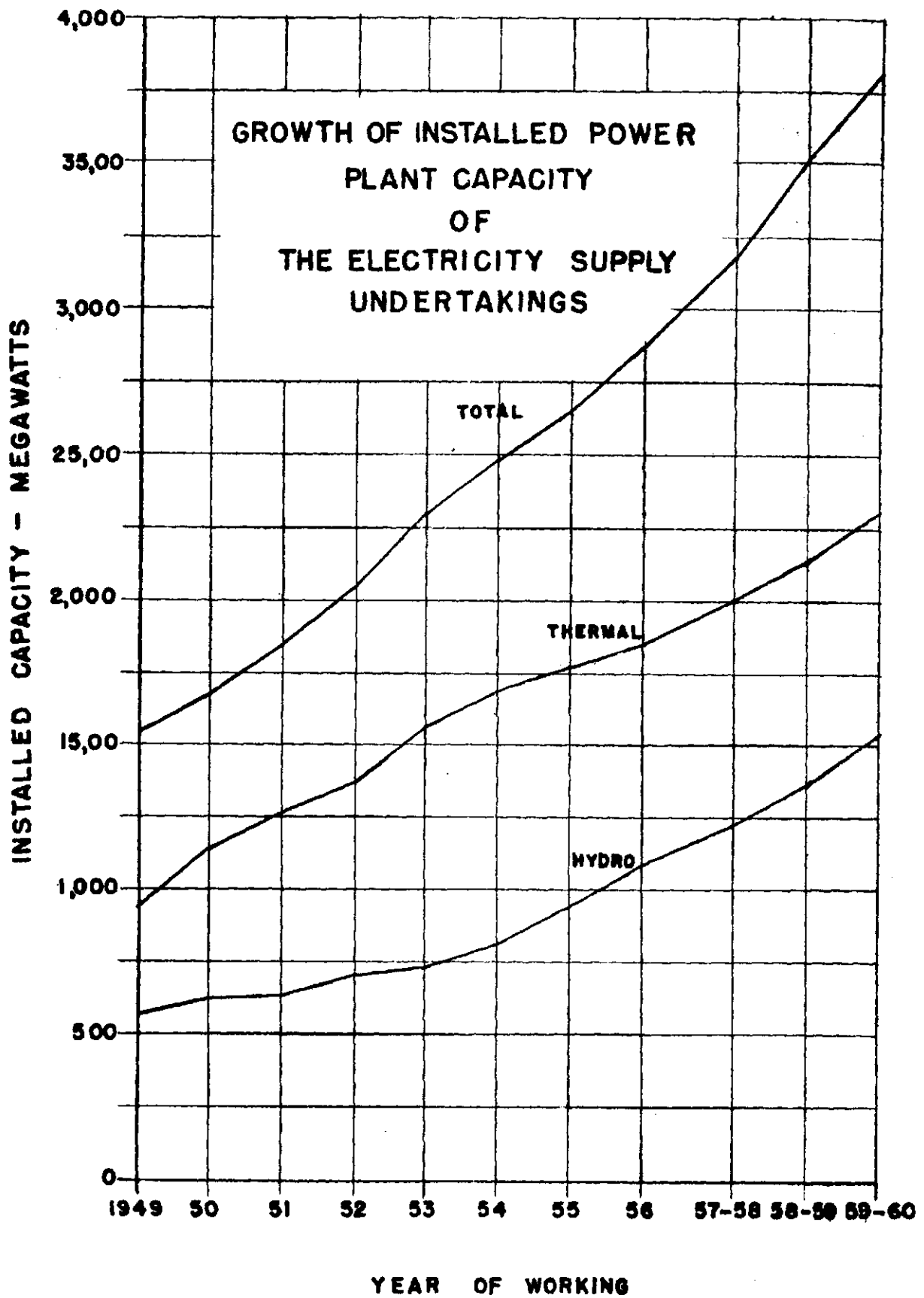
**SECTION 1**  
**PLANT DATA AND POWER GENERATION**

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**PUBLIC ELECTRICITY SUPPLY ALL INDIA STATISTICS**

**GENERAL REVIEW**

**GENERAL POWER SUPPLY POSITION**

1.0 During the year 1959-60, the total installed generating plant capacity in India rose to 3,873 Megawatts and the total generation increased to 15,033 million kWh. The installed plant capacity increased by 10.3 per cent and generation by 15.4 per cent and the number of consumers increased by 11.4 per cent over that in the previous year. Table I gives the summary of the salient features of power supply industry in India for a period of five years 1955, 1956, 1957-58, 1958-59 and 1959-60.

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 the capital expenditure of the entire power supply industry for the period are given in the 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 1955 to 1959-60  
(All India)**

Year	1955	1956	1957-58	1958-59	1959-60
<b>AUTHORISED UNDERTAKINGS—</b>					
<i>(a) Generating—</i>					
(i) Public Sector (Nos.) .. ..	42	46	43	42	40
(ii) Private Sector (Nos.) .. ..	199	179	161	144	141
<b>Total</b> .. ..	<b>241</b>	<b>225</b>	<b>204</b>	<b>186</b>	<b>181</b>
<i>(b) Receiving bulk supply—</i>					
(i) Public Sector (Nos.) .. ..	26	23	24	27	31
(ii) Private Sector (Nos.) .. ..	114	122	130	140	138
<b>Total</b> .. ..	<b>140</b>	<b>145</b>	<b>154</b>	<b>167</b>	<b>169</b>
<b>Grand Total</b> .. ..	<b>381</b>	<b>370</b>	<b>358</b>	<b>353</b>	<b>350</b>
<b>GENERATING CAPACITY (kW)—</b>					
Steam plant .. ..	1,546,805	1,596,412	1,763,257	1,879,553	2,047,011
Oil plant .. ..	208,529	228,288	245,935	270,288	296,010
Hydro plant .. ..	939,483	1,061,441	1,213,919	1,361,745	1,530,145
<b>Total</b> .. ..	<b>2,694,817</b>	<b>2,886,141</b>	<b>3,223,111</b>	<b>3,511,586</b>	<b>3,873,166</b>

TABLE I—contd.

Year	1955	1956	1957-58	1958-59	1959-60
<b>OUR-PUT (Million kWh)—</b> .. ..					
Steam plant .. .. .	4,618·863	5,133·900	6,042·454	6,847·644	7,678·429
Oil plant .. .. .	231·350	233·356	254·447	298·140	327·100
Hydro plant .. .. .	3,742·238	4,294·877	5,072·241	5,848·102	7,027·424
<b>Total</b> .. .. .	8,592·451	9,662·133	11,369·142	12,993·886	15,032·953
<b>FUEL CONSUMPTION (Metric tons) —</b>					
Coal .. .. .	3,739,352	4,067,348	4,593,761	5,119,522	5,759,000
Diesel oil .. .. .	76,750	76,261	82,024	90,697	99,880
<b>MAXIMUM DEMAND (kW)—</b> .. ..	1,849,672	1,989,774	2,288,212	2,542,955	2,931,360
<b>SALES (Million kWh) .. .. .</b>					
Domestic light and small power ..	850·426	934·122	1,093·630	1,238·044	1,378·538
Commercial light and small power	514·423	545·851	609·814	682·818	766·184
Industrial power .. .. .	4,697·789	5,323·424	6,166·799	7,224·034	8,455·534
Irrigation .. .. .	254·803	316·180	544·640	583·482	753·946
Other purposes .. .. .	793·570	839·768	930·341	990·232	1,052·741
<b>Total</b> .. .. .	7,111·011	7,959·345	9,345·224	10,718·610	12,406·946
<b>CONSUMERS—</b>					
Lighting and heating (domestic, commercial & Public.)	2,362,637	2,654,198	2,994,445	3,375,651	3,742,706
Industrial power (including traction and water works.)	99,317	108,756	125,414	135,860	150,789
Irrigation .. .. .	46,626	62,848	87,649	106,117	136,245
<b>Total</b> .. .. .	2,508,580	2,825,802	3,207,508	3,617,628	4,029,740
<b>CONNECTED LOAD (kW)—</b>					
Lighting and heating (domestic, commercial and public).	1,624,616	1,763,764	2,000,647	2,217,718	2,426,514
Industrial power (including traction & water-works).	2,455,387	2,632,280	2,946,635	3,448,375	3,992,612
Irrigation .. .. .	242,595	327,774	429,248	489,106	601,411
<b>Total</b> .. .. .	4,322,598	4,723,818	5,376,530	6,155,199	7,020,537
<b>ELECTRIFIED TOWNS AND VILLAGES</b> ..	9,400	12,306	15,208	18,300	21,396
<b>CAPITAL EXPENDITURE (Rs. crore)</b> ..	326·2	516·9	509·3*	654·8	..

\* The Andhra Pradesh and Assam State Electricity Boards, Orissa and Jammu & Kashmir Government Electricity Departments have not been included in this figure due to non-availability of data from them.

#### AUTHORISED UNDERTAKINGS

2.0. The total number of undertakings included in the review is 350 reckoned on the basis of ownership and their operating data has been based on 850 separate returns from reporting centres. Out of these 350 undertakings 181 generated power and 169 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 the industry's 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>(i) Public Sector—</i>			
(a) Government/State Electricity Boards .. .. .	15	4	19
(b) Power Corporation .. .. .	2	—	2
(c) Municipality .. .. .	23	27	50
Total ..	40	31	71
<i>(ii) Private Sector—</i>			
Companies .. .. .	141	138	279
Grand Total ..	181	169	350

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.

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

Serial No.	States and Union Territories	Public Sector							Private Sector		Total		
		Government/State Electricity Board		Power Corporation		Municipality		Total for public Sector		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	277,437	..	..	2	..	3	277,437	6	165	9	277,602
2	Assam ..	1	14,820	..	..	..	..	1	14,820	6	4,440	7	19,260
3	Bihar ..	1	18,784	*1	216,500	..	..	2	235,284	10	32,529	12	267,813
4	Bombay State ..	1	346,425	..	..	15	2,867	16	349,292	108	608,883	124	958,155
5	Jammu & Kashmir	1	12,931	..	..	..	..	1	12,931	..	..	1	12,931
6	Kerala ..	1	122,262	..	..	1	..	2	122,262	5	..	7	122,262
7	Madhya Pradesh	1	171,487	..	..	2	330	3	171,817	20	24,345	23	196,162
8	Madras State ..	1	403,166	..	..	5	..	6	403,166	8	..	14	403,166
9	Mysore State ..	1	185,859	..	..	1	34	2	185,893	17	4,718	19	190,611
10	Orissa ..	1	133,651	..	..	..	..	1	133,651	5	2,231	6	135,882
11	Punjab ..	1	163,288	..	..	3	3,660	4	166,948	14	4,333	18	171,281
12	Rajasthan ..	1	38,729	..	..	6	397	7	39,126	19	12,002	26	51,128
13	Uttar Pradesh ..	1	292,360	..	..	12	8,626	13	300,986	31	77,013	44	377,999
14	West Bengal ..	1	11,812	*1	60,000	1	2,640	3	74,452	26	530,050	29	604,502
15	Union Territories	5	8,059	..	..	2	76,228	7	84,287	4	75	11	84,362
	Total ..	19	2,201,120	*2	276,500	50	94,782	71	2,572,402	279	1,300,764	350†	3,873,166

\*The Damodar Valley Corporation is reckoned as two undertakings as it has installations both in Bihar and West Bengal.

†This figure includes both the generating and distributing undertakings.

## ACQUISITION OF ELECTRICITY SUPPLY UNDERTAKINGS

3.0 During the year 6 undertakings were acquired by the State Electricity Boards in the interest of rationalising the power supply in the licensees' areas. The names of the undertakings with their ownership prior to acquisition and the State Electricity Boards who acquired them are given below—

TABLE III(a)—ACQUISITION OF ELECTRICITY SUPPLY UNDERTAKINGS

Name of undertaking	Prior ownership	Name of acquiring Board
<b>A. Generating Power Systems—</b>		
Tezpur .. .. .	Company ..	Assam State Electricity Board
Morvi .. .. .	Company ..	Bombay State Electricity Board
Vallabhipur .. .. .	Company ..	Bombay State Electricity Board
Faridabad .. .. .	Municipal ..	Punjab State Electricity Board
<b>B. Distributing Power Systems—</b>		
Akola .. .. .	Company ..	Bombay State Electricity Board
Bijnor-Moradabad .. .. .	Company ..	U.P. State Electricity Board

The total generating plant capacity in the aforesaid undertakings was 9,103 kW at the time of acquisition.

## UNDERTAKINGS CHANGED OVER TO BULK POWER SUPPLY

4.0 Two undertakings are reported to have changed over to bulk power distribution during the year. Their names and their source of bulk power supply are given below—

Name of undertaking	Type of ownership	Name of State	Source of supply
1. Gandhidham (Adipur) .. .. .	Company	Bombay	Central Steam Station, Kandla.
2. holvad .. .. .	Company	Bombay	North Gujarat Grid.

The approximate reduction in effective plant capacity on account of changing over of certain towns and areas to Bulk Power Purchase from nearby grid system during the last 3 years is as follows—

1957-58	27,547 kW.
1958-59	19,994 kW.
1959-60	1,451 kW.

## NEW GENERATING STATIONS WHICH COMMENCED POWER SUPPLY

5.0 The names of the generating stations which commenced power supply during the period 1st April 1959 to 31st March 1960 are given below—

Bombay State.—State Electricity Boards steam power station at Kandla and Porbandar and diesel stations at Parbhani and Ambaji.

Madras.—State Electricity Board's hydro power station at Kundah.

Union Territories.—Delhi Electricity Supply undertaking's steam power station at Chandrawal and diesel station at Kilokri.

## PLANT INSTALLATIONS, WITHDRAWALS ETC.

6.0 The generating plant capacity added during the period 1-4-1959 to 31-3-1960 was 343,561 kW as compared to 249,370 kW in the corresponding period of the previous year. Out of this total added capacity 148,000 kW or about 43.5 per cent comprised steam plant; 23,561 kW or 6.8 per cent diesel plant and 172,000 kW or about 49.7 per cent hydro plant. The capacity added in the public sector i.e., in state-owned undertakings including the Electricity Boards, Power Corporations and Municipalities was 340,302 kW or about 99.0 per cent of the total capacity added during the year. The remaining 3,259 kW or about 1.0 per cent was installed by the company-owned undertakings. The plant capacity in the public sector as compared with the previous year increased from 14.2 per cent to 15.4 per cent. The corresponding additions in the private sector registered a fall from 0.8 to 0.25 per cent.

In some of the medium and large thermal stations, 14 turbo alternators of total capacity 148,000 kW and 15 boilers of aggregate evaporating capacity of 823,310 kilograms/hr. were added during the year. The number and capacity of the generating plants and boilers installed in those steam power stations are given below—

## STEAM TURBO ALTERNATORS

Installed at	State	Ownership	No. of units	Capacity of each unit in kW	Total capacity kW
Chola .. .. .	Bombay	Board	1	18,000	18,000
Kandla .. .. .	Bombay	Board	2	3,000	6,000
Porbandar .. .. .	Bombay	Board	2	5,000	10,000
Utran .. .. .	Bombay	Board	3	15,000	45,000
Korba .. .. .	Madhya Pradesh	Board	2	30,000	60,000
Kotah .. .. .	Rajasthan	Board	2	1,000	2,000
Sohwal .. .. .	Uttar Pradesh	Board	1	5,000	5,000
Chandrawal .. .. .	Delhi	Municipal Corporation	1	2,000	2,000
				<b>Total</b>	<b>148,000</b>

## BOILERS

Installed at	State	Ownership	No. of boilers	Evaporating capacity of each unit in 1000 Kgm. per hour	Steam conditions at stop valve end	
					Pressure in *Kgm./sq. Cm.	Temp. °C
Chola .. .. .	Bombay ..	State Electricity Board	1	92.80	29.80	402
Kandla .. .. .	Bombay ..	Do.	2	20.50	31.70	433
Porbander .. .. .	Bombay ..	Do.	3	45.36	42.20	470
Utran .. .. .	Bombay ..	Do.	3	90.72	66.50	522
Korba .. .. .	Madhya Pradesh.	Do.	3	81.65	61.50	512
Kotah .. .. .	Rajasthan	Do.	2	8.16	15.25	316
Sohwal .. .. .	Uttar Pradesh.	Do.	1	20.00	32.00	415
Chandrawal .. .. .	Delhi	D.E.S.U.	..	..	31.70	415

\*1 Kgm./sq.cm = 14.21 lbs./sq. in.

It was reported that 7 water wheel alternator sets of aggregate capacity of 172,000 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**

Installed at	State	Ownership	No. of units	Capacity of each unit in kW
Machkund .. .. .	Andhra Pradesh	Board	3	23,000
Panchet .. .. .	Bihar	Power Corporation	1	40,000
Poringal-kothu .. .. .	Kerala ..	Board ..	1	8,000
Periyar .. .. .	Madras ..	Board ..	1	35,000
Kundah .. .. .	Madras ..	Board ..	1	20,000

In the Diesel Power Stations, 60 (sixty) diesel sets of total capacity of 23,561 kW. were installed during the year. The number and capacity of the generating plants added in some of the important diesel power stations are given below—

**DIESEL POWER PLANT (ABOVE 300 kW EACH)**

Installed at	State	Ownership	No. of units	Capacity of each unit in kW
Jamnagar .. .. .	Bombay ..	Board ..	1	645
Porbander .. .. .	Bombay ..	Board ..	1	1,000
Morvi .. .. .	Bombay ..	Board ..	1	650
Lahori Gate .. .. .	Delhi ..	Municipal Corporation.	3	2,140
Kilokri .. .. .	Delhi ..	Do.	2	2,140
			3	1,012
Aggregate capacity of other diesel plants ..	..	..	..	7,530

It is reported that an aggregate of 8,277 kW of generating capacity was withdrawn from service during the period 1st April 1959 to 31st March 1960. Out of the withdrawn plant 1,600 kW comprised steam plant and 6,677 kW diesel plant.

Installed plant capacity as at the end of the last year of report in some of the undertakings which were not correctly reported at the time of compilation have since been received. It is ascertained that the installed plant capacity as reported for the year 1958-59 has to be increased by 26,296 kW.



### TOTAL POWER PLANT CAPACITY AND ELECTRICITY PRODUCTION.

7.0 The total installed capacity of generating plant as on 31-3-1960 amounted to 3,873 million kW which includes 361,580 kW of plant added during the year of review. The capacity added in the year constituted 10.3 per cent of the total at the beginning of the year.

Total electricity production for the year 1959-60 was 15,033 million kWh and registered an increase of about 15.4 per cent over that in the year 1958-59.

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 PLANTS

Type of plant	Installed capacity of Generators			Generation		Increase in 1959-60 as compared with 1958-59
	As on 31-3-1960	Percentage of total	Increase in 1959-60 as compared with 1958-59	kWh. generated in 1959-60	Percentage of total	
	kW	%	%	(Millions)	%	%
Steam .. ..	2,047,011	52.9	8.9	7,678.420	51.1	12.1
Oil .. ..	296,010	7.6	9.5	327.100	2.2	8.2
Hydro .. ..	1,530,145	39.5	12.4	7,027,424	46.7	19.6
	3,873,166	100.0	10.3	15,032.953	100.0	15.4

The steam power plant capacity during the year increased by 8.9 per cent while the corresponding electricity production rose by 12.2 per cent over that in the previous year. The hydro power plant, the capacity increased by 12.4 per cent and electricity production by 19.6 per cent.

The total steam power plant capacity constituted 52.9 per cent of the total installed power plant capacity and the energy output was 51.1 per cent of the total production in India. The corresponding figures for hydro power plant were 39.5 per cent and 46.7 per cent respectively. The diesel plant represent 7.6 per cent of the total capacity and produced only 2.2 per cent of the total generation by all the undertakings.

### CLASSIFICATION OF INSTALLED POWER PLANT ACCORDING TO TYPE OF GENERATION.

8.0. 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.

TABLE V—GENERATING PLANT—TYPE AND  
(ANALYSIS OF TYPE OF PRIME MOVERS AND

Type of Prime Movers and Generating Plant	Total			Division	
	No. of sets installed	Aggregate capacity of sets	Percentage of total plant installed	Private Sector	
				No. of sets	Aggre- gate capacity
(i) <i>Steam Turbines and—</i>					
A.C. Generators ..	278	2,037,405	52·60	106	936,602
D.C. Generators ..	..	..	..	..	..
Total Steam Turbo-plant ..	278	2,037,405	52·60	106	936,602
(ii) <i>Reciprocating Steam Engines—</i>					
A.C. Generators ..	43	8,875	0·23	20	3,831
D.C. Generators ..	11	731	0·02	3	270
Total Reciprocating Steam Plant ..	54	9,606	0·25	23	4,101
(iii) <i>Oil Engines and—</i>					
A.C. Generators ..	1,698	271,102	7·00	489	74,688
D.C. Generators ..	299	24,908	0·65	116	10,468
Total Oil Engines Plant ..	1,997	296,010	7·65	605	85,156
(iv) <i>Water Turbines and—</i>					
A.C. Generators ..	196	1,530,004	39·50	25	274,960
D.C. Generators ..	6	141	0·00	..	..
Total Water Power Plant ..	202	1,530,145	39·50	25	274,960
GRAND TOTAL:—					
A.C. Generators ..	2,215	3,847,386	99·33	640	1,290,081
D.C. Generators ..	316	25,780	00·67	119	10,738
Total Number of Generators	2,531	3,873,166	100·00	759	1,300,819

INSTALLED CAPACITY AS ON 31-3-1960.  
GENERATING PLANT INSTALLED)

of Total						Type of Prime Movers and generating plant
Public Sector						
Government and State Electricity Board		Power Corporation		Municipality		
No. of sets	Aggregate capacity	No. of sets	Aggregate capacity	No. of sets	Aggregate capacity	
159	874,703	3	172,500	10	53,600	(i) <i>Steam turbines and—</i> A.C. Generators D.C. Generators
..	..	..	..	..	..	
159	874,703	3	172,500	10	53,600	Total steam turbo-plant
23	5,044	..	..	..	..	(ii) <i>Reciprocating steam Engines and—</i> A.C. Generators D.C. Generators
8	461	..	..	..	..	
31	5,505	..	..	..	..	Total Reciprocating steam plant.
1,116	163,738	..	..	93	32,676	(iii) <i>Oil engines and—</i> A.C. Generators D.C. Generators
178	14,294	..	..	5	146	
1,294	178,032	..	..	98	32,822	Total Oil Engines Plant
144	1,142,684	6	104,000	21	8,360	(iv) <i>Water turbines and—</i> A.C. Generators D.C. Generators
6	141	..	..	..	..	
150	1,142,825	6	104,000	21	8,360	Total power plant
1,442	2,186,169	9	276,500	124	94,636	GRAND TOTAL— A.C. Generators D.C. Generators
192	14,896	..	..	5	146	
1,634	2,201,065	9	276,500	129	94,782	Total number of Genera- tors.

As will be seen from the Table V there were 2,531 generating sets of aggregate capacity 3,873,166 kW working in the electric utility power stations in India. Out of these, 278 were steam turbo-alternator sets, 54 reciprocating steam engine sets, 202 water wheels and 1,997 diesel engine sets. Among these 316 sets generated direct current and the remaining 2,215 generated alternating current. The A.C. plant was 99.3 per cent of the total installed capacity.

#### CLASSIFICATION OF PLANT BY OWNERSHIP

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

TABLE VI—INSTALLED CAPACITY AND GENERATION BY OWNERSHIP

Ownership	No. of undertakings owning generating stations	Installed capacity of generators			Generation		Increase in 1959-60 over 1958-59
		As on 31.3.1960	Percentage of grand total	Increase in 1959-60 over 1958-59	kWh generated in 1959-60	Percentage of grand total	
		kW	%	%	(Millions)		%
<i>(i) Public Sector—</i>							
Government and State Electricity Boards	17	2,201,120	56.8	16.2	7,737.001	51.5	18.9
Power Corporation ..	2	276,500	7.1	16.9	1,458.276	9.7	20.7
Municipality ..	23	94,782	2.5	11.6	331.576	2.2	11.0*
<i>(ii) Private Sector—</i>							
Company .. ..	144	1,300,764	33.6	0.4	5,506.100	36.7	9.9
Total ..	186	3,873,166	100.0	10.3	15,032.953	100.0	15.4

\* This increase is mainly due to inclusion of Delhi Undertakings under Municipal category.

The installed plant capacity in the public sector (comprising Government/State Electricity Board Power Corporation and Municipality) at the end of the year was 2,572,402 kW as compared to 1,300,764 kW of plant installed in the private sector. The percentage of capacity installed in the two sectors was 66.4 per cent and 33.6 per cent respectively. The rate of plant installation in the public sector during the past few years has been relatively faster than in the licensed private sector. In the public sector installed plant capacity increased by 16.0 per cent over that in the previous year, as compared to 0.4 per cent in the private sector.

The public sector generated 9,527 million kWh or 63.4 per cent of the total production. In the private sector the production was 5,506 million kWh or 36.6 per cent of the total. The increase in production in the public sector was about 18.8 per cent and that in the private sector was 9.9 per cent over that in the previous year. The net increase in power production from both the sectors was 15.4 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.

TABLE VII—INSTALLED CAPACITY AND GENERATION BY TYPES OF PLANT AND BY OWNERSHIP

Types of plant and ownership	No. of undertakings owning generating stations	Installed capacity of generators		Generation	
		As on 31-3-1960 kW	Percentage of grand total %	kWh generated (millions)	Percentage of grand total %
<b>STEAM—</b>					
<i>Public Sector—</i>					
(a) Government and State Electricity Board.	5	880,219	22.7	2,318.476	15.5
(b) Power Corporation .. .. .	1	172,500	4.5	1,142.746	7.6
(c) Municipality .. .. .	2	53,600	1.4	276.394	1.8
<i>Private Sector—</i>					
Company .. .. .	17	940,692	24.3	3,940.813	26.3
<b>Total for Steam Plant ..</b>	<b>25</b>	<b>2,047,011</b>	<b>52.9</b>	<b>7,678.429</b>	<b>51.2</b>
<b>OIL—</b>					
<i>Public Sector—</i>					
(a) Government and State Electricity Board.	2	177,972	4.6	157.227	1.2
(b) Power Corporation .. .. .	..	..	..	..	..
(c) Municipality .. .. .	17	32,822	0.8	28.072	0.1
<i>Private Sector—</i>					
Company .. .. .	125	85,216	2.2	141.801	0.9
<b>Total for Oil Plant ..</b>	<b>144</b>	<b>296,010</b>	<b>7.6</b>	<b>327.100</b>	<b>2.2</b>
<b>HYDRO—</b>					
<i>Public Sector—</i>					
(a) Government and State Electricity Board.	10	1,142,825	29.5	5,261,798	34.8
(b) Power Corporation .. .. .	1	104,000	2.7	315.530	2.1
(c) Municipality .. .. .	4	8,360	0.2	27.110	0.2
<i>Private Sector—</i>					
Company .. .. .	2	274,960	7.1	1,422.986	9.5
<b>Total for Hydro Plant ..</b>	<b>17</b>	<b>1,530,145</b>	<b>39.5</b>	<b>1,027.424</b>	<b>46.6</b>
<b>Grand Total (Steam, Oil and Hydro.)</b>	<b>186</b>	<b>3,873,166</b>	<b>100.0</b>	<b>15,032.953</b>	<b>100.0</b>

In power systems of the State Electricity Boards/Government, Power Corporations and Municipalities the installed plant capacity represented 22.7 per cent, 4.5 per cent and 1.4 per cent respectively of the total All-India capacity under the Steam Plant 4.6 per cent, 0.0 per cent and 0.8 per cent respectively under the oil plant 29.5 per cent 2.7 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 increased from 27.1 per cent in 1958-59 to 28.6 per cent in 1959-60. The percentage of hydro plant capacity increased from 31.0 per cent to 32.4 per cent in the corresponding period. In the company owned undertakings comprising the private sector, the steam plant capacity decreased from 26.5 per cent in 1958-59 to 24.3 per cent in 1959-60 and hydro plant decreased from 7.9 per cent to 7.1 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.

#### INSTALLED GENERATING PLANT AND POWER PRODUCTION IN THE RESPECTIVE STATES

10.0 The installed plant capacity and power production in the different states as classified according to ownership, i.e. public sector or private sector are given in the Tables VIII and IX without further segregation in the source or nature of generation.

TABLE VIII—SUMMARY OF INSTALLED PLANT CAPACITY AS ON 31-3-1960

Serial No.	States and Union Territories	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	Andhra Pradesh ..	..	277,437	..	..	165	277,602
2	Assam .. ..	..	14,820	..	..	4,440	19,260
3	Bihar .. ..	..	18,784	216,500	..	32,529	267,813
4	Bombay .. ..	..	346,425	..	2,867	608,863	958,155
5	Jammu & Kashmir ..	12,981	..	..	..	..	12,981
6	Kerala .. ..	..	122,262	..	..	..	122,262
7	Madhya Pradesh ..	..	171,487	..	330	24,345	196,162
8	Madras State .. ..	..	403,166	..	..	..	403,166
9	Mysore State .. ..	..	185,859	..	34	4,718	190,611
10	Orissa .. ..	133,651	..	..	..	2,231	135,882
11	Punjab .. ..	..	163,288	..	3,660	4,333	171,281
12	Rajasthan .. ..	..	38,729	..	397	12,002	51,128
13	Uttar Pradesh .. ..	..	292,360	..	8,626	77,013	377,999
14	West Bengal .. ..	..	11,812	60,000	2,640	530,050	604,502
15	Union Territories—						
	(a) Delhi State .. ..	..	..	..	76,228	75	76,303
	(b) Rest .. ..	8,059	..	..	..	..	8,059
	Total .. ..	154,691	2,046,429	276,500	94,782	1,300,764	3,873,166

TABLE IX—SUMMARY OF GENERATION BY OWNERSHIP

(Million kWh)

Serial No.	States and Union Territories	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	Andhra Pradesh ..	..	700·739	..	..	0·330	701·069
2	Assam .. ..	..	20·388	..	..	10·521	30·909
3	Bihar .. ..	..	31·995	1,240·861	..	129·648	1,402·504
4	Bombay State ..	..	1,012·034	..	4·513	2,994·676	4,011·223
5	Jammu and Kashmir	42·523	..	..	..	..	42·523
6	Kerala .. ..	..	487·917	..	..	..	487·917
7	Madhya Pradesh ..	..	291·187	..	..	62·936	354·123
8	Madras State ..	..	1,897·893	..	..	..	1,897·893
9	Mysore State ..	..	990·349	..	0·026	9·338	999·713
10	Orissa .. ..	498·601	..	..	..	3·131	501·732
11	Punjab .. ..	..	758·227	..	13·250	1·313	772·790
12	Rajasthan .. ..	..	78·376	..	0·581	24·748	103·705
13	Uttar Pradesh ..	..	898·753	..	12·032	271·802	1,182·539
14	West Bengal ..	..	20·626	217·415	7·388	1,997·533	2,242·962
15	Union Territories —						
	(a) Delhi State ..	..	..	..	293·786	0·124	293·910
	(b) Rest .. ..	7·441	..	..	..	..	7·441
	Total .. ..	548·565	7,188·436	1,458·278	331·576	5,506·100	15,032·953

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.

