



**PUBLIC ELECTRICITY SUPPLY
ALL INDIA STATISTICS**

1962-63

GENERAL REVIEW

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

FOREWORD

Salient features of the Public Electricity Supply in the Republic of India for the year 1962-63 are summarised in this Review on the same pattern as in previous years.

The figures of installed plant capacity are given in Table XVI as per the ownership of the states i.e., as per the shares of participating states in the installed plant capacity of jointly owned power stations. The installed plant capacity of Damodar Valley Corporation has been shown in the states of Bihar and West Bengal as per their location.

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

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

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

Suggestions for improvement of the publication will be welcome.

CENTRAL WATER AND POWER COMMISSION
(POWER WING) "CLEREMONT", SIMLA-4
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M. R. CHOPRA
Chairman

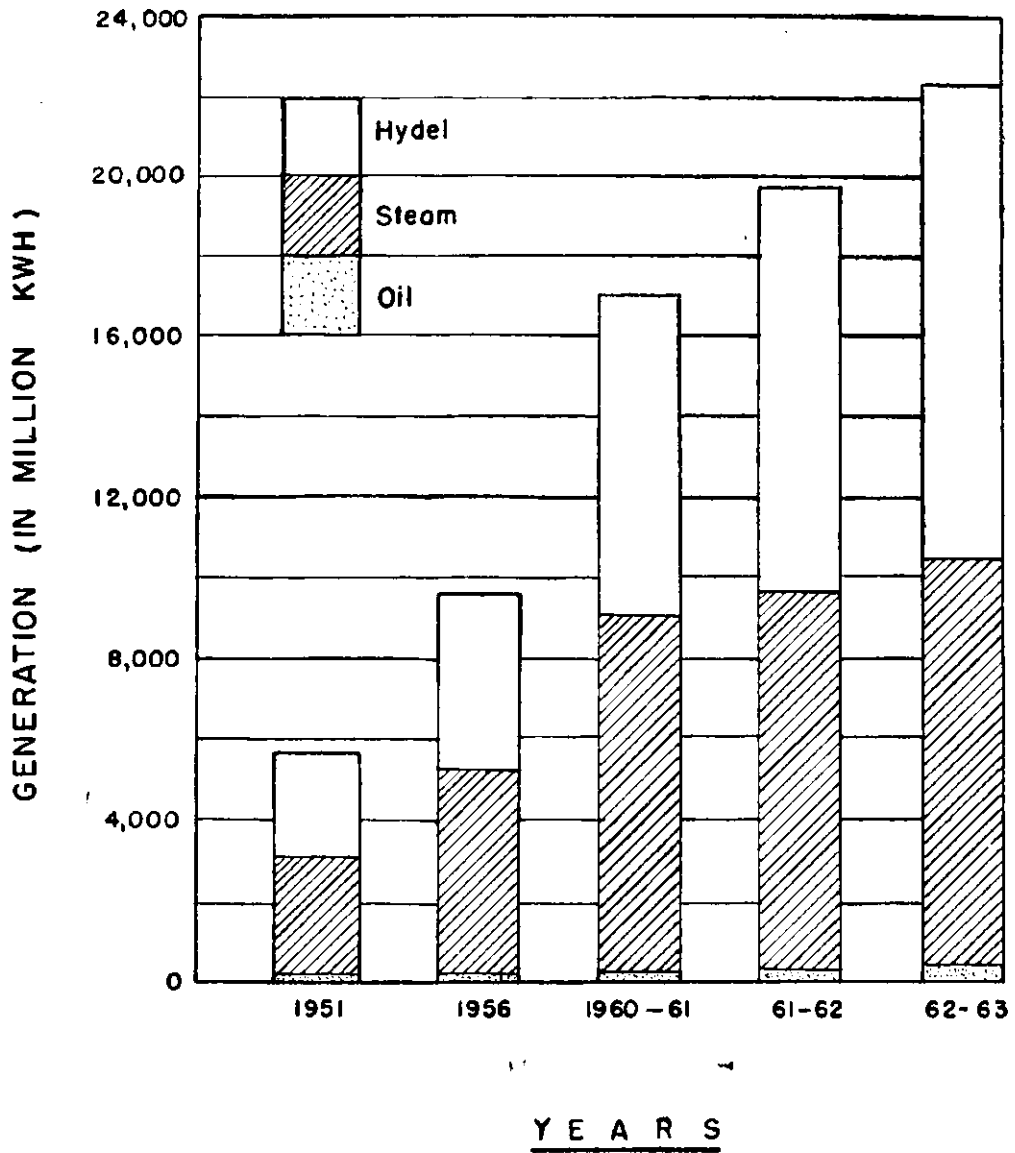
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SECTION I
PLANT DATA AND POWER GENERATION

PROGRESS OF POWER GENERATION IN THE COUNTRY



**PUBLIC ELECTRICITY SUPPLY ALL INDIA STATISTICS
GENERAL REVIEW**

1. GENERAL POWER SUPPLY POSITION

The outstanding features of the Power Supply Industry in India for the years 1951, 1956, 1960-61, 1961-62 and 1962-63 are summarised in Table I with a view to give an overall picture of power development in India at a glance.

**TABLE I—OUTSTANDING FEATURES OF THE ELECTRICITY SUPPLY INDUSTRY FOR THE YEARS
1951, 1956, 1960-61, 1961-62 AND 1962-63**

Year	1951	1956	1960-61	1961-62	1962-63
(1)	(2)	(3)	(4)	(5)	(6)
1. AUTHORISED UNDERTAKINGS—					
<i>(a) Generating—</i>					
(i) Public Sector	188	46	42	46	44
(ii) Private Sector	227	179	130	105	95
Total	415	225	172	151	139
<i>(b) Receiving Bulk Supply—</i>					
(i) Public Sector	81	23	32	34	34
(ii) Private Sector	89	122	133	148	140
Total	170	145	165	182	174
GRAND TOTAL	585	370	337	333	313
2. GENERATING CAPACITY (kW)—					
Steam Plant	1,097,567	1,596,412	2,436,255	*2,471,019	2,536,343
Oil Plant	162,680	228,288	300,135	*328,697	327,152
Hydro Plant	575,179	1,061,441	1,916,661	2,419,100	2,916,300
Total	1,835,426	2,886,141	4,653,051	5,218,816	5,779,795
3. OUT-PUT (Millions kWh)—					
Steam Plant	2,779·059	5,133·900	8,732·409	9,475·875	10,176·863
Oil Plant	219·646	233·356	368·022	379·694	383·567
Hydro Plant	2,859·698	4,294·877	7,836·581	9,814·376	11,804·542
Total	5,858·403	9,662·133	16,937·012	19,669·945	22,364·972
4. PURCHASED FROM NON-UTILITIES (Million kWh)	17·737	18·642	223·041	367·367	471·235
5. FUEL CONSUMPTION (Metric Tons)—					
(a) Coal	2,478,199	4,067,348	6,699,590	7,236,361	7,995,689
(b) Diesel	73,148	76,261	111,974	118,194	119,470
6. MAXIMUM DEMAND (kW)	1,205,194	1,989,774	3,545,930	3,971,206	4,635,049
7. SALES MILLION (kWh)—					
(a) Domestic Light & Small Power ..	594·080	934·122	1,492·291	1,698·091	1,917·833

* Figures for 1961-62 are revised.

TABLE I—*contd.*

(1)	(2)	(3)	(4)	(5)	(6)
7. SALES MILLION (kWh)— <i>contd.</i>					
(b) Commercial Light & Small Power ..	330·016	545·851	847·735	934·092	1,048·594
(c) Industrial	3,058·889	5,323·424	9,696·415	11,544·975	13,109·832
(d) Public Lighting	67·602	117·767	193·241	215·530	244·852
(e) Traction	329·594	404·925	453·923	584·768	723·844
(f) Irrigation & Dewatering	203·048	316·178	832·921	991·133	1,103·527
(g) Public Water Works	210·115	317·078	436·190	479·706	530·539
Total ..	4,793·344	7,959·345	13,952·716	16,448·295	18,679·021
8. TRANSMISSION AND DISTRIBUTION LINES KM	39,380·00*	85,000·00*	146,737·26*	166,219·60*	385,738·6
9. NO. OF CONSUMERS—					
(a) Domestic Light & Small Power ..	1,307,059	2,180,659	3,666,889	4,153,869	4,466,954
(b) Commercial Light & Small Power	273,280	469,845	672,554	770,082	957,239
(c) Industrial Power including Traction & Public Water Works.	70,704	107,756	178,692	190,149	211,084
(d) Public Lighting	2,367	3,694	15,126	18,088	18,323
(e) Irrigation & De-watering ..	24,395	62,848	195,902	236,243	256,300
Total ..	1,677,805	2,825,802	4,729,163	5,368,431	5,909,900
10. CONNECTED LOAD (kW)—					
(a) Domestic Light & Small Power ..	858,958	1,319,328	2,234,786	2,395,874	2,543,483
(b) Commercial Light & Small Power	327,579	407,631	526,070	599,321	807,617
(c) Industrial Power including Traction & Public Water Works.	1,723,110	2,632,280	4,561,915	4,518,548	4,904,509
(d) Public Lighting	22,723	36,805	76,155	96,427	67,270
(e) Irrigation & De-watering ..	140,421	327,774	826,530	992,217	1,087,235
Total ..	3,072,791	4,723,818	8,225,456	8,602,387	9,410,114
11. ELECTRIFIED TOWNS & VILLAGES ..	4,051	8,751	23,969	29,069	36,240
12. CAPITAL EXPENDITURE (Rs. Crore) ..	169·1	516·9	768·8	915·3	..
13. NON-UTILITIES—					
Generation	1,655·568	2,209·509	3,186·104	3,287·207	3,862·301
14. PER CAPITA GENERATION					
(Utilities & Non-utilities)	20·77	30·88	43·93	51·43	57·61
15. PER CAPITA CONSUMPTION†					
(Utilities & Non-utilities)	17·78	26·40	38·15	43·54	48·48

* Excludes L.T. Lines upto 500 Volts.

†Per capita consumption figures for non-utilities have been worked out on kWh generated by the industry subtracting the energy sold to public utilities.

2. ELECTRICITY SUPPLY UNDERTAKINGS

2.1 The total number of undertakings during the year under review was 313, owned either by public bodies or by private agencies. Out of these 313 undertakings, 140 were engaged in generation and sale of power while the remaining 174 were engaged mainly in retail distribution of power purchased in bulk from the undertakings engaged in generation and sale and also from industries' power stations nearby wherever surplus power was available. The classification of the undertakings ownership-wise is given in Table II.

TABLE II—ELECTRICITY SUPPLY UNDERTAKINGS (OWNERSHIPWISE)

Ownership	Number of undertakings		Total
	Generating	Distributing	
(1)	(2)	(3)	(4)
<i>(i) Public Sector—</i>			
(a) Government/State Electricity Board	17	3	20
(b) Power Corporation	1	..	1
(c) Municipality	26	31	57
Total	44	34	78
<i>(ii) Private Sector—</i>			
Company	95	140	235
GRAND TOTAL	139	174	313

2.2 Change in the number of electricity supply undertakings

There were 333 undertakings at the beginning of the year. The number fell down to 313 towards the end of the year. This is due to the following:—

- (a) Twenty undertakings as shown in Table II(a) were taken over by the State Electricity Boards.
- (b) One new undertaking in private sector started functioning at Lasalgaon in Maharashtra State.
- (c) D.V.C. is now shown as one undertaking instead of two as shown previously (in Bengal and in Bihar).

TABLE II(a)—ACQUISITION OF ELECTRICITY SUPPLY UNDERTAKINGS

Name of Undertaking	Prior ownership	By whom acquired
<i>A. Generating—</i>		
1. Mehsana	Company	Gujarat Electricity Board.
2. Savarkundla	Company	Gujarat Electricity Board.
3. Barnagar	Company	Madhya Pradesh Electricity Board.
4. Neemuch	Company	Madhya Pradesh Electricity Board.
5. Sendhwa	Municipal	Madhya Pradesh Electricity Board.
6. Amalner	Company	Maharashtra State Electricity Board.
7. Jalna	Company	Maharashtra State Electricity Board.
8. Pachora	Company	Maharashtra State Electricity Board.

TABLE II (a)—*contd.*

Name of Undertaking	Prior ownership	By whom acquired
<i>A. Generating—contd.</i>		
9. Savda-Faizpur	Company	Maharashtra State Electricity Board.
10. Ladnun	Company	Rajasthan State Electricity Board.
11. Gorakhpur	Company	U.P. State Electricity Board.
<i>B. Distributing—</i>		
1. Manwath	Company	Maharashtra State Electricity Board.
2. Ambala City	Company	Punjab State Electricity Board.
3. Bhiwanai	Company	Punjab State Electricity Board.
4. Hansi	Company	Punjab State Electricity Board.
5. Hisar	Company	Punjab State Electricity Board.
6. Kasauli	Company	Punjab State Electricity Board.
7. Puri	Company	Orissa State Electricity Board.
8. Mainpuri	Company	U.P. State Electricity Board.
9. Delhi Shahdra	Company	Delhi Electric Supply Undertaking.

NOTE— (i) Goa, Daman and Diu, (ii) Nagaland and (iii) Laccadives Minicoy Islands could not be included for want of data.

2.3 Seven undertakings as shown in Table II(b) changed over from own generation to purchase of bulk power.

TABLE II(b)—UNDERTAKINGS CHANGED OVER FROM OWN GENERATION TO PURCHASE OF BULK POWER

Name of undertaking	Type of ownership	Name of State	Source of supply
1. Karjan	Municipal	Gujarat ..	Gujarat Electricity Board.
2. Kard	Company	Maharashtra ..	Maharashtra State Electricity Board.
3. Tasgaon	Company	Maharashtra ..	Maharashtra State Electricity Board.
4. Vita	Company	Maharashtra ..	Maharashtra State Electricity Board.
5. Loharu	Company	Punjab ..	Punjab State Electricity Board.
6. Farrukhabad	Company	U.P. ..	U.P. State Electricity Board.
7. Mirzapur	Company	U.P. ..	U.P. State Electricity Board.

The reduction in effective plant capacity on account of changing over of the aforesaid undertakings is 3,249 kW. The corresponding reduction in capacity during the last 3 years is as follows:—

1960-61	778 kW.
1961-62	19,005 kW.
1962-63	3,249 kW.

2.4 The distribution of the undertakings ownershipwise in the different states is given in Table III which shows the extent to which the two sectors have participating interests in the Electricity Supply Industry in each of the States.

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

Serial No.	Name of State and Union territory	Public Sector					
		Government/State Electricity Board			Municipality		
		Total number	Installed generating capacity (kW)	kWh generated (Millions)	Total number	Installed generating capacity (kW)	kWh generated (Millions)
1	Andhra Pradesh	1	259,470*	1,064.077*	..	..	..
2	Assam	1	20,948	34.059	..	..	..
3	Bihar	1	15,805	33.927	..	..	..
4	Gujarat	1	150,891	525.873	13	2,676	4.882
5	Jammu and Kashmir	1	31,548	72.215	..	..	..
6	Kerala	1	151,315	709.060	1	..	..
7	Madhya Pradesh	1	241,193	734.495	..	..	..
8	Madras	1	557,266	2,615.104	5	..	..
9	Maharashtra	1	391,275	1,177.039	13	2,665	5.362
10	Mysore	1	207,004	1,152.758	..	..	..
11	Orissa	1	225,960	829.993	..	..	..
12	Punjab	1	673,536	2,367.817	2	3,660	11.833
13	Rajasthan	1	61,718	75.635	7	476	0.246
14	Uttar Pradesh	1	630,829	1,577.892	13	7,786	12.768
15	West Bengal	1	55,098	179.788	1	3,200	7.009
16	Damodar Valley Corporation	1	524,000	2,622.376	..	..	..
17	<i>Union Territories—</i>						
	(a) Delhi .. .. .	..	..	..	2	78,240	248.687
	(b) Andaman and Nicobar Islands.	1	1,100	1.795	..	..	..
	(c) Himachal Pradesh	1	782	0.690	..	..	..
	(d) Manipur	1	650	1.441	..	..	..
	(e) Pondicherry	1	5,000	0.877	..	..	..
	(f) Tripura	1	1,553	2.659	..	..	..
	Total	21	4,206.941	15,779.570	57	98,703	290.787

NOTE—The Chola power station (Installed plant capacity 136,000 kW) of Central Railway, which was previously being shown under Maharashtra State Electricity Board is now shown under companies.

TABLE III—STATEWISE DISTRIBUTION OF UNDERTAKINGS WITH THEIR INSTALLED GENERATING PLANT CAPACITY AND GENERATION—*contd.*

Serial No.	Name of State and Union territory	Total number	Private Sector			Total	
			Company			Installed generating capacity (kW)	kWh generated (Millions)
			Installed generating capacity (kW)	kWh generated (Millions)	Total number		
1	Andhra Pradesh .. ..	..	..	..	1	259,470	1,064·077
2	Assam	6	5,715	12·107	7	26,663	46·166
3	Bihar	10	34,336	113·230	11	50,141	147·157
4	Gujarat	37	214,492	1,000·628	51	368,059	1,531·383
5	Jammu and Kashmir .. ..	..	..	..	1	31,548	72·215
6	Kerala	6	..	..	8	151,315	709·060
7	Madhya Pradesh	15	23,895	86·986	16	265,088	821·481
8	Madras	8	..	..	14	557,266	2,615·104
9	Maharashtra	57	620,941	2,844·512	71	1,014,881	4,026·913
10	Mysore	15	4,807	10·696	16	211,811	1,163·454
11	Orissa .. .. .	..	..	..	1	225,960	829·993
12	Punjab	9	2,774	0·938	12	679,970	2,380·588
13	Rajasthan	11	11,522	29·710	19	73,716	105·591
14	Uttar Pradesh	32	86,982	273·778	46	725,597	1,864·438
15	West Bengal	25	468,612	1,921·888	27	526,910	2,108·685
16	Damodar Valley Corporation	..	..	..	1	524,000	2,622·376
17	<i>Union Territories—</i>						
	(a) Delhi	1	75	0·142	3	78,315	248·829
	(b) Andaman and Nicobar Islands.	..	..	..	1	1,100	1·795
	(c) Himachal Pradesh .. ..	..	..	..	1	782	0·690
	(d) Manipur .. .. .	..	..	..	1	650	1·441
	(e) Pondicherry	2	..	..	3	5,000	0·877
	(f) Tripura .. .. .	..	..	..	1	1,553	2·659
	Total	234	1,474,151	6,294,615	312	5,779,795	22,364·972

2.5 The distribution of undertakings according to increasing order of installed plant capacity with their generation are given in Table IV, and Tables V and VI show the undertakings according to increasing order of units generated and maximum demand respectively.