TABLE X—INSTALLED STEAM PLANT CAPACITY BY OWNERSHIP AS ON 31-3-1960

(Kilowatt)

Serial No.	States and Union Territories.	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	Andhra Pradesh ..	..	83,500	..	..	..	83,500
2	Assam .. ..	..	..	..	..	..	..
3	Bihar .. ..	..	5,750	172,500	..	27,770	206,020
4	Bombay State ..	..	298,550	..	..	295,100	593,650
5	Jammu & Kashmir ..	1,500	..	..	..	..	1,500
6	Kerala .. ..	..	..	..	..	..	..
7	Madhya Pradesh ..	..	149,982	..	..	19,816	169,798
8	Madras State ..	..	112,500	..	..	..	112,500
9	Mysore State ..	..	..	..	..	..	..
10	Orissa .. ..	5,776	..	..	..	..	5,776
11	Punjab .. ..	..	7,276	..	..	..	7,276
12	Rajasthan .. ..	..	29,250	..	..	..	29,250
13	Uttar Pradesh ..	..	179,285	..	..	70,525	249,810
14	West Bengal ..	..	850	..	..	527,481	528,331
15	Union Territories —						
	(a) Delhi State ..	..	..	..	53,600	..	53,600
	(b) Rest .. ..	6,000	..	..	..	..	6,000
	<b>Total ..</b>	<b>13,276</b>	<b>866,943</b>	<b>172,500</b>	<b>53,600</b>	<b>940,692</b>	<b>2,047,011</b>



TABLE XI—INSTALLED OIL PLANT CAPACITY BY OWNERSHIP AS ON 31-3-1960

Serial No.	States and Union Territories	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	Andhra Pradesh ..	..	22,537	..	..	165	22,702
2	Assam ..	..	6,420	..	..	3,570	9,990
3	Bihar ..	..	13,034	..	..	4,759	17,793
4	Bombay State ..	..	41,947	..	2,867	39,777	84,591
5	Jammu & Kashmir ..	869	..	..	..	..	869
6	Kerala ..	..	4,762	..	..	..	4,762
7	Madhya Pradesh ..	..	21,505	..	330	4,529	26,364
8	Madras State ..	..	516	..	..	..	516
9	Mysore State ..	..	7,659	..	34	4,718	12,411
10	Orissa ..	4,870	..	..	..	2,231	7,101
11	Punjab ..	..	11,772	..	1,910	4,333	18,015
12	Rajasthan ..	..	9,479	..	397	12,002	21,878
13	Uttar Pradesh ..	..	25,235	..	3,976	6,488	35,699
14	West Bengal ..	..	5,714	..	680	2,569	8,963
15	Union Territories —						
	(a) Delhi State ..	..	..	..	22,628	75	22,703
	(b) Rest ..	1,653	..	..	..	..	1,653
	Total ..	7,392	170,580	..	32,822	85,216	296,010

TABLE XII—INSTALLED HYDRO PLANT CAPACITY BY OWNERSHIP AS ON 31-3-1960

(Kilowatt)

Serial No.	States and Union Territories	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	Andhra Pradesh ..	..	171,400	..	..	..	171,400
2	Assam .. ..	..	8,400	..	..	870	9,270
3	Bihar .. ..	..	..	44,000	..	..	44,000
4	Bombay State ..	..	5,824	..	..	274,090	279,914
5	Jammu & Kashmir ..	10,612	..	..	..	..	10,612
6	Kerala .. ..	..	117,500	..	..	..	117,500
7	Madhya Pradesh ..	..	..	..	..	..	..
8	Madras State ..	..	290,150	..	..	..	290,150
9	Mysore State ..	..	178,200	..	..	..	178,200
10	Orissa .. ..	123,005	..	..	..	..	123,005
11	Punjab .. ..	..	144,240	..	1,750	..	145,990
12	Rajasthan .. ..	..	..	..	..	..	..
13	Uttar Pradesh ..	..	87,840	..	4,650	..	92,490
14	West Bengal ..	..	5,248	60,000	1,960	..	67,208
15	Union Territories—						
	(a) Delhi State ..	..	..	..	..	..	..
	(b) Rest .. ..	406	..	..	..	..	406
	Total .. ..	134,023	1,008,802	104,000	8,360	274,960	1,530,145

In Bombay, West Bengal, Uttar Pradesh, Bihar, Madhya Pradesh, Madras, Andhra Pradesh and Delhi States, the aggregate steam plant capacity was 1,997,209 kW and accounted for about 97·8 per cent of the total installed steam plant capacity. The aggregate diesel plant capacity in the States of Bombay, Uttar Pradesh, Madhya Pradesh, Delhi, Andhra Pradesh, Rajasthan, Punjab and Bihar was 249,745 kW representing about 84·5 per cent of the total oil plant capacity. The aggregate capacity of hydro plant in the States of Madras, Bombay, Mysore, Andhra Pradesh, Punjab, Orissa, Kerala, Uttar Pradesh and West Bengal was 1,465,857 kW or about 96 per cent of the total hydro installation in the country.

Tables XIII, XIV and XV separately give on statewise basis the generation of electricity by steam, diesel and hydro plant respectively.

TABLE XIII—ELECTRICITY GENERATED BY STEAM PLANT DURING 1959-60

Serial No.	States and Union Territories	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	Andhra Pradesh ..	..	116·673	..	..	..	116·673
2	Assam .. ..	..	..	..	..	..	..
3	Bihar .. ..	..	2·399	1,142·746	..	115·061	2,602·206
4	Bombay State ..	..	936·691	..	..	1,513·909	2,450·600
5	Jammu & Kashmir	..	..	..	..	..	—
6	Kerala .. ..	..	..	..	..	..	—
7	Madhya Pradesh ..	..	274·152	..	..	57·367	331·519
8	Madras State ..	..	439·336	..	..	..	439·336
9	Mysore State ..	..	..	..	..	..	—
10	Orissa .. ..	1·125	..	..	..	..	1·125
11	Punjab .. ..	..	8·939	..	..	..	8·939
12	Rajasthan ..	..	65·811	..	..	..	65·811
13	Uttar Pradesh ..	..	469·766	..	..	259·666	729·432
14	West Bengal ..	..	..	..	..	1,994·810	1,994·810
15	Union Territories—						
	(a) Delhi State ..	..	..	—	276·394	..	276·394
	(b) Rest ..	3·584	..	..	..	..	3·584
	Total ..	4·709	2,313·767	1,142·746	276·394	3,940·813	7,678·429

M/B83CWPC(PW)—(a)

TABLE XIV—ELECTRICITY GENERATED BY OIL PLANT DURING 1959-60

Serial No.	State and Union Territories	Public Sector				Private Sector
		Government	State Electricity Board	Power Corporation	Municipality	Company
1	Andhra Pradesh ..	..	6·677	..	..	0·330
2	Assam .. ..	..	7·017	..	..	6·100
3	Bihar .. ..	..	29·596	..	..	14·587
4	Bombay State ..	..	53·285	..	4·513	62·202
5	Jammu & Kashmir	0·081	..	..	..	..
6	Kerala .. ..	..	0·106	..	..	..
7	Madhya Pradesh ..	..	17·035	..	..	5·569
8	Madras State ..	..	0·206	..	..	..
9	Mysore State ..	..	7·599	..	0·026	9·338
10	Orissa .. ..	3·867	..	..	..	3·131
11	Punjab .. ..	..	0·280	..	1·962	1·313
12	Rajasthan .. ..	..	12·565	..	0·581	24·748
13	Uttar Pradesh ..	..	12·030	..	2·363	11·636
14	West Bengal ..	..	4·016	..	1·235	2·723
15	<i>Union Territories—</i>					
	(a) Delhi State ..	..	..	..	17·392	0·124
	(b) Rest .. ..	2·867	..	..	..	..
	<b>Total ..</b>	<b>6·815</b>	<b>150·412</b>	<b>..</b>	<b>28·072</b>	<b>141·801</b>

TABLE XV—ELECTRICITY GENERATED BY HYDRO PLANT DURING 1959-60

Serial No.	States and Union Territories	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	Andhra Pradesh ..	..	577·389	..	..	..	577·389
2	Assam .. ..	..	13·371	..	..	4·421	17·792
3	Bihar .. ..	..	..	98·115	..	..	98·115
4	Bombay State ..	..	22·058	..	..	1,418·565	1,440·623
5	Jammu & Kashmir	42·442	..	..	..	..	42·442
6	Kerala .. ..	..	487·811	..	..	..	487·811
7	Madhya Pradesh ..	..	..	..	..	..	..
8	Madras State ..	..	1,458·351	..	..	..	1,458·351
9	Mysore State ..	..	982·750	..	..	..	982·750
10	Orissa .. ..	493·609	..	..	..	..	493·609
11	Punjab .. ..	..	749·008	..	11·288	..	760·296
12	Rajasthan ..	..	..	..	..	..	..
13	Uttar Pradesh ..	..	417·409	..	9·669	..	427·078
14	West Bengal ..	..	16·610	217·415	6·153	..	240·178
15	<i>Union Territories—</i>						
	(a) Delhi State ..	..	..	..	..	..	..
	(b) Rest ..	0·990	..	..	..	..	990
	<b>Total ..</b>	<b>537·041</b>	<b>4,724·757</b>	<b>315·530</b>	<b>27·110</b>	<b>1,422·986</b>	<b>7,027·424</b>

Table XVI gives statewise the installed plant capacity and power generation on the basis of 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 1.19 kW as against 1.076 kW in the previous year. The electrical energy generated per square Kilometre of area works out to 4,609 kWh as against 3,982 kWh in the previous year. The net increase in capacity per square Kilometre was 10.3 per cent and the net increase in production per square Kilometre was 15.4 per cent over the corresponding figure for the previous year.

The installed plant capacity per thousand of population was 9.0 kW as against 8.3 kW in the previous year whereas the power generated per thousand of population becomes 34,990 kWh as against 30,823 kWh.

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

Serial No.	States and Union Territories	Population (Million)	Area (Square kilometres)	Total installed capacity (kW)	Generating plant installed per 1,000 of population (kW)	Generating plant installed per square kilometre (kW)	Total kWh generated (Millions)	kWh generated per 1,000 of population	kWh generated per square kilometre
1	Andhra Pradesh ..	35.50	273,763	277,602	7.802	1.014	701.069	19,720	2,560.861
2	Assam .. ..	11.56	220,311	19,260	1.670	0.087	30.909	2,610	140.292
3	Bihar .. ..	45.70	173,823	267,813	5.850	1.541	1,402.504	30,600	8,068.575
4	Bombay State ..	58.93	493,830	958,155	16.260	1.940	4,011.223	68,000	8,122.679
5	Jammu & Kashmir	3.55	222,380	12,981	3.660	0.068	42.523	12,100	191.218
6	Kerala .. ..	16.54	38,687	122,262	7.400	3.161	487.917	29,550	12,811.911
7	Madhya Pradesh ..	31.76	443,667	196,162	6.180	0.442	354.123	11,185	798.173
8	Madras State ..	33.30	129,951	403,166	12.120	3.102	1,897.893	56,900	14,604.681
9	Mysore State ..	23.14	193,890	190,611	8.250	0.983	999.713	42,350	5,156.083
10	Orissa .. ..	17.24	156,047	135,882	7.860	0.871	501.732	29,130	3,215.200
11	Punjab .. ..	19.89	121,891	171,281	8.630	1.405	772.790	38,850	6,340.009
12	Rajasthan .. ..	19.73	342,134	51,128	2.590	0.149	103.705	5,250	303.112
13	Uttar Pradesh ..	72.09	293,765	377,999	5.200	1.287	1,182.539	15,690	4,028.072
14	West Bengal ..	34.11	87,762	604,502	17.750	6.888	2,242.962	65,710	25,557.325
15	Union Territories—								
	(a) Delhi State ..	2.55	1,484	76,303	29.900	51.417	293.910	114,710	198,052.660
	(b) Rest .. ..	3.50	69,489	8,059	2.310	0.116	7.441	2,125	107.082
	All India .. ..	429.72	3,262,874	3,873,166	9.030	1.187	15,032.953	34,990	4,609.244

The plant capacity per square kilometre was 51.4 kW in Delhi State (comprising mainly Delhi City), 6.8 kW in West Bengal, 3.2 kW in Kerala, 3.1 kW in Madras State, 1.9 kW in Bombay State, 1.6 kW in Bihar, 1.4 kW in Punjab, 1.3 kW in Uttar Pradesh and 1.0 kW in Andhra Pradesh respectively.

In the other States the installed plant capacity per square kilometre was less than one kW.

Power generated per thousand of population was 114,710 kWh. In Delhi State (comprising mainly Delhi City), 68,000 kWh in Bombay 65,710 kWh in West Bengal 56,900 kWh in Madras State, 42,350 kWh in Mysore State, 38,850 kWh. in Punjab, 30,600 kWh in Bihar, 29,550 kWh in Kerala. In the other states generation per thousand of population was less than 30,000 kWh.

On the basis of per square kilometre of the area the power produced was 198,053 kWh in Delhi State (comprising mainly Delhi City) 25,557 kWh in West Bengal, 14,604 kWh in Madras State, 12,611 kWh in Kerala 8,122 kWh in Bombay State, 8,069 kWh in Bihar, 6,340 kWh in Punjab, 5,156 kWh in Mysore State and 4,028 kWh in Uttar Pradesh. In the other states power produced per square kilometre of area was below 3,500 kWh per annum.

#### 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		
	No. of undertakings owning generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Millions)	No. of undertakings owning generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Millions)	No. of undertakings owning generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Millions)
0 to 250	..	..	..	12	1,300	1.520	..	..	..
251 to 500	1	456	1.350	2	614	..	..	..	..
501 to 750	1	742	1.412	3	2,655	3.101	..	..	..
751 to 1,000	1	861	1.063	1	809	1.604	..	..	..
1,001 to 2,500	..	1,100	1.386	1	1,216	1.960	..	..	..
2,501 to 5,000	..	4,900	2.198	2	6,300	20.638	..	..	..
5,001 to 10,000	..	..	..	1	5,660	8.967	..	..	..
10,001 to 25,000	2	58,397	115.532	..	..	..	..	..	..
25,001 to 50,000	1	38,729	78.376	..	..	..	..	..	..
50,001 to 100,000	..	..	..	1	76,228	293.786	1	60,000	217.415
100,001 and above	9	2,095,935	7,536.152	..	..	..	1	216,500	1,240.861
Grand Total	15	2,201,120	7,737.469	23	94,782	331.576	2	276,500	1,458.276

TABLE XVIII—CLASSIFICATION OF GENERATING UNDERTAKINGS OF PUBLIC AND PRIVATE SECTOR IN TERMS OF PLAN CAPACITY

Installed plant capacity (kW)	Public Sector			Private Sector			Total		
	No. of undertakings owning generating stations	Aggregate installed capacity (kW)	Total kWh. generated by the group (Millions)	No. of undertakings owning generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Millions)	No. of undertakings owning generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Millions)
0 to 250	12	1,300	1-520	50	6,965	5-497	62	8,265	7-017
251 to 500	3	1,070	1-350	28	14,672	15-716	31	15,742	17-066
501 to 750	4	3,397	4-513	19	14,142	14-748	23	17,539	19-261
751 to 1,000	2	1,670	2-667	6	7,003	10-833	8	8,673	13-500
1,001 to 2,500	1	2,316	3-346	20	34,234	79-841	21	36,550	83-187
2,501 to 5,000	2	11,200	22-836	5	22,255	43-833	7	33,455	66-669
5,001 to 10,000	1	5,660	8-967	1	13,575	45-037	2	19,235	54-004
10,001 to 25,000	2	58,397	115-532	8	129,500	469-441	10	187,897	584-973
25,001 to 50,000	1	38,729	78-376	1	45,000	150-931	2	83,729	229-307
50,001 to 100,000	2	136,228	511-201	..	..	..	2	136,228	511-201
100,001 and Above	10	2,312,435	8,777-013	3	1,013,250	4,670-032	13	3,325,685	13,446-545
Grand Total ..	40	2,572,402	9,527-321	141	1,300,596	5,505-909	181	3,872,998	15,032-953

In the public sector, 21 undertakings had the installed capacity less than or equal to 1,000 kW each and these together constituted 0-29 per cent of the total plant capacity installed by public sector, similarly 4 undertakings with capacities each in the range from 1,001 to 10,000 kW and formed 0-75 per cent and 15 undertakings each above 10,000 kW together represented 98-96 per cent of the total installed capacity.

In the private sector, 103 undertakings had installed capacity in the range upto 1,000 kW. each, together forming 3-28 per cent of the total installation in that sector while in the capacity range 1,001 kW to 10,000 kW 26 undertakings together formed 5-4 per cent and only 12 undertakings each having installed capacity in the range above 10,000 kW together constituted 91-32 per cent of the total installed plant capacity in the private sector.

The plant installed in 27 undertakings (15 in the public sector and 12 in the private sector) each capacity in the range above 10,000 kW having an aggregate installed plant capacity of 3,733,539 kW constituted 96-5 per cent of the total installed capacity in the country. The corresponding generation by the plant falling in this group was 98-4 per cent of total generation by all electricity undertakings in the country. The rest of the undertakings produced only 1-6 per cent of the total generation.



## SIZES OF INDIVIDUAL GENERATING SETS.

12-0] The largest capacity of steam, oil and hydro sets in operation in India were 62,500 kW 2,000 kW and 40,000 kW respectively.

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

TABLE XIX—GENERATING PLANT—SIZES OF UNITS SUMMARY OF THE SIZES OF GENERATOR INSTALLED.

Size of generating sets	Total			Division of total							
	Number of generating sets	Aggregate capacity of sets	Percentage of total plant	Public Sector						Private Sector	
				Government and State Electricity Board		Power Corporation		Municipality		Company	
				Number of sets	Aggregate capacity	Number of sets	Aggregate capacity	Number of sets	Aggregate capacity	Number of sets	Aggregate capacity
(1) A.C. Plant under 1,000 kW. ..	1,810	277,813	7.15	1,193	180,228	..	..	97	17,688	520	79,897
1,000 kW. but under 2,000 kW. ..	82	100,393	2.74	43	53,572	..	..	13	14,148	26	32,673
2,000 kW. but under 5,000 kW. ..	100	325,475	8.40	60	196,775	2	4,000	8	18,200	30	106,500
5,000 kW. but under 10,000 kW. ..	88	567,900	14.70	65	407,550	..	..	6	44,600	17	115,750
10,000 kW. but under 15,000 kW. ..	58	674,600	17.40	42	485,100	..	..	..	..	16	189,500
15,000 kW. but under 20,000 kW. ..	31	498,750	12.90	20	330,000	..	..	..	..	11	168,750
20,000 kW. but under 30,000 kW. ..	23	505,000	13.01	10	233,000	3	60,000	..	..	10	212,000
30,000 kW. but under 50,000 kW. ..	17	550,000	14.10	9	300,000	1	40,000	..	..	7	210,000
50,000 kW. and over ..	6	347,500	8.94	..	..	3	172,500	..	..	3	175,000
<b>Total A.C. Plant ..</b>	<b>2,215</b>	<b>3,847,431</b>	<b>99.34</b>	<b>1,442</b>	<b>2,186,225</b>	<b>9</b>	<b>276,500</b>	<b>124</b>	<b>94,636</b>	<b>640</b>	<b>1,290,070</b>
(2) D.C. Plant under 100 kW. ..	216	7,999	0.21	135	4,759	..	..	5	146	76	3,094
100 kW. but under 200 kW. ..	62	7,530	0.19	38	4,689	..	..	..	..	24	2,841
200 kW. but under 500 kW. ..	37	9,706	0.25	19	5,448	..	..	..	..	18	4,258
500 kW. and over ..	1	500	0.01	..	..	..	..	..	..	1	500
<b>Total D.C. Plant ..</b>	<b>316</b>	<b>25,735</b>	<b>0.66</b>	<b>192</b>	<b>14,896</b>	<b>..</b>	<b>..</b>	<b>5</b>	<b>146</b>	<b>119</b>	<b>10,693</b>
<b>Total Generating Plant ..</b>	<b>2,531</b>	<b>3,873,166</b>	<b>100.00</b>	<b>1,634</b>	<b>2,201,121</b>	<b>9</b>	<b>276,500</b>	<b>129</b>	<b>94,782</b>	<b>759</b>	<b>1,300,763</b>

Of the total installed capacity all the 2,215 A.C. sets of aggregate capacity of 3,847,431 kW and 316 D.C. generating sets of aggregate capacity 25,735 kW represented 99.34 per cent and 0.66 per cent respectively.

The 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 1,575 A.C. sets and 197 D.C. sets respectively. The corresponding numbers in the private sector were 640 A.C. and 119 D.C. sets.

#### A.C. AND D.C. GENERATION

13·0 Out of 834 generating stations, 724 had A.C. generating plants, 91 had only D.C. generating plants and the remaining 19 had both A.C. and D.C. generating plants. The A.C. generating sets together produced 99·86 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 .. ..	724	3,834,819	99·00	14,943·706	99·40
Alternating Current and Direct current .. ..	19	A.C. 12,612	0·335	30·987	0·21
		D.C. 2,999	0·085	1·632	0·01
Direct Current only .. ..	91	22,736	0·58	27·498	0·18
Total .. ..	834	A.C. 3,847,431	99·335	15,003·823	99·80
		D.C. 25,735	0·665	29·130	0·20
GRAND TOTAL .. ..	834	3,873,166	100·00	15,032·953	100·00

#### CLASSIFICATION OF POWER STATIONS ACCORDING TO THEIR INSTALLED PLANT CAPACITY

14·0 Table XXI gives the distribution of steam power stations according to their installed capacity.

TABLE XXI—ANALYSIS OF STEAM POWER STATIONS IN TERMS OF GENERATING PLANT CAPACITY, BOILER PLANT CAPACITY, ETC.

Generating plant capacity	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
Upto 250 .. ..	3	172	1·639	2·1	12·7
251 to 500 .. ..	5	1,745	1·125	18·5	10·6
501 to 750 .. ..	5	3,256	3·866	28·9	8·9
751 to 1,000 .. ..	4	3,800	13·716	53·6	14·1
1,001 to 2,500 .. ..	9	15,450	102·530	158·9	10·3
2,501 to 5,000 .. ..	12	49,200	165·630	352·5	7·2
5,001 to 10,000 .. ..	12	92,533	1,005·998	608·2	6·6
10,001 to 25,000 .. ..	21	334,505	775·505	1,894·0	5·7
25,001 to 50,000 .. ..	6	211,000	5,608·420	876·4	4·1
Over 50,000 .. ..	13	1,335,350	6,905·9	10,899·0	5·2
Total .. ..	90	2,047,011	7,678·429	10,899·0	5·3

There were 40 stations with installed plant capacity above 10,000 kW and among them 13 stations had capacity each above 50,000 kW. A group of other 33 stations had installed capacity between 1,000 to 10,000 kW. The remaining 17 stations had capacity below 1,000 kW and among them 3 stations were of capacity less than or upto 250 kW each.

The 40 stations having capacity each above 10,000 kW accounted for 96.3 per cent of the total power generated by all the steam power stations. Out of this the 13 stations of a capacity above 50,000 kW each produced by themselves 73 per cent of the total power produced by the steam power stations. Whereas 33 stations in the installed capacity group of 1,001 kW to 10,000 kW together generated 3.6 per cent, the remaining 17 power stations each of capacity less than 1,000 kW generated in all only 0.1 per cent of the total power produced in all the steam stations in India.

In the last column of Table XXI are given average steam 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 14.1 kilograms to 8.9 kilograms per kW of generating plant installed, the higher range of steam capacity per kW is ascribed to a number of small reciprocating steam engine sets installed in some of the old power stations.

In the capacity range above 1,000 kW the boiler capacity varies from 10.3 kilograms to 4.1 kilograms per kW of generating plant installed. The steam pressures adopted in the power stations in India range from 7 kilograms per square centimetre to 88 kilograms per square centimetre. Only one station, i.e., Trombay has adopted a pressure of 88 kilograms per square centimetre.

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

Installed Capacity (kW)	No. of generating stations	Aggregate Installed capacity (kW)	Total kWh generated by the group (Millions)
Upto 250 .. .. .	387	33,187	29.430
251 to 500 .. .. .	126	45,299	45.064
501 to 750 .. .. .	69	39,072	41.241
751 to 1,000 .. .. .	36	25,553	40.290
1,001 to 2,500 .. .. .	49	77,836	113.107
2,501 to 5,000 .. .. .	10	33,915	34.636
Above 5,000 .. .. .	6	41,148	23.332
Total .. .. .	683	296,010	327.100

387 stations out of a total of 683 had each capacity less than or upto 250 kW and their aggregate capacity was 11.3 per cent of the total installed diesel plant capacity in the country. 280 stations each of capacity in the range 251 to 2,500 kW and of aggregate capacity of 187,760 kW accounted for 63.4 per cent and 16 stations each of capacity above 2,500 kW together accounted for 26.5 per cent of total installed diesel plant capacity.

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

Installed capacity (kW)	Number of generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Millions)	Average plant factor
				%
Upto 250 .. .. .	12	1,153	1,745	17.3
251 to 500 .. .. .	..	..	..	..
501 to 750 .. .. .	1	600	2,974	56.6
751 to 1,000 .. .. .	1	870	4,421	58.0
1,001 to 2,500 .. .. .	7	9,372	36,530	44.5
2,501 to 5,000 .. .. .	9	33,200	171,209	58.9
5,001 to 10,000 .. .. .	2	14,400	39,371	31.2
10,001 to 25,000 .. .. .	7	98,100	460,859	53.7
25,001 to 50,000 .. .. .	12	468,100	2,037,020	49.6
Over 50,000 .. .. .	10	904,350	4,273,295	53.9
Total .. .. .	61	1,530,145	7,027,424	52.5

There were only 10 stations each having installed capacity above 50,000 kW and totalling to an aggregate capacity of 904,350 kW which accounted for 59 per cent of the total installed hydro plant capacity and produced 60.8 per cent of the total hydro generation. 19 stations in the range 10,001 to 50,000 kW with aggregate capacity of 566,200 kW accounted for 37 per cent of total capacity and produced 36.1 per cent of the total hydro generation. As many as 32 other stations each of capacity in the range 10,000 kW and below totalling to an aggregate installed capacity of 59,595 kW represented only 4.0 per cent of the total hydro plant capacity and produced 3.1 per cent of the total hydro power.

The average plant factor of the hydro stations varied between 17.3 per cent to 58.9 per cent. The lowest plant factor was registered in stations of capacity 250 kW or below.

#### FUEL CONSUMPTION

15.0 Fuel and diesel oil consumed in the steam and diesel power stations in India for the year 1959-60 are given in table XXIV.

TABLE XXIV—FUEL CONSUMPTION

Type of Stations	Total Fuel Consumption		Total kWh generated (Millions)	Average fuel consumption in Kg/kWh generated
	Coal (metric tons)	Oil (metric tons)		
Steam Power Stations .. .. .	5,759,000	..	7,678,429	0.75
Oil Power Stations .. .. .	..	99,880	327,100	0.31

5,759,000 metric tons of fuel (mostly coal) and 99,880 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 12.5 per cent over the consumption in the previous year.

The average coal consumption per kWh generated by steam plants (including reciprocating steam plants) was 0.75 kilograms which corresponds to the national average heat rate of about 4,440 kilo-calories per kWh. There appears to be no significant improvement in the thermal steam stations during the year. The lowest coal consumption was 0.51 kilograms/kWh and lowest heat rate registered was 2,840 kilo-calories/kWh.

In the diesel stations, diesel oil consumption increased by 10.1 per cent and power production increased by 8.2 per cent. The national average oil consumption for the diesel power stations was 0.31 kilograms per kWh. There appears to be no significant improvement in the thermal efficiency of the station. A slight increase in specific consumption this year may be due to discontinuance of a few large diesel engines due to change over to bulk power purchases from other sources.

#### THERMAL EFFICIENCY OF STEAM POWER STATIONS

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

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

Overall Thermal Efficiency	No. of generating Stations	Aggregate installed capacity (kW)	kWh generated by the group (Millions)
Under 10%	42	141,881	155.619
Above 10% but below 12.5%	11	152,610	425.397
Above 12.5% but below 15%	12	212,125	423.779
Above 15% but below 17.5%	8	235,045	988.029
Above 17.5% but below 20%	8	521,350	1,722.989
Above 20% but below 22.5%	3	245,500	739.557
Above 22.5%	6	538,500	3,223.059
Total	90	2,047,011	7,678.429

The average overall thermal efficiency of all the steam power stations was 19.5 per cent.

Out of 90 total steam stations, 42 stations operated with overall thermal efficiencies below 10 per cent but these stations together had only 7.0 per cent of the total steam power plant capacity and generated about 2.0 per cent of the total electricity produced by all the steam stations. Only 9 large stations which have in aggregate 784,000 kW of plant capacity operated at thermal efficiencies above 20 per cent. The highest thermal efficiency registered was 30.1 per cent.

Table XXVI gives the efficiencies of steam stations classified under different capacity groups. The table also gives corresponding information on plant factor, aggregate capacity and generation for each group.

TABLE XXVI—CLASSIFICATION OF STEAM POWER STATIONS IN TERMS OF AVERAGE PLANT FACTOR THERMAL EFFICIENCY, ETC.

Generating Plant Capacity (kW)	No. of generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Millions)	Average overall efficiency %	Average plant factor %
Up to 250 .. .. .	3	172	..	..	..
251 to 500 .. .. .	5	1,745	1·639	5·9	10·7
501 to 750 .. .. .	5	3,256	1·125	3·9	3·9
751 to 1,000 .. .. .	4	3,800	3·866	5·3	11·6
1,001 to 2,500 .. .. .	9	15,450	13·716	6·2	10·1
2,501 to 5,000 .. .. .	12	49,200	102·530	10·0	23·8
5,001 to 10,000 .. .. .	12	92,533	165·630	11·3	20·4
10,001 to 25,000 .. .. .	21	334,505	1,005·998	13·5	34·3
25,001 to 50,000 .. .. .	6	211,000	775·505	18·9	42·0
Over 50,000 .. .. .	13	1,335,350	5,608·420	22·4	47·9
Total .. .. .	90	2,047,011	7,678·429	19·5	42·8

Table XXVII gives the specific consumption for diesel power stations classified according to their installed capacity and fuel oil consumption.

TABLE XXVII—ANALYSIS OF DIESEL STATIONS IN TERMS OF PLANT CAPACITY, SPECIFIC CONSUMPTION AND AVERAGE PLANT FACTOR, ETC.