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

Installed plant capacity (kW)	Government/State Electricity Board			Municipality		
	Number of undertakings owning generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Millions)	Number of undertakings owning generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Millions)
Below 250	..	..	..	16	1,484	1.297
251 to 500	..	..	..	2	1,046	1.347
501 to 750	1	656	1.537	2	1,958	2.532
751 1,000	..	1,609	0.890	..	..	..
1,001 to 2,500	2	2,653	4.358	3	3,855	8.231
2,501 to 5,000	..	5,000	0.877	2	6,860	18.842
5,001 to 10,000	..	..	..	..	5,260	9.851
10,001 to 25,000	1	36,753	67.986	..	..	..
25,001 to 50,000	1	31,548	72.215	..	..	..
50,001 to 100,000	2	116,816	255.423	1	78,240	248.687
Over 100,000	10	3,487,906	12,754.108	..	..	..
GRAND TOTAL ..	17	3,682,941	13,157.194	26	98,703	290.787

TABLE IV—CLASSIFICATION OF GENERATING UNDERTAKINGS OWNED BY DIFFERENT STATE GOVERNMENTS, STATE ELECTRICITY BOARDS, MUNICIPALITIES, POWER CORPORATIONS AND COMPANIES IN TERMS OF TOTAL PLANT CAPACITY—*contd.*

Installed plant capacity (kW)	Power Corporation			Companies			Total		
	Number of undertakings owning generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Millions)	Number of undertakings owning generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Millions)	Number of undertakings owning generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Millions)
Below 250	35	5,958	3·870	51	7,442	5·167
251 to 500	17	8,821	8·213	19	9,867	9·560
501 to 750	8	7,385	11·539	11	9,999	15·608
751 to 1 000	5	4,192	11·155	5	5,801	11·845
1,001 to 2,500	10	26,558	51·480	15	33,066	64·069
2,501 to 5,000	8	34,498	72·787	10	46,358	92·506
5,001 to 10,000	2	18,614	64·676	2	23,874	74·527
10,001 to 25,000	7	139,350	485·966	8	176,103	553·952
25,001 to 50,000	1	31,548	72·215
50,001 to 100,000	3	195,056	504·110
Over 100,000	1	524,000	2,622·376	3	1,228,775	5,584·929	14	5,240,681	20,961·413
GRAND TOTAL	1	524,000	2,622·376	95	1,474,151	6,294·615	139	5,779,795	22,364·972

TABLE V—CLASSIFICATION OF UNDERTAKINGS ACCORDING TO kWh GENERATED

(Million kWh)

kWh Generated Million	Government/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
1	2	3	4	5	6	7	8	9	10	11
0 to 0.250	..	..	..	..	14	0.694	30	2.121	44	2.815
0.251 to 0.500	..	..	..	..	2	0.603	14	4.744	16	5.347
0.501 to 1.000	..	1.567	..	..	1	1.347	11	10.548	12	13.462
1.001 to 2.500	2	3.236	..	..	4	6.639	8	16.832	14	26.707
2.501 to 5.000	1	2.659	..	..	1	4.124	7	22.115	9	28.898
5.001 to 10.000	..	..	..	..	2	16.860	10	69.176	12	86.036
10.001 to 25.000	..	..	..	..	1	11.833	5	86.039	6	97.872
25.001 to 50.000	1	67.986	..	..	..	..	2	168.498	3	236.484
50.001 to 100.000	2	147.850	..	..	..	..	5	329.613	7	477.463
100.001 to 250.000	1	179.788	..	..	1	248.687	..	..	2	428.475
250.001 to 500.000	..	..	..	..	..	..	..	..	..	..
500.001 to 1,000.000	5	3,976.460	..	..	..	..	1	944.779	6	4,921.239
1,000.001 and Above	5	8,777.648	1	2,622.376	..	..	2	4,640.150	8	16,040.174
GRAND TOTAL ..	17	13,157.194	1	2,622.376	26	290.787	95	6,294.615	139	22,364.972

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

Maximum Demand on generating undertakings (kW)	Public Sector						Private Sector		Total	
	Government/State Electricity Board		Power Corporation		Municipality		Company		Number of Undertakings owning generating stations	Aggregate Maximum Demand (kW)
	Number of Undertakings owning generating stations	Aggregate Maximum Demand (kW)	Number of Undertakings owning generating stations	Aggregate Maximum Demand (kW)	Number of Undertakings owning generating stations	Aggregate Maximum Demand (kW)	Number of Undertakings owning generating stations	Aggregate Maximum Demand (kW)		
1	2	3	4	5	6	7	8	9	10	11
Upto 50	..	..	..	..	8	64	12	81	20	145
51 250	..	205	..	..	9	641	36	4,010	49	4,856
251 500	2	737	..	..	3	1,473	13	4,997	18	7,207
501 1,000	1	918	..	..	1	655	8	7,319	10	8,892
1,001 2,500	..	2,000	..	..	1	1,020	12	21,146	13	24,166
2,501 5,000	..	..	..	..	3	9,682	4	17,139	7	26,821
5,001 10,000	1	16,920	..	..	..	..	1	28,450	2	45,370
10,001 25,000	1	15,000	..	..	..	..	6	72,875	7	87,875
25,001 50,000	2	60,323	..	..	1	58,430	..	..	3	118,753
50,001 100,000	..	..	..	..	..	..	..	..	..	..
Over 100,000	10	2,745,964	1	502,000	..	..	3	1,063,000	14	4,310,964
Total ..	17	2,842,067	1	502,000	26	71,965	95	1,219,017	139	4,635,049

Out of 139 undertakings engaged in generation of power, 26 undertakings have installed plant capacity above 10,000 kW. The aggregate installed plant capacity and generation of these undertakings constitute 97.64 per cent and 98.78 per cent of the respective totals.

Out of 139 undertakings, 16 undertakings generated more than 100,000 million kWh each. They accounted for 95.64 per cent of generation.

24 undertakings registered an aggregate generating maximum demand above 10,000 kW and accounted for 97.46 per cent of the all-India total.

3. INSTALLED GENERATING PLANT CAPACITY AND ELECTRICITY PRODUCTION

3.1. The installed plant capacity stood at 5,779,795 kW at the end of the year. The generating capacity of the new plant installations during the year was 586,929 kW, while that of the plant withdrawals during the period was 25,950 kW, thus giving a net increase of 560,979 kW over the installed plant capacity of 5,218,816 kW as at the beginning of the year.

3.2. New installations during the year 1962-63:—

(a) Steam Stations	77,000 kW
(b) Diesel Stations	12,429 kW
(c) Hydro Stations	497,500 kW

(a) Steam Stations

(i) Generators

Serial No.	Installed at	State	Ownership	Generating Sets		
				No.	Capacity of each unit (kW)	Total capacity (kW)
1	2	3	4	5	6	7
1	Jubbulpore ..	Madhya Pradesh ..	Company ..	1	2,000	2,000
2	Harduaganj ..	Uttar Pradesh ..	Board ..	2	30,000	60,000
3	Kanpur ..	Uttar Pradesh ..	Board ..	1	15,000	15,000

(ii) Boilers

Serial No.	Installed at	State	Ownership	No.	Evaporating capacity of each unit in 1,000 kgms/hr.	Steam Condition at the stop valve	
						Pressure in kgms/sq. cm.	Temperature °C
1	2	3	4	5	6	7	8
1	Jubbulpore ..	Madhya Pradesh ..	Company	1	27.2	18.9	264
2	Kanpur ..	Uttar Pradesh ..	Board	2	9.1	14.0	315
3	Harduaganj ..	Uttar Pradesh ..	Board	4	72.5	61.5	487

(b) The installed plant capacity of diesel stations added during the year was 12,429 kW.

(c) Hydro Stations

Serial No.	Installed at	State	Ownership	No. of units	Capacity of each unit (kW)	Total capacity (kW)
1	2	3	4	5	6	7
1	Mohra	Jammu & Kashmir	Government ..	2	4,500	9,000
2	Koyna	Maharashtra ..	Board	4	60,000	240,000
				1	2,000	2,000
3	Munirabad (Tungabhadra Left Bank).	Mysore	Board	1	9,000	9,000
4	Bhadra	Mysore	Board	1	2,000	2,000
5	Hirakud P.H. No. I ..	Orissa	Board	1	37,500	37,000
6	Hirakud P.H. No. II	Orissa	Board	2	24,000	48,000
7	Rihand	Uttar Pradesh ..	Board	3	50,000	150,000

During the year the main increase in installed capacity was in hydro plants, while the addition of dies plants was meagre as usual. Some diesel plants were installed to meet the local energy demands.