Generating Plant Capacity (kW)	No. of generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Millions)	Fuel consumption in metric tons	Fuel consumption Kilograms/ kWh generated	Average plant factor %
Up to 250 .. .. .	387	33,187	29·430	11,445·3	0·389	10·1
251 to 500 .. .. .	126	45,299	45·064	15,877·1	0·352	11·4
501 to 750 .. .. .	69	39,072	41·241	14,355·5	0·348	12·3
751 to 1,000 .. .. .	36	25,553	40·290	11,953·9	0·296	18·0 <del>71·1</del>
1,001 to 2,500 .. .. .	49	77,836	113·107	31,677·6	0·286	10·6
2,501 to 5,000 .. .. .	10	33,915	34·636	8,752·9	0·253	11·7
Above 5,000 .. .. .	6	41,148	23·332	5,727·7	0·245	6·5
GRAND TOTAL .. .. .	683	296,010	327·100	99,790·0	0·310	12·7

## MAXIMUM DEMAND OF POWER SYSTEMS

17.0. The sum of the highest annual maximum demands on individual systems of public electric utilities amounted to 2,931,360 kW which was 75.8 per cent of the total plant capacity as compared with 72.4 per cent in the previous year. The aggregate demands in the public and private sectors were 75.0 and 77.0 per cent respectively of the installed capacity in each sector as against 72.6 per cent and 72.0 per cent respectively in the previous year.

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

TABLE XXVIII—CLASSIFICATION OF UNDERTAKINGS IN TERMS OF MAXIMUM DEMAND

Maximum demand on generating undertakings	Public Sector						Private Sector		Total	
	Government and State Electricity Board		Power Corporation		Municipality		Company			
	Number of Undertakings owning generating stations	Aggregate Maximum Demand	Number of Undertakings owning generating stations	Aggregate Maximum Demand	Number of Undertakings owning generating stations	Aggregate Maximum Demand	Number of Undertakings owning generating stations	Aggregate Maximum Demand	Number of Undertakings owning generating stations	Aggregate Maximum Demand
Up to 50 ..	..	..	..	..	7	92	27	227	34	319
51 to 250 ..	..	..	..	..	6	731	49	8,288	55	7,019
251 to 500 ..	1	422	..	..	5	1,687	25	8,383	31	10,492
501 to 1,000 ..	2	1,651	..	..	1	..	12	10,995	15	12,646
1,001 to 2,500 ..	..	2,000	..	..	..	525	14	21,447	14	23,972
2,501 to 5,000 ..	..	..	..	..	3	8,654	1	9,100	4	17,754
5,001 to 10,000 ..	1	21,405	..	..	..	..	5	47,750	6	69,155
10,001 to 25,000	2	27,052	..	..	..	..	4	47,450	6	74,502
25,001 to 50,000	..	..	..	..	..	..	1	27,200	1	27,200
50,001 to 100,000	3	237,009	1	59,000	1	56,000	..	..	5	352,009
Over 100,000 ..	6	1,277,992	1	232,500	..	..	3	825,800	10	2,336,292
Total ..	15	1,567,531	2	291,500	23	67,689	141	1,004,640	181	2,931,360

120 undertakings of the total 181 generating undertakings or 66 per cent registered annual maximum demands each of 500 kW or less. The annual maximum demands in excess of 10,000 kW were incident on only 22 undertakings (i.e., 14 in the public sector and 8 in the private sector) which together met about 95.4 per cent (64.4 per cent in public sector and 31.0 per cent in private sector) of the total demand for power in the country.

Out of these 22 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 78.0 per cent of the total All-India demand for power.

## CLASSIFICATION OF UNDERTAKINGS ACCORDING TO POWER GENERATION

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

TABLE XXIX—CLASSIFICATION OF UNDERTAKINGS ACCORDING TO kWh GENERATED

kWh generated Million	Government and State Electricity Board		Power Corporation		Municipality		Company		Total	
	Number of undertakings	Total kWh generated by the group	Number of undertakings	Total kWh generated by the group	Number of undertakings	Total kWh generated by the group	Number of undertakings	Total kWh generated by the group	Number of undertakings	Total kWh generated by the group
0 to 0.250 ..	..	..	..	..	12	0.855	49	4.029	61	4.884
0.251 to 0.500 ..	..	..	..	..	2	0.941	18	7.201	20	8.142
0.501 to 1.000 ..	..	..	..	..	2	1.783	25	20.137	27	21.920
1.001 to 2.500 ..	3	7.441	..	..	3	4.606	15	27.300	21	39.347
2.501 to 5.000 ..	..	..	..	..	..	..	11	41.863	11	41.863
5.001 to 10.000 ..	..	..	..	..	2	16.355	8	56.859	10	73.214
10.001 to 25.000 ..	1	41.014	..	..	1	13.250	2	32.320	4	86.584
25.001 to 50.000 ..	1	74.518	..	..	..	..	4	128.994	5	203.512
50.001 to 100.000 ..	1	78.376	..	..	..	..	5	366.434	6	444.810
100.001 to 250.000 ..	..	..	1	217.415	..	..	1	150.931	2	368.346
250.001 to 500.000 ..	3	1,277.705	..	..	1	293.786	..	..	4	1,571.491
500.001 to 1,000.000 ..	4	3,348.021	..	..	..	..	1	766.643	5	4,114.663
1,000.001 & above ..	2	2,909.927	1	1,240.861	..	..	2	3,903.380	5	8,054.177
Total ..	15	7,737.001	2	1,458.276	23	331.576	141	5,506.100	181	15,032.953

Only 16 undertakings (4 in the private and 12 in the public sector) generated each in excess of 100 million kWh and together accounted for about 94 per cent of total electricity produced in the country. The remaining 165 undertakings generated 6 per cent of the total energy output.

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

19.0 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 in India for the year under review.

TABLE XXX—AVERAGE OUT-PUT, LOAD FACTOR AND DEMAND FACTOR

Type of power plant	Aggregate installed capacity of generating plant (kW)	kWh generated (Millions)	Aggregate of maximum demand of individual generating stations (kW)	kWh generated per kW of plant capacity (kWh)	Combined load factor based* on col. (3) & (4) %	Plant demand factor %
Steam .. ..	2,047,011	7,678.429	1,518,418	3,751	57.7	74.2
Oil .. ..	296,010	327.100	111,616	1,105	33.5	37.7
Hydro .. ..	1,530,145	7,027.424	1,301,326	4,593	61.6	85.0
Total .. ..	3,873,166	15,032.953	2,931,360	3,881	58.6	75.7

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



The All-India average load factor for all the steam power stations has fallen from 61.0 in the previous year to 57.7 in the current year and that for the hydro stations has improved from 57.3 per cent in the year to 61.6 per cent in the current year. The fall in the load factor of the steam stations is due to part of the demand becoming incident in the later half of the year. A few large steam stations operated at load factors from 60 to 80 per cent whereas in hydro stations the average load factors ranged from 55 to 75 per cent.

The All-India average annual output per kW of installed plant capacity of hydro plant increased from 4,295 kWh in 1958-59 to 4,593 during the year under review.

The All-India average plant demand factor in hydro stations was 85.0 per cent and continued to be higher than that in the steam stations. The plant demand factor in the steam stations improved from 68.2 per cent in 1958-59 to 74.2 per cent in the current year.

### VOLTAGE OF GENERATION

20.0 Generation voltages in India ranged from 230 volts to 33,000 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 UNDERTAKINGS ACCORDING TO VOLTAGE OF GENERATION

Serial No.	A.C. or D.C.	Voltage of generation	Public Sector						Private Sector		Total	
			Government and State Electricity Board		Power Corporation		Municipality		Company			
			Number of undertakings owning generating stations	Aggregate installed capacity kW	Number of undertakings owning generating stations	Aggregate installed capacity kW	Number of undertakings owning generating stations	Aggregate installed capacity kW	Number of undertakings owning generating stations	Aggregate installed capacity kW	Number of undertakings owning generating stations	Aggregate installed capacity kW
1	A.C. 3 phase ..	33 kV	..	..	..	..	..	..	1	280,000	1	280,000
2	A.C. 3 phase ..	11 kV	10	1,519,075	2	276,500	1	32,588	5	426,500	18	2,254,663
3	A.C. 3 phase ..	6 to 6.6 kV	9	288,430	..	..	2	47,140	10	259,680	21	595,250
4	A.C. 3 phase ..	5 to 5.5 kV	1	38,500	..	..	..	..	1	142,000	2	180,500
5	A.C. 3 phase ..	3 to 3.3 kV	12	119,258	..	..	5	4,727	43	129,027	60	253,012
6	A.C. 3 phase ..	2 to 2.35 kV	4	70,274	..	..	1	3,660	2	1,591	7	75,525
7	A.C. 3 phase ..	500 V	1	4,000	..	..	..	..	1	300	2	4,300
8	A.C. 3 phase ..	400 to 460 V	15	146,092	..	..	17	6,489	128	50,858	160	203,439
9	A.C. single phase	230 V	7	595	..	..	1	32	..	..	8	627
10	D.C. 3 wire ..	400 to 500 V	10	11,193	..	..	1	100	24	10,614	35	21,907
11	D.C. 2 wire ..	110 to 250 V	7	3,703	..	..	2	46	6	194	15	3,943
		Total ..	76	2,201,120	2	276,500	30	94,782	221	1,300,764	329	3,873,166

## FREQUENCY OF A.C. POWER SUPPLY

21-0 About 98 per cent of the total A.C. plant installed in the country generated power at 50 cycles frequency. The remaining 2 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 Shivsamudram and Shimshapura Power Stations of the Mysore State Electricity Board, power is 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. 320 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 SYSTEM OF SUPPLY A.C. &amp; D.C.

System of supply	Number of undertakings	Division of total	
		Public authority undertakings	Company undertakings
A.C. only	290	50	240
A.C. and D.C.	30	17	13
D.C. only	30	4	26
Total	350	71	279
Standard frequency (50 cycles per second)	320	67	253
Non-Standard frequencies— (i) 25 cycles per second	2	2	..
Total	2	2	..
GRAND TOTAL	322	69	253

Although the total number of A.C. undertakings is only 320 (290 plus 30) there is an increase of the 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.

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**SECTION 2**  
**TRANSFORMER-TRANSMISSION LINES, CONSUMER-  
CONNECTED LOAD DATA AND TOWNS AND VILLAGES  
ELECTRIFIED ETC.**

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35-36



## SECTION 2

## TRANSFORMERS, TRANSMISSION LINES, CONSUMERS CONNECTED LOAD AND TOWNS AND VILLAGES ELECTRIFIED ETC.

## TRANSFORMERS

1.0 Tabel XXXIII gives the number of Power and Distribution transformers and their aggregate installed capacities in the different states. There were 833 step-up power Transformers of aggregate capacity of 3,223,741 kVA, 1,952 step-down power transformers of aggregate capacity of 7,074,340 kVA and 49,974 Distribution Transformers of aggregate capacity of 3,215,766 kVA. The total transformer capacity installed in all the Power Systems in India amounted to 13.5 million kVA. Transformer capacity increased by 27 per cent over that in the previous year as compared to 10.3 per cent increase of generating plant capacity.

TABLE XXXIII—TRANSFORMER CAPACITY AS ON 31-3-1960.

Serial No.	States and Union Territories	POWER TRANSFORMERS					
		Step-up Transformers		Step-Down Transformers		Distribution Transformers	
		Nos.	Aggregate Capacity kVA	Nos.	Aggregate Capacity kVA	Nos.	Aggregate Capacity kVA
1	Andhra Pradesh ..	39	58,743	194	289,575	3,172	260,987
2	Assam .. ..	15	22,125	18	7,600	72	8,232
3	Bihar .. ..	62	412,325	138	775,450	2,398	118,183
4	Bombay State ..	168	886,850	261	1,423,274	3,923	564,079
5	Jammu & Kashmir	4	8,100	6	12,750	225	8,663
6	Kerala .. ..	22	194,230	63	186,225	2,980	186,343
7	Madhya Pradesh ..	65	81,555	64	111,855	1,069	114,112
8	Madras State ..	55	479,230	481	1,851,990	9,804	727,181
9	Mysore State ..	116	303,786	204	365,150	12,303	248,807
10	Orissa .. ..	31	150,650	32	270,700	205	28,989
11	Punjab .. ..	38	170,077	82	193,026	2,690	296,282
12	Rajasthan ..	42	18,145	8	1,145	403	4,913
13	Uttar Pradesh ..	113	306,093	225	410,203	9,472	355,139
14	West Bengal ..	49	125,405	136	1,052,267	700	118,911
15	Union Territories—						
	(a) Delhi Stat..	..	..	36	132,730	380	143,699
	(b) Rest ..	14	6,427	4	10,400	178	1,246
	GRAND TOTAL ..	833	3,223,741	1,952	7,074,340	49,974	3,215,766

IMPORTANT POWER TRANSFORMERS COMMISSIONED DURING THE YEAR ENDING  
1959-60.

*ANDHRA PRADESH*

1×1,000 kVA, 66/11 kV Nellore District.

*ASSAM*

3× 500 kVA, 34.5/11 kV Umtru.

*BIHAR*

2×50,000 kVA, 132/33 kV Jamshedpur.

1×55,000 kVA, 11/132 kV Panchet Hydrel System.

*BOMBAY STATE*

2×4,000 kVA, 66/22/11 Baroda.

6 transformers 10,000 kVA in all (Ratio 33 kV/11kV) Sabarmati Division.

7 Transformers of 12,000 kVA in all (Ratios 66/33 kV, 66/22 kV, 66/11 kV and 33/11 kV) North Gujarat Electric Grid.

1×500 kVA, 33/11 kV Dhoraji.

1×750 kVA, 11/3.3 kV Anand Electric Supply Co.

1×9,000 kVA, 100/231 kV }  
1×60,000 kVA, 100/23.1 kV } Tata H.E. System.  
3×30,000 kVA, 5/115 kV }

1×750 kVA, 3.3/6.6 kV Nasik Deolali Electric Supply Co.

1×500 kVA, 22/6.6 kV Thana Electric Supply Co.

1×500 kVA, 410/6300 V Malegaon Electric Supply Co.

8×500 kVA, 6500/415 V }  
6×650 kVA, 6500/415 V } Bombay Electric Supply & Transport Undertaking.

*KERALA*

2×2,000 kVA, 66/11 kV Peermader.

1×10,000 kVA, 11/66/110 kV Poringalkuthu.

**MADHYA PRADESH**

$1 \times 20,000$  kVA, 132/33 kV  
 $1 \times 3,500$  kVA, 33/11 kV  
 $1 \times 1,000$  kVA, 11/3.3 kV  
 $2 \times 35,000$  kVA, 11/132 kV

} Korba P.S. under M.P.E.B.

$2 \times 1,000$  kVA, 33/11 kV Makronia and Damoh.  
 $1 \times 1,000$  kVA, 3.3/33 kV Sagar Division.

**ORISSA**

$1 \times 5,000$  kVA, 132/11 kV  
 $2 \times 7,500$  kVA, 132/11 kV  
 $1 \times 25,000$  kVA, 132/11 kV  
 $2 \times 3,000$  kVA, 66/11 kV  
 $2 \times 2,000$  kVA, 66/11 kV

} Hirakud Dam Project.

**PUNJAB**

$1 \times 1,000$  kVA, 132/11 kV Butari

**UTTAR PRADESH**

$1 \times 1,000$  kVA, 37/11 kV Etawah.  
 $2 \times 1,500$  kVA, 11/6.6 kV  
 $4 \times 1,300$  kVA, 6.6/3.3 kV

} Kanpur Electricity Supply Administration.

$1 \times 750$  kVA, 3.3/6.6 kV Lucknow.

**WEST BENGAL**

$1 \times 30,000$  kVA, 132/33 kV Maithon  
 $1 \times 50,000$  kVA, 132/33 kV Durgapur.

**UNION TERRITORIES**

$3 \times 3,000$  kVA, 33/11 kV  
 $2 \times 5,000$  kVA, 33/11 kV  
 $2 \times 10,000$  kVA, 33/11 kV  
 $1 \times 15,000$  kVA, 33/11 kV

} Delhi Electric Supply Undertaking.

## TRANSMISSION

2.0 Table XXXIV gives the total circuit kilometres of transmission lines

TABLE XXXIV-

Serial No.	States and Union Territories					Length of Transmission Lines in Circuit			
						Below 11 kV			
						2.2/3.3 kV		5/6.6 kV	
						O.H.	U.G.	O.H.	U.G.
1	Andhra Pradesh	..	..	..	..	69.33	5.18	305.11	118.51
2	Assam	..	..	..	..	25.68	9.89	..	..
3	Bihar	..	..	..	..	100.00	22.36	261.87	55.61
4	Bombay State	..	..	..	..	771.69	288.80	134.53	629.48
5	Jammu & Kashmir	..	..	..	..	26.40	0.81	115.20	..
6	Kerala	..	..	..	..	144.92	3.62	5.54	11.32
7	Madhya Pradesh	..	..	..	..	160.00	50.50	90.00	21.74
8	Madras State	..	..	..	..	116.00	218.80	211.00	209.33
9	Mysore State	..	..	..	..	1,139.14	5.62	6,467.02	206.89
10	Orissa	..	..	..	..	107.50	16.70	40.00	20.00
11	Punjab	..	..	..	..	34.20	42.58	3.90	6.60
12	Rajasthan	..	..	..	..	301.36	80.99	237.04	17.92
13	Uttar Pradesh	..	..	..	..	205.30	348.00	400.00	350.00
14	West Bengal	..	..	..	..	52.95	75.15	160.52	1,261.77
15	Union Territories--								
	(a) Delhi State	..	..	..	..	..	..	117.00	316.00
	(b) Rest	..	..	..	..	11.14	0.20	31.40	..
	<b>GRAND TOTAL</b>	..				<b>3,265.61</b>	<b>1,169.20</b>	<b>8,580.13</b>	<b>3,225.17</b>



**LINES**

grouped under various voltages between 2.2 kV and 132 kV as on 31st March, 1960

**TRANSMISSION LINES**

Kilometres as on 31-3-1960

11 kV		22 kV		33 kV		44/37.5 kV	78/66 kV	110/90 kV	132 kV
O.H.	U.G.	O.H.	U.G.	O.H.	U.G.	O.H.	O.H.	O.H.	O.H.
7,784.00	1.53	..	..	2,316.80	..	8.05	1,308.29	..	1,580.00
58.57	0.50	..	..	62.12	..	..	..	..	..
6,270.37	35.19	..	..	1,811.41	..	..	..	..	2,255.00
6,383.54	740.70	732.91	294.00	1,256.13	..	1.09	2,312.20	1,376.70	..
251.20	..	..	..	210.40	..	..	48.00	56.00	..
5,102.69	29.46	183.25	..	41.30	..	..	1,347.25	526.82	..
1,063.78	28.22	22.54	1.61	617.18	..	190.12	124.00	..	..
10,416.50	209.75	5,815.90	..	1,185.89	18.16	..	2,475.00	1,616.00	30.32
8,049.00	57.48	75.67	44.11	631.12	..	..	1,735.80	1,636.57	..
376.00	18.00	3.20	..	423.00	..	..	129.00	..	418.00
7,484.00	18.02	..	..	1,891.23	..	..	176.66	..	2,057.58
282.16	5.65	75.67	..	170.66	7.25	..	..	..	..
12,238.00	73.00	1,104.00	6.60	985.00	..	1,803.00	1,487.00	..	518.00
1,036.80	53.61	..	60.50	960.51	387.88	75.67	167.44	..	463.68
160.00	124.00	..	..	40.70	..	..	..	..	..
122.71	..	282.00	7.62	..	..	..	..	..	..
67,179.52	1,404.11	8,295.14	414.44	12,663.45	413.29	2,077.93	11,310.64	5,212.09	7,322.58

At the end of the year 1959-60 there were 11,845.74 kilometres of overhead transmission lines operating on voltages below 11 kV, 67,179.32 kilometres of 11 kV, 8,295.14 kilometres of 22 kV, 12,603.45 kilometres of 33 kV and 25,923.40 kilometres above 33 kV and upto 132 kV. The length of underground cables were 4,394.4 kilometres below 11 kV, 1,404.11 kilometres of 11 kV, 414.44 kilometres of 22 kV and 413.29 kilometres of 33 kV.

IMPORTANT TRANSMISSION LINES COMMISSIONED DURING THE YEAR ENDED  
1959-60

*ANDHRA PRADESH*

50.39 kilometres of 33 kV } Krishna District.  
148.84 kilometres of 11 kV }  
120.89 kilometres of 33 kV } Chittoor District.  
109.90 kilometres of 11 kV }  
21.75 kilometres of 33 kV } Kurnool District.  
62.32 kilometres of 11 kV }  
143.49 kilometres of 11 kV Nellore District.  
115.07 kilometres of 11 kV Anantapur District.  
59.39 Kilometers of 11 kV Cuddapah District.  
4.27 kilometers of 11 kV Ellore Electric Supply Corpn. Ltd., Ellore.  
0.89 kilometers of 11 kV Anakapalle Electric Supply Corporation, Ltd.

*ASSAM*

5.78 kilometres of 33 kV Umtru Division.  
4.03 kilometres of 11 kV Do.

*BIHAR*

38.24 kilometres of 33 kV Singhbhum Electric Supply Division.  
303.18 kilometres of 11 kV Katihar Electric Supply Division.  
54.34 kilometres of 11 kV Singhbhum Electric Supply Division.  
46.69 kilometres of 11 kV Daltonganj Power House.  
43.14 kilometres of 11 kV Electric Supply Sub-Division, Aurangabad.  
2.82 kilometres of 11 kV Patna Electric Supply Co. Ltd.  
1.7 kilometres of 11 kV Sijua (Jherriah) Electric Supply Co. Ltd.

*BOMBAY STATE*

64.40 kilometres of 66 kV North Gujrat Electric Grid Scheme.  
48.30 kilometres of 33 kV Rajkot Division.  
2.25 kilometres of 33 kV Amravati Division.  
25.21 kilometres of 22 kV North Gujrat Electric Grid Scheme.  
26.56 kilometres of 22 kV Pimpri Division.  
25.97 kilometres of 22 kV Tata Hydro Electric System Bombay.

- 12·88 kilometres of 22 kV Rajpipla Power House.  
 8·65 kilometres of 22 kV Tata Hydro Electric System.  
 125·84 kilometres of 11 kV North Gujrat Electric Grid Scheme.  
 51·52 kilometres of 11 kV Dhoraji Division.  
 48·30 kilometres of 11 kV Nagpur North Division.  
 17·71 kilometres of 11 kV Rajkot Division.  
 12·88 kilometres of 11 kV Kandla Power House.  
 10·16 kilometres of 11 kV Amravati Division.  
 9·26 kilometres of 11 kV Savarkundla Electricity Supply Co.  
 8·21 kilometres of 11 kV Bombay Sub-Electric Supply  
 7·89 kilometres of 11 kV Ahmedabad Electric Supply Company Ltd.  
 7·25 kilometres of 11 kV Porbander Division.  
 5·25 kilometres of 11 kV Poona Division.  
 5·31 kilometres of 11 kV Nagpur Electric Light & Power Co. Ltd.,  
 4·83 kilometres of 11 kV Digras Power House.  
 11·01 kilometres of 6·6 kV Cables. Bombay Electric Supply & Transport Undertaking  
 45·76 kilometres of 11 kV (Cables) Baroda Division.  
 17·13 kilometres of 11 kV (Cables) Bombay Sub-Electric Supply Ltd.  
 6·44 kilometres of 11 kV (Cables) Ahmedabad Electric Supply Co. Ltd.,  
 1·77 kilometres of 11 kV (Cables) Poona Division.

*JAMMU AND KASHMIR*

- 61·18 kilometres of 11 kV Anantnag Sub Division.  
 14·49 kilometres of 11 kV Samba Receiving Station.

*KERALA*

- 17·23 kilometres of 110 kV Kerala State Electricity Board.  
 1·61 kilometres of 11 kV The Cochin State Power & Light Corpn. Ltd., Ernakulam.  
 3·22 kilometres of 11 kV (U.G.) Calicut.

*MADHYA PRADESH*

- 80·50 kilometres of 33 kV } Sagar Division.  
 39·86 kilometres of 11 kV }  
 7·25 kilometres of 11 kV Satna Division.  
 0·64 kilometres of 3·3 kV Jubbulpur Electric Supply Co. Ltd.  
 2·25 kilometres of 3 kV Saugar Electric Supply Co. Ltd.

*MADRAS STATE*

- 165·04 kilometres of 110 kV } Mettur Electricity System.  
 147·98 kilometres of 22 kV }

159.13 kilometres of 11 kV Mettur Electricity System.

119.46 kilometres of 110 kV	}	Papanasam Electricity System.
117.67 kilometres of 66 kV		
67.78 kilometres of 22 kV		
310.15 kilometres of 11 kV		
5.43 kilometres of 6.6 kV		
5.15 kilometres of 3.3 kV		

27.28 kilometres of 33 kV	}	Madras Electricity System, Madras.
277.58 kilometres of 11 kV		
8.35 kilometres of 11 kV		

2.82 kilometres of 22 kV	}	Salem Erode Electric Supply Co.
2.14 kilometres of 6.0 kV		

7.15 kilometres of 11 kV Vellore Electric Supply Corporation, Vellore.

17.65 kilometres of 11 kV Pykara Electricity System.

#### ORISSA

93.38 kilometres of 33 kV	}	Ganjam Electrical Division, Berhampur.
31.39 kilometres of 11 kV		

#### PANJAB

126.82 kilometres of 11 kV Various places under Punjab State Electricity Board.

#### RAJASTHAN

32.20 kilometres of 11 kV Hindaun Power House.

#### UTTAR PRADESH

48.30 kilometres of 37.5 kV Meerut Hydro Electric Division.

5.64 kilometres of 22 kV Faizabad Hydro Electric Division.

26.42 kilometres of 11 kV Meerut Hydro Electric Division.

21.45 kilometres of 11 kV Kanpur Hydro Electric Division.

1.61 kilometres of 11 kV	}	Kanpur Electricity Supply Administration.
7.23 kilometres of 33 kV		
18.13 kilometres of 11 kV (U.G.)		

#### WEST BENGAL.

46.69 kilometres of 33 kV Gourepur Electric Supply Co. Ltd.

4.83 kilometres of 11 kV Berhampore Electric Supply Co. Ltd.

#### UNION TERRITORIES.

34.77 kilometres of 22 kV	}	Himachal Pradesh
35.42 kilometres of 11 kV		

31.40 kilometres of 11 kV	}	Delhi Electric Supply Undertaking.
8.44 kilometres of 11 kV (U.G.)		

## TOWNS AND VILLAGES ELECTRIFIED

3.0 There were in all 22,923 towns and villages electrified in the country at the end of the year as shown in the Table XXXV(a).

TABLE XXXV (a)—NUMBER OF TOWNS AND VILLAGES ELECTRIFIED AS ON 31-3-1960

Serial No.	Population range	No. of towns or villages in each group	No. of towns, villages with public electricity supply on 31-3-1960	Percentage of towns and villages with public electricity supply to total
1	Over 100,000 .. .. .	73	73	100.00
2	50,000 to 100,000 .. .. .	113	113	100.00
3	10,000 to 50,000 .. .. .	1,257	1,038	82.50
4	Below 10,000 .. .. .	559,666	21,699	3.88
	Total .. .. .	561,109	22,923	4.07

There were in all 22,923 towns and villages electrified at the end of the financial year 1959-60 as compared with 18,299 at the end of 1958-59.

The number of towns and villages electrified during the year under review are shown statewise in Table XXXV (b).

TABLE XXXV (b)—TOWNS AND VILLAGES ELECTRIFIED DURING THE PERIOD 1-4-1959 TO 31-3-1960

Serial No.	States and Union Territories	Population Range						Total
		Below 5,000	5,000 to 10,000	10,000 to 20,000	20,000 to 50,000	50,000 to 100,000	100,000 and over	
1	Andhra Pradesh ..	563	25	1	6	..	..	595
2	Assam .. ..	6	1	..	..	..	..	7
3	Bihar .. ..	403	21	5	..	..	..	429
4	Bombay State ..	129	10	1	..	..	..	140
5	Jammu & Kashmir	30	..	..	..	..	..	30
6	Kerala .. ..	111	31	12	5	..	..	159
7	Madhya Pradesh ..	29	13	1	..	..	..	43
8	Madras State ..	558	16	2	..	..	..	576
9	Mysore State ..	198	5	..	..	..	..	203
10	Orissa .. ..	15	1	..	..	..	..	16
11	Punjab .. ..	308	7	2	..	..	..	317
12	Rajasthan ..	4	1	..	..	..	..	5
13	Uttar Pradesh ..	147	4	3	2	..	..	156
14	West Bengal ..	34	1	2	..	..	..	37
15	Union Territories ..	269	6	..	..	..	..	275
	Total .. ..	2,804	142	29	13	..	..	2,988

## CONSUMER AND

4.0 The total number of consumers and their connected load as on 31-3-1960

TABLE XXXVI—CLASSIFICATION

Serial No.	States and Union Territories	Segregation			
		Domestic & Residential Light and Small Power		Commercial light and Small Power	
		A.C.	D.C.	A.C.	D.C.
1	Andhra Pradesh .. .. .	166,651	..	37,091	..
2	Assam .. .. .	11,438	2,954	1,932	1,716
3	Bihar .. .. .	86,513	4,564	9,821	1,483
4	Bombay State .. .. .	699,212	22,308	177,699	9,649
5	Jammu & Kashmir .. .. .	44,578	..	5,783	..
6	Kerala .. .. .	143,299	9	33,364	..
7	Madhya Pradesh .. .. .	79,342	6,075	23,356	780
8	Madras State .. .. .	432,764	11,324	55,798	3,674
9	Mysore State .. .. .	256,726	2,219	19,693	784
10	Orissa .. .. .	12,146	3,290	2,192	613
11	Punjab .. .. .	295,447	5,858	114,364	5,868
12	Rajasthan .. .. .	69,218	2,199	14,725	1,056
13	Uttar Pradesh .. .. .	167,760	48,374	40,846	21,161
14	West Bengal .. .. .	151,165	227,733	14,956	1,066
15	Union Territories—				
	(a) Delhi State .. .. .	101,189	34,043	22,360	11,207
	(b) Rest .. .. .	11,509	420	1,758	202
	All India .. .. .	2,728,957	371,370	575,738	59,259

## CONNECTED LOAD

in the various states are given in Tables XXXVI and XXXVII respectively.