3.3. PLANT WITHDRAWALS DURING THE YEAR

Steam	11,676 kW
Oil	14,110 kW
Hydro	164 kW
Total	25,950 kW

3.4. Tables VII and VIII give the installed plant capacity and generation by type of plants and ownership

TABLE VII—INSTALLED PLANT CAPACITY AND GENERATION BY OWNERSHIP

Ownership	No. of undertakings owning generating stations	Installed capacity of generators			kWh generated 1962-63 (Millions)	Percentage of grand total	Increase in 1962-63 over 1961-62 %
		As on 31-3-1963 (kW)	Percentage of grand total	Increase in 1962-63 over 1961-62 %			
<i>(i) Public Sector—</i>							
(a) Government and State Electricity Boards.	17	3,682,941	63.70	13.20	13,157.194	58.83	16.50
(b) Power Corporation ..	1	524,000	9.07	..	2,622.376	11.73	26.02
(c) Municipality ..	26	98,703	1.71	(—)0.65	290.787	1.30	(—)17.87
Sub-Total ..	44	4,305,644	74.48	11.06	16,070.357	71.86	14.97
<i>(ii) Private Sector—</i>							
(a) Companies ..	95	1,474,151	25.52	9.86	6,294.615	28.14	5.94
GRAND TOTAL ..	139	5,779,795	100.00	10.75	22,364.972	100.00	13.70

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

Type of plant and ownership	Number of undertakings owning generating stations	Installed capacity of generations		Generation	
		As on 31-3-1963	Percentage of grand total	kWh generated	Percentage of grand total
		kW	%	(Million)	%
A—STEAM—					
<i>Public Sector—</i>					
(a) Government and State Electricity Board ..	6	945,548	16.36	2,850.427	12.91
(b) Power Corporation	1	420,000	7.27	2,317.922	10.50
(c) Municipality	1	55,600	0.96	225.936	1.02
<i>Private Sector—</i>					
Company	15	1,115,195	19.29	4,782.578	21.66
Sub-Total ..	23	2,536,343	43.88	10,176.863	46.09
B—OIL—					
<i>Public Sector—</i>					
(a) Government and State Electricity Board ..	2	210,583	3.63	206.510	0.94
(b) Power Corporation .. .. .	..	..	..	..	..
(c) Municipality	22	35,243	0.61	39.377	0.18
<i>Private Sector—</i>					
Company	79	81,326	1.42	137.680	0.62
Sub-Total ..	103	327,152	5.66	383.567	1.74
C—HYDRO—					
<i>Public Sector—</i>					
(a) Government and State Electricity Board ..	9	2,526,810	43.72	10,100.257	44.45
(b) Power Corporation .. .. .	..	104,000	1.80	304.454	1.38
(c) Municipality	3	7,860	0.14	25.474	0.12
<i>Private Sector—</i>					
Company	1	277,630	4.80	1,374.357	6.22
Sub-Total ..	13	2,916,300	50.46	11,804.542	52.17
GRAND TOTAL (Steam, Oil and Hydro) ..	139	5,779,795	100.00	22,364.972	100.00

3-5. INSTALLED GENERATING PLANTS AND POWER PRODUCTION IN RESPECTIVE STATES

Table IX gives the State-wise summary of the installed capacity and generation type-wise viz. steam, oil and hydro. The installed plant capacity and their generation of power plants in various States are shown as per

- (i) their physical location in case of jointly-owned power plants,
(ii) ownership in case of exclusive ownership and
(iii) D.V.C. is shown separately.

TABLE IX—SUMMARY OF INSTALLED PLANT CAPACITY AND GENERATION BY DIFFERENT TYPES OF PLANT (STATEWISE) 1962-63

Serial No.	Name of State or Union Territory	Installed Plant Capacity (kW)				Generation (Million kWh)			
		Steam	Diesel	Hydro	Total	Steam	Diesel	Hydro	Total
1	2	3	4	5	6	7	8	9	10
1	Andhra Pradesh	85,450	8,195	165,825	259,470	196·518	8·021	859·538	1,064·077
2	Assam ..	..	16,723	9,940	26,663	..	19·970	26·196	46·166
3	Bihar ..	30,770	19,371	..	50,141	95·438	51·719	..	147·157
4	Gujarat ..	310,600	57,459	..	368,059	1,464·236	67·147	..	1,531·383
5	Jammu and Kashmir.	1,500	1,436	28,612	31,548	..	0·025	72·190	72·215
6	Kerala ..	..	3,815	147,500	151,315	..	..	709·060	709·060
7	Madhya Pradesh.	166,288	29,800	69,000	265,088	531·747	26·683	263·051	821·481
8	Madras ..	101,500	516	455,250	557,266	455·174	..	2,159·930	2,615·104
9	Maharashtra ..	443,250	46,517	525,114	1,014,881	1,896·590	78·504	2,051·819	4,026·913
10	Mysore ..	..	13,611	198,200	211,811	..	23·547	1,139·907	1,163·454
11	Orissa ..	5,000	12,460	208,500	225,960	..	2·831	827·162	829·993
12	Punjab ..	10,700	14,314	654,956	679,970	7·243	2·453	2,370·892	2,380·588
13	Rajasthan ..	46,250	27,466	..	73,716	63·122	42·469	..	105·591
14	Uttar Pradesh	342,285	41,342	341,970	725,597	837·231	22·765	1,004·442	1,864·438
15	West Bengal ..	511,150	8,552	7,208	526,910	2,083·130	10·339	15·216	2,108·685
16	D.V.C. ..	420,000	..	104,000	524,000	2,317·922	..	304·454	2,622·376
17	Union Territories—								
	(a) Delhi ..	55,600	22,715	..	78,315	225·936	22·893	..	248·829
	(b) Andaman & Nicobar Islands.	1,100	..	..	1,100	1·699	0·096	..	1·795
	(c) Himachal Pradesh.	..	557	225	782	..	0·005	0·685	0·690
	(d) Manipur ..	..	650	..	650	..	1·441	..	1·441
	(e) Pondicherry	4,900	100	..	5,000	0·877	..	..	0·877
	(f) Tripura	..	1,553	..	1,553	..	2·659	..	2·659
	GRAND TOTAL	2,536,343	327,152	2,916,300	5,779,795	10,176·863	383·567	11,804·542	22,364·972

Tables X, XI and XII demonstrate as to how far each sector is participating in each state under the categories steam, oil and hydro.

TABLE X—INSTALLED STEAM PLANT CAPACITY BY OWNERSHIP AS ON 31-3-1963

(Kilowatt)

Serial No.	Name of State or Union Territory	Public Sector		Private Sector	Total
		Government/ State Electricity Board	Municipality	Company	
1	Andhra Pradesh	85,450	..	..	85,450
2	Assam .. .. .	..	..	..	..
3	Bihar	2,000	..	28,770	30,770
4	Gujarat	110,500	..	200,100	310,600
5	Jammu and Kashmir	1,500	..	..	1,500
6	Kerala .. .. .	..	..	..	..
7	Madhya Pradesh	145,738	..	20,550	166,288
8	Madras	101,500	..	..	101,500
9	Maharashtra	119,750	..	323,500	443,250
10	Mysore .. .. .	..	..	..	..
11	Orissa	5,000	..	..	5,000
12	Punjab	10,700	..	..	10,700
13	Rajasthan	46,250	..	..	46,250
14	Uttar Pradesh	266,160	..	76,125	342,285
15	West Bengal	45,000	..	466,150	511,150
16	D.V.C.	420,000	..	..	420,000
17	<i>Union Territories—</i>				
	(a) Delhi .. .. .	..	55,600	..	55,600
	(b) Andaman and Nicobar Islands	1,100	..	..	1,100
	(c) Himachal Pradesh .. .. .	..	..	..	..
	(d) Manipur .. .. .	..	..	..	..
	(e) Pondicherry	4,900	..	..	4,900
	(f) Tripura .. .. .	..	..	..	..
	Total ..	1,365,548	55,600	1,115,195	2,536,343

TABLE XI—INSTALLED OIL PLANT CAPACITY BY OWNERSHIP AS ON 31-3-1963

(Kilowatt)

Serial No.	Name of State or Union Territory	Public Sector		Private Sector	Total
		Government/ State Electricity Board	Municipality	Company	
1	Andhra Pradesh	8,195	..	..	8,195
2	Assam	12,548	..	4,175	16,723
3	Bihar	13,805	..	5,566	19,371
4	Gujarat	40,391	2,676	14,392	57,459
5	Jammu and Kashmir	1,436	..	..	1,436
6	Kerala	3,815	..	..	3,815
7	Madhya Pradesh	26,455	..	3,345	29,800
8	Madras	516	..	..	516
9	Maharashtra	22,501	2,665	21,351	46,517
10	Mysore	8,804	..	4,807	13,611
11	Orissa	12,460	..	..	12,460
12	Punjab	9,630	1,910	2,774	14,314
13	Rajasthan	15,468	476	11,522	27,466
14	Uttar Pradesh	26,849	3,636	10,857	41,342
15	West Bengal	4,850	1,240	2,462	8,552
16	D.V.C. .. .. .	..	..	..	..
17	<i>Union Territories—</i>				
	(a) Delhi .. .. .	..	22,640	75	22,715
	(b) Andaman and Nicobar Islands .. .. .	..	..	..	..
	(c) Himachal Pradesh	557	..	..	557
	(d) Manipur	650	..	..	650
	(e) Pondicherry	100	..	..	100
	(f) Tripura	1,553	..	..	1,553
	Total	210,583	35,243	81,326	327,152

TABLE XII—INSTALLED HYDRO PLANT CAPACITY BY OWNERSHIP AS ON 31-3-1963

(Kilowatt)

Serial No.	Name of State or Union Territory	Public Sector		Private Sector	Total
		Government/ State Electricity Board	Municipality	Company	
1	Andhra Pradesh	165,825	..	..	165,825
2	Assam	8,400	..	1,540	9,940
3	Bihar .. .. .	..	..	..	..
4	Gujarat .. .. .	..	..	..	..
5	Jammu & Kashmir	28,612	..	..	28,612
6	Kerala	147,500	..	..	147,500
7	Madhya Pradesh	69,000	..	..	69,000
8	Madras	455,250	..	..	455,250
9	Maharashtra	249,024	..	276,090	525,114
10	Mysore	198,200	..	..	198,200
11	Orissa	208,500	..	..	208,500
12	Punjab	653,208	1,750	..	654,956
13	Rajasthan .. .. .	..	..	..	..
14	Uttar Pradesh	337,820	4,150	..	341,970
15	West Bengal	5,248	1,960	..	7,208
16	D.V.C.	104,000	..	..	104,000
17	<i>Union Territories—</i>				
	(a) Delhi .. .. .	..	..	..	..
	(b) Andaman & Nicobar Islands .. .. .	..	..	..	..
	(c) Himachal Pradesh	225	..	..	225
	(d) Manipur .. .. .	..	..	..	..
	(e) Pondicherry .. .. .	..	..	..	..
	(f) Tripura .. .. .	..	..	..	..
	Total	2,630,810	7,860	277,630	2,916,300

Tables XIII, XIV and XV give on state-wise basis the generation of electricity by steam, oil and hydro plants separately.