OF CONSUMERS AS ON 31-3-1960.

of number of consumers						Total number of Consumers		
Industrial Power including Traction and Public Water Works		Public Lighting		Irrigation		A.C.	D.C.	Total
A.C.	D.C.	A.C.	D.C.	A.C.	D.C.	A.C.	D.C.	Total
5,459	..	893	..	11,058	..	221,152	..	221,152
164	86	28	3	..	..	13,562	4,759	18,321
4,426	134	94	2	1,333	3	102,187	6,186	108,373
39,047	677	910	38	10,345	58	927,213	32,730	959,943
639	..	4	..	48	..	51,052	..	51,052
6,281	..	810	..	1,943	..	185,697	9	185,706
5,024	80	236	56	1,244	10	109,202	7,301	116,203
20,248	184	3,072	5	80,240	..	592,122	15,187	607,309
11,959	26	315	3	13,052	2	301,745	3,034	304,779
341	174	59	3	11	..	14,749	4,080	18,829
12,795	466	213	3	10,323	..	433,142	12,195	445,337
3,386	85	50	7	875	14	88,254	3,361	91,615
12,517	1,647	290	9	4,827	7	226,240	71,198	297,438
8,212	11,057	132	14	5	..	174,470	239,870	414,340
5,128	201	106	..	18	..	128,801	45,451	174,252
342	4	26	1	829	..	14,464	627	15,091
135,968	14,821	7,238	144	136,151	94	3,584,052	445,638	4,029,70

TABLE XXXVII—CLASSIFICATION

Serial No.	States and Union Territories	Segregation of Connected			
		Domestic and Residential light and Small Power		Commercial light and Small Power	
		A.C.	D.C.	A.C.	D.C.
1	Andhra Pradesh .. .. .	82,661	..	39,312	..
2	Assam .. .. .	10,061	1,712	1,816	1,249
3	Bihar .. .. .	49,239	2,378	7,615	848
4	Bombay State .. .. .	450,081	12,430	142,829	7,875
5	Jammu & Kashmir .. .. .	3,851	..	1,183	..
6	Kerala .. .. .	77,553	20	18,457	..
7	Madhya Pradesh .. .. .	32,884	2,937	16,425	942
8	Madras State .. .. .	228,772	5,880	61,331	5,189
9	Mysore State .. .. .	113,043	503	18,277	371
10	Orissa .. .. .	8,301	2,249	1,978	651
11	Punjab .. .. .	105,703	5,186	59,192	4,741
12	Rajasthan .. .. .	35,652	1,176	10,625	429
13	Uttar Pradesh .. .. .	90,655	29,644	34,644	15,520
14	West Bengal .. .. .	149,342	275,659	9,382	729
15	Union Territories—				
	(a) Delhi State .. .. .	59,590	19,465	30,988	12,102
	(b) Rest .. .. .	7,162	83	923	33
	Total .. .. .	1,504,550	350,322	454,077	50,679

The total number of consumers as on 31-3-1960 was about 4.029 million as compared to 3.617 million increase of 12 per cent over the number of consumers as at the beginning of the year. The corresponding



## OF CONNECTED LOAD AS ON 31-3-1960.

Load in kW						Total connected lead in kW		
Industrial power including electric traction and public water works		Public lighting		Irrigation		A.C.	D.C.	Total
A.C.	D.C.	A.C.	D.C.	A.C.	D.C.	A.C.	D.C.	Total
156,336	..	7,554	..	43,639	..	329,552	..	329,552
3,355	895	366	94	..	..	15,598	3,950	19,548
236,131	1,492	944	30	7,884	5	301,813	4,753	306,566
1,143,207	22,010	9,304	1,043	38,193	218	1,783,614	43,576	1,827,190
3,812	..	117	..	342	..	9,305	..	9,305
140,906	..	3,561	..	16,335	..	256,812	20	256,832
125,898	619	2,038	148	3,378	76	180,623	4,722	185,345
400,825	15,500	8,369	7	303,564	..	1,002,861	26,576	1,029,437
332,443	123	7,782	51	56,378	7	527,923	1,055	528,978
114,930	897	353	103	178	..	125,740	3,900	129,640
161,393	2,072	2,392	205	56,608	..	385,288	12,204	397,492
26,637	505	1,485	110	4,266	56	78,685	2,276	80,961
245,425	11,081	2,735	671	63,764	23	437,223	56,939	494,162
728,149	57,477	2,983	3,341	18	..	889,874	337,2066	1,227,080
50,033	3,342	1,590	155	2,219	..	143,200	35,064	178,584
7,058	41	354	1	4,210	..	19,707	158	19,865
3,876,558	116,054	51,927	5,959	601,026	385	6,488,138	532,399	7,020,537

in the previous year. The number of new connections during the year was about 412,000 showing an connected load increased from 6.155 million kW to 7.020 million kW, or 14.1 per cent during the year.

ML/BS3CWPC(PW)

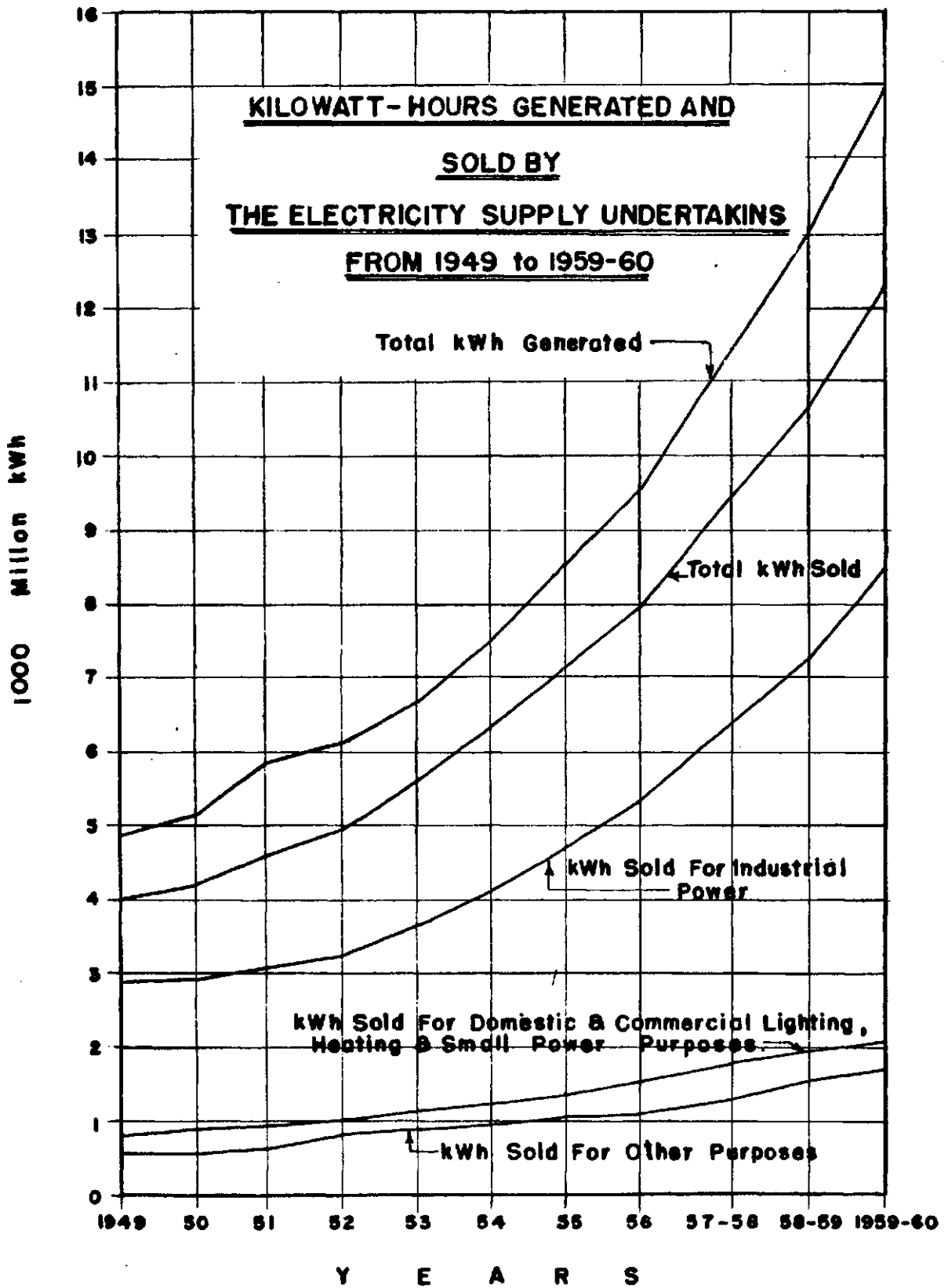


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**SECTION 3**  
**ENERGY SALES**

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**KILOWATT-HOURS GENERATED AND**  
**SOLD BY**  
**THE ELECTRICITY SUPPLY UNDERTAKINGS**  
**FROM 1949 to 1959-60**



## DISPOSAL OF ENERGY GENERATED AND PURCHASED

1·0 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

No.	Item	kWh sold in Millions	percent of Total Gross Supply
1	kWh generated .. .. .	15,032·953	99·9
2	kWh purchased from non-utilities .. .. .	34·855	0·2
3	Gross kWh for public supply .. .. .	15,067·308	100·0
4	kWh used in power station auxiliaries .. .. .	600·742	4·0
5	Net kWh for public supply .. .. .	14,468·566	96·3
6	Total kWh sold to ultimate consumers .. .. .	12,406·943	82·3
7	kWh lost in transmission, distribution and unaccounted for .. .. .	2,061·623	13·7

TABLE XXXIX—ENERGY SALES BY CLASS OF UTILIZATION

Serial No.	Class of Utilization	kWh sold in 1959-60	Percentage to total sales in 1959-60	kWh sold in 1958-59	Net percentage increase over 1958-59
1	Domestic or residential light and small power .. .. .	1,378·538	11·1	1,238·044	11·3
2	Commercial light and small power .. .. .	766·184	6·2	682·818	11·2
3	Industrial power .. .. .	8,455·534	68·2	7,224·034	17·0
4	Traction .. .. .	440·594	3·6	441·549	(—)0·2
5	Public Lighting .. .. .	177·984	1·4	156·066	14·0
6	Irrigation .. .. .	753·946	6·1	583·482	29·2
7	Water Works .. .. .	434·163	3·4	392·617	10·6
	Total .. .. .	12,406·943	100·0	10,718·610	16·3

11·1 per cent of total energy was sold to domestic consumers for residential light and power, 6·2 per cent to commercial lighting, heating and small power 68·2 per cent to industrial power 3·6 per cent to traction, 1·4 per cent to public lighting, 6·1 per cent to irrigation and 3·4 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 11·3, 12·2 and 17·0 respectively. The net increase in sales for all classes of utilisation was 16·3 per cent over the sales in the previous year.

Table XL gives the details of energy generated, purchased and sold in

TABLE

ELECTRICITY GENERATED AND

Serial No.	States and Union Territories	kWh generated (Millions)	kWh purchased (Million)		kWh consumed for power station auxiliaries
			From non-electric utilities	From electric utilities in adjoining States	
1	Andhra Pradesh .. .. .	701·069	0·291	..	21·365
2	Assam .. .. .	30·909	..	..	1·117
3	Bihar .. .. .	1,402·504	14·727	22·155	85·179
4	Bombay State .. .. .	4,011·223	4·138	..	170·073
5	Jammu & Kashmir .. .. .	42·523	..	17·732	0·594
6	Kerala .. .. .	487·917	..	62·026	13·292
7	Madhya Pradesh .. .. .	354·123	..	30·257	28·442
8	Madras State .. .. .	1,897·893	..	14·358	52·187
9	Mysore State .. .. .	999·713	..	40·000	14·317
10	Orissa .. .. .	501·732	15·000	25·500	3·992
11	Punjab .. .. .	772·790	..	..	6·188
12	Rajasthan .. .. .	103·705	0·199	..	9·266
13	Uttar Pradesh .. .. .	1,182·539	..	..	54·723
14	West Bengal .. .. .	2,242·962	..	370·000	121·192
15	Union Territories—				
	(a) Delhi State .. .. .	293·910	..	125·812	18·006
	(b) Rest .. .. .	7·441	..	19·529	0·809
	All India Total .. .. .	15,032·953	34·355	727·369	600·724

The total kWh purchased from non-electric utilities aggregated to 34·35 million kWh and represented

various states during the year under review.

XL

SOLD IN STATES DURING THE YEAR 1959-60

kWh sold to adjoining States	kWh available for sale within the States	kWh sold direct to consumers within the State			kWh lost in transmission and un-accounted for
		Public sector	Private sector	Total	
68·858	611·137	503·073	7·287	510·360	100·777
..	29·792	15·965	8·905	24·870	4·922
370·000	984·207	596·430	174·389	770·819	213·388
30·257	3,815·031	1,287·353	2,085·794	3,373·147	441·884
..	59·661	50·000	..	50·000	9·661
11·000	525·651	383·195	35·861	419·056	106·595
..	355·938	245·437	50·052	295·489	60·449
80·228	1,779·836	1,266·743	172·404	1,439·147	340·689
..	1,025·396	864·327	13·028	877·355	148·041
10·155	528·085	445·347	10·135	455·482	72·603
142·871	623·731	443·322	28·412	471·734	151·997
..	94·638	60·824	19·475	80·299	14·339
..	1,127·816	638·298	292·970	931·268	196·548
12·000	2,479·770	230·024	2,112·845	2,342·869	136·901
..	401·716	337·039	5·805	342·844	58·872
..	26·161	20·857	1·347	22·204	3·957
725·369	14,468·566	7,388·234	5,018·709	12,406·943	2,061·623

only 0·3 per cent of the total energy produced by the public electric utility undertakings.

Table XLI gives the segregation of ultimate

TABLE

SEGREGATION OF

Serial No.	States and Union Territories	Total sold to ultimate consumers	Domestic heat and small power	Domestic light and fans	Commercial heat and small power	Commercial light and fans
1	Andhra Pradesh .. ..	510·360	12·887	57·148	22·845	26·169
2	Assam .. .. .	24·870	0·636	8·672	1·145	4·532
3	Bihar .. .. .	770·819	8·507	46·705	3·581	19·527
4	Bombay State .. ..	3,373·147	88·255	208·618	48·686	157·794
5	Jammu and Kashmir .. ..	50·000	1·500	20·500	0·500	0·500
6	Kerala .. .. .	419·056	5·485	39·355	2·255	2·064
7	Madhya Pradesh .. ..	295·489	3·317	34·828	5·131	15·193
8	Madras State .. .. .	1,439·147	34·401	118·716	45·872	52·390
9	Mysore State .. .. .	877·355	17·516	52·407	4·831	16·372
10	Orissa .. .. .	455·482	1·600	15·206	2·138	5·091
11	Punjab .. .. .	471·734	12·356	47·436	11·518	44·826
12	Rajasthan .. .. .	80·299	1·817	16·186	2·589	10·072
13	Uttar Pradesh .. .. .	931·268	10·104	107·977	16·747	63·505
14	West Bengal .. .. .	2,342·869	65·749	260·493	27·918	78·814
15	<i>Union Territories—</i>					
	(a) Delhi State .. .. .	342·844	19·196	55·594	19·856	51·604
	(b) Rest .. .. .	22·204	0·276	5·125	0·336	0·883
	Total .. .. .	12,406·943	283·572	1,094·466	215·948	550·226



sales of energy in the different states.

XLI

## SALES IN STATES

Industrial power at low and medium voltage	Industrial power at high voltage	Public lighting	Electric Traction	Irrigation	Public Water Works & Sewage pumping	kWh generated (Million)
68-227	239-742	17-032	..	53-378	12-932	701-069
3-617	2-941	2-325	..	..	1-002	30-909
61-563	590-233	4-216	..	22-008	14-479	1,402-504
416-953	1,973-019	31-579	335-633	35-346	77-294	4,011-223
14-500	7-000	1-300	..	0-700	3-500	42-523
47-529	294-531	7-439	..	12-668	7-730	487-917
41-452	165-719	7-849	..	2-323	19-677	354-123
142-911	627-071	31-027	14-849	357-525	14-385	1,897-893
78-975	607-951	17-326	..	26-308	55-669	999-713
10-859	415-632	1-193	..	0-672	3-091	501-732
172-721	115-237	7-937	..	40-447	9-256	772-790
21-523	3-472	4-073	..	2-795	16-872	103-705
185-302	299-850	13-223	..	176-448	58-112	1,182-539
139-417	1,563-395	22-079	90-056	0-455	94-493	2,242-962
71-364	64-425	8-111	0-056	7-618	45-020	293-910
2-403	6-000	1-275	..	5-255	0-651	7-441
1,479-316	6,976-218	177-984	440-594	753-946	434-163	15,032-953

## PER CAPITA CONSUMPTION OF ELECTRICITY

2.0 The average per capita consumption of electricity for the Indian Union was 28.94 kWh. If the generation by the industries and the railway power stations is also taken into account, the per capita consumption for the year would be 35.4 kWh the corresponding per capita generation being 41.5 kWh.

Table XLII gives the annual per capita consumption of electricity under five classes of utilisation in the various states based on the estimated population figures as on 1st April 1960. The rate of growth of population is 1.93 per cent per annum during the decade 1951 to 1960. On this rate of growth of population, the per capita figures for the previous years were as follows—

1959-60	28.94 kWh	1954	16.01 kWh
1958-59	25.21 „	1953	14.59 „
1957-58	22.81 „	1952	13.35 „
1956	19.65 „	1951	13.00 „
1955	17.86 „		

The Delhi State, because of its predominant urban character, showed the highest overall per capita consumption of electricity of 134.45 kWh. Next to Delhi State the West Bengal, Bombay State, Madras, Mysore, Orissa and Kerala States followed in the order of magnitude.

TABLE XLII—ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY IN 1959-60

Serial No.	States and Union Territories	Population (Million)	Domestic light and small power per capita kWh	Commercial light and small power per capita kWh	Industrial including traction & water-works per capita kWh	Public lighting per capita kWh	Irrigation per capita kWh	Total per capita consumption kWh
1	Andhra Pradesh ..	35.50	1.97	1.38	9.04	0.48	1.51	14.38
2	Assam .. ..	11.56	0.81	0.49	0.65	0.20	..	2.15
3	Bihar .. ..	45.70	1.21	0.51	14.58	0.09	0.48	16.87
4	Bombay State ..	58.93	5.04	3.50	47.56	0.54	0.60	57.24
5	Jammu & Kashmir	3.55	6.20	0.28	7.04	0.37	0.20	14.09
6	Kerala .. ..	16.54	2.71	0.26	21.15	0.45	0.77	25.34
7	Madhya Pradesh ..	31.76	1.20	0.64	7.14	0.25	0.07	9.30
8	Madras State ..	33.30	4.60	2.95	24.00	0.93	10.74	43.22
9	Mysore State ..	23.14	3.02	0.92	32.09	0.75	1.14	37.92
10	Orissa .. ..	17.27	0.97	0.42	24.87	0.07	0.04	26.37
11	Punjab .. ..	19.89	3.01	2.83	14.94	0.40	2.54	23.72
12	Rajasthan ..	19.73	0.91	0.69	2.12	0.21	0.14	4.07
13	Uttar Pradesh ..	72.69	1.63	1.10	7.47	0.18	2.43	12.81
14	West Bengal ..	34.11	9.57	3.13	55.33	0.65	0.01	68.69
15	Union Territories—							
	(a) Delhi State ..	2.55	29.33	28.02	70.93	3.18	2.99	134.45
	(b) Rest .. ..	3.50	1.59	0.35	2.58	0.36	1.50	6.35
	Total All-India ..	429.72	3.13	1.87	21.76	0.42	1.76	28.94

## AVERAGE PRICE OF ELECTRICITY

3.0 Table XLIII gives an idea of the weighted average price level of electrical energy during 1959-60 as compiled from the data collected from the major public utility undertakings covering about 79.5 per cent of the total power sold to ultimate consumers.

TABLE XLIII—AVERAGE PRICE OF ELECTRICITY

Serial No.	Category of sales	kWh. sold in 1959-60 (Millions)	Revenue Realised in Rs. (Lakhs)	Revenue realised in Naye Paise per kWh sold
1	Residential and commercial premises for lighting, heating and small power etc.	1,750	28,69	16.39
2	Industries and traction .. .. .	7,583	41,33	5.45
3	Agriculture .. .. .	530	3,61	6.81
4	All purposes i.e. (1), (2) and (3) above .. .. .	9,863	73,63	7.47

## PROGRESS OF ELECTRICITY SUPPLY INDUSTRY AND INDEX OF FIGURES

4.0 The progress of electricity supply in the country as a whole and in each of the states is indicated in tables XLIV(1), XLIV(2) and XLIV(17)

TABLE XLIV(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	kWh generated	kWh generated per kW. of average capacity	kWh sold	Average load factor based on columns (6)&(7)	Average demand factor based on columns (5)&(6)
	Steam	Oil	Hydro	Total						
	kW	kW	kW	kW	kW	Million		Million	%	%
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	4,155.657	53.08	64.1
1951 ..	1,097,567	162,680	575,179	1,835,426	1,205,194	5,858.403	3,192	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	3,881	12,406.943	58.56	75.7

M/B83CWPC(PW)—10(a)

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

Item	1955	1956	1957-58	1958-59	1959-60
<b>Installed capacity in (kW)—</b>					
Steam .. .. .	46,000	46,000	83,500	83,500	83,500
Oil .. .. .	14,797	19,876	20,291	20,832	22,702
Hydro .. .. .	39,000	66,000	102,000	102,000	171,400
<b>Total .. .. .</b>	<b>99,797</b>	<b>131,876</b>	<b>205,791</b>	<b>206,332</b>	<b>277,602</b>
<b>Out-put (in million kWh)—</b>					
Steam .. .. .	140,232	60,177	51,809	68,037	116,673
Oil .. .. .	13,202	9,661	4,268	3,369	7,007
Hydro .. .. .	35,357	169,364	289,221	499,969	577,389
<b>Total .. .. .</b>	<b>188,791</b>	<b>239,202</b>	<b>345,298</b>	<b>571,375</b>	<b>701,069</b>
<b>Sales (Million kWh) within the State—</b>					
Domestic light & small power .. .. .	30,611	32,666	47,313	57,805	70,035
Commercial light and small power .. .. .	28,688	33,810	44,081	45,348	49,014
Industrial power .. .. .	79,083	88,641	142,502	227,165	307,969
Traction .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
Irrigation .. .. .	9,119	10,458	19,116	27,927	53,378
Public Lighting .. .. .	8,305	9,032	12,331	14,437	17,032
Water Works .. .. .	6,502	6,410	9,084	12,786	12,932
<b>Total .. .. .</b>	<b>162,308</b>	<b>181,017</b>	<b>274,427</b>	<b>385,468</b>	<b>510,360</b>

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

Item	1955	1956	1957-58	1958-59	1959-60
<b>Installed capacity (in kW)—</b>					
Steam .. .. .	622	622	622	622	.. .. .
Oil .. .. .	3,571	4,108	5,392	8,185	9,990
Hydro .. .. .	550	550	8,950	9,270	9,270
<b>Total .. .. .</b>	<b>4,743</b>	<b>5,280</b>	<b>14,964</b>	<b>18,077</b>	<b>19,260</b>
<b>Out-put (in million kWh)—</b>					
Steam .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
Oil .. .. .	7,375	8,372	6,752	10,465	13,117
Hydro .. .. .	2,396	2,897	11,318	14,350	17,792
<b>Total .. .. .</b>	<b>9,771</b>	<b>11,269</b>	<b>18,070</b>	<b>24,815</b>	<b>30,909</b>
<b>Sales (Million kWh) within the State—</b>					
Domestic light and small power .. .. .	2,668	3,331	8,629	9,000	9,308
Commercial light and small power .. .. .	3,344	3,689	2,642	3,549	5,677
Industrial power .. .. .	1,210	1,383	2,646	4,240	6,558
Traction .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
Irrigation .. .. .	.. .. .	.. .. .	0,070	.. .. .	.. .. .
Public Lighting .. .. .	0,521	0,740	1,701	1,996	2,325
Water Works .. .. .	0,128	0,143	0,179	0,483	1,002
<b>Total .. .. .</b>	<b>7,871</b>	<b>9,286</b>	<b>15,867</b>	<b>19,268</b>	<b>24,870</b>

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

Item	1955	1956	1957-58	1958-59	1959-60
<b>Installed capacity (in kW)—</b>					
Steam .. .. .	185,085	185,045	183,620	206,120	206,020
Oil .. .. .	13,535	15,396	15,457	16,122	17,793
Hydro .. .. .	4,000	4,000	4,000	4,000	44,000
<b>Total .. .. .</b>	<b>202,620</b>	<b>204,441</b>	<b>203,077</b>	<b>226,242</b>	<b>267,813</b>
<b>Out-put (In million kWh)—</b>					
Steam .. .. .	409·019	580·118	1,010·555	1,206·419	1,260·206
Oil .. .. .	18·158	20·964	31·952	42·321	44·183
Hydro .. .. .	12·610	2·153	8·361	13·271	98·115
<b>Total .. .. .</b>	<b>439·787</b>	<b>603·235</b>	<b>1,050·868</b>	<b>1,262,011</b>	<b>1,402·504</b>
<b>Sales (Million kWh) within the State—</b>					
Domestic lights and small power .. .. .	22·449	27·138	35·388	44·824	55·212
Commercial light and small power .. .. .	13·552	13·296	13·728	19·645	23·108
Industrial power .. .. .	217·007	298·543	382·796	494·071	651·796
Traction .. .. .	..	..	..	..	..
Irrigation .. .. .	5·965	4·272	9·784	13·490	22·006
Public Lighting .. .. .	1·534	1·937	2·642	3·462	4·216
Water Works .. .. .	5·675	8·126	11·277	12·468	14·479
<b>Total .. .. .</b>	<b>266·182</b>	<b>353·312</b>	<b>455·615</b>	<b>587·960</b>	<b>770·819</b>

TABLE XLIV (5)—PROGRESS OF ELECTRIC SUPPLY (BOMBAY STATE)

Item	1955	1956	1957-58	1958-59	1959-60
<b>Installed capacity (in kW)—</b>					
Steam .. .. .	337,960	408,710	483,650	507,050	593,650
Oil .. .. .	64,719	68,522	80,562	83,161	84,591
Hydro .. .. .	279,926	279,914	279,914	279,914	279,914
<b>Total .. .. .</b>	<b>682,605</b>	<b>757,146</b>	<b>844,126</b>	<b>870,125</b>	<b>958,155</b>
<b>Out-put (in million kWh)—</b>					
Steam .. .. .	1,374·086	1,481·715	1,995·452	2,161·748	2,450·600
Oil .. .. .	88·496	90·456	96·035	113·592	120·000
Hydro .. .. .	1,303·215	1,467·483	1,294·926	1,355·155	1,440·623
<b>Total .. .. .</b>	<b>2,770·797</b>	<b>3,039·654</b>	<b>3,386·413</b>	<b>3,630·495</b>	<b>4,011·223</b>
<b>Sales (Million kWh) within the State—</b>					
Domestic light and small power .. .. .	190·929	212·300	239·548	260·087	296·843
Commercial light and small power .. .. .	127·399	146·237	168·772	193·403	206·480
Industrial power .. .. .	1,654·955	1,825·301	2,049·323	2,211·066	2,389·972
Traction .. .. .	342·073	344·463	354·743	356·834	335·633
Irrigation .. .. .	7·393	11·189	25·997	26·363	35·346
Public Lighting .. .. .	20·348	23·483	26·401	28·602	31·579
Water Works .. .. .	51·984	58·112	55·848	71·202	77·294
<b>Total .. .. .</b>	<b>2,395·081</b>	<b>2,621·085</b>	<b>2,920·632</b>	<b>3,147·557</b>	<b>3,373·147</b>

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

Item	1955	1956	1957-58	1958-59	1959-60
<b>Installed capacity (in kW)—</b>					
Steam .. .. .	1,500	1,500	1,500	1,500	1,500
Oil .. .. .	769	769	769	869	869
Hydro .. .. .	10,606	10,606	10,606	10,612	10,612
Total ..	12,875	12,875	12,875	12,981	12,981
<b>Out-put (in million kWh)—</b>					
Steam .. .. .	0.526	..	..	..	..
Oil .. .. .	0.910	0.075	0.075	0.075	0.081
Hydro .. .. .	24.790	23.896	36.257	39.298	42.442
Total ..	26.226	23.971	36.332	39.373	42.523
<b>Sales (in million kWh) within the State—</b>					
Domestic light and small power .. ..	7.052	8.864	18.722	21.298	22.000
Commercial light and small power .. ..	0.179	0.176	0.248	0.282	1.000
Industrial power .. .. .	5.690	6.424	16.074	18.284	21.500
Traction .. .. .	..	..	..	..	..
Irrigation .. .. .	0.302	0.302	0.426	0.485	0.700
Public Lighting .. .. .	1.717	0.586	0.822	0.935	1.300
Water Works .. .. .	1.334	2.086	2.942	3.347	3.500
Total ..	16.274	18.418	39.234	44.631	50.000

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

Item	1955	1956	1957-58	1958-59	1959-60
<b>Installed capacity (in kW)—</b>					
Steam .. .. .	..	..	..	..	..
Oil .. .. .	4,123	4,277	4,277	4,277	4,762
Hydro .. .. .	85,500	85,500	109,500	109,500	117,500
Total ..	89,623	89,777	113,777	113,777	122,262
<b>Out-put (in million kWh)—</b>					
Steam .. .. .	..	..	..	..	..
Oil .. .. .	0.137	0.132	0.170	0.202	0.106
Hydro .. .. .	342.866	349.599	441.226	504.408	487.811
Total ..	343.003	349.731	441.396	504.610	487.917
<b>Sales (in million kWh) within the State—</b>					
Domestic light and small power .. ..	22.244	22.890	31.236	37.290	44.840
Commercial light and small power .. ..	2.465	2.291	4.426	3.544	4.319
Industrial power .. .. .	231.724	223.592	282.948	338.989	342.060
Traction .. .. .	..	..	..	..	..
Irrigation .. .. .	7.156	10.721	12.216	12.034	12.668
Public Lighting .. .. .	2.606	2.722	4.253	5.819	7.439
Water Works .. .. .	5.633	7.001	7.305	6.660	7.730
Total ..	271.828	269.217	342.384	404.336	419.056

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

Item	1955	1956	1957-58	1958-59	1959-60
Installed capacity (in kW)—					
Steam .. .. .	66,325	66,322	74,322	109,838	169,798
Oil .. .. .	14,111	15,984	17,633	26,013	26,364
Hydro .. .. .	..	..	..	..	..
Total .. .. .	80,436	82,306	91,955	135,851	196,162
Out-put (in million kWh)—					
Steam .. .. .	112·768	150·070	166·640	234·506	331·519
Oil .. .. .	17·500	19·271	20·852	39·884	22·604
Hydro .. .. .	..	..	..	..	..
Total .. .. .	130·268	169·341	187·492	274·390	354·123
Sales (in million kWh) within the State—					
Domestic light and small power .. .. .	21·206	25·206	27·761	39·398	38·145
Commercial light and small power .. .. .	9·817	13·525	14·174	17·191	20·324
Industrial power .. .. .	66·217	77·280	104·196	156·149	207·171
Traction .. .. .	..	..	..	..	..
Irrigation .. .. .	0·527	0·698	0·886	2·391	2·323
Public Lighting .. .. .	3·839	4·801	5·717	7·389	7·849
Water Works .. .. .	13·920	18·486	20·793	19·144	19·677
Total .. .. .	115·526	139·996	173·527	241·657	295·489