TABLE XIII—ELECTRICITY GENERATED BY STEAM PLANT DURING 1962-63

(Million kWh.)

Serial No.	Name of State or Union Territory	Public Sector		Private Sector	Total
		Government/ State Electricity Board	Municipality	Company	
1	Andhra Pradesh	196·518	..	..	196·518
2	Assam .. .. .	..	..	..	..
3	Bihar .. .. .	..	..	95·438	95·438
4	Gujarat	475·142	..	989·094	1,464·236
5	Jammu and Kashmir .. .. .	..	..	..	..
6	Kerala .. .. .	..	..	..	..
7	Madhya Pradesh	448·803	..	82·944	531·747
8	Madras	455·174	..	..	455·174
9	Maharashtra	467·583	..	1,429·007	1,896·590
10	Mysore .. .. .	..	..	..	..
11	Orissa .. .. .	..	..	..	..
12	Punjab	7·243	..	..	7·243
13	Rajasthan	63·122	..	..	63·122
14	Uttar Pradesh	570·776	..	266·455	837·231
15	West Bengal	163·490	..	1,919·640	2,083·130
16	D.V.C.	2,317·922	..	..	2,317·922
17	<i>Union Territories—</i>				
	(a) Delhi .. .. .	..	225·936	..	225·936
	(b) Andaman and Nicobar Islands	1·699	..	..	1·699
	(c) Himachal Pradesh .. .. .	..	..	..	..
	(d) Manipur .. .. .	..	..	..	..
	(e) Pondicherry	0·877	..	..	0·877
	(f) Tripura .. .. .	..	..	..	..
	Total	5,168·349	225·936	4,782·578	10,176·863

TABLE XIV—ELECTRICITY GENERATED BY OIL PLANT DURING 1962-63

(Million kWh)

Serial No.	Name of State or Union Territory	Public Sector		Private Sector	Total
		Government/ State Electricity Board	Municipality	Company	
1	Andhra Pradesh	8·021	..	..	8·021
2	Assam	12·297	..	7·673	19·970
3	Bihar	33·927	..	17·792	51·719
4	Gujarat	50·731	4·882	11·534	67·147
5	Jammu & Kashmir	0·025	..	..	0·025
6	Kerala .. .. .	..	..	..	..
7	Madhya Pradesh	22·641	..	4·042	26·683
8	Madras .. .. .	..	..	..	..
9	Maharashtra	27·560	5·362	45·582	78·504
10	Mysore	12·851	..	10·696	23·547
11	Orissa	2·831	..	..	2·831
12	Punjab	1·328	0·187	0·938	2·453
13	Rajasthan	12·513	0·246	29·710	42·469
14	Uttar Pradesh	11·432	4·010	7·323	22·765
15	West Bengal	6·152	1·939	2·248	10·339
16	D.V.C. .. .. .	..	..	..	..
17	<i>Union Territories—</i>				
	(a) Delhi .. .. .	..	22·751	0·142	22·893
	(b) Andaman and Nicobar Islands	0·096	..	..	0·096
	(c) Himachal Pradesh	0·005	..	..	0·005
	(d) Manipur	1·441	..	..	1·441
	(e) Pondicherry .. .. .	..	..	..	..
	(f) Tripura	2·659	..	..	2·659
	Total	206·510	39·377	137·680	383·567

TABLE XV—ELECTRICITY GENERATED BY HYDRO PLANT DURING 1962-63

(Million kWh)

Serial No.	Name of State or Union Territory	Public Sector		Private Sector	Total
		Government/ State Electricity Board	Municipality	Company	
1	Andhra Pradesh	859·538	..	..	859·538
2	Assam	21·762	..	4·434	26·196
3	Bihar .. .. .	..	..	..	..
4	Gujarat .. .. .	..	..	..	..
5	Jammu and Kashmir	72·190	..	..	72·190
6	Kerala	709·060	..	..	709·060
7	Madhya Pradesh	263·051	..	..	263·051
8	Madras	2,159·930	..	..	2,159·930
9	Maharashtra	681·896	..	1,369·923	2,051·819
10	Mysore	1,139·907	..	..	1,139·907
11	Orissa	827·162	..	..	827·162
12	Punjab	2,359·246	11·646	..	2,370·892
13	Rajasthan .. .. .	..	..	..	..
14	Uttar Pradesh	995·684	8·758	..	1,004·442
15	West Bengal	10·146	5·070	..	15·216
16	D.V.C.	304·454	..	..	304·454
17	<i>Union Territories—</i>				
	(a) Delhi .. .. .	..	..	..	..
	(b) Andaman & Nicobar Islands .. .. .	..	..	..	..
	(c) Himachal Pradesh	0·685	..	..	0·685
	(d) Manipur .. .. .	..	..	..	..
	(e) Pondicherry .. .. .	..	..	..	..
	(f) Tripura .. .. .	..	..	..	..
	Total	10,404·711	25·474	1,374·357	11,804·542

Table XVI gives state-wise plant capacity and kWh consumption per sq. kilometre and per thousand of population. In this table the figures of installed plant capacity are given as per the ownership of the States i.e. it takes into account the shares of participating states in the installed plant capacity of jointly-owned power stations. The installed plant capacity of D.V.C. is shown in the States of Bihar and Bengal as per their location.

The shares of participating States in jointly-owned projects are given below :—

Serial No.	Name of power project	Installed plant capacity (kW)	Location	Participating states and their share	
1	2	3	4	5	6
1	Machkund Hydro Power Station	114,750	Orissa ..	Andra Pradesh 70% 80,325	Orissa 30% 34,425
2	Tungabhadra Hydro Power Station	36,000	Mysore ..	Andra Pradesh 80% 28,800	Mysore 20% 7,200
3	Chambal Hydro Power Station	69,000	Madhya Pradesh ..	Madhya Pradesh 50% 34,500	Rajasthan 50% 34,500
4	Bhakra, Ganguwal and Kotla	604,500	Punjab ..	Punjab 84.78% 512,495	Rajasthan 15.22% 92,005

TABLE XVI—PLANT CAPACITY AND KWH CONSUMED IN DIFFERENT STATES PER SQUARE KILOMETRE AND PER THOUSAND OF POPULATION

Serial No	Name of State or Union Territory	Population (Million)	Area Square Kilometre	Installed Capacity as owned by the State (kW)	Generating Plant installed per 1,000 of Population (kW)	Generating Plant installed per square kilometre	Total kWh consumed (Million)	kWh Consumed per 1,000 of Population	kWh Consumed per square kilometre
1	2	3	4	5	6	7	8	9	10
1	Andhra Pradesh ..	37.04	273,763	217,845	5.881	0.796	810.000	21,868	2,959
2	Assam ..	12.59	220,311	26,663	2,118	0.121	38.882	3,088	176
3	Bihar ..	48.17	173,823	349,141	7,248	2.009	1,279.859	26,570	7,363
4	Gujarat ..	21.64	185,830	368,059	16,008	1.981	1,235.588	57,097	6,649
5	Jammu & Kashmir ..	3.62	222,380	31,548	8,705	0.142	79.190	21,852	356
6	Kerala ..	17.66	38,687	151,315	8,568	3.911	612.011	34,655	15,819
7	Madhya Pradesh ..	33.80	443,667	230,588	6,822	0.520	618.811	18,308	1,395
8	Madras ..	34.45	129,951	557,266	16,176	4.288	2,108.885	61,216	16,228
9	Maharashtra ..	41.26	308,000	1,014,881	24,597	3.295	3,425.731	83,028	11,123
10	Mysore ..	24.53	193,890	219,011	8,928	1.130	981.509	40,013	5,062
11	Orissa ..	18.20	156,047	260,385	14,307	1.669	666.000	36,593	4,268
12	Punjab ..	21.26	121,891	587,965	27,656	4.824	1,723.517	81,069	14,140
13	Rajasthan ..	21.12	342,134	200,221	9,480	0.585	164.230	7,776	479
14	Uttar Pradesh ..	76.07	293,765	725,597	9,539	2.470	1,378.501	18,121	4,693
15	West Bengal ..	36.97	87,762	751,910	20,338	8.567	3,043.116	82,313	34,675
16	Union Territories—								
	(a) Delhi ..	2.89	1,484	78,315	27,071	52.772	462.089	159,727	311,381
	(b) The Rest ..	3.97	69,489	9,085	2,239	0.131	51.102	12,875	683
	GRAND TOTAL ..	455.24	3,262,874	5,779,795	12,696	1.771	18,679.021	41,031	5,724

NOTE—The installed plant capacity of DVC (524,000 kW) is included in Bihar and Bengal States as per their locations. Three power stations of D.V.C. with installed capacity of 299,000 kW are located in Bihar and two power stations with capacity of 225,000 kW are located in West Bengal.

During the period under review the overall installed plant capacity rose to 1.77 kW per sq. kilometre of area and 1270 kW per thousand of population against 1.59 and 11'63 respectively in the previous year. The population of each state is estimated by adding an annual rise over the previous year, equivalent to the average per cent rise during the last decade.

3.6. CLASSIFICATION OF INSTALLED POWER PLANT ACCORDING TO MODE OF GENERATION

Table XVII gives separately details of installed generating capacity of steam, oil and hydro plants classified under D.C. and A.C. plants. The standard frequency of A.C. plants is 50 cycles, except in the case of two power plants which operate at a frequency of 25 cycles.

TABLE XVII—GENERATING PLANT TYPE AND INSTALLED CAPACITY (ANALYSIS OF TYPE OF PRIME MOVERS AND GENERATING PLANT INSTALLED)

Type of Prime Mover and Generating Plant	Government and State Electricity Board		Power Corporation		Municipality		Company		Total		
	No. of sets	Aggregate Capacity of sets kW	No. of sets	Aggregate Capacity of sets kW	No. of sets	Aggregate Capacity of sets kW	No. of sets	Aggregate Capacity of sets kW	No. of sets	Aggregate Capacity of sets kW	Percentage of total installed plant Capacity
1	2	3	4	5	6	7	8	9	10	11	12
<i>(i) Steam Turbines—</i>											
A.C. Generators	162	942,390	6	420,000	11	55,600	114	1,112,550	293	2,530,540	43.78
D.C. Generators	1	300	..	..	..	..	..	..	1	300	0.01
Sub-Total ..	163	942,690	6	420,000	11	55,600	114	1,112,550	294	2,530,840	43.79
<i>(ii) Reciprocating Steam Engines—</i>											
A.C. Generators	14	2,858	..	..	..	..	11	2,375	25	5,233	0.09
D.C. Generators	..	..	..	..	..	..	3	270	3	270	0.00
Sub-Total ..	14	2,858	..	..	..	..	14	2,645	28	5,503	0.09
<i>(iii) Oil Engines—</i>											
A.C. Generators	1,335	199,444	..	..	95	35,231	375	68,287	1,805	302,962	5.24
D.C. Generators	156	11,139	..	..	1	12	87	13,039	244	24,190	0.42
Sub-Total ..	1,491	210,583	..	..	96	35,243	462	81,326	2,049	327,152	5.66
<i>(iv) Water Turbines—</i>											
A.C. Generators	183	2,526,785	6	104,000	21	7,860	26	277,630	236	2,916,275	50.46
D.C. Generators	1	25	..	..	..	..	..	..	1	25	0.00
Sub-Total ..	184	2,526,810	6	104,000	21	7,860	26	277,630	237	2,916,300	50.46
<i>(v) Total—</i>											
A.C. Generators	1,694	3,671,477	12	524,000	127	98,691	526	1,460,842	2,359	5,755,010	99.57
D.C. Generators	158	11,464	..	..	1	12	90	13,309	249	24,785	0.43
GRAND TOTAL ..	1,852	3,682,941	12	524,000	128	98,703	616	1,474,151	2,608	5,779,795	100.00

3.7. The sizes of the generating sets are given in Table XVIII classified according to the capacity groups. The largest capacity of steam, oil and hydro sets in operation in India as on 31-3-1963 was 82,500 kW, 2,140 kW and 90,000 kW respectively.

TABLE XVIII—GENERATING PLANT UNIT SIZES

Size of Generating Plant	Public Sector						Private Sector		Total		Percentage total plant
	Government/ State Electricity Board		Power Corporation		Municipality		Company				
	No. of sets	Aggregate plant capacity kW	No. of sets	Aggregate plant capacity kW	No. of sets	Aggregate plant capacity kW	No. of sets	Aggregate plant capacity kW	No. of sets	Aggregate plant capacity kW	
1	2	3	4	5	6	7	8	9	10	11	12
(1) A.C. Plant—											
Under 1,000 kW	1,411	229,552	..	..	100	21,231	401	77,692	1,912	328,475	5.67
1,001 to 2,000 kW	40	63,050	2	4,000	14	16,660	26	34,150	82	117,860	2.03
2,001 to 5,000 kW	93	344,600	..	..	8	21,200	29	110,500	130	476,300	8.22
5,001 to 10,000 kW	54	425,675	..	..	5	39,600	18	136,500	77	601,775	10.41
10,001 to 15,000 kW	39	524,850	..	..	..	..	26	340,500	65	865,350	14.96
15,001 to 20,000 kW	9	163,000	3	60,000	..	..	8	152,000	20	375,000	6.55
20,001 to 30,000 kW	27	735,750	..	..	..	..	14	372,000	41	1,107,750	19.16
30,001 to 50,000 kW	12	495,000	1	40,000	..	..	1	50,000	14	585,000	10.12
Over 50,000 kW	9	690,000	6	420,000	..	..	3	187,500	18	1,297,500	22.44
Sub-Total ..	1,694	3,671,477	12	524,000	127	98,691	526	1,460,842	2,359	5,755,010	99.57
(2) D.C. Plant—											
Under 100 kW	129	6,152	..	..	1	12	53	2,927	183	9,091	0.16
101 to 200 kW	21	3,156	..	..	..	..	18	2,644	39	5,800	0.10
201 to 300 kW	7	1,850	..	..	..	..	6	1,399	13	3,249	0.05
301 to 500 kW	1	306	..	..	..	..	5	1,859	6	2,165	0.04
Over 500 kW	..	..	..	..	..	..	8	4,480	8	4,480	0.08
Sub-Total ..	158	11,464	..	..	1	12	90	13,309	249	24,785	0.43
Total Generating Plant	1,852	3,682,941	12	524,000	128	98,703	616	1,474,151	2,608	5,779,795	100.00

The number of sets with the capacity above 10,000 kW are 158 and it account for 73.20 per cent of the total installed plant capacity.

3.8

A.C. and D.C. GENERATION

Table XIX gives plant capacity and generation by A.C. and D.C. plants separately. The percentage of A.C. plant to total has increased from 99.4 per cent to 99.6 per cent during the year under review while the generation has gone up from 99.8 per cent to 99.9 per cent.

TABLE XIX—PLANT CAPACITY AND GENERATION BY A.C. & D.C.

System of Generation adopted	No. of Generating Stations	Aggregate installed capacity of generating plant (kW)	Percentage of Grand Total %	kWh generated (Million)	Percentage of Grand Total %
1	2	3	4	5	6
Alternating Current Only ..	688	5,739,162	99.30	22,311.862	99.76
Alternating Current	12	A.C. 15,848	0.27	33.425	0.15
and Direct Current		D.C. 3,205	0.06	1.538	0.01
Direct Current	66	21,580	0.37	18.147	0.08
Total	766	A.C. 5,755,010	99.57	22,345.287	99.91
		D.C. 24,785	0.43	19.685	0.09
GRAND TOTAL	766	5,779,795	100.00	22,364.972	100.00

3.9

VOLTAGE OF GENERATION

Generation voltages in India range from 230 volts to 33,000 volts in case of A.C. generating sets, while for D.C. generating sets, it is 110 volts to 500 volts. Most popular voltage of generation is 11 kV.

TABLE XX—CLASSIFICATION OF UNDERTAKINGS ACCORDING TO VOLTAGE OF GENERATION

Serial No.	A.C. or D.C.	No. of Phases	Voltage of Generation	Public Sector						Private Sector		Total	
				Government/State Electricity Board		Power Corporation		Municipality		Company			
				No. of undertakings owning generating stations	Aggregate installed capacity kW	No. of Undertakings	Aggregate installed capacity kW	No. of Undertakings	Aggregate installed capacity kW	No. of Undertakings	Aggregate installed capacity kW	No. of Undertakings	Aggregate installed capacity kW
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	A.C.	3	33 KV	..	..	..	..	..	..	1	280,000	1	280,000
2	A.C.	3	11 to 14 kV	14	2,575,781	2	524,000	1	40,020	4	582,000	21	3,731,781
3	A.C.	Phase 3	8 to 6.9 kV	11	582,990	..	..	2	41,220	11	280,335	24	904,545
4	A.C.		5 to 5.5 kV	1	27,500	..	..	..	..	1	144,000	2	171,500
5	A.C.	3	3 to 3.9 kV	14	227,508	..	..	5	4,290	37	123,382	56	355,178
6	A.C.		2 to 2.3 kV	4	74,674	..	..	1	3,660	2	2,777	7	81,111
7	A.C.	1	400—460 V	22	182,336	..	..	18	9,501	85	38,336	126	230,173
8	A.C.		230 V	4	710	..	..	..	..	1	12	5	722
9	D.C.	wire 3	440—500 V	9	9,413	..	..	..	..	16	12,952	25	22,365
10	D.C.	wire 2	220—250 V	6	2,051	..	..	1	12	5	357	12	2,420
GRAND TOTAL ..				85	3,882,941	2	524,000	28	98,703	163	1,474,151	278	5,779,795

3-10 CLASSIFICATION OF POWER STATIONS ACCORDING TO THEIR INSTALLED PLANT CAPACITY

Table XXI gives the distribution of steam power stations according to range of installed plant capacity. This Table also gives generation, capacity of boilers and average plant factor of each range etc.