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

Item	1955	1956	1957-58	1958-59	1959-60
Installed capacity (in kW)—					
Steam .. .. .	89,000	84,000	84,000	114,000	112,500
Oil .. .. .	516	516	516	516	516
Hydro .. .. .	165,150	165,150	165,150	235,160	290,150
Total .. .. .	254,666	249,666	249,666	349,666	403,166
Out-put (in million kWh)—					
Steam .. .. .	202·100	281·718	321·509	458·882	439·336
Oil .. .. .	..	..	0·075	0·170	0·206
Hydro .. .. .	812·471	802·619	1,020·422	1,050·974	1,458·351
Total .. .. .	1,014·571	1,084·337	1,342·006	1,510·026	1,897·893
Sales (in million kWh) within the State—					
Domestic light and small power .. .. .	96·511	108·915	130·344	144·724	153·117
Commercial light and small power .. .. .	96·070	99·398	72·965	75·730	98·262
Industrial power .. .. .	447·520	449·368	537·746	568·924	769·982
Traction .. .. .	11·595	12·628	15·947	14·415	14·849
Irrigation .. .. .	105·763	138·300	230·266	295·429	357·525
Public lighting .. .. .	18·960	20·774	25·692	26·594	310·027
Water Works .. .. .	9·741	10·319	11·989	13·948	14·385
Total .. .. .	786·160	810·702	1,024·949	1,139·764	1,439·147

TABLE XLIV (10)—PROGRESS OF ELECTRICITY SUPPLY (MYSORE STATE)

Item	1955	1956	1957-58	1958-59	1959-60
<b>Installed capacity (in kW)—</b>					
Steam .. .. .	12,300	12,264	12,424	13,144	12,411
Oil .. .. .	178,200	178,200	178,200	178,200	178,200
Hydro .. .. .					
<b>Total ..</b>	<b>190,500</b>	<b>190,464</b>	<b>190,624</b>	<b>191,344</b>	<b>190,611</b>
<b>Out-put (in million kWh)—</b>					
Steam .. .. .	19,048	16,449	17,279	14,514	16,963
Oil .. .. .	717,617	809,725	916,721	933,167	982,750
Hydro .. .. .					
<b>Total ..</b>	<b>736,665</b>	<b>826,174</b>	<b>934,000</b>	<b>947,681</b>	<b>999,713</b>
<b>Sales (in million kWh) within the State—</b>					
Domestic light and small power .. .. .	56,152	55,489	61,829	60,546	69,923
Commercial light and small power .. .. .	17,176	17,785	19,277	27,465	21,203
Industrial power .. .. .	429,528	486,229	608,242	618,193	686,926
Traction .. .. .					
Irrigation .. .. .	15,269	16,465	21,008	22,363	26,308
Public Lighting .. .. .	12,627	13,838	14,759	14,747	17,326
Water Works .. .. .	42,284	42,574	64,434	51,928	55,669
<b>Total ..</b>	<b>573,036</b>	<b>632,380</b>	<b>789,549</b>	<b>795,232</b>	<b>877,355</b>

TABLE XLIV (11)—PROGRESS OF ELECTRICITY SUPPLY (ORISSA)

Item	1955	1956	1957-58	1958-59	1959-60
<b>Installed capacity (in kW)—</b>					
Steam .. .. .	5,776	5,776	5,776	5,776	5,776
Oil .. .. .	5,072	3,991	4,060	5,445	7,101
Hydro .. .. .	5	24,005	85,505	123,005	123,005
<b>Total ..</b>	<b>10,853</b>	<b>33,772</b>	<b>95,341</b>	<b>134,226</b>	<b>135,882</b>
<b>Out-put (in million kWh)—</b>					
Steam .. .. .	13,254	17,617	19,495	0,441	1,125
Oil .. .. .	39,249	3,517	3,724	4,239	6,998
Hydro .. .. .	0,012	0,011	70,001	284,050	493,609
<b>Total ..</b>	<b>46,515</b>	<b>21,145</b>	<b>93,220</b>	<b>288,730</b>	<b>501,732</b>
<b>Sales (in million kWh) within the State—</b>					
Domestic light and small power .. .. .	3,474	4,023	12,189	14,470	16,806
Commercial light and small power .. .. .	1,848	1,938	4,992	6,271	7,229
Industrial power .. .. .	4,788	4,578	44,671	240,450	426,491
Traction .. .. .					
Irrigation .. .. .	0,218				0,672
Public Lighting .. .. .	0,485	0,614	0,714	0,894	1,193
Water Works .. .. .	0,634	1,049	0,731	1,516	3,091
<b>Total ..</b>	<b>11,447</b>	<b>15,202</b>	<b>63,297</b>	<b>263,601</b>	<b>455,482</b>



TABLE XLIV (12)—PROGRESS OF ELECTRICITY SUPPLY (PUNJAB)

Item	1955	1956	1957-58	1958-59	1959-60
<b>Installed capacity (in kW)—</b>					
Steam .. .. .	7,826	7,826	7,826	7,826	7,276
Oil .. .. .	20,751	20,647	20,705	20,705	18,015
Hydro .. .. .	97,990	145,990	145,990	145,990	145,990
<b>Total .. .. .</b>	<b>126,567</b>	<b>174,463</b>	<b>174,521</b>	<b>174,521</b>	<b>171,281</b>
<b>Out-put (in million kWb)—</b>					
Steam .. .. .	6.142	6.769	7.858	10.447	8.939
Oil .. .. .	12.061	8.359	6.431	3.778	3.555
Hydro .. .. .	307.891	425.697	642.934	683.214	760.296
<b>Total .. .. .</b>	<b>326.094</b>	<b>440.825</b>	<b>657.223</b>	<b>697.439</b>	<b>772.790</b>
<b>Sales (in million kWb) within the State—</b>					
Domestic light and small power .. .. .	40.925	40.840	39.003	57.240	59.792
Commercial light and small power .. .. .	28.566	34.819	43.203	50.734	56.344
Industrial power .. .. .	113.565	153.632	222.003	249.084	287.958
Traction .. .. .	..	..	..	..	..
Irrigation .. .. .	14.034	22.655	31.131	36.432	50.447
Public Lighting .. .. .	5.556	5.755	7.483	8.339	7.937
Water Works .. .. .	7.789	8.729	8.933	7.053	9.256
<b>Total .. .. .</b>	<b>210.435</b>	<b>266.430</b>	<b>351.756</b>	<b>408.882</b>	<b>471.734</b>

TABLE XLIV (13)—PROGRESS OF ELECTRICITY SUPPLY (RAJASTHAN)

Item	1955	1956	1957-58	1958-59	1959-60
<b>Installed capacity (in kW)—</b>					
Steam .. .. .	24,000	24,000	24,750	24,750	29,250
Oil .. .. .	18,345	19,787	21,181	21,611	21,878
Hydro .. .. .	..	..	..	..	..
<b>Total .. .. .</b>	<b>42,345</b>	<b>43,787</b>	<b>45,931</b>	<b>46,361</b>	<b>51,128</b>
<b>Out-put (in million kWh)—</b>					
Steam .. .. .	56.841	61.279	65.260	64.646	65.811
Oil .. .. .	24.368	29.030	30.880	35.109	37.894
Hydro .. .. .	..	..	..	..	..
<b>Total .. .. .</b>	<b>81.209</b>	<b>90.309</b>	<b>96.140</b>	<b>99.755</b>	<b>103.705</b>
<b>Sales (in million kWh) within the State—</b>					
Domestic light and small power .. .. .	11.714	12.325	14.164	15.494	18.003
Commercial light and small power .. .. .	8.860	11.115	11.519	13.175	13.561
Industrial power .. .. .	20.233	21.890	22.090	22.360	24.955
Traction .. .. .	..	..	..	..	..
Irrigation .. .. .	1.791	1.845	1.982	2.458	2.795
Public Lighting .. .. .	2.700	2.987	3.814	3.547	4.073
Water Works .. .. .	13.677	14.459	15.393	15.904	16.872
<b>Total .. .. .</b>	<b>58.975</b>	<b>64.621</b>	<b>68.962</b>	<b>72.938</b>	<b>80.299</b>

TABLE XLIV (14)—PROGRESS OF ELECTRICITY SUPPLY (UTTAR PRADESH)

Item	1955	1956	1957-58	1958-59	1959-60
<b>Installed capacity (in kW)—</b>					
Steam .. .. .	183,360	179,860	227,760	232,660	249,810
Oil .. .. .	27,359	32,490	30,755	30,174	35,699
Hydro .. .. .	75,420	96,390	96,390	96,390	92,490
<b>Total ..</b>	<b>286,139</b>	<b>308,740</b>	<b>354,905</b>	<b>359,224</b>	<b>377,999</b>
<b>Out-put (in million kWh)—</b>					
Steam .. .. .	463·065	490·829	526·510	603·632	729·432
Oil .. .. .	19·200	20·343	28·051	18·283	26·019
Hydro .. .. .	169·400	232·309	317·447	343·397	427·078
<b>Total ..</b>	<b>651·665</b>	<b>743·481</b>	<b>872·008</b>	<b>965·312</b>	<b>1,182·529</b>
<b>Sales (in million kWh) within the State—</b>					
Domestic light and small power .. .. .	67·350	71·510	80·186	93·281	118·081
Commercial light and small power .. .. .	51·212	59·317	63·739	56·345	80·252
Industrial power .. .. .	264·382	314·181	350·602	420·764	485·152
Traction .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
Irrigation .. .. .	80·703	90·441	203·765	133·243	176·448
Public Lighting .. .. .	7·671	8·384	9·749	11·538	13·223
Water Works .. .. .	40·264	42·145	45·194	51·415	58·112
<b>Total ..</b>	<b>512·082</b>	<b>585·978</b>	<b>753·235</b>	<b>766·586</b>	<b>931·268</b>

TABLE XLIV (15)—PROGRESS OF ELECTRICITY SUPPLY (WEST BENGAL)

Item	1955	1956	1957-58	1958-59	1959-60
<b>Installed capacity (in kW)—</b>					
Steam .. .. .	540,851	528,351	528,331	528,331	528,331
Oil .. .. .	5,610	5,612	7,525	8,208	8,963
Hydro .. .. .	2,760	4,760	27,208	67,208	67,208
<b>Total ..</b>	<b>540,221</b>	<b>538,723</b>	<b>563,064</b>	<b>603,747</b>	<b>604,502</b>
<b>Out-put (in million kWh)—</b>					
Steam .. .. .	1,625·865	1,765·624	1,668·114	1,786·445	1,994·810
Oil .. .. .	5·356	4·632	6·056	5·520	7·974
Hydro .. .. .	7·852	8·335	22·495	125·937	240·178
<b>Total ..</b>	<b>1,639·073</b>	<b>1,778·591</b>	<b>1,696·665</b>	<b>1,917·902</b>	<b>2,242·962</b>
<b>Sales (in million kWh) within the State—</b>					
Domestic light and small power .. .. .	234·616	233·402	280·864	304·440	326·242
Commercial light and small power .. .. .	71·941	79·275	88·719	98·975	106·732
Industrial power .. .. .	1,104·517	1,291·502	1,364·255	1,530·996	1,702·812
Traction .. .. .	49·178	47·487	50·841	70·045	90·056
Irrigation .. .. .	1·752	2·170	0·563	0·996	0·455
Public Lighting .. .. .	12·947	15·112	17·583	20·854	22·079
Water Works .. .. .	56·215	65·594	75·811	88·979	94·493
<b>Total ..</b>	<b>1,531·166</b>	<b>1,754·542</b>	<b>1,878·636</b>	<b>2,115·285</b>	<b>2,342·869</b>

TABLE XLIV (16)—PROGRESS OF ELECTRICITY SUPPLY (DELHI STATE)

Item	1955	1956	1957-58	1958-59	1959-60
<b>Installed capacity (in kW)—</b>					
Steam .. .. .	52,400	52,400	51,600	51,600	53,600
Oil .. .. .	2,791	2,791	3,130	9,202	22,703
Hydro .. .. .	..	..	..	..	..
<b>Total</b> ..	<b>55,191</b>	<b>55,191</b>	<b>54,730</b>	<b>60,802</b>	<b>76,303</b>
<b>Out-put (in million kWh)—</b>					
Steam .. .. .	213.999	231.676	203.479	246.865	276.394
Oil .. .. .	0.687	0.541	0.294	5.006	17.516
Hydro .. .. .	..	..	..	..	..
<b>Total</b> ..	<b>214.686</b>	<b>232.217</b>	<b>203.773</b>	<b>251.871</b>	<b>293.910</b>
<b>Sales (in million kWh) within the State—</b>					
Domestic light and small power .. ..	41.282	52.462	64.075	74.168	74.790
Commercial light and small power .. ..	52.694	57.629	58.460	70.063	71.460
Industrial power .. .. .	55,965	74.306	94.593	117.254	135.789
Traction .. .. .	0.456	0.347	0.363	0.255	0.056
Irrigation .. .. .	4.811	4.928	6.636	6.033	7.618
Public Lighting .. .. .	5.551	6.491	7.141	5.878	8.111
Water Works .. .. .	28.806	31.592	35.369	35.108	45.020
<b>Total</b> ..	<b>189.765</b>	<b>227.755</b>	<b>265.637</b>	<b>306.759</b>	<b>342.844</b>

TABLE XLIV (17)—PROGRESS OF ELECTRICITY SUPPLY (UNION TERRITORIES)  
(EXCLUDING DELHI STATE)

Item	1955	1956	1957-58	1958-59	1959-60
<b>Installed capacity (in kW)—</b>					
Steam .. .. .	6,100	6,000	6,000	6,000	6,000
Oil .. .. .	747	1,258	1,258	1,824	1,653
Hydro .. .. .	376	376	506	506	406
<b>Total</b> ..	<b>7,223</b>	<b>7,634</b>	<b>7,764</b>	<b>8,330</b>	<b>8,059</b>
<b>Out-put (in million kWh)—</b>					
Steam .. .. .	0.996	6.308	5.773	5.576	3.584
Oil .. .. .	1.563	1.554	1.553	1.613	2.867
Hydro .. .. .	0.761	0.789	0.912	0.912	0.990
<b>Total</b> ..	<b>3.320</b>	<b>8.651</b>	<b>8.238</b>	<b>8.101</b>	<b>7.441</b>
<b>Sales (in million kWh) within the State—</b>					
Domestic light and small power .. ..	1.243	2.761	3.313	3.984	5.401
Commercial light and small power .. ..	0.412	0.553	0.567	1.098	1.219
Industrial power .. .. .	0.905	3.575	4.572	6.045	8.403
Traction .. .. .	..	..	..	..	..
Irrigation .. .. .	..	1.734	2.971	3.848	5.255
Public Lighting .. .. .	0.264	0.531	0.600	1.035	1.275
Water Works .. .. .	0.051	0.251	0.367	0.676	0.651
<b>Total</b> ..	<b>2.875</b>	<b>9.405</b>	<b>16.390</b>	<b>12.688</b>	<b>22.204</b>

The index numbers for the salient features of the electricity supply industry are given in Table XLV.

TABLE XLV—INDEX NUMBERS OF ELECTRICITY SUPPLY IN THE COUNTRY 1951 AS BASE YEAR

	1951	1956	1957-58	1958-59	1959-60
<b>Installed generating plant capacity—</b>					
(a) Steam plant .. .. .	100	145.4	160.6	171.2	186.5
(b) Oil plant .. .. .	100	140.3	151.2	166.1	182.0
(c) Hydro plant .. .. .	100	184.6	211.1	236.8	266.0
Total ..	100	157.2	175.6	191.3	211.0
<b>kWh generated—</b>					
(a) Steam plant .. .. .	100	184.8	217.4	246.4	276.3
(b) Oil plant .. .. .	100	106.2	115.8	135.7	148.8
(c) Hydro plant .. .. .	100	150.1	177.4	204.5	245.7
Total ..	100	164.9	194.1	221.8	255.9
Coal consumption .. .. .	100	161.6	182.5	206.6	232.4
Fuel oil consumption .. .. .	100	102.6	110.3	124.0	136.5
Aggregate maximum demand .. .. .	100	165.0	189.1	211.0	243.2
<b>kWh sold—</b>					
Domestic light and small power .. .. .	100	157.1	184.0	207.4	229.4
Commercial light and small power .. .. .	100	164.6	184.4	204.8	230.1
Industrial .. .. .	100	174.3	201.9	234.9	276.2
Traction .. .. .	100	122.4	128.0	134.0	133.7
Irrigation .. .. .	100	155.7	278.7	316.9	392.7
Public Lighting .. .. .	100	173.4	208.2	228.3	261.9
Water Works .. .. .	100	149.9	172.8	184.1	203.2
Total ..	100	166.1	196.7	223.6	258.2

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**SECTION 4**  
**POWER GENERATED AND USED IN SELECTED INDUSTRIES**

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**ELECTRICITY PRODUCTION AND CONSUMPTION IN SELECTED MAJOR INDUSTRIAL ESTABLISHMENTS**

1.0 The data in respect of generating plant capacity, maximum demand, energy generated and purchased relating to certain selected industries during 1959-60 is given in Table XLVI.

**TABLE XLVI—ELECTRICITY PRODUCTION AND CONSUMPTION IN SELECTED INDUSTRIES DURING THE YEAR 1959-60.**

Serial No.	Industry	Total number of factories covered	Installed generating plant capacity as on 31.3.60	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)	6	12,834	9,915	40,425	73.614	336.342	409.884	0.072	93.0
2	Aluminium (Secondary)	9	98	59	5,500	0.188	25.266	25.454	..	52.3
3	Cement (primary)	27	121,759	97,337	70,659	524.144	320.524	834.010	10.658	57.4
4	Cement (Secondary)	23	705	338	4,524	0.426	16.461	16.891	0.006	39.6
5	Chemicals ..	35	39,744	18,837	35,370	121.362	204.026	324.469	0.919	68.5
6	Colliery .. ..	148	63,571	30,184	63,610	154.422	256.027	401.368	9.081	50.0
7	Copper (primary) ..	1	4,625	3,470	4,735	18.179	20.625	38.804	..	54.0
8	Copper (Secondary)	1	..	..	862	..	2.038	2.038	..	27.3
9	Cotton Textiles ..	337	124,032	66,318	347,818	308.870	1,760.675	2,058.718	10.827	57.0
10	Fertilizers ..	4	80,560	58,090	7,755	359.768	53.719	404.459	9.028	71.7
11	Gold .. ..	1	4,760	100	20,040	0.113	116.273	116.386	..	66.0
12	Iron & Steel (primary)	6	298,118	130,570	150,586	734.164	700.129	1,288.621	145.672	58.2
13	Iron & Steel (Secondary)	20	480	100	37,361	0.139	138.819	138.316	0.642	42.3
14	Jute .. ..	86	25,910	12,365	136,072	60.940	512.721	572.457	1.204	44.1
15	Paper .. ..	24	77,028	40,113	28,336	263.020	147.314	380.992	29.342	68.4
16	Petroleum ..	4	3,206	1,980	9,270	12.207	60.029	72.026	0.210	73.3
17	Silk .. ..	25	1,480	1,600	28,924	9.505	120.752	130.257	..	48.7
18	Soap .. ..	12	166	20	4,287	0.003	24.056	24.059	..	63.6
19	Sugar .. ..	105	72,456	56,806	10,702	115.252	21.917	134.334	0.835	23.2
20	Tanneries ..	10	297	301	4,406	0.614	15.846	15.844	0.611	39.9
21	Woolen .. ..	12	3,600	1,992	10,261	3.947	35.989	39.913	0.023	37.2
	<b>Total ..</b>	<b>896</b>	<b>935,369</b>	<b>530,495</b>	<b>1,021,503</b>	<b>2,760.877</b>	<b>4,889.548</b>	<b>7,431.295</b>	<b>219.130</b>	<b>56.3</b>

Among the 896 industrial undertakings, 311 undertakings supplemented their power requirements by 2,761 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 8,410 million kWh of which 4,890 million kWh was accounted for by only the large and medium size industrial establishments included in the tables. The industries consumed 7,431 million kWh of power of which 66 per cent was purchased from different electric utilities in the country. The total energy used by these industries increased by 18 per cent as compared with the previous year. The plant capacity owned by the industries increased during 1959-60 by 15 per cent.

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

Table XLVII gives the electricity production and consumption in selected major industries during 1959-60 in various States of the Indian Union.

TABLE XLVII—ELECTRICITY PRODUCTION AND CONSUMPTION IN SELECTED INDUSTRIES ON STATE-WISE BASIS DURING THE YEAR 1959-60.

Serial No.	States and Union Territories	Total No. of factories covered	Installed generating plant capacity as on 31-3-60	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 ..	20	48,396	26,328	34,160	153-491	127-043	249-536	31-064
2	Assam ..	1	3,131	1,980	..	12-207	..	11-997	0-210
3	Bihar .. ..	100	282,567	182,635	115,392	1,059-449	521-985	1,423-463	157-971
4	Bombay State ..	250	106,382	62,348	300,263	263-877	1,541-073	1,801-725	3-225
5	Jammu & Kashmir ..	1	..	..	25	..	0-049	0-040	..
6	Kerala .. ..	12	1,661	672	24,810	0-816	179-041	179-857	..
7	Madhya Pradesh ..	46	70,338	40,610	35,995	208-490	100-103	300-180	8-413
8	Madras State ..	77	24,768	11,111	67,800	30-130	341-964	372-094	..
9	Mysore State ..	29	22,925	19,585	96,701	76-096	467-787	542-904	0-979
10	Orissa .. ..	8	93,418	24,820	49,507	146-475	343-563	486-560	3-478
11	Punjab .. ..	14	17,998	13,296	14,376	77-753	57-651	135-404	..
12	Rajasthan .. ..	21	37,264	24,050	1,439	129-716	2-253	131-808	0-161
13	Uttar Pradesh ..	86	58,141	36,737	37,583	123-021	161-838	284-413	0-446
14	West Bengal ..	223	138,352	72,963	239,409	391-050	1,008-599	1,360-106	13-243
15	Union Territories—								
	(a) Delhi State ..	7	29,459	13,028	4,728	86-910	35-581	122-491	..
	(b) Rest .. ..	1	575	370	315	1-366	1-027	2-123	..
	Total .. ..	896	935,369	530,495	1,021,523	2,760-877	4,889-548	7,431-295	219-130



## ANALYSIS OF GENERATING PLANT CAPACITY OF INDUSTRIAL ESTABLISHMENTS

2.0 Table XLVIII gives the distribution of plant capacity in the various industrial power stations.

TABLE XLVIII—ANALYSIS OF GENERATING PLANT CAPACITY OF INDUSTRIAL ESTABLISHMENTS FOR THE YEAR 1959-60.

Installed generating Plant capacity kW	Number of Indus- trial establish- ments	Aggregate in- stalled capacity kW	Percentage of total capacity %	kWh generated (Millions)	Percentage of total kWh %
Under 1,000	204	82,188	8.8	66.803	2.4
1,001—5,000	75	191,454	20.5	505.056	18.3
5,001—10,000	14	104,034	11.1	369.773	13.4
10,001—25,000	14	218,825	23.4	798.453	28.9
Over 25,000	4	338,868	36.2	1,020.792	37.0
Total ..	311	935,369	100.0	2760.877	100.0

The Table XLIX gives further break-up of the installed capacity of generating plant in industrial  
**TABLE XLIX—INSTALLED GENERATING PLANT CAPACITY OF SELECTED MAJOR INDUSTRIES STATE AND**

Serial No.	States and Union Territories	Aluminium (Primary)	Aluminium (Secondary)	Cement (Primary)	Cement (Secondary)	Chemicals	Collieries	Copper (Primary)	Copper (Secondary)
1	Andhra Pradesh .. .. .	..	..	..	..	..	22,960	..	..
2	Assam .. .. .	..	..	..	..	..	..	..	..
3	Bihar .. .. .	2 634	98	28,240	..	..	22,675	4 625	..
4	Bombay State .. .. .	..	..	19,524	150	13,743	..	..	..
5	Jammu & Kashmir .. .. .	..	..	..	..	..	..	..	..
6	Kerala .. .. .	..	..	..	..	200	..	..	..
7	Madhya Pradesh .. .. .	..	..	17,760	..	..	12,326	..	..
8	Madras State .. .. .	..	..	2,195	..	..	..	..	..
9	Mysore State .. .. .	..	..	10,400	..	..	..	..	..
10	Orissa .. .. .	..	..	50	..	..	3,000	..	..
11	Punjab .. .. .	..	..	9,300	..	..	..	..	..
12	Rajasthan .. .. .	..	..	27,090	255	..	..	..	..
13	Uttar Pradesh .. .. .	..	..	7,200	..	6,366	..	..	..
14	West Bengal .. .. .	10,200	..	..	300	..	2,610	..	..
15	<i>Union Territories—</i>								
	(a) Delhi State .. .. .	..	..	..	..	19,435	..	..	..
	(b) Rest .. .. .	..	..	..	..	..	..	..	..
	<b>Total ..</b>	<b>12,834</b>	<b>98</b>	<b>121,759</b>	<b>705</b>	<b>39,744</b>	<b>63,571</b>	<b>4,625</b>	<b>..</b>

establishments, State and Industry-wise.

INDUSTRY-WISE AS ON 31-3-1960 (PLANT CAPACITY IN KW)

Cotton Textiles	Ferti- lizers	Gold	Iron & Steel (Pri- mary)	Iron & Steel (Se- con- dary)	Jute	Paper	Silk	Soap	Sugar	Tenne- ries	Wool	Oil	Total
5,075	..	..	..	..	..	18,430	..	..	1,850	..	..	75	48,390
..	..	..	..	..	..	..	..	..	..	..	..	3,131	3,131
..	80,400	..	120,500	..	3,085	13,200	..	..	7,110	..	..	..	282,567
51,023	..	..	..	..	..	..	1,480	166	20,096	..	200	..	106,382
..	..	..	..	..	..	..	..	..	..	..	..	..	..
1,181	..	..	..	..	..	280	..	..	..	..	..	..	1,661
15,102	..	..	24,000	..	..	580	..	..	570	..	..	..	70,338
18,311	..	..	..	..	..	..	..	..	3,965	297	..	..	24,768
4,275	..	4,700	400	..	..	..	..	..	3,150	..	..	..	22,925
1,600	..	..	77,968	..	..	10,800	..	..	..	..	..	..	93,418
2,515	..	..	..	..	..	3,500	..	..	1,733	..	950	..	17,998
8,695	160	..	..	180	..	..	..	..	884	..	..	..	37,264
5,431	..	..	..	..	780	3,338	..	..	32,576	..	2,450	..	58,141
225	..	..	75,250	300	22,045	26,900	..	..	522	..	..	..	138,352
..	..	..	..	..	..	..	..	..	..	..	..	..	..
10,024	..	..	..	..	..	..	..	..	..	..	..	..	20,459
575	..	..	..	..	..	..	..	..	..	..	..	..	575
24,032	80,560	4,700	298,118	480	25,910	77,028	1,480	166	72,456	297	3,600	3,206	935,369

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Table L shows the consumption of energy in selected major industries in several states during the period 1st April, 1959 to 31st March, 1960.

TABLE L—ENERGY CONSUMED IN SELECTED MAJOR INDUSTRIES—STATE AND INDUSTRY-WISE DURING 1959-60 (ENERGY CONSUMPTION IN MILLION kWh)

Serial No.	States and Union Territories	Aluminium (Primary)	Aluminium (Secondary)	Cement (Primary)	Cement (Secondary)	Chemicals	Collieries	Copper (Primary)
1	Andhra Pradesh ..	..	..	40·180	..	..	59·432	..
2	Assam .. ..	..	..	..	..	..	..	..
3	Bihar .. ..	8·114	0·152	214·669	1·226	2·335	178·843	38·804
4	Bombay State ..	..	1·054	106·024	4·297	97·048	..	..
5	Jammu & Kashmir ..	..	..	..	..	..	..	..
6	Kerala .. ..	122·478	3·240	6·195	..	2·648	..	..
7	Madhya Pradesh ..	..	..	54·969	3·409	..	38·706	..
8	Madras State ..	..	0·051	107·377	..	24·818	..	..
9	Mysore State ..	..	..	59·638	0·010	0·581	..	..
10	Orissa .. ..	213·864	1·650	32·488	..	..	3·775	..
11	Punjab .. ..	..	..	66·966	..	..	..	..
12	Rajasthan .. ..	..	0·036	113·619	0·411	..	..	..
13	Uttar Pradesh ..	..	..	31·885	..	28·309	..	..
14	West Bengal ..	65·428	19·271	..	7·416	103·745	120·612	..
15	Union Territories—							
	(a) Delhi State ..	..	..	..	0·112	64·985	..	..
	(b) Rest .. ..	..	..	..	..	..	..	..
	Total .. ..	409·884	25·454	834·010	16·881	324·469	401·368	38·804

TABLE I.—ENERGY CONSUMED IN SELECTED MAJOR INDUSTRIES—STATE AND INDUSTRY-WISE  
DURING 1959-60 (ENERGY CONSUMPTION IN MILLION kWh)—*contd.*

Serial No.	States and Union Territories	Copper (Secondary)	Cotton Textiles	Fertilizers	Gold	Iron & Steel (Primary)	Iron & Steel (Secondary)	Jute
1	Andhra Pradesh ..	..	15·336	..	..	..	..	13·021
2	Assam .. ..	..	..	..	..	..	..	..
3	Bihar .. ..	..	1·141	350·589	..	556·336	40·310	11·865
4	Bombay State ..	2·038	1,336·862	..	..	..	31·101	..
5	Jammu & Kashmir ..	..	..	..	..	..	..	..
6	Kerala .. ..	..	9·105	27·237	..	..	..	..
7	Madhya Pradesh ..	..	84·381	..	..	106·352	..	..
8	Madras State ..	..	223·840	..	..	..	3·948	..
9	Mysore State ..	..	47·867	26·465	116·386	255·687	2·147	..
10	Orissa .. ..	..	10·885	..	..	138·686	..	..
11	Punjab .. ..	..	25·349	..	..	..	..	..
12	Rajasthan .. ..	..	16·756	0·168	..	..	0·139	..
13	Uttar Pradesh ..	..	131·337	..	..	..	8·857	10·531
14	West Bengal ..	..	95·884	..	..	231·560	51·814	537·040
15	Union Territories—							
	(a) Delhi State ..	..	57·372	..	..	..	..	..
	(b) Rest .. ..	..	2·423	..	..	..	..	..
	Total .. ..	2·038	2,058·718	404·459	116·386	1,288·621	138·316	572·457

TABLE L—ENERGY CONSUMED IN SELECTED MAJOR INDUSTRIES—STATE AND INDUSTRY-WISE DURING 1959-60 (ENERGY CONSUMPTION IN MILLION kWh)—*concl.*

Serial No.	States and Union Territories	Paper	Petroleum	Silk	Soap	Sugar	Tanneries	Wool	Total
1	Andhra Pradesh ..	61·962	19·470	26·974	..	13·155	..	..	249·530
2	Assam .. ..	..	11·997	..	..	..	..	..	11·997
3	Bihar .. ..	..	..	..	..	19·079	..	..	1,423·463
4	Bombay State ..	23·587	39·482	98·656	20·705	29·418	..	11·453	1,801·725
5	Jammu & Kashmir ..	..	..	0·040	..	..	..	..	0·040
6	Kerala .. ..	8·954	..	..	..	..	..	..	179·857
7	Madhya Pradesh ..	10·707	..	..	..	1·656	..	..	300·180
8	Madras State ..	..	..	..	..	11·441	0·619	..	372·094
9	Mysore State ..	9·241	..	1·050	0·159	5·938	0·094	17·641	542·904
10	Orissa .. ..	85·232	..	..	..	..	..	..	486·560
11	Punjab .. ..	33·800	..	1·710	..	1·739	..	5·840	125·404
12	Rajasthan .. ..	..	..	..	..	0·679	..	..	131·808
13	Uttar Pradesh ..	14·742	..	..	..	51·724	2·684	4·344	284·413
14	West Bengal ..	132·967	1·077	1·805	3·195	1·505	12·452	0·635	1,386·406
15	<i>Union Territories—</i>								
	(a) Delhi State ..	..	..	0·022	..	..	..	..	122·491
	(b) Rest .. ..	..	..	..	..	..	..	..	2·423
	Total .. ..	381·192	72·026	130·257	24·059	136·334	15·849	39·913	7,431·295

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**SECTION 5  
ELECTRICAL ACCIDENTS**

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**ELECTRICAL ACCIDENTS IN THE ELECTRICITY SUPPLY AND INDUSTRIAL UNDERTAKINGS.**

Tables LI (a) and LI(b) give the fatal and non-fatal electrical accidents state-wise in electricity supply and industrial undertakings for the years 1958-59 and 1959-60.

**TABLE LI(a)—STATEMENT SHOWING THE NUMBER OF FATAL AND NON-FATAL ELECTRICAL ACCIDENTS DURING THE YEAR 1958-59.**

Serial No.	States & Union Territories	Generating and sub stations				Transmission				Distribution				Total	
		Elec. supply undertakings		Industrial undertakings		Elec. supply undertakings		Industrial undertakings		Elec. 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	Andhra Pradesh ..	5	5	..	..	4	20	..	..	31	41	..	..	40	66
2	Assam .. ..	..	..	..	..	..	..	..	..	1	2	..	..	1	2
3	Bihar .. ..	1	9	..	..	14	13	..	..	19	49	8	53	42	124
4	Bombay State ..	..	2	..	2	3	7	..	..	34	35	5	42	42	88
5	Jammu & Kashmir	Not available													
6	Kerala .. ..	..	..	..	..	9	16	..	..	17	18	6	10	32	44
7	Madhya Pradesh	..	1	..	..	..	..	..	..	9	15	..	7	9	23
8	Madras State ..	8	47	..	..	98	161	..	..	48	29	1	11	153	238
9	Mysore State ..	..	3	..	..	8	11	..	..	23	10	1	1	32	25
10	Orissa .. ..	..	..	..	..	7	..	..	..	4	6	8	..	19	6
11	Punjab .. ..	..	13	..	..	8	28	..	..	30	25	1	7	39	78
12	Rajasthan ..	..	..	..	..	..	..	..	..	9	14	..	3	9	17
13	Uttar Pradesh ..	..	7	..	..	15	15	..	..	90	69	5	11	110	102
14	West Bengal ..	..	..	..	..	..	..	..	..	10	19	1	37	11	56
15	Union Territories	..	3	..	..	..	..	..	..	3	23	..	1	3	27
16	Mines .. ..	..	..	..	..	..	..	..	..	..	..	7	6	7	6
17	Railways .. ..	..	..	..	..	..	..	..	..	..	..	13	32	13	32
	Total .. ..	14	90	..	2	166	261	..	..	326	355	56	221	562	929



TABLE LI (b)—STATEMENT SHOWING THE NUMBER OF FATAL AND NON-FATAL ELECTRICAL ACCIDENTS DURING THE YEAR 1959-60.

Serial No.	States & Union Territories	Generating and sub-stations				Transmission				Distribution				Total	
		Elec. supply undertakings		Industrial undertakings		Elec. supply undertakings		Industrial undertakings		Elec. 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	Andhra Pradesh	2	4	Nil	Nil	38	51	Nil	Nil	31	19	..	..	71	74
2	Assam ..	..	..	..	..	..	..	..	..	3	2	..	..	3	2
3	Bihar ..	3	25	..	..	9	5	..	..	25	45	..	..	37	75
4	Bombay State ..	..	..	..	..	1	6	..	..	24	35	1	19	26	60
5	Jammu & Kashmir	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	Kerala ..	1	3	..	..	11	12	..	..	33	38	..	..	45	53
7	Madhya Pradesh	..	..	..	..	4	8	..	..	16	33	12	17	32	58
8	Madras State ..	7	4	..	..	47	64	..	..	98	100	1	10	153	178
9	Mysore State ..	1	1	..	..	30	15	..	..	23	32	..	..	54	48
10	Orissa ..	..	..	..	..	..	..	..	..	11	2	..	..	11	2
11	Punjab ..	12	21	..	..	11	19	..	..	22	12	..	..	45	52
12	Rajasthan ..	..	..	..	..	..	2	..	..	3	8	..	2	3	12
13	Uttar Pradesh..	3	20	..	..	25	34	..	..	70	30	..	..	98	84
14	West Bengal ..	..	..	..	..	..	..	..	..	11	20	..	..	11	20
15	Union Territories	..	2	..	..	2	..	..	..	4	18	..	..	6	20
16	Mines ..	..	..	..	..	..	..	..	..	4	6	..	..	4	6
17	Railways ..	1	1	..	..	3	4	..	..	6	23	..	..	10	28
	Total ..	30	81	..	..	181	220	..	..	384	423	14	48	609	772



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**SECTION 6**  
**FINANCIAL DATA OF PUBLIC ELECTRICITY**  
**SUPPLY UNDERTAKINGS**

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83-84



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, 1959—GROUPED STATE-WISE.

TABLE LII—CAPITAL EXPENDITURE

(Figures represent Rs. in Lakhs)

Serial No.	States and Union Territories	Year	State owned		(Private)	Total
			Government & Boards	Municipalities	Companies	
1	Andhra Pradesh .. ..	1958-59	6,355	12	24	6,391
		1957-58	..	12	21	33
2	Assam .. ..	1958-59	358	..	67	425
		1957-58	..	..	72	72
3	Bihar .. ..	1958-59	1,760	..	385	2,145
		1957-58	*4,359	..	362	4,721
4	Bombay State .. ..	1958-59	3,091	2,414	6,467	11,972
		1957-58	2,929	2,228	6,124	11,281
5	Jammu & Kashmir .. ..	1958-59	422	..	..	422
		1957-58	..	..	..	..
6	Kerala .. ..	1958-59	2,801	17	77	2,895
		1957-58	2,590	15	68	2,673
7	Madhya Pradesh .. ..	1958-59	1,487	2	200	1,689
		1957-58	1,173	2	192	1,367
8	Madras State .. ..	1958-59	8,309	99	429	8,837
		1957-58	6,608	90	401	7,099
9	Mysore State .. ..	1958-59	3,650	1	92	3,743
		1957-58	3,480	1	76	3,557
10	Orissa .. ..	1958-59	1,048	..	67	1,115
		1957-58	..	..	66	66
11	Punjab .. ..	1958-59	6,005	95	103	6,203
		1957-58	5,471	93	92	5,656
12	Rajasthan .. ..	1958-59	299	..	137	436
		1957-58	348	..	130	478
13	Uttar Pradesh .. ..	1958-59	6,581	176	1,120	7,877
		1957-58	6,124	162	1,067	7,353
14	West Bengal .. ..	1958-59	656	19	5,023	5,698
		1957-58	583	19	4,831	5,433
15	Damodar Valley Corporation ..	1958-59	4,213	..	..	4,213
		1957-58	..	..	..	..
16	Union Territories—	1958-59	..	1,293	11	1,304
		1957-58	..	153	11	1,032
	(a) Delhi State .. ..	1958-59	..	1,293	11	1,304
		1957-58	..	153	11	1,032
	(b) Rest .. ..	1958-59	118	..	3	121
		1957-58	102	..	5	107
	Total .. ..	1958-59	47,153	4,128	14,205	65,486
		1957-58	34,635	2,775	13,518	**50,928

\*Includes Damodar Valley Corporation.

\*\*The Andhra Pradesh and Assam State electricity Boards and Orissa and Jammu &amp; Kashmir Government Electricity Departments have not been included in these statistics due to non-availability of data from them.



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**TABLE LIII**

- (a)* —Consolidated Capital Account 1958-59  
*(b)* —Consolidated Revenue Account 1958-59  
*(c)* —Consolidated Net Revenue and Appropriation Account 1958-59  
*(d)* —Consolidated Balance Sheet 1958-59

## PUBLIC ELECTRICITY SUPPLY INDUSTRY—CONSOLIDATED

TABLE LIII (a)—

1957-58			Government & Boards	Municipalities	Companies	Total
		<b>1. TO GENERATION ASSETS—</b>				
		(a) Steam Power Stations—				
G	6,212	(i) Land .. .. .	282	5	78	365
M		(ii) Buildings .. .. .	713	7	740	1,460
C	4,369	(iii) Boilers, Turbines etc. .. .. .	7,452	333	3,549	11,334
		(iv) Other equipments .. .. .	10	..	80	90
	10,581	Group Totals .. .. .	8,457	345	4,447	13,249
		(b) Oil Power Stations—				
G	1,093	(i) Land .. .. .	19	1	10	30
M	33	(ii) Buildings .. .. .	152	7	64	223
C	512	(iii) Engines, generators etc. .. .. .	1,317	162	426	1,905
		(iv) Other equipments .. .. .	..	..	1	1
	1,638	Groups Total .. .. .	1,488	170	501	2,159
		(c) Hydro Power Stations—				
G	10,926	(i) Land .. .. .	319	1	72	392
M	81	(ii) Buildings .. .. .	414	4	76	494
C	1,412	(iii) Hydraulic Power Plant .. .. .	8,171	30	283	8,484
		(iv) Civil Works .. .. .	5,971	29	994	6,994
	12,419	Group Totals .. .. .	14,875	64	1,425	16,364
	24,638	SUB TOTAL (Generation Assets) .. .. .	24,820	579	6,373	31,772
		<b>2. TO TRANSMISSION ASSETS</b> .. .. .	5,530	9	1,453	6,992
		<b>3. TO DISTRIBUTION ASSETS—</b>				
G	10,556	(a) Cables and Mains .. .. .	8,344	961	2,614	11,919
M	1,393	(b) Sub-Stations, Transformers .. .. .	2,884	427	1,090	4,401
C	5,309	(c) Service Lines .. .. .	1,225	313	1,135	2,673
		(d) Public lighting .. .. .	501	44	173	715
		(e) Meters, testing instruments, etc. .. .. .	1,417	319	717	2,453
	17,258	Group Totals .. .. .	14,371	2,061	5,729	22,161
		<b>4. TO GENERAL ASSETS—</b>				
G	1,323	(a) Special structures tools etc. .. .. .	1,000	180	259	1,439
M	148	(b) Office equipment, furniture etc. .. .. .	538	56	167	761
C	441	(c) Motor Cars, Vans, Cycles etc. .. .. .	263	14	75	352
	1,912	Group Totals .. .. .	1,801	250	501	2,552
		<b>5. INTANGIBLE ASSETS—</b>				
G	463	(a) Good will .. .. .	..	..	10	10
M	5	(b) Preliminary expenses .. .. .	204	1	39	244
C	132	(c) Expenses Capitalised .. .. .	427	..	100	527
	600	Group Totals .. .. .	631	1	149	781
		<b>6. TO SPECIAL ITEMS—</b>				
M	1,114	(Tramways in the case of Bombay) .. .. .	..	1,228	—	1,228
	1,114	Group Totals .. .. .	..	1,228	—	1,228
		Total carried to General Balance sheet .. .. .	47,153	4,128	14,205	65,486
G	34,635					
M	2,775					
C	13,518	50,928				

G—Government. M—Municipalities. C—Companies.



## ANNUAL ACCOUNT FOR THE YEAR ENDED 31st MARCH, 1959

## CAPITAL ACCOUNT—1958-59

(Figures represent Rs. in lakhs)

1957-58			Government & Boards	Municipali- ties	Companies	Total
		<b>1. BY CAPITAL RAISED—</b>				
		(a) Invested by States—				
G	36,409	(i) Government undertakings .. ..	47,420	..		
M	1,533	(ii) Municipal undertakings .. ..	..	2,443		
		(iii) Other grants and advances .. ..	2,148	..		
	37,942	Group Totals .. ..	49,568	2,443	..	52,011
		(b) Invested by Private Sector—				
Co.		(i) Ordinary Share Capital .. ..	..	..	3,913	
O	3,898	(ii) Preference Share Capital .. ..	..	..	666	
P	663	(iii) Debenture and other Secured Loan Capital.	..	..	2,471	7,050
D	2,308					
	6,869					
G	355					
M	..					
C	180	<b>2. BY CAPITAL RESERVE .. ..</b>	483	..	165	648
	535					
G	99	<b>3. BY CONSUMERS CONTRIBUTION FOR SERVICE LINES.</b>	135	129	708	972
M	87					
C	580					
	766					
	46,112		50,186	2,572	7,923	60,681

TABLE LIII(b)—

1957-58			Government & Boards	Municipali- ties	Companies	Total	
<b>TO OPERATING EXPENSES—</b>							
<b>1. Generation—</b>							
G	720						
C	775	1,495	(a) (i) Coal .. .. .	9 15	87	920	1,922
G	83						
M	10						
C	124	217	(ii) Oil .. .. .	105	17	130	252
G	39						
M	3						
C	36	78	(iii) Consumable Stores .. .. .	49	2	25	76
G	230						
M	7						
C	133	370	(b) Salaries and Wages .. .. .	292	16	133	441
G	237						
M	6						
C	104	346	(c) Repairs and maintenance .. .. .	301	6	128	435
<i>(d) Purchase of energy:—</i>							
G	177						
M	258						
C	641	1,076	(i) From other utilities .. .. .	225	377	711	1,313
G	14						
O	3	17	(ii) From non-utilities .. .. .	18	..	4	22
G	32		<b>2. Transmission—</b>				
C	19	51	(a) Salaries and Wages .. .. .	41	2	20	63
G	19						
C	5	24	(b) Repairs and maintenance .. .. .	24	..	9	33
G	217		<b>3. Distribution—</b>				
M	27						
C	155	399	(a) Salaries and Wages .. .. .	276	52	172	500
G	170						
M	29						
C	94	293	(b) Repairs and Maintenance .. .. .	216	31	103	350
G	28						
M	7						
C	27	62	(c) Public lighting (attendance repairs and renewals).	35	10	28	73
G	136		<b>4. Consumers servicing—</b>				
M	27						
C	122	285	(a) Salaries and Wages (billing accounting etc.)	173	36	137	340
G	28						
M	15						
C	40	83	(b) Other expenses .. .. .	36	33	82	151
G	234						
M	75						
C	316	625	<b>5. Management Expenses</b> .. .. .	297	112	318	727
G	678						
M	50						
C	341	1,069	<b>6. Depreciation</b> .. .. .	992	69	411	1,472
G	3,042						
M	513						
C	2,935	6,490	<b>Total operating expenses</b> .. .. .	3,995	850	3,331	8,176
G	1,172						
M	189						
C	803	2,164	<b>To balance carried over</b> .. .. .	1,395	278	816	2,489
G	4,214						
M	702						
C	3,738	8,654	<b>Total</b> .. .. .	5,390	1,128	4,147	10,665

## REVENUE ACCOUNT--1958-59

(Figures represent Rs. in lakhs)

1957-58			Government & Boards	Municipali- ties	Companies	Total	
BY OPERATING REVENUES--							
(1) Sales of electricity--							
G	1,253						
M	405						
C	1,327	2,985	(i) Domestic and Commercial .. ..	1,602	574	1,238	3,414
G	1,647						
M	217						
C	1,814	3,678	(ii) Industrial .. ..	2,107	352	2,231	4,690
G	253						
M	6						
C	21	280	(iii) Irrigation .. ..	324	10	22	356
G	148						
M	24						
C	82	254	(iv) Public lighting .. ..	189	34	88	311
G	630						
M	2						
C	362	994	(v) Distributing licences .. ..	806	90	442	1,338
G	55						
M	22						
C	55	132	2. Meter and other rentals .. ..	70	30	54	154
G	2						
M	1						
C	11	14	3. Income from public lighting maintenance	3	1	11	16
G	226						
M	25						
C	66	317	4. Miscellaneous receipts .. ..	289	37	61	387
G	4,214						
M	702						
C	3,738	8,654		5,390	1,128	4,147	10,665

TABLE LIH(c)—NET REVENUE

1957-58			Government & Boards	Municipali- ties	Companies	Total
		To Appropriations (Applicable to local authority licensee only)—				
	32	(a) Interest on loan capital .. ..	..	67	..	67
	30	(b) Instalment of redemption of loan capital	..	38	..	38
	43	(c) General Rates .. .. .	..	34	..	34
G M C	6 1 122	129 To Taxes on Income and Profits .. ..	8	2	146	156
M C	11 8	19 To instalment of Write Down in respect of intangible assets.	..	..	11	11
G M C	23 3 46	72 To contribution towards contingencies reserve	..	3	47	50
C	7	7 To appropriation to tariffs and dividends Control Reserve.	—	2	8	10
M C	1 7	8 To appropriation to consumers Rebate Reserve.	..	2	9	11
G M C	182 64 248	494 To other appropriations .. .. .	260	120	211	591
		To appropriations towards interest paid and accrued and Dividends paid and payable—				
G C	1,394 99	1,493 (a) Interest on Debentures and other secured loans.	1,845	..	114	1,959
M C	2 10	12 (b) Interest on consumers security deposits	..	2	11	13
C	25	25 (c) Interest on the Un-secured loans, advances, deposits, bankover drafts etc.	..	..	24	24
C	39	39 (d) Dividends on Preference Share Capital ..	..	..	38	38
C	269	269 (e) Dividends on Ordinary Share Capital ..	..	..	274	274
G M C	186 10 82	278 To Balance of loss carried over from previous year.	506	..	—	506
M C	57 13	70 To Balance carried over to General Balance Sheet.	..	63	5	68
G M C	1,791 254 975	3,020	2,619	333	898	3,850

## AND APPROPRIATION ACCOUNT—1958-59

(Figures represent Rs. in lakhs)

1957-58			Government & Boards	Municipali- ties	Companies	Total
G	1,172					
M	189					
C	803	2,164	1,395	278	816	2,489
G	31					
M	13					
C	15	59	40	16	16	72
G	82					
M	3					
C	54	139	105	1	55	161
M	4	4	..	(—)26	..	(—)26
M	45					
C	103	148	..	64	11	75
G	506	506	1,079	..	..	1,079
G	1,791					
M	254					
C	975	3,020	2,619	333	898	3,850

TABLE LIII(d)--GENERAL BALANCE SHEET

1957-58		Government & Boards	Municipali- ties	Companies	Total
46,112	Fixed capital raised and appropriated as per the capital account.	50,186	2,572	7,923	60,681
827	Capital Redemption Reserve .. ..	..	901	177	1,078
	<b>RESERVE AND SURPLUS</b>				
4,061	Non-statutory Reserve .. ..	3,180	547	1,842	5,569
513	Contingencies Reserve Fund .. ..	..	23	269	292
56	Tariffs and Dividends Control Reserve .. ..	..	95	37	132
87	Consumer's Rebate Reserve .. ..	..	1	75	76
70	Balance of net revenues and Appropriations account.	..	63	5	68
	<b>CURRENT LIABILITIES AND PROVISIONS</b>				
5,868	Creditors on open accounts .. ..	7,024	178	681	7,783
2,798	Consumers' Security Deposits .. ..	3,135	115	477	3,727
918	Accounts payable .. ..	..	252	872	1,124
1,667	Temporary accommodations, Bank over-drafts and other finances.	1,645	47	383	2,075
62,977		65,170	4,794	12,641	82,605

AS ON 31st MARCH 1959

(Figures represent Rs. in lakhs)

1957-58		Government & Boards	Municipali- ties	Companies	Total
50,928	Capital expenditure on works as per the capital Accounts.	47,153	4,128	14,205	65,486
7,854	Less— Accumulated provisions for Depreciation ..	3,760	951	4,328	9,039
43,074	<b>NET BLOCK</b> .. .. .	<b>43,393</b>	<b>3,177</b>	<b>9,877</b>	<b>56,447</b>
	<b>CURRENT ASSETS</b>				
7,348	Capital works in progress .. ..	6,141	85	405	6,631
	Stores and materials in hand—				
423	(a) Fuel coal and or oil etc. at cost ..	605	14	65	684
4,014	(b) General Stores at or below cost ..	5,187	358	672	6,217
1,206	Sundry debtors for electricity supplied ..	1,033	162	561	1,756
777	Other debtors .. .. .	897	46	215	1,158
1,105	Accounts receivable .. .. .	1,601	92	74	1,767
	Investments in statutory securities at cost—				
220	(a) Contingencies Reserve Fund investment (Market value on closing date).	..	3	234	237
2,875	(b) Other investments (Market value on closing date).	3,767	462	142	4,371
	Special Deposits—				
42	(a) In respect of taxation .. .. .	..	2	60	62
306	(b) Others .. .. .	472	47	18	537
	Balance at Bank—				
300	(a) Deposit Account .. .. .	187	197	39	423
629	(b) Current account and at call .. ..	666	112	242	1,020
96	Cash in hand .. .. .	61	35	27	123
	Debit Balances—				
56	Deferred payments .. .. .	81	2	10	93
506	Debit balance of net revenue and appropriations accounts.	1,079	..	..	1,079
62,977		65,170	4,794	12,641	82,605

Some Important Financial features for the year 1954 to 1959 are given in Table LIV

TABLE LIV—FINANCIAL DATA OF THE PUBLIC ELECTRICITY SUPPLY INDUSTRY—  
1954-59

	Unit	1954	1955	1956-57	1958	1959
A. Installed Capacity .. ..	kW.	2,493,996	2,694,817	2,886,141	3,223,111	3,511,586
Average Capital Outlay per kW installed—						
(a) Generation .. ..	Rs.	518	589	878	764	905
(b) Transmission, distribution etc.	Rs.	540	603	879	781	925
	Rs.	1,058	1,192	1,757	1,545	1,830
B. Number of Consumers ..	No.	2,164,782	2,508,580	2,825,802	3,207,508	3,617,849
Average Capital Outlay per consumer—						
(a) Generation .. ..	Rs.	597	632	896	768	878
(b) Transmission, distribution, etc.	Rs.	622	648	808	785	898
	Rs.	1,219	1,280	1,794	1,553	1,776
C. Maximum Demand ..	kW.	1,625,123	1,849,672	1,989,774	2,288,212	2,542,955
Average Capital Outlay on transmission, distribution etc. per kW of maximum demand.	Rs.	828	879	1,276	1,100	1,277
D. Total Capital Outlay—						
(a) On Electrical Works ..	Rs. (Crores)	264	321	507	498	643
(b) Non-Electrical Works like tramways and Omnibus.	Rs. (Crores)	4	5	10	11	12
	Rs. (Crores)	268	326	517	509	655

	1954		1955		1956-57		1958		1959	
	Outlay	Per cent of Total	Outlay	Per cent of Total	Outlay	Per cent of Total	Outlay	Per cent of Total	Outlay	Per cent of Total
<b>SEGREGATION</b>										
Public Sector .. ..	161·25	60	211·93	65	393·96	76	374·10	73	512·81	78
Private Sector .. ..	107·01	40	114·28	35	122·93	24	135·18	27	142·05	22
	268·26	100	326·21	100	516·89	100	509·28	100	654·86	100
Additions during the year ..	57·77	..	57·95	..	190·68	..	See note under St. LII.		145·58	..
<b>SEGREGATION</b>										
Public Sector .. ..	49·45	86	50·68	87	182·03	95	See note under St. LII.		138·71	95
Private Sector .. ..	8·32	14	7·27	13	8·65	5	See note under St. LII.		6·87	5
	57·77	100	57·95	100	190·68	100	See note under St. LII.		145·58	100



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**SECTION 7**  
**ADDRESSES OF PUBLIC ELECTRICITY SUPPLY UNDERTAKINGS**  
**& SYSTEM OF SUPPLY**

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97-08



## ANDHRA PRADESH

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>BOARD</b>				
1-1	Anantapur Distt. Chittoor Distt. Cuddapah Distt. Kurnool Distt.	The Chief Engineer, for Electricity, Andhra Pradesh Electricity Board, Opposite Bella Vista, P.O. Hyderabad-4.	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	Guntur Distt. Krishna Distt. Nellore Distt. West Godavary Distt.	The Chief Engineer, for Electricity, Andhra Pradesh Electricity Board, Opposite Bella Vista, P.O. Hyderabad-4.	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. 1 ph. A.C. 50 cy.
1-3	East Godavary Distt. Srikakulam Distt. Visakhapatnam Distt.	The Chief Engineer, for Electricity, Andhra Pradesh Electricity Board, Opposite Bella Vista, P.O. Hyderabad-4.	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.
1-4	Nizamsagar Hydro Electric Scheme.	The Chief Engineer, for Electricity, Andhra Pradesh Electricity Board, Opposite Bella Vista, P.O. Hyderabad-4.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-5	Hyderabad City	The Chief Engineer, for Electricity, Andhra Pradesh Electricity Board, Opposite Bella Vista, P.O. Hyderabad-4.	400 230	2 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-6	Hyderabad Construction and Operation Division— Aligol Andhole Chandiappa Gajwel Ibrahimpattam Kandi Mikkapalli Medak-Yellareddy Section. Nandikandi Narsapur Patancheru Sankarapalli Siddipet Vikarabad	The Chief Engineer, for Electricity, Andhra Pradesh Electricity Board, Opposite Bella Vista, P.O. Hyderabad-4.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

## ANDHRA 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	Kammameth Construction and Operation Division— Aswaraopet Boorgampad Hazurnagar Khanmameth Khanmameth Division Centre Miryalguda Mahaboobabad Palvancha Suryapet Yallandu	The Chief Engineer for Electricity, Andhra Pradesh Electricity Board, Opposite Bella Vista, P.O. Hyderabad-4.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-8	Mahaboobnagar Construction and Operation Division— Atechampet Bedapalli Chevella Devarkadra Husnabad & Jogipet Jad Cherlia Kollapur Kosgi Kalwakurthy Kodangal Kavarampet Mahaboobnagar Sub. Division Makkal Narayanpet Narayanpet Sub Division Nagarkurnoop Pargi Ramjal & Sadashivpet Shadnagar Shabad Tandur Tandur Sub Division Wanaparthi Road Zahirabad	The Chief Engineer for Electricity, Andhra Pradesh Electricity Board, Opposite Bella Vista, P.O. Hyderabad-4.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-9	Mackkund	The Chief Engineer for Electricity, Andhra Pradesh Electricity Board, Opposite Bella Vista, P.O. Hyderabad-4.	132,000	3 ph. A.C. 50 cy.
1-10	Nizamabad Construction and Operation Division— Armoor Anksapur Adloor Yellareddy Adilabad Bhainsa Both Bardikur Barelipur	The Chief Engineer for Electricity, Andhra Pradesh Electricity Board, Opposite Bella Vista P.O. Hyderabad-4.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

ANDHRA PRADESH—*contd.*

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<i>BOARD—contd.</i>				
1-10	Nizamabad Construction and Operation Division—  Banswada Bodhan Chepur Dharamavaram Balkonda Dichapalli R.S. Dichapalli Village Dilwarpur Edapalli Janakampet Kalwaral Khanapur Kumareddy Mancherial Manjulapur Mallapally Munipalli Mudhol Nallapalli Nizamabad Narasapur Nirmal Nanjulapur Perket Pedgal Sirnappalli Soan Utnoor Velpur Yadapalli	The Chief Engineer, for Electricity, Andhra Pradesh Electricity Board, Opposite Bella Vista, P.O. Hyderabad—4.		
1-11	Ramagundam Construction and Operation Division.  Appannapet Arepalli Azamabad (Karimnagar) Elgandal Irukulla Jagtial Kothapalli Kolmer Lingapur Metapalli Manthani Manakondur Maniampalli Manyampalli Parlapalli Porandla Peddapalli Potakapally Rangampalli	The Chief Engineer for Electricity, Andhra Pradesh Electricity Board, Opposite Bella Vista, P.O. Hyderabad-4.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

## ANDHRA PRADESH—concl.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>BOARD—concl.</b>				
1-11	Ramagundam Construction and Operation Division— Ramagundam Village Ramagundam Colony Suddala Sirsilla Sultanabad Venularoda Wedra Yelgandal	The Chief Engineer for Electricity, Andhra Pradesh Electricity Board, Opposite Bella Vista, P.O. Hyderabad-4.		
1-12	Ramagundam	The Chief Engineer for Electricity, Andhra Pradesh Electricity Board, Opposite Bella Vista, P.O. Hyderabad-4.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-13	Secunderabad Construction and Operation Division Madchal	The Chief Engineer for Electricity, Andhra Pradesh Electricity Board, Opposite Bella Vista, P.O. Hyderabad-4.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-14	Tungabhadra Hydro Electric Scheme.	The Divisional Engineer, Operation & Maintenance, Tungabhadra Dam P.O.		
1-15	Warrangal Construction and Operation Division, Digwal Devarkonda Jaigiri Jangaon Mulug Narsanpet Nalgonda Parkal Ramannapet Sultanpur Sargareddy Warrangal	The Chief Engineer for Electricity, Andhra Pradesh Electricity Board, Opposite Bella Vista, P.O. Hyderabad-4.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
<b>MUNICIPALITIES</b>				
2	Masulipatam ..	The Commissioner, Masulipatam Municipality, Masulipatam.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
3	Vijayawada ..	The Commissioner, Vijayawada Municipality, Vijayawada.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
<b>COMPANIES</b>				
4	Anakapalle ..	The Annakapalle Electric Supply Corporation Ltd., M/A. M/S. Andhra Engineering Co. (Private) Ltd., 24/342, Danavaspeta, Rajahmundry.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
5	Bobbili ..	M. S. Motor & General Stores (Private) Ltd., Bobbili	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Chittoor ..	The Chittoor Electric Supply Corporation Ltd., Chittoor.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Eiluru ..	The Ellore Electric Supply Corporation Ltd., M/A. M/S. Chandrie & Co., P.O. Box No. 156, Madras-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
8	Mahboobnagar ..	The Mahboobnagar Electricity Consumer's Cooperative Society Ltd., Mahboobnagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
9	Wanaparthy ..	M/S. Power Supply Industrial Co., P.O. Wanaparthy, Distt. Mahboobnagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