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

Generating Plant Capacity	Number of generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Million)	Capacity of boilers in metric Tons	Average capacity of the boilers in kg/kW of generating capacity	Average overall thermal efficiency	Average plant factor %
1	2	3	4	5	6	7	8
Up to 250 ..	..	..	..	..	..	..	..
251 to 500 ..	3	945	0.479	12	12.7	3.1	5.79
501 to 750 ..	2	1,150	1.500	25	21.7	7.5	14.88
751 to 1,000 ..	1	1,000	2.552	16	16.0	3.0	29.13
1,001 to 2,500 ..	7	13,260	15.479	109	8.2	12.4	13.33
2,501 to 5,000 ..	12	50,400	85.684	343	6.8	10.5	19.41
5,001 to 10,000 ..	12	83,783	151.056	558	6.3	11.3	19.42
10,001 to 25,000 ..	25	406,630	1,244.558	2,440	6.0	13.2	34.66
25,001 to 50,000 ..	5	182,400	592.645	778	4.3	16.6	37.09
Over 50,000 ..	16	1,791,775	8,082.910	9,060	5.1	22.8	51.50
GRAND TOTAL ..	83	2,536,343	10,176.863	13,341	5.3	20.0	45.80

There were 46 stations with installed plant capacity above 10,000 kW and among them 16 stations had capacity each above 50,000 kW. A group of other 31 stations had installed capacity between 1,001 to 10,000 kW. The remaining 6 stations had capacity below 1,000 kW and among them 3 stations were with capacity of 250 kW or less each.

46 stations with capacity of each above 10,000 kW accounted for 97.47 per cent of the total power generated by all the steam power stations. Out of these, 16 stations with capacity above 50,000 kW each produced 79.5 per cent of the total power produced by the steam power stations. While 31 stations in the installed plant capacity group of 1,001 kW to 10,000 kW together generated 2.48 per cent, the remaining 6 power stations each of capacity less than 1,000 kW generated in all only 0.05 per cent of the total power produced in all the steam stations in India. At present Bokaro steam station of D.V.C. is the biggest steam station with an installed plant capacity of 255 MW.

The column 6 of Table XXI gives average steam plant capacity of boilers expressed in kilograms per kW of the installed generating plant capacity. Four stations of capacity upto 1,000 kW the boiler capacity ranged from 21.7 to 12.7 kilograms per kW of the generating plant installed. The higher range of steam plant capacity per kW is ascribed to a number of small reciprocating steam engine sets installed in some of the old power stations.

The table also gives the thermal efficiency and average plant factor under different capacity groups. The average overall thermal efficiency of all the steam power stations was 21.0 per cent as compared to 18.7 per cent for the year 1961-62. In the capacity range above 1,000 kW the boiler capacity varies from 8.2 kilograms to 4.3 kilograms per kW of the generating plant installed. The maximum steam pressure and temperature adopted in the power stations in India was 105 kilograms per square centimetre and temperature 540°C respectively. Only two stations i.e. Durgapur and Bokaro have adopted a pressure of 105 kilograms per square centimetre and temperature of 540°C.

Table XXII gives diesel oil stations arranged according to their installed plant capacity.

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

Installed Capacity (kW)	Number of generating stations	Aggregate installed capacity kW	Total kWh generated by the group (Millions)	Fuel consumption in (Metric Tons)	Fuel consumption in Kilogram/kWh generated	Average plant factor %
1	2	3	4	5	6	7
Up to 250 ..	327	36,784	25.264	10,479.3	0.415	7.84
251 to 500 ..	118	41,557	37.873	13,931.4	0.368	10.40
501 to 750 ..	60	35,623	34.977	12,266.0	0.351	11.21
751 to 1,000 ..	29	23,775	40.790	12,545.5	0.308	19.59
1,001 to 2,500 ..	61	89,799	123.468	37,887.1	0.307	15.70
2,501 to 5,000 ..	14	49,185	58.985	15,786.7	0.277	13.23
5,001 to 10,000 ..	6	40,179	39.368	10,488.0	0.266	11.19
Above 10,000 ..	1	10,270	24.842	6,086.0	0.245	27.61
GRAND TOTAL ..	616	327,162	383.567	119,470.0	0.311	13.38

327 diesel power stations out of a total of 616 had each capacity of 250 kW or less and their aggregated capacity was 11.25 per cent of the total installed diesel plant capacity in the country. 268 stations each in the capacity range 251 kW to 2,500 kW accounted for 30.45 per cent and 21 stations each of capacity above 2,500 kW together accounted for 58.30 per cent of total installed diesel plant capacity.

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

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

Installed Capacity (kW)	Number of generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Millions)	Average plant factor %
1	2	3	4	5
Up to 250 ..	10	927	1.086	11.4
251 to 500 ..	..	..	..	..
501 to 750 ..	..	..	..	..
751 to 1,000 ..	..	600	3.810	72.5
1,001 to 2,500 ..	9	12,912	37.926	33.5
2,501 to 5,000 ..	7	24,700	115.728	53.5
5,001 to 10,000 ..	2	14,400	38.762	30.7
10,001 to 25,000 ..	9	143,375	657.038	52.3
25,001 to 50,000 ..	13	511,686	2,942.744	65.7
Over 50,000 ..	16	2,207,700	8,007.448	41.4
GRAND TOTAL ..	67	2,916,300	11,804.542	46.2

There were only 16 stations each having installed plant capacity of 50,000 kW and totalling to an aggregate capacity of 2,207,700 kW and account for 75.65 per cent of the total hydro plant capacity. 22 stations in the range 10,001 kW to 50,000 kW each and of aggregated plant capacity of 655,061 kW accounted for 22.5 per cent of the total hydro plant capacity.

As many as 29 other stations each of capacity in the range of 10,000 kW below totalling to an aggregated installed plant capacity of 53,539 kW represented only 1.85 per cent of the total hydro plant capacity and produced 1.57 per cent of the total hydro power. The biggest hydro power station had 450 MW of installed capacity.

The average plant factor of the hydro station varies between 11.4 per cent to 72.5 per cent. The lowest plant factor was registered in stations of capacity 250 kW or below.

3.11 FUEL CONSUMPTION

The Coal and diesel oil consumed in the steam and diesel power stations in the various states in the year 1962-63 are given in Table XXIV.

TABLE XXIV—STATEWISE FUEL CONSUMPTION DURING 1962-63

Serial No.	Name of State or Union Territory	Steam Power Station			Oil Power Station		
		Coal Consumption (Metric Tons)	Generation (Million kWh)	Average Consumption in Kg/kWh generated	Oil Consumption (Metric Tons)	Generation (Million kWh)	Average Fuel Consumption in Kg/kWh generated
1	2	3	4	5	6	7	8
1	Andhra Pradesh ..	266,423.6	196.518	1.36	2,673.6	8.021	0.33
2	Assam ..	..	..	..	6,955.0	19.970	0.35
3	Bihar ..	860,542.6	1,562.036	0.55	15,265.1	51.719	0.30
4	Gujarat ..	1,151,973.3	1,464.236	0.79	19,898.1	67.147	0.30
5	Jammu & Kashmir	..	..	..	16.4	0.025	0.66
6	Kerala ..	..	..	..	..	..	..
7	Madhya Pradesh ..	554,951.3	531.747	1.04	9,689.6	26.683	0.36
8	Madras ..	397,077.2	455.174	0.87	..	..	..
9	Maharashtra ..	1,561,570.0	1,896.590	0.82	24,394.3	78.504	0.31
10	Mysore ..	..	..	..	7,229.5	23.547	0.31
11	Orissa ..	..	..	..	1,152.3	2.831	0.41
12	Punjab ..	13,986.0	7.243	1.93	1,116.8	2.453	0.46
13	Rajasthan ..	75,910.4	63.122	1.20	11,966.5	42.469	0.28
14	Uttar Pradesh ..	839,884.7	837.231	1.00	7,226.3	22.765	0.32
15	West Bengal ..	2,036,099.4	2,934.454	0.69	4,376.6	10.339	0.42
16	Union Territories—						
	(a) Delhi ..	233,811.7	225.936	1.03	6,345.5	22.893	0.28
	(b) Rest ..	3,459.0	2.576	1.34	1,164.4	4.201	0.28
	Total ..	7,995,689.2	10,176.863	0.78	119,470.0	383.567	0.31

7,995,689 metric tons of fuel (mostly coal) and 119,470 metric tons of diesel oil were consumed in the steam and diesel power stations of India respectively. The fuel consumption increased 10·5 per cent over the consumption in the previous year.

The average coal consumption per kWh generated by steam plants (including reciprocating steam plants) was 0·78 kilograms which shows an increase over the last year's figure of 0·76 kgm/kWh.

In diesel power stations, diesel oil consumption increased by 1·08 per cent. The national average oil consumption for the diesel power stations was 0·31 kilograms per kWh.

3·12 THERMAL EFFICIENCY OF STEAM POWER STATIONS

Table XXV shows steam power stations according to their average overall thermal efficiency.

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

Overall Thermal Efficiency	Number of generating stations	Aggregate installed capacity (kW)	kWh generated by the group (Millions)
1	2	3	4
Under 10%	24	115,613	171·997
Above 10% but below 12·5%	13	95,050	230·585
Above 12·5% but below 15·0%	21	624,235	1,845·127
Above 15·0% but below 17·5%	11	304,875	729·725
Above 17·5% but below 20·0%	3	229,070	996·928
Above 20·0% but below 22·5%	3	165,000	694·288
Above 22·5%	8	1,002,500	5,507·213
GRAND TOTAL	83	2,536,343	10,176·863

Out of the total 83 steam stations, 24 stations operated with overall thermal efficiencies below 10 per cent but these stations together had only 4·52 per cent of the total power plant capacity and generated about 1·68 per cent of the total electricity produced by all the steam stations.