## ASSAM

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>BOARD</b>				
1-1	Gauhati Division— Gauhati	The Chief Electrical Engineer, Assam State Electricity Board, Shillong.	11,000 3,300	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy.
1-2	Jorhat Division— Dibrugarh A.M.C. Doomdooma Dergaon. Golaghat. Jorhat. Jorhat, A.A.C. North Lakhimpur. Sibsagar. Titabar.	The Chief Electrical Engineer, Assam State Electricity Board, Shillong.	400 230 440 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
1-3	Nowgong Division Aijal Diphu. Hailakandi. Hojai. Karimganj. Nowgong.	The Chief Electrical Engineer, Assam State Electricity Board, Shillong.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-4	Tezpur Division— Charali. Dhekiajuli. Goalpara. Kokrajhar. Nalbari. Mangaldai. Saulkuchi. Tura. Tezpur.	The Chief (Electrical) Engineer, Assam State Electricity Board, Shillong.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-5	Umtru Division— Umtru	The Chief Electrical Engineer, Assam State, Electrici- ty Board, Shillong.	6,600 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
<b>COMPANIES</b>				
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.	400 220	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, Prinscp Street, Calcutta 13.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

ASSAM—*concd.*

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>COMPANIES—<i>concd.</i></b>				
6	Silchar	The Silchar Electric Supply Ltd., M/A. M/S. Sarada Charan Barda Kanta Roy, Silchar.	440 200	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.
<b>BIHAR BOARD</b>				
1-1	Aurangabad Division— Aurangabad Daltenganj Baroon Jalpa	The Chief Electrical Engineer, Bihar State Electricity Board, Patna.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-2	Arrah Division— Arrah Town Arrah Buxar	The Chief Electrical Engineer, Bihar State Electricity Board, Patna.	400 230 460 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 wire. D.C. 1 wire.
1-3	Bettiah Division— Bettiah Barigania Chakia	The Chief Electrical Engineer, Bihar State Electricity Board, Patna.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-4	Behar Shariff Division— Behar Shariff No. I Behar Shariff No. II Sheikhpura	The Chief Electrical Engineer, Bihar State Electricity Board, Patna.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-5	Chapra Division— Chapra Hajipur Mirganj Siwan	The Chief Electrical Engineer, Assam State Electricity Board, Patna.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-6	Dhanbad Division— Dhanbad Digwadih Gomo Nirsachatti (Bajena) Ganeshpur & Mohuda	The Chief Electrical Engineer, Bihar State Electricity Board, Patna.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-7	Dehri-on-Sone Division— Dehri-on-Sone 1 & 2 (Barun) Bhahna Sasaram	The Chief Electrical Engineer, Bihar State Electricity Board, Patna.	3,300 400 230	3 ph. A.C. 50 cy. 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—contd.				
1-8	Deogarh Division— Deogarh-Madhupur Dumka Jamtara Pakur Sahibganj	The Chief Electrical Engineer, Bihar State Electricity Board, Patna.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-9	Gaya Division— Gaya I & II Jehanabad Nawadah	The Chief Electrical Engineer, Bihar State Electricity Board, Patna.	2,200 400 230 440 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 wire. D.C. 1 wire.
1-10	Hazaribagh Division  Chatra Giridih Hazaribagh Netarhat Ranchi Rural Ramgarh	The Chief Electrical Engineer, Bihar State Electricity Board, Patna.	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.
1-11	Katihar Division— Begusarai Katihar Khagaria Kishanganj Saharsa	The Chief Electrical Engineer, Bihar State Electricity Board, Patna.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-12	Kodarma Division— Domchanch Kodarma (Jhumaritilla) Ganwan	The Chief Electrical Engineer, Bihar State Electricity Board, Patna.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-13	Monghyr Division— Monghyr Lakhsarai	The Chief Electrical Engineer, Bihar State Electricity Board, Patna.	400 230 460 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 wire. D.C. 2 wire.
1-14	Muzafferpore Division— Muzafferpore Madhubani (Sakri) Motihari Pusa Samastipur Sitamarhi	The Chief Electrical Engineer, Bihar State Electricity Board, Patna.	3,300 400 230 460 230 440 220	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. D.C. 3 wire. 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.
<b>BOARD—concl'd.</b>				
1-15	Patna Division— Bihta Mokanch Marsaurhi Patna Parh	The Chief Electrical Engineer, Bihar State Electricity Board, Patna.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-16	Singhbhum Division— Chaibasa Ghatsila Jamshedpur Naonandi	The Chief Electrical Engineer, Bihar State Electricity Board, Patna.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
<b>POWER CORPORATION</b>				
2	Damodar Valley Corporation— Bokaro Tilaiya	The Chief Electrical Engineer, Damodar Valley Corporation, Anderson House, Alipore, Calcutta 27.	33,000 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.
<b>COMPANIES</b>				
3	Bhagalpur	The Bhagalpur Electric Supply Co., M/A. M/S. Octavious Steel & Co. Ltd., 14, Old Court House Street, Calcutta 1.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
4	Chaibasa	The Chaibasa Electric Supply Co., C/O. M/S. Madan Gopal, Chaibasa.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
5	Chirkunda	The Chirkunda Electric Supply Co. Ltd., P.O. Barakar, Distt., Burdwan.	400 230	1 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Darbhanga Lehrisari	The Darbhanga Lehrisari Electric Supply Corporation Ltd., M/A. M/S. Baroliya Bros., Darbhanga.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Jharia Coal Field	The Jharia Coal Field Electric Supply Co. Private Ltd., P.B. No. 16, Dhanbad.	400 230 440 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 2 wire. D.C. 2 wire.
8	Jugsalai	The Jugsalai Electric Supply Co., C/O M/S. Mangilal Rungta, Jugsalai (Tatanagar) B.N. Rly.	400 230	3 ph. A.C. 50 cy. 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.	3,300 400 230 440 220	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.
10	Patna	The Patna Electric Supply Co. Ltd., M/A. M/S. Octavious Steel & Co. Ltd., 14, Old Court House Street, 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 (Jharish)	The Sijua (Jharish) Electric Supply Co. M/A. M/S. Bird & Co. Private Ltd. P.O. Bansjora (Distt. Dhanbad).	10,000 6,300 500	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy.

## BOMBAY STATE

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>BOARD</b>				
1-1	Akola Division— Akola Akola Buldana Balapur Bori Chikhli Deolgaon Raja Digras Dawha Jalgaon Malkapur Mangrol Malegaon Mahuli Murtizapur Nandura Nemgaon Niagaon Patur Pusad Shegaon Umerkhed Washim Warud Wailingni	The Chief Engineer, Bombay 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 Arva Achalpur Anjangaon Akot Badnera Borgaon Bargaon and Jamnagar Chandur Railway Chekalda Chandur Bazar Daryapur Dapari Dhamangaon Hiverkhad Jarud Kajali Karajgaon Karanja Morshi Navsari Nandgaonpeth Paratwada Pusla Pulgaon Rahatgaon	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. . 50 cy.

BOMBAY STATE—*contd.*

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>BOARD—<i>contd.</i></b>				
1-2	Amravati Division— <i>contd.</i> Rewas Rohana (Pulgaon Rural) Shendurjana Jemburkhara Virul Warud Walgaon	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.		
1-3	Bombay Division— Ambarnath.	The Executive Engineer, Bombay Electric Division, P. W. D. Offices, Veer Nariman Road, Bombay-1.	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.
1-4	Ballarshah Power House Division—  Ballarshah	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	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.
1-5	Baroda Division— Baroda Chota Udepur Deogad Baria Rajpipla Santrampur	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-6	Chola	The Chief Electrical Engineer, Central Railway, Bombay V.T.	95,000	3 ph. A.C. 50 cy.
1-7	Dhoraji Division—  Bhanvad Dhoraji Upleta Jamjodhpur Manvadar	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	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.
1-8	Jamnagar Division—  Dhrol Jodiya Jamkhabalia Jamnagar	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	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.
1-9	Junagadh Division—  Amarnagar Bagasara Chorwad Junagadh Keshod Mangro Talala Una Veraval Vadia	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

## BOMBAY STATE—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.				
1-10	Kolhapur Division— Chiplun Islampur Kolhapur Suburban Malvan Ratnagiri Radhanagri Hydro- Electric Scheme. Vengurla	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-11	Khaperkheda Power House Division—  Khaperkheda	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	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.
1-12	Kalyan Division—  Jawhar Janjira Murud Ulhasnagar Kalyan	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-13	Kutch Division—  Bhuj Mandvi Mundra Nakhatrana Kandla	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	400 230 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 2 wire.
1-14	Marathwada Division— Aurangabad Bhir Chopda Dharangaon	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	6,600 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-15	Nanded Division—  Hingoli Latur Nanded Osmanabad Parbhani Parsi Vajjnath	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-16	Nagpur North Division— Bhandara (L.I.S. Centre) Boteshwar (L.I.S. Centre) Dovadi Dogriburruk Gondia Ganeshpur Golurwahi Kondhali Khapa Kamptee Kamptee Urban Lakhani	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

## BOMBAY STATE—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.				
1-16	Nagpur North Division —contd. Mohgaon Bothali Mohgaon (L.I.S. Centre) Mandeshwaa (L.I.S. Centre). Mohari Mitewani Mowad Mopha Madgi Markhed Paonarkheri Parodsinga Ramtek Saoner (Rural & Urban) Tirora Tumsar Taradasinga Warthi	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.		
1-18	Nagpur South Division—  Bhiwapur .. .. Brahamapuri Bhandak Chanda Deoli Hinganghat Kalmeshwar Nagpur Nagbhir Pauni Seloo Sindhewali Talodi Umrer Wardha Warora Wani Mal Rajura Rajauli	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-19	North Gujrat Grid— Himmatnagar Mansa Vijapur	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	22,000 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.
1-20	Palitana Division—  Botad Gadhada Lathi Mahuva Palitana Rajula Vallabhipur	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

## BOMBAY STATE—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.				
1-21	Porbander Division— Port Okha Porbander	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-22	Rajkot Division— Gondal Jasdan Kotda Sangui Morvi Rajkot Virupur	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	400 230 460 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 wire. D.C. 2 wire.
1-23	Surendranagar Division— Chotila Dharangadhra Halwad Lakhtar Sayla Surendranagar	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	400 230 460 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 wire. D.C. 2 wire.
1-24	Shahpur Division— Shahpur	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	6,600	3 ph. A.C. 50 cy.
1-25	Sabarmati Division— Deesa Dhandhuka Modasa Radhanpur	The Chief Engineer, Bombay 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.
1-26	Sikka Power House Division— Sikka	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-27	Sholapur			
1-28	Poona Division— Bhatgar & Phalten Satara Rural Talegaon-Pimpri Ulhaanagar Wai	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	2,000 400 230 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 2 wire.
1-29	Utran Power House Division— South Gujrat Grid Baher Banada Dharampur Utran	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	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.

## BOMBAY STATE—contd.

Serial No.	Area or Town served; system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>MUNICIPALITIES</b>				
2	Baroda	The Electrical Engineer, Department of Electricity, Baroda, Borough Municipality, Post Box No. 17, Baroda-1.	11,000 400 230	3 ph. A.C. 50 cy. 3 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	B.E.S.T. (Bombay City)	The Bombay Electric Supply & 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.
5	Karjan	The President, Karjan Municipality, Karjan	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Muli	The President, Muli Municipality, Muli	230	D.C. 2 wire.
7	Nar Gram Panchayat	The Electrical Engineer, Nar Gram Panchayat, Nar (via Anand).		
8	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.
9	Patan	The Electrical Engineer, Patan Municipality, Patan	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	Petlad	The Electrical Engineer, Petlad Municipality, Petlad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
11	Sojitra	The President, Sojitra Municipality, Sojitra	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
12	Sankheda	The Sankheda Municipal Electric Power House, Sankheda.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
13	Savantwadi	The Electrical Engineer, Savantwadi Municipality, Savantwadi.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
14	Vadnagar	The Chief Officer, Electricity Department, Vadnagar Municipality, Vadnagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
15	Visnagar	The Chief Officer, Visnagar Municipality, Visnagar	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
16	Yeola	The Electrical Engineer, Yeola Municipal Power House, Yeola	460 230	D.C. 3 wire. D.C. 2 wire.
<b>COMPANIES</b>				
17	Ahmedabad	The Ahmedabad Electrical Co. Private 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.
18	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.



## BOMBAY STATE—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>COMPANIES—contd.</b>				
19	Amreli	The Amreli Electricity Co. Ltd., M/A. M/S. Mehta Patel & Sheth Co., Amreli.	440 230	D.C. 3 Wire. D.C. 2 Wire.
20	Amalner	The Amalner Electric Supply Co. Ltd., Amalner	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
21	Anand	The Anand Electric Supply Co. Ltd., M/S. Sonawala Co. Ltd., Sonawala Buildings, 59, Apollo Street, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
22	Anjar	M/S. Shah Spinning and Weaving Mills, Anjar	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
23	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.
24	Akalkot	The Vijayasingh Electric Supply Co., Akalkot	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
25	Aundh	The Light & Power Suppliers Ltd., (Aundh Branch), M/S. 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.
26	Bajana	Shri Babu Lal Valji, Proprietor, Bajana Power House Via Patri.	230	D.C. 2 Wire.
27	Baramati	The Baramati Electric Supply Co. Private Ltd., M/S. Poonawala & Co., 182, Raviwar Peth, Poona.	460 230	D.C. 3 Wire. D.C. 2 Wire.
28	Bardoli	Shree Sardar Kheti Sahayak Vidaya Mandal Ltd., Bardoli (Distt. Surat).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
29	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.
30	Bassein	The Bassein Electric Supply Co. Ltd., M/A. M/S. J.B. Manckji & Co. Ltd., Mehta House, Apollo Street, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
31	Belapur-Kopergaon	The Belapur-Kopergaon Supply Co. Ltd., Shirampur, Distt. Ahmednagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
32	Bhiwandi	The Bhiwandi Electric Supply Co. The Amalgamated Electricity Co. Ltd., 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.
33	Bhusawal	The Bhusawal Electric Supply Co., The Amalgamated Electricity Co. Ltd., 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.
34	Bulsar	The Bulsar Electric Supply Co., The Amalgamated Electricity Co. Ltd. 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.

BOMBAY STATE—*contd.*

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>COMPANIES—<i>contd.</i></b>				
35	Bhor	The Bhor Electric Supply Co. 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.
36	Bhilka	M/S. Unity Power House, Bilkha	230	D.C. 2 Wire.
37	Bilimora	The Bilimora Electric Supply Co., Ltd., Bilimora	460 230	D.C. 3 Wire. D.C. 2 Wire.
38	Bhavnagar	The Bhavnag Electricity Co. Ltd., P.O. Box No. 45, Bhavnagar.	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.
39	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.
40	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.
41	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.
42	Cambay	The Cambay Electric Supply & Industrial Co. Ltd., M/A. M/S. A.A. Meeyajee & Co., Private Ltd., Power House, Bombay.	400 230 460 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
43	Chalisgaon	The Chalisgaon Electric Supply Co., The Amalgamated Electricity Co. Ltd., M/A. M/S. N.C. Javeri & Co., Post Box No. 870, 17-B, Horniman Circle, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
44	Dabhoi	The Dabhoi Electric Supply Co., C/C. Seth Girdhari Lal Moti Lal Contractor, Dabhoi, Distt. Baroda.	440 220	D.C. 3 Wire. D.C. 2 Wire.
45	Dakor Umreth	The Dakor-Umreth Electric Co. Ltd., Dakor	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
46	Dawarka	The Dwarka Electric Supply and Industries, Dwarka	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
47	Dhanera	The Dhanera Electric Supply Co., M/A. M/S. M.A. Master & Sons, Station Road, Palanpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
48	Dhanu Road	The Dhanu Road Peoples Co-operative Supply Society Ltd., Dhanu Road, Distt. Thana.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
49	Dhari	The Dhari Electric Supply Co., Dhari	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
50	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.

## BOMBAY STATE—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.				
51	Dhond	The Dhond Electric Supply Co., Dhond	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
52	Dohad	The Dohad Electric Supply Co., The Amalgamated Electricity Co. Ltd., 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.
53	Godhra	The Godhra Electricity Co. Ltd., M/A. M/S. Udayan & Co., Power House, Godhra.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
54	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.
55	Gandhidham	The Sindhu Resettlement Corporation Ltd., Power Supply Department, Adipur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
56	Ichalkaranji	The Ichalkaranji Electric Supply Co., Ichalkaranji (Distt. Satara).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
57	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.
58	Jalgaon	The Jalgaon Electric Supply Co., The Amalgamated Electricity Co. Ltd., 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.
59	Jalna	The Jalna Electric Syndicate Private Ltd., Jalna	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
60	Jetpur	The Jetpur Electric Supply Co. Ltd., Jetpur	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
61	Jambusar	The Jambusar Electric Supply Co. Ltd., Sarodi Bhagal, Jambusar (Distt. Broach).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
62	Jhalawar (Surendernagar)	The Jhalawar Electric Supply Co. Ltd., M/S. N.D. Mehta & Co., Surendranagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
63	Junnar	The Junnar Electric Supply Co. Ltd., M/S. 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	Kadi	The Kadi Electric Supply Co. Ltd., M/A. M/S. Parik & Co., Kadi.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
65	Kalol	The Kalol Electric Supply and Industrial Co. Ltd., Power House, Kalol (North Gujrat).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
66	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.
67	Karad	The Karad Electric Supply Co. Private Ltd., Karad	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
68	Khamgaon	The Khamgaon Electric Supply Co. Private Ltd., Court House, (4th Floor) (Opposite St. Xavess High School), Carnace Road, Dhobi Talao Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

## BOMBAY STATE—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.

69	Kholvad	The Kholvad Electric Supply Corporation, Kholvad (Distt. Surat).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
70	Kurundwad	The Kurundwad Electric Supply Co., Kurundwad (Distt. Kolhapur).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
71	Kolhapur	The Kolhapur Electric Supply, Kolhapur City	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
72	Koregaon	The Allied Electric Agency Private Ltd., Power House, Koregaon (North Satara).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
73	Limbdi	The Limbdi Electric Supply Co., M/A. M/S. Amulakh Amichand & Co., Limbdi.	460 230	D.C. 3 Wire. D.C. 2 Wire.
74	Lonavala Khandala	The Lonavala Khandala Electric Supply Co. Ltd., Lonavala.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
75	Lunawada	Shree Lunawada Industries & Electricity Co., Lunawada (Via Godhra).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
76	Madhavnagar Budhgaon	The Budhgaon & Madhavnagar Electric Supply Co. Ltd., M/A. M/S. Blossom Agencies Ltd., Satara.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
77	Mahabaleshwar	The Mahabaleshwar 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.
78	Mahad	The Mahad Electric Supply Co. Ltd., 1164-A Madhali Ali, Mahad (Distt. Kolaba).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
79	Malegaon	The Malegaon Electric Supply Co., The Amalgamated Electricity Co. Ltd., 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.
80	Manmad	The Manmad Electric Supply Co., M/A. M/S. Pandit & Co., 15-Forbes Street, Fort, Bombay	2,200 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
81	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.
82	Mehsana	The Mehsana Electric Supply Co. Ltd., Near Model Talkies, 1758/1 Gandhi Road, Ahmedabad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
83	Miraj	The Miraj Electric Supply Co. Ltd., Miraj (South Satara).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
84	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.
85	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.
86	Nandurbar	The Nandurbar Electric Supply Co., M/S. K. S. Guzdar & Co., Allichambers, 4, BC-Dean Lane, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

## BOMBAY STATE—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>COMPANIES—contd.</b>				
87	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.
88	Nasik Deolali	The Nasik Deolali Electric Supply Co., M/A. The Rajputana Textile (Agencies) Ltd., Esplanade 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.
89	Navsari	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.
90	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.
91	Pachora	The Pachora Electric Supply Co. Ltd., Power House, Pachora (East Khandesh).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
92	Palghar Navli	The Palghar-Navli Electric Supply Co., The Light & Power Suppliers Ltd., 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.
93	Panchgani	The Panchgani Electric Supply Co. Ltd., 96, Duncun Road, Byculla, Bombay.	460 230	D.C. 3 Wire. D.C. 2 Wire.
94	Pandharpur	The Pandharpur Electric Supply Co., Pandharpur	460 230	D.C. 3 Wire. D.C. 2 Wire.
95	Panvel Taluka	The Panvel Taluka Electrical Development Co. Ltd., M/A. M/S. Banthia Brothers, Kesar Bag, Panvel.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
96	Poona	The Poona Electric Supply Co., M/A. the Rajputana Textile (Agencies), Private Ltd., Esplanade Mansions, 144-146, Mahatma Gandhi Road, 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.
97	Rander	The Rander Electric Supply Co., Ltd., Lal Bag, Rander, Distt. Surat.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
98	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.
99	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.
100	Sangli	The Jubilee Electric Works, Electric Power House, Sangli.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
101	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.
102	Savda-Faizpur	The Savda Faizpur Electric Supply Co. Ltd., M/A. M/S. Bandale & Sons, 386, Vithalbhai Patel Road, Bombay 4.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

## BOMBAY STATE—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>COMPANIES—contd.</b>				
103	Savarkundla	The Savarkundla Electricity Co. Ltd., M/A. M/S. Sah Electrical Agencies, Savarkundla.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
104	S irpur	The Shirpur Electric Supply Co. Ltd., Shirpur (East Khandesh).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
105	Sidhpur	The Sidhpur Electric Industrial Co. Ltd., Near Station, Sidhpur (Distt. Mehsana).	440 230	D.C. 3 Wire. D.C. 2 Wire.
106	Sinnar	The Sinnar Electric Supply Co. Ltd., M/A. M/S. Deshpande & Co., Sinnar (Distt. Nasik).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
107	Sihor	The Sihor Electric Works, Sihor	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
108	Shirwal	The Shirwal Electric Supply Co., 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.
109	Surat	The Surat Electricity Supply Co., Central Administration Department, M/A. M/S. Killick Industries Ltd., 5, Graham Road (4th floor), Ballard Estate (P.O. Box No. 109), Bombay 1.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
110	Tapi	The Tapi Electric Supply & Industries Ltd. (in liquidation), Kathor (Via Savan).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
111	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.
112	Tasgaon	The Tasgaon Electric General Co-operative Society Ltd., Tasgaon (Distt. Satara).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
113	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.
114	Thanagadh	The Parahuram Pottery Works Co. Ltd., Power House, Thana Pottery, Thanagadh.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
115	Udwada	The Udwada-Vapi Electric Supply Co. Ltd., M/A. M/S. Raiyamand Engineering Co., Electric House, Ganchalla Post, Vapi, Distt. Surat.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
116	Vapi	The Udwada-Vapi Electric Supply Co. Ltd., M/A. M/S. Raiyamand Engineering Co., Electric House, Ganchalla Post, Vapi, Distt. Surat.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
117	Vallabh-Vidayanagar	M/S. Charotor Gramodhar-Sahakari Mandal Ltd., Vallabh-Vidayanagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
118	Vasai	The Vasai Electric Supply Co. Ltd., M/A. M/S., R. Shukla & Co., Vasai-Debhla Taluka Bijapur, Distt. Mehsana.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
119	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.

## BOMBAY STATE—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>COMPANIES—concl.</b>				
120	Vyara-Kanpura	The Vyara Kanpura Electric Supply Co-operative Society Ltd., Vyara, Distt Surat.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
121	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.
122	Wankaner	The Wankaner Electric Supply Co., M/A. M/S. Sarvaiya & Co., Wankaner.	460 230	D.C. 3 Wire. D.C. 2 Wire.
123	Wardha	The Nagpur Electric Light and Power Co. Ltd., Civil Wardha Branch Lines, Post Box No. 2, Nagpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
124	Yeotmal	The Yeotmal Electric Supply Co. Ltd., M/A. M/S. Hassanal & Sons, Yeotmal.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
<b>JAMMU &amp; KASHMIR GOVERNMENT</b>				
1-1	Jammu Division Electric Jammu Kathua Samba	The Chief Engineer Electrical & Mechanical Department, Kashmir State, Srinagar.	3,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-2	Sindh Electric Division— Anantaag Ganderbal	The Chief Engineer, Electrical & Mechanical Department, Kashmir State, Srinagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-3	Srinagar Division— Srinagar Bandipore Pahalgam	The Chief Engineer, Electrical & Mechanical Department, Kashmir State, Srinagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-4	Mohora Division— Mohora Baramulla	The Chief Engineer, Electrical & Mechanical Department, Kashmir State, Srinagar.	2,300 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-5	Basohli	The Chief Engineer, Electrical & Mechanical Department, Kashmir State, Srinagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-6	Rajouri	The Chief Engineer, Electrical & Mechanical Department, Kashmir State, Srinagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-7	Ramnagar	The Chief Engineer, Electrical & Mechanical Department, Kashmir State, Srinagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-8	Poonch	The Chief Engineer, Electrical & Mechanical Department, Kashmir State, Srinagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-9	Udhampur	The Chief Engineer, Electrical & Mechanical Department, Kashmir State, Srinagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

## KERALA

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>BOARD</b>				
1-1	Kerala State Electricity Board.	The Chief Engineer, Kerala State Electricity Board, P.O. Box No. 65, Trivandrum.	66,000 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. 60 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 60 cy.
1-2	Port of Cochin	The Chief Engineer, Kerala State Electricity Board, P.O. Box No. 65 Trivandrum.	400 230 440 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
<b>MUNICIPALITY</b>				
2	Trichur	The Commissioner, Trichur Municipality, Trichur	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
<b>COMPANIES</b>				
3	Calicut (Kozhikode)	The West Coast Electric Supply Corporation Ltd. (Calicut Branch) M/A. M/S. Chandrie & Co., P.B. No. 156, National Insurance Building, 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.
4	Ernakulam	The Cochin State Power & Light Corporation Ltd., M/A. M/S. Chandrie & Co. (Private) Ltd., P.O. Box No. 156, National Insurance Building, Esplanade, Madras 1.	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.
5	Kottayam	The Kottayam Electric Supply Agency, C/O M/S. A. Narayan Moos, Kottayam.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	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.
7	Mattencherry	The Cochin Electric Co., Private Ltd., Mattencherry, Cochin 2.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
<b>MADHYA PRADESH</b>				
<b>BOARD</b>				
1-1	Bhilsai Division—  Akalkara Anjara Arung Balod Badaitole Village Bhatpara Balad Bazar Bhulatola Village	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.



## 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.				
1-1	Bhilai Division—contd. Bilka Bicharpur Basantpur Chhuikhadam Dhamtari Dhara Drug Dongargarh Gathalala Gunderdehi Whara Haldi Jangir Kusumkaas Khairagarh Lukholi Mahasamund Manikhourie Motipur Mungeli Nailla Padamtara Pipara Village Ratanpur Singa Rajim Shankarpur Singarpur Tilai Takhampur Bhilai Rajnandgaon Tilda Neora	The Chief Engineer, Madhya Pradesh Electricity Board, P.O. Box No. 34, Rampur, Jabalpur.		
1-2	Bhopal Division— Bhopal Bareilly Begumganj Hoshangabad Itarsi Khaparkheda Pagara Panjra Pachmarhi Piparia Sanchi Sohagpur Sirpur	The Chief Engineer, Madhya Pradesh Electricity Board, P.O. Box No. 34, Rampur, Jabalpur.	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 Bilaspur Champa Dharumjaigarh Jashpuranagar	The Chief Engineer, Madhya Pradesh Electricity Board, P.O. Box No. 34, 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.

## 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.				
1-3	Bilaspur Division—contd. Pendra Road Raigarh Sakti Saranggarh	The Chief Engineer Madhya Pradesh Electricity Board, P.O. Box No. 34, Rampur, Jabalpur.		
1-4	Chhindwara Division—  Amla Betul Betul Bazar Barhmi Bardi Barkhhi (Paruna) Balaghat Chhindwara Chandusgaon Chiekkheda Jamai Junardey Katangi Khairi Mutapi Nonia Katangi Pandhurna Panara Pipta-Narayanwar Sataur Seegaon Sausar Teegaon Warasconi	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.
1-5	Dhar Division—  Barwani Dhar Maheshwar	The Chief Engineer Madhya Pradesh Electricity Board, P.O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-6	Gwalior Division—  Bhind Dabra Datia Gwalior Morena	The Chief Engineer Madhya Pradesh Electricity Board, P.O. Box No. 34, 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.
1-7	Guna Division—  Ashoknagar Chanderi Guna Kurwai Narsinghgarh Rajgarh Shivpuri Vidisha	The Chief Engineer Madhya Pradesh Electricity Board, P.O. Box No. 34, Rampur, Jabalpur.	400 230 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 2 Wire.

## 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.
<b>BOARD—contd.</b>				
1-8	<b>Indore Division—</b>	The Chief Engineer, Madhya Pradesh Electricity Board, P.O. Box No. 34 Rampur, Jabalpur.	22,000	3 ph. A.C. 50 cy.
	Bijapur		11,000	3 ph. A.C. 50 cy.
	Dewas (Jr.)		6,600	3 ph. A.C. 50cy.
	Hotad		400	3 ph. A.C. 50 cy.
	Indore		230	1 ph. A.C. 50 cy.
	Mhow		460	D.C. 3 Wire.
	Rau		230	D.C. 2 Wire.
1-9	<b>Jabalpur Division—</b>	The Chief Engineer, Madhya Pradesh Electricity Board, P.O. Box No. 34 Rampur, Jabalpur.	11,000	3 ph. A.C. 50 cy.
	Amarkantak		400	3 ph. A.C. 50 cy.
	Cosampur		230	1 ph. A.C. 50 cy.
	Garha		440	D.C. 3 Wire.
	Gadarwara		220	D.C. 2 Wire.
	Jabalpur			
	Kareli			
	Katni			
	Kunsner			
	Mandla			
	Narsingpur			
	Patan			
	Panagar			
	Shahdol			
	Sihora			
	Umaria			
	Gotegaon			
1-10	<b>Korba Division—</b>	The Chief Engineer, Madhya Pradesh Electricity Board, P.O. Box No. 34 Rampur, Jabalpur	11,000	3 ph. A.C. 50 cy.
	Korba		3,309	3 ph. A.C. 50 cy.
			400	3 ph. A.C. 50 cy.
			230	1 ph. A.C. 50 cy.
1-11	<b>Nepanagar Division—</b>	The Chief Engineer, Madhya Pradesh Electricity Board, P.O. Box No. 34 Rampur, Jabalpur.	11,000	3 ph. A.C. 50 cy.
	Bahadurpur		6,600	3 ph. A.C. 50 cy.
	Burhanpur		400	3 ph. A.C. 50 cy.
	Chandni		230	1 ph. A.C. 50 cy.
	Dapara			
	Harsud			
	Ichhapur			
	Khandwa			
	Loni			
	Nepanagar			
	Rustampur			
	Shahpur			
	Sobhapur			
	Sihada			
1-12	<b>Raipur Division—</b>	The Chief Engineer, Madhya Pradesh Electricity Board, P.O. Box No. 34 Rampur, Jabalpur.	11,000	3 ph. A.C. 50 cy.
	Abhanpur		400	3 ph. A.C. 50 cy.
	Arang		230	1 ph. A.C. 50 cy.
	Champa		440	D.C. 3 Wire.
	Jagadapur		220	D.C. 2 Wire.
	Kanker			
	Kurud			
	Pipari-Barra			
	Nawapara Rajin			
	Raipur			

## 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.
<b>BOARD—concl.</b>				
1-13	Satna Division— Ajaigarh Kothi Maihar Nagod Panna Rewa Sidhi Satna Sehwal Unchera	The Chief Engineer, Madhya Pradesh Electricity Board, P.O. Box No. 34, 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.
1-14	Sagar Division— Bina Bijawar Chattarpur Damoh Khajraho Tikamgarh	The Chief Engineer, Madhya Pradesh Electricity Board, P.O. Box No. 34 Rampur, Jabalpur.	400 230 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 2 Wire.
1-15	Ujjain Division— Jaora Kargone Mehidpur Shujalpur Sanawad Ujjain	The Chief Engineer, Madhya Pradesh Electricity Board, P.O. Box, No. 34, Rampur, Jabalpur.	11,000 400	3 ph. A.C. 50 cy. 3 ph. W.C. 50 cy. 1 ph. A.C. 50 cy.
<b>MUNICIPALITIES</b>				
2	Shajapur	The Chief Executive Engineer, Municipal Electric and Water Works, Shajapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
3	Sendhwa	The Sendhwa Municipal Electric Supply, Sendhwa	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
<b>COMPANIES</b>				
4	Alirajpur	The Alirajpur Electric Supply Co., Alirajpur	460 230	D.C. 3 Wire. D.C. 2 Wire.
5	Barnagar	The Barnagar Electric Supply and Industrial Co. Ltd., Barnagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Bilaspur	The Central India Electric Supply Co. Ltd., P. B. No. 9, Saharanpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Burhanpur	The Burhanpur Electric Supply and Trading Co., C/O The Kohinoor Traders Ltd., Kalbadevi Road, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
8	Bhikangson	The Proprietor, Mohan Talkies, Bhikangson	230	D.C. 2 Wire.
9	Chhindwara	The Chhindwara Electric Supply Co., Narsinghpur Road, Chhindwara.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

## MADHYA PRADESH—concl.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
COMPANIES—concl.				
10	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.
11	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.
12	Jubbulpore	The Jubbulpore Electric Supply Co. Ltd., M/A. M/S. Martin Burn 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.
13	Katni	The Central India Electric Supply Co Ltd., P.O. Box No. 190, Katni.	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.
14	Khilchipur	The Khilchipur Power House, Khilchipur	230	D.C. 2 Wire.
15	Mandsaur	The Mandsaur Electric Supply Co., Mandsaur	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
16	Neemuch	The Gwalior and Malwa Industries & Electric Supply Ltd., Neemuch.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
17	Ratlam	The Ratlam Electric Supply & Weaving Mills Co., Ltd., Ratlam.	460 230	D.C. 3 Wire. D.C. 2 Wire.
18	Sailana	The Sailana Electric Power House, Sailana	230	D.C. 2 Wire.
19	Saugor	The Saugor Electric Supply Co., M/A. M/S. Martin Burn Ltd., 12, Mission Row, Calcutta 1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50cy
20	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.
21	Shore	The Shore Electric Supply Co. Private Ltd., Shore Cantt.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
22	Sitaman	The Shree Krishna Electric Supplies, Sitaman	400 230	D.C. 3 Wire. D.C. 2 Wire.
23	Tarana	The Tarana Electric Supply, Tarana	220	D.C. 2 Wire.

## MADRAS STATE

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>BOARD</b>				
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.	The Chief Engineer, Electricity, Madras State Electricity Board, 157, Mount Road, Madras.	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	Papanasam Electricity System.	The Chief Engineer, Electricity, Madras State Electricity Board, 157, Mount Road, Madras.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-4	Pykara Electricity System.	The Chief Engineer, Electricity, Madras State Electricity Board, 157, Mount Road, Madras.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-5	Pariyar Hydro Electric Scheme.	The Chief Engineer, Electricity, Madras State Electricity Board, 157, Mount Road, Madras.	11,000	3 ph. A.C. 50 cy.
1-6	Trichirappally Electricity System.	The Chief Engineer, Electricity, Madras State Electricity Board, 157, Mount Road, Madras.		
1-7	Vellore Electricity System.	The Chief Engineer, Electricity, Madras State Electricity Board, 157, Mount Road, Madras.	33,000 22,000 11,000 400 230	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.
1-8	Kundah	The Chief Engineer, Electricity, Madras State Electricity Board, 157, Mount Road, Madras.	400 230	
<b>MUNICIPALITIES</b>				
2	Coimbatore	The Commissioner, Coimbatore Municipality, Coimbatore.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
3	Karur	The Municipal Electrical Engineer, Karur Municipality, Karur, District Tiruchirappally.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
4	Mathurai	The Commissioner, Mathurai Municipality, Mathurai.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
5	Pollachi	The Commissioner, Pollachi Municipality, Pollachi	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Tanjore	The Municipal Electrical Engineer, Tanjore Municipality, Tanjore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

## MADRAS STATE—concl'd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>COMPANIES</b>				
7	Kumbakonam	The Kumbakonam Electric Supply Corporation Ltd., M/A. The India Co. Private Ltd., Oriental Buildings, Armenian Street, Madras I.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
8	Mayavaram	The South Madras Electricity Corporation Ltd., Post Box No. 67—Tiruchirappalli.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 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.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	Salem Erode	The Salem Erode Electric Supply Co. M/A. M/S. Octavious Steel & Co., Ltd., 14, Old Court House Street, Calcutta.	22,000 600 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
11	Shencottah	The Shencottah Electric Supply Agencies, Shencottah.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
12	Tirunelveli Tuticorin	The Tirunelveli Tuticorin Electric Supply Co., M/A. M/S. Octavious Steel & Co. Ltd., 14, Old Court House Street, Calcutta.	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.
13	Tiruchirappalli	The South Madras Electricity Supply Corporation Post Box No. 67, Tiruchirappalli.	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 I.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
<b>MYSORE STATE</b>				
<b>BOARD</b>				
1	Annigeri Baithongal Guledgud Gulbarga Gonikoppal Hukeri Hubli-Jog Harihar Haveri Ilkal Kudige Kollegal Mercara Mangalore Raichur Somwarpet Udipi and Karkala Virajpet Yadgir	The Chief Engineer, Electrical, Mysore State Electricity Board, Post Bag No. 15, Bangalore I.	110,000 66,000 33,000 33,000 11,000 4,600 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. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

MYSORE STATE—*concl.*

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>MUNICIPALITY</b>				
2	Savanur	The President, Savanur Municipality, Savanur	230	D.C. 2 Wire.
<b>COMPANIES</b>				
3	Athni	The Athni Electric Supply Co., The Light and Power Suppliers Ltd., 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.
4	Bagalkot	Shri Venkatesh Power Works Ltd., Shrimant K.S. Sardesai, Bagalkot.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
5	Belgaum	The Belgaum Electric Supply Co., The Amalgamated Electricity Co., Ltd., 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.
6	Bidar	The Bidar Power and Electric Supply Co., Proprietor Shri Mahipal Singh, Bider.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Bijapur	The Bijapur Electric Supply Co., Ltd., M/A. M/S. Abdul Kayum and Sons, Bijapur.	450 220	D.C. 3 Wire. D.C. 2 Wire.
8	Byadgi	The Byadgi Electric Supply, M/S. Manvi Brothers, Station Road, Gadag.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
9	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.
10	Gadag	The Gadag Electric Supply, M/A. M/S. Manvi Brothers, Station Road, Gadag.	440 220	D.C. 3 Wire. D.C. 2 Wire.
11	Haveri	The Haveri Electric Supply, M/A. M.S. Manvi Brothers, Station Road, Gadag.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
12	Jamkhandi	The Electric Power Supply Private Ltd., Jamkhandi, District Bijapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
13	Karwar	The Karwar Electric Supply & Trading Co. Ltd., Karwar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
14	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.
15	Nipani	The Nipani Electricity Co. Private Ltd., Nipani, District Belgaum.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
16	Rabkavi	The Rabkavi Electric Supply Co. Ltd., Rabkavi, District Bijapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
17	Ramdurg	The Madhav Pratap Electric Supply Co. Ltd., Ramdurg.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
18	Ranebenur	The Ranebenur Electric Supply, M/A. M/S. Manvi Brothers, Station Road, Gadag.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
19	Sirsi	The Kanara Electric Supply Co. Ltd., Sirsi (North Kanara).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 5 cy.



## ORISSA

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>GOVERNMENT</b>				
1-1	Balasore Electrical Division—  Anandpur Baripada Bhadrak Chandballi Jaleswar Keonjhar Kuldiha Markona	The Chief Engineer, Electricity, Orissa, Puri	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—  Barchana Chatia Choudhwar Village Chaluisagarj Orissa Cotton Mills Tangi Village Dharamsala Jobra Kalinga Choudhwar	The Chief Engineer, Electricity, Orissa, Puri	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-3	Duduma Transmission Division—  Borigumma Gunupur Jeypore Kotpad Koraput Nowrangpur Rayagada	The Chief Engineer, Electricity, Orissa, Puri	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 Kantabanji Padampur Sonepur Titilagarh Junagarh	The Chief Engineer, Electricity, Orissa, Puri	400 230 220 110	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
1-5	Ganjam Electrical Division—  Aska Balugaon Banpur Branjanagar	The Chief Engineer, Electricity, Orissa, Puri	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 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.
<b>GOVERNMENT—contd.</b>				
	Boirani Belaguntha Bada-Kodanda Berhampur Chatarpur Thermal Chandpur (Tangi) Dharakote Ganjam Humma Hinjili Kathu Jaripada Khalli Kote Parlakimedi Purushotampur Phulbani Rambha Sabalia Surada			
1-6	Hirakud Utilization Division No. 11, Raj- gangpur— Birmitrapur Belpahar Brajmajnagar Jharsuguda Joda Koel Bridge Rajgangpur Rourkeila Sundergarh Uditnagar	The Chief Engineer, Electricity, Orissa, Puri	132,000 33,000 11,000 400 230	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.
1-7	Hirakud Dam Project—	The Chief Engineer, Electricity, Orissa, Puri	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-8	Puri Electrical Division, Bhubneswar—  Angul Athagarh A.I.R. Station Bhubaneshwar New Town Fakirpada Badbag Bahugram Bali Kuda-Barung Bhubaneshwar Old Town Chandaupur Cuttack Bhubaneshwar Dhanpur Dhankanal Delta Coloney Gope	The Chief Engineer Electricity, Orissa, Puri	2,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 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.
	Jagatpur Kendupatna Kandrapara Kakatpur Khurda Jatni Kunthuri Nayagarh Nimapara Nuapatna Pattamundai Patpur Pipli Phulanakara Sundergaon Rathijoma Sakhigopal Salipur Talachar			
<b>COMPANIES</b>				
2	Balasore	The Balasore Electric Supply Co. Ltd., Balasore	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
3	Berhampur Chhattarpur	The Berhampur Electric Supply Corporation Ltd., Berhampur (District Ganjam).	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
4	Cuttack	The Cuttack Electric Supply Co. Ltd., M/A. M/S. Octavious Steel & Co. Ltd., 14, Old Court House Street, Calcutta.	3,300 400 230 460 230	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.
5	Puri	The Puri Electric Supply Co. Ltd., M/A. M/S. B. Das & Co., Chandni Chauk, Puri.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Sambalpur	The Sambalpur Electric Supply Co. Ltd., Sambalpur	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
<b>PUNJAB</b>				
<b>BOARD</b>				
1-1	Nangal Hydrel Scheme	The Secretary, Punjab State Electricity Board, Patiala.	132,000 33,000 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. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-2	Uhl River Scheme	The Secretary, Punjab State Electricity Board, Patiala.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-3	Kandaghat	The Secretary, Punjab State Electricity Branch, Patiala.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-4	Dalhousie	The Secretary, Punjab State Electricity Branch, Patiala.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

## PUNJAB—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>MUNICIPALITIES</b>				
2	Amritsar	The Chief Electrical Engineer, Amritsar Municipal Committee, Amritsar.	400 230 440 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
3	Nilokheri	The Administrative Officer, Rehabilitation Colony, Nilokheri, Distt. Karnal.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
4	Simla	The Chief Electrical Engineer, Municipal Electricity Department, Simla-1.	2,200 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
<b>COMPANIES</b>				
5	Ambala City	The Ambala Electric Supply Co. Ltd., Ambala City	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	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.
7	Bhatinda	The Modi Electric Supply Co. Ltd., Bhatinda	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
8	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.
9	Hansi	The Hansi Electric Supply Co., The South Punjab Electricity Corporation Private Ltd., Hissar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	Hissar	The Hissar Electric Supply Co., The South Punjab Electricity Corporation Private Ltd., Hissar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
11	Jagadhri	The Jagadhri Electric Supply & Industrial Co. Private Ltd., Jagadhri.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
12	Kaithal	The Kaithal Electric Supply Co. Ltd., Kaithal (Distt. Karnal).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
13	Kasauli	The Kasauli Electric Supply Co. Ltd., Kasauli (Simla Hills).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
14	Loharu	The Loharu Electric & Water Supply Co. Ltd., P. O. Loharu, District Hissar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
15	Malerkotla	The Malerkotla Power Supply Co., Proprietor M/S. Bhagwan Dass & Sons, Malerkotla.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
16	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.
17	Rohtak	The Rohtak Electric Supply Co., The South Punjab Electricity Corporation Private Ltd., Hissar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
18	Sirsa	The Sirsa Electric Supply Co., C/o. The Lal Chand Minds, Sirsa.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

## RAJASTHAN

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>BOARD</b>				
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	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	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	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	400 230	D.C. 3 Wire. D.C. 2 Wire.
1-4	Bhilwara	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	230	1 ph. A.C. 50 cy.
1-5	Deeg	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-6	Dholpur	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-7	Dungarpur	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-8	Ganganagar	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	6,600 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-9	Hindson	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-10	Jaisalmer	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-11	Jhalawar	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	400 230 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 2 Wire.
1-12	Jodhpur	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-13	Jaipur	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-14	Karauli	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	440 220	D.C. 3 Wire. D.C. 2 Wire.
1-15	Kishanganh	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	400 230 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire.
1-16	Kotah	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-17	Kuchaman	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	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.
<b>BOARD—contd.</b>				
1-18	Newai Town	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-19	Phalodi	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-20	Segwara	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-21	Shahpura	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	230	D.C. 2 Wire.
1-22	Sikar	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-23	Sirohi	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-24	Tonk	The Chief Engineer, Rajasthan State Electricity Board, Jaipur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
<b>MUNICIPALITIES</b>				
2	Barmer	The Chairman, Municipal Board, Barmer	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
3	Hanumangarh	The Executive Officer, Municipal Board Power House, Hanumangarh.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
4	Merta	The Chairman, Municipal Board, Merta City	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
5	Nasirabad	The Cantonment Executive Officer, Power House, Nasirabad.	460 230	D.C. 3 Wire. D.C. 2 Wire.
6	Nainwa	The Chairman, Municipal Board, Nainwa	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Suratgarh	The Chairman, Municipal Board, Suratgarh	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
<b>COMPANIES</b>				
8	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.
9	Abu Road	The Abu Road (Sirohi State) Electricity and Industrial 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.
10	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.
11	Banswara	The Banswara Electric Supply Co., Proprietor Haji Mulla Rasoolbhai, Mulla Abdul Husain & Brothers, Banswara.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
12	Beawar	The Beawar Electric Supply Co. Ltd., Beawar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

RAJASTHAN—*concd.*

Serial No.	Area or Town served, system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>COMPANIES—<i>contd.</i></b>				
13	Bhawanimandi	The Bhawanimandi Electric Supply and Development Co. Ltd., M/A M/S. Loonkaram Madan Mohan, Bankers and Merchants, Jiwan Kuti, Ujjain.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50cy.
14	Bundi	The Bundi Electric Supply Co. Ltd., M/A. The Rajputana Electric Works, Bundi.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
15	Garhi	The Himmat Power House, Garhi, District Banawara.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
16	Ladnun	The Ladnun Electric Supply Co. Ltd., Ladnun	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
17	Nagaur	The Nagaur Electric Supply Co., Nagaur	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
18	Nawalgarh	The Nawalgarh Electric Supply Co. Ltd., Nawalgarh	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
19	Nathdwara	Shri Krishna Bhandar Power House, Nathdwara	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
20	Pali	The Pali Electricity Co. Ltd., M/A. Marwar Industries (Private) Ltd., Kuchaman House, Jodhpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
21	Partabgarh	The Partabgarh Electric Power House, Partabgarh	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
22	Pilani	The Pilani Industrial Corporation Ltd., Pilani	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
23	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.
24	Sambar Lake	The Sambar Lake Electric Supply Co. (Private) Ltd., Sambar Lake.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
25	Udaipur	The Maharana Bhopal Electric Supply Co. Ltd., Udaipur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
26	Uniara	The Uniara Power House, Uniara District Jaipur	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
<b>UTTAR PRADESH BOARD</b>				
1-1	Hydel Division, Aligarh— Aligarh Harduaganj Sudamapuri Summera 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.	The Chief Engineer, Hydel, U. P. State Electricity Board, Lucknow.	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.
<b>BOARD—<i>contd.</i></b>				
1-3	Hydel Division, Bullandshahr—Palra.	The Chief Engineer, Hydel, U. P. State Electricity Board, Lucknow.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-4	Hydel Division, Mainpuri—Gurshahaiganj Nibkarori Mainpuri	The Chief Engineer, Hydel, U. P. State Electricity Board, Lucknow.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-5	Hydel Division, Meerut—Bhola Chitaura Meerut M.E.S. Salawa.	The Chief Engineer, Hydel, U. P. State Electricity Board, Lucknow.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-6	Hydel Division, Moradabad—Moradabad Pauri Upper Ganges Valley	The Chief Engineer, Hydel, U. P. State Electricity Board, Lucknow.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-7	Hydel Division, Roorkee—Dhakrani Laksar Mohammedpur Narendernagar Nirganjni Pathri Saharanpur Tehri	The Chief Engineer, Hydel, U. P. State Electricity Board, Lucknow.	400 230 440 220 110	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire. D.C. 2 Wire.
1-8	Kanpur	The Kanpur Electricity Supply Administration, 'Kesa House', Post Box No. 141, Kanpur.	6,600 400 230 450 225	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.
1-9	Hydel Division, Kanpur—Hamirpur Kanpur Mohoba	The Chief Engineer, Hydel, U. P. State Electricity Board, Lucknow.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-10	Hydel Division, Gorakhpur—Deoria Gorakhpur	The Chief Engineer, Hydel, U.P. State Electricity Board, Lucknow.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-11	Charkhari	The Chief Engineer, Hydel, U. P. State Electricity Board, Lucknow.	440 220	D.C. 3 Wire. D.C. 2 Wire
1-12	Hydel Division, Azamgarh—Mau	The Chief Engineer, Hydel, U. P. State Electricity Board, Lucknow.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-13	Hydel Division, Rampur—Rampur	The Chief Engineer, Hydel, U. P. State Electricity Board, Lucknow.	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.
<b>BOARD—<i>contd.</i></b>				
1-14	Rihand Hydro Generation Circle Chopan Pipri	The Chief Engineer, Hydrel, U.P. State Electricity Board, Lucknow.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-15	Hydro Electric Division, Bareilly. Bageshwar Khatima Ranikhet Shahjahanpur	The Chief Engineer, Hydrel, U.P. State Electricity Board, Lucknow	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.
1-16	Hydel Division, Faizabad Sohwal.	The Chief Engineer, Hydrel, U.P. State Electricity Board, Lucknow.	6,600 400 230 460 230	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.
1-17	Hydel Division, Gonda. Bahariach Sitapur.	The Chief Engineer, Hydrel, U.P. State Electricity Board, Lucknow.	440 220	D.C. 3 Wire. D.C. 2 Wire.
1-18	Hydel Generation Division, Lohia Head. Lohia Head.	The Chief Engineer, Hydrel, U.P. State Electricity Board Lucknow.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
1-19	Thermal Division Kasimpur. Harduaganj	The Chief Engineer, Hydrel, U.P. State Electricity Board, Lucknow.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
<b>MUNICIPALITIES</b>				
2	Almora	The Electrical and Water Works Engineer, Municipal Board, Almora.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
3	Haldwani	The Electrical and Municipal Engineer, Municipal Board, Haldwani-cum-Kathgadani, Haldwani.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
4	Hardwar	The Electrical and Water Works Engineer, Municipal Board, Hardwar Union, Hardwar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
5	Kasganj	The Electrical Engineer, Municipal Electric Supply, Kasganj.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Khurja	The Electrical Engineer, Municipal Electric Supply, Municipal Board, Khurja.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Meerut	The Electrical Engineer, Municipal Board, Meerut	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
8	Muzaffarnagar	The Electrical Engineer, Municipal Board, Muzaffarnagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
9	Mussoorie	The President, Mussoorie Dehra Hydro Electric Undertaking, City Board, Mussoorie.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	Nainital	The Electrical & Mechanical Engineer, Municipal Board, Nainital.	380 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
11	Roorkee	The President, Municipal Board, Roorkee	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.
<b>MUNICIPALITIES—contd.</b>				
12	Rishikesh	The President, Municipal Board, Rishikesh	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
13	Unnao	The Electrical & Water Works Engineer, Municipal Board, Unnao.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
<b>COMPANIES</b>				
14	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.
15	Agra	The Agra Electric Supply Co. M/A. M/S. Martin Burn Ltd., 12, Mission Road, 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.
16	Allahabad	The Allahabad Electric Supply Co. 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.
17	Banaras	The Banaras Electric Supply Co. 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.
18	Bareilly	The Bareilly Electric Supply Co. M/A. M/S. Martin Burn Ltd., 12, 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.
19	Bharaich	The Balrampur Electric Supply Co. Private, Ltd., Balrampur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
20	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.
21	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.
22	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.
23	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.
24	Etah	The Etah Electric Supply Co., M/S. Seth Ram Gopal & Partners Electricity Suppliers, Etah.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
25	Etawah	The Western United Provinces Electric Power and Supply Co. Ltd., M/A. M/S. Alopi Pershad and Sons 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.

## 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.				
26	Farrukhabad	The Farrukhabad Electric Supply Co., Ltd., M/A. M/S. Radheshyam & Brothers Fategarh.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
27	Faizabad	The Faizabad Electric License 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.
28	Ghaziipur	The Eastern United Provinces Electric Supply Co., Ltd., M/A. M/S. Seth Brothers, Kothi Shiv Sahaya, Ghaziipur.	440 220	D.C. 3 Wire. D.C. 2 Wire.
29	Gonda	The Balramur Electric Supply Co. Private Ltd., Balrampur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. 3 ph. A.C. 50 cy.
30	Gorakhpur	The Gorakhpur Electric Supply Co. M/A. M/S. Moona Lal & Sons, Jhansi.	400	
31	Hathras	The lower Ganges Jamna Electricity Distribution Co. Ltd., (In Liquidation) Shiv Bhavan Morris Road, Aligarh.	230 3,300 400 230	1 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
32	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.
33	Jhansi	The Jhansi Electric Supply Co., 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.
34	Jaunpur	The Jaunpur Electric Licenses (1934) 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.
35	Kosikalan	The Kosi Electric Supply Co., Kosikalan, District Mathura.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
36	Lucknow	The Lucknow Electric Supply Co. Ltd., M/A. M/S. Martin Burn Ltd., 12, Mission Row, Calcutta 1.	11,000 6,600 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. 2 Wire. D.C. 2 Wire.
37	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.
38	Mirzapur	The Mirzapur Electric Supply Co. Ltd., M/A. M/S. Octavious Steel and Co. Ltd., 14 Old Court House Street P.B. No. 55, Calcutta.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
39	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.
40	Sadabad	The Sadabad Electric Supply Co. C/o M/S. M. N. Bhargava & Brothers, Sadabad.	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.
<b>COMPANIES—<i>contd.</i></b>				
41	Saharanpur	The Saharanpur Electric Supply Co. Ltd., Ramnagar (Pathanpura Street), P.B. No. 16, Saharanpur.	400 230 400 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
42	Shahjahanpur	The Shahjahanpur Electric Supply Co. Ltd., M/A. M/S. Octavious Steel & Co. Ltd., 14 Old Court House Street, P.B. No. 55, Calcutta.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
43	Upper Jamuna Valley	The Upper Jamuna Valley Electric 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.
44	Vrindaban	The General Engineering Co. Electricity Suppliers, Vrindaban.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
<b>WEST BENGAL</b>				
<b>BOARD</b>				
1-1	Chord Road and Krishnagar Division— Barrackpore Barasat Grid North Calcutta Grid Nimtita Grid Sodepur Grid Karimpur	The Secretary, 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	Northern Division— Balurghat Grid Changrabandha Grid Cooch Behar Grid Kurseong Siliguri Grid Raigunj Grid Haldibari Harischandrapur Mal Mathabhanga Old Malda Raigunj	The Secretary, West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1 Hastings Street, Calcutta.	400 230 400 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
1-3	Burdwan Division— Burdwan Memari Grid Durgapur Sonamukhi Grid Mogra Boinchi Grid Arambagh	The Secretary, 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. Phases frequency etc.
<b>BOARD—<i>contd.</i></b>				
1-4	Howrah Division— Howrah Amta Grid Kharagpur Midnapur Grid Singur Tarakeshwar Grid South Calcutta Grid Canning Cantai Digha Ghatal Jhargram Tamluk	The Secretary, 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.
1-5	Mayurakshi Division— Churulia Grid Damagoria Grid Mayurakshi Grid Massanjore	The Secretary, West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1, Hastings Street, Calcutta.	33,000 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.
1-6	Purulia Division— Adra Purulia Grid	The Secretary, 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.
<b>MUNICIPALITIES</b>				
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.
<b>POWER CORPORATION</b>				
3	Maithan	The Electrical Engineer, Damodar Valley Corpora- tion, 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.
<b>COMPANIES</b>				
4	Andul Mouri	The National Power Supply Corporation Ltd., M/A. M/S. K. K. Sen and Sons, 23-B, Allenby Road, Calcutta 2 <sup>c</sup>	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., Burdwan Road, Asansol.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Bankura	The Bankura Electric Supply Co. Ltd., M/A. M/S. B.N. Elias & Co. Ltd., Northern Buildings, 1 & 2 Old Court House Corner, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Bansberia	The Electrical Engineer, The East India Electric Supply & Traction Co. Ltd., M/A. M/S. Nursingsa- hay Mudungopal, 3, Jogendra Kaviraj Row, 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—contd.				
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., Private Ltd., M/A. M/S. Development of Industries (India) 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. Control 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	Gourepore	The Gourepore Electric Supply Co. Ltd., M/A. M/S. Macneill & Barry Ltd., 2 Fairlie Place, Calcutta 1.	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.
16	Hooghly Chinsura	The East India Electric Supply & Traction Co. Ltd., M/S. Narsingahay Mudangopal 3, Jogendra Kaviraj Row, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
17	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.
18	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.
19	Jamuria	The Jamuria Electric Supply Co., M/A. M/S. Bengal Trust Ltd., and Burnpur Road, Asansol.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
20	Kalimpong	The Kalimpong Electric Supply Co. Ltd., P-34, Mission Row Extension, 3rd Floor, Calcutta 1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
21	Krishnagar	The Krishnagar Electric Supply Co. M/A. M/S. B.N. Elias & Co., Ltd., Norton Building, 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.
<b>COMPANIES—concl'd.</b>				
22	Malda	The Malda Electric Supply, Malda	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
23	Midnapur	The Midnapur Electric Supply Co., 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.
24	Nabadwip	The Nabadwip Electric Supply Co. 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.
25	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.
26	Purulia	The Purulia Electric Supply Corporation Ltd., M/S. The Purulia Trading Co. Ltd., Electrical Engineers Contractors, Purulia.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
27	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.
28	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.
29	Vishnupur	The Vishnupur Electric Supply, The National Power Supply Corporation Ltd., M/A. M/S. K. K. Sen and Sons, 23-B, Allenby Road, Calcutta 20.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
<b>UNION TERRITORIES</b>				
<b>GOVERNMENT</b>				
1	<b>ANDAMAN &amp; NICOBAR ISLANDS—</b>			
	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	<b>HIMACHAL PRADESH—</b>			
2-1	Hydro Electric Division No. 1, Simla—	The Chief Engineer, 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.
	Jubbal Thanedar Theog			

UNION TERRITORIES—*contd.*

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>HIMACHAL PRADESH—<i>contd.</i></b>				
<b>GOVERNMENT—<i>contd.</i></b>				
2-2	Hydro Electric Division No. II, Dalhousie—  Chamba Jogindernagar Mandi South Chamba	The Chief Engineer, Himachal Pradesh, P.W.D., Simla.	400 230 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 2 Wire.
2-3	Hydro Electric Division No. III, Solan—  Arki Kunihar Line and Surrounding Area. Nahan Paonta Solan	The Chief Engineer, Himachal Pradesh P.W.D., Simla.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
2-4	Hydro Electric Division No. IV, Bilaspur—  Bilaspur Bilaspur New Town Ball Valley Karaog Sundernagar	The Chief Engineer, Himachal Pradesh, P.W.D., Simla.	400 230 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 2 Wire.
<b>MANIPUR—</b>				
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.
<b>TRIPURA—</b>				
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.
<b>PONDICHERY—</b>				
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.
<b>MUNICIPALITIES</b>				
<b>DELHI STATE—</b>				
6	Delhi Electric Supply Undertaking.	The Electrical Engineer, Delhi Electric Supply Un- dertaking (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.



UNION TERRITORIES—*contd.*

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
<b>COMPANIES</b>				
<b>DELHI STATE—<i>contd.</i></b>				
8	Delhi Shahdra	The Upper Jamna Valley Electricity Supply Co. Ltd., M/A. M/S. Martin Burn Ltd., 12, Mission Row, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
9	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.
<b>PONDICHERRY—</b>				
10	Karaikal	The Karaikal Electric Supply Co. Ltd., M/A. M/S. A. S. Abilandam, 13, West Boulevard Road, Tiruchirapalli.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
11	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.