Only 11 large stations with aggregate plant capacity of 1,167,500 kW operated at thermal efficiencies above 20 per cent. The highest thermal efficiency registered was 30·5 per cent.

3.13 GENERATING MAXIMUM DEMAND

Tables XXVI and XXVII give the annual generating maximum demand in the Public and private sectors as 3,416,032 and 1,219,017 respectively.

TABLE XXVI—SUMMARY OF AGGREGATE GENERATING MAXIMUM DEMAND

(kW)

Serial No.	Name of State or Union Territory	Government/State Electricity Board	Municipal	Company	Total
1	2	3	4	5	6
1	Andhra Pradesh ..	208,214	..	..	208,214
2	Assam	9,855	..	5,221	15,076
3	Bihar	7,065	..	22,244	29,309
4	Gujarat	101,672	1,507	182,291	285,470
5	Jammu & Kashmir ..	15,000	..	..	15,000
6	Kerala	176,030	..	..	176,030
7	Madhya Pradesh ..	167,274	..	16,610	183,884
8	Madras	551,720	..	..	551,720
9	Maharashtra	302,046	1,476	584,902	888,424
10	Mysore	191,284	..	2,810	194,094
11	Orissa	158,064	..	..	158,064
12	Punjab	478,780	3,610	715	483,105
13	Rajasthan	25,527	97	6,261	61,885
14	Uttar Pradesh ..	410,880	3,823	58,536	473,232
15	West Bengal ..	34,796	3,022	339,365	377,183
16	D.V.C.	502,000	..	..	502,000
17	<i>Union Territories—</i>				
	(a) Delhi .. ..	..	58,430	62	58,492
	(b) Andaman & Nicobar Islands.	437	..	..	437
	(c) Himachal Pradesh.	205	..	..	205
	(d) Manipur	300	..	..	300
	(e) Pondicherry ..	2,000	..	..	2,000
	(f) Tripura	918	..	..	918
	GRAND TOTAL ..	3,344,067	71,965	1,219,017	4,635,049

TABLE XXVII—STATEWISE SUMMARY OF AGGREGATE GENERATING MAXIMUM DEMAND
BY TYPE OF PLANT

(kW)

Serial No.	Name of State or Union Territory	Steam	Oil	Hydro	Total
1	2	3	4	5	6
1	Andhra Pradesh ..	54,750	4,564	148,900	208,214
2	Assam .. ..	..	7,837	7,239	15,076
3	Bihar	17,900	11,409	..	29,309
4	Gujarat	260,610	24,860	..	285,470
5	Jammu & Kashmir ..	..	..	15,000	15,000
6	Kerala .. ..	..	..	176,030	176,030
7	Madhya Pradesh ..	112,450	8,434	63,000	183,884
8	Madras	74,920	..	476,800	551,720
9	Maharashtra ..	384,350	24,774	479,300	888,424
10	Mysore .. ..	..	7,594	186,500	194,094
11	Orissa .. ..	..	1,864	156,200	158,064
12	Punjab	7,780	4,325	471,000	483,105
13	Rajasthan	22,560	9,325	..	31,885
14	Uttar Pradesh ..	221,375	10,164	241,700	473,239
15	West Bengal ..	366,000	3,669	7,514	377,183
16	D.V.C.	391,000	..	111,000	502,000
17	<i>Union Territories—</i>				
	(a) Delhi	58,430	62	..	58,492
	(b) Andaman & Nicobar Islands.	437	..	..	437
	(c) Himachal Pradesh	..	..	205	205
	(d) Manipur ..	..	300	..	300
	(e) Pondicherry ..	2,000	..	..	2,000
	(f) Tripura ..	..	918	..	918
	All India Total ..	1,974,562	120,099	2,540,388	4,635,049

3.14 AVERAGE OUTPUT LOAD FACTOR AND PLANT DEMAND FACTOR OF STEAM, OIL AND HYDR STATIONS.

The hydro stations registered maximum load factor *i. e.* 53.0 per cent but this is lower than the load factor last year *i. e.* 56.4 per cent similar has also been experienced in case of steam station while diesel stations had minimum load factor. Similar is the case with plant demand factor. The all India average annual output per kW of installed capacity went down from 37.70 to 38.69 kWh during the year under review.

TABLE XXVIII—AVERAGE OUT PUT LOAD FACTOR AND DEMAND FACTOR IN 1962-63

Type of Power Plant	Aggregate installed plant capacity of generating plant (kW)	kWh generated (Millions)	Aggregate maximum demand of individual generating stations (kW)	kWh generated per kW of plant capacity	Combined load factor based on Col. (3) and Col. (4) %	Plant demand factor %
1	2	3	4	5	6	7
Steam	2,536,343	10,176.863	1,974,562	4,012	58.9	77.9
Oil	327,152	383.587	120,099	1,172	36.5	36.7
Hydro	2,916,300	11,804.542	2,540,388	4,048	53.0	87.1
GRAND TOTAL ..	5,779,795	22,364.972	4,635,049	3,869	55.1	80.2

SECTION 2

ENERGY SALES

SECTION 2
ENERGY SALES

1. UTILISATION OF ENERGY GENERATED AND PURCHASED DURING THE YEAR 1962-63.

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

TABLE XXIX—TOTAL ENERGY GENERATED, PURCHASED AND SOLD, DURING 1962-63

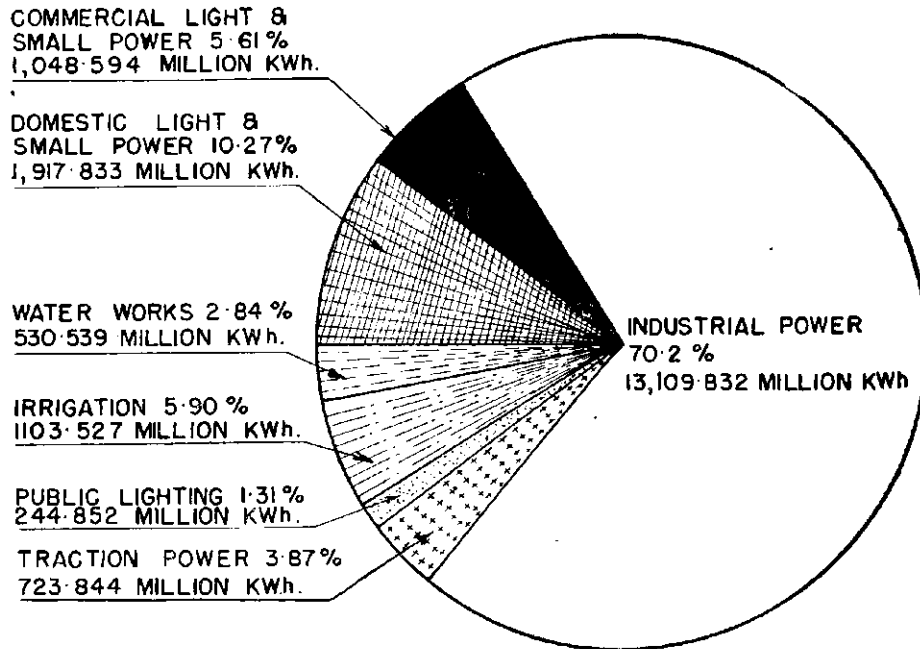
Serial No.	Item	Million kilowatt hours	Percentage of energy available for supply
1	2	3	4
1	kWh generated	22,364·972	97·94
2	kWh purchased from non-electric utilities	471·235	2·06
3	Gross kWh available for supply	22,836·207	100·00
4	kWh used in power auxiliaries	912·564	4·00
5	Net kWh available for supply	21,923·643	96·00
6	Total kWh sold to ultimate consumers	18,679·021	81·80
7	kWh lost in transmission, distribution and un-accounted for	3,244·622	14·20

TABLE XXX—ENERGY SALES BY CLASS OF UTILISATION

Serial No.	Category	kWh sold in 1962-63	Percentage to total sales in 1962-63 %	kWh sold in 1961-62	Net percentage increase over 1961-62 %
1	2	3	4	5	6
1	Domestic light and small power	1,917·833	10·3	1,698·091	12·9
2	Commercial light and small power	1,048·594	5·6	934·092	12·3
3	Industrial power	13,109·832	70·2	11,544·975	13·6
4	Traction	723·844	3·9	584·768	23·8
5	Public lighting	244·852	1·3	215·530	13·6
6	Irrigation & De-Watering	1,103·527	5·9	991·133	11·3
7	Water Works	530·539	2·8	479·706	10·6
	Total ..	18,679·021	100·00	16,448·295	13·6

COMPARATIVE CONSUMPTION OF ELECTRICAL ENERGY BY CLASS OF UTILIZATION.

1962-63



TOTAL CONSUMPTION DURING THE YEAR
18,679.021 MILLION KWh.

10.3 per cent of total energy was sold to domestic consumers for domestic light & small power 5.6 per cent to commercial lighting, heating and small power, 70.2 per cent to industrial power, 3.9 per cent to traction, 1.3 per cent to public lighting, 5.9 to irrigation and 2.8 per cent to water works.

The percentage increase in sales during the year for domestic light and small power, commercial light and small power and the industrial power was 12.9, 12.3 and 13.6 respectively. The net increase in sales for all classes of utilisation was 13.5 per cent over the sales in the previous year.

Table XXXI gives the details of energy generated, purchased and sold in various states.

TABLE XXXI—ELECTRICITY GENERATED AND SOLD IN STATES DURING THE YEAR 1962-63

(Million kWh)

Serial No.	Name of State or Union Territory	kWh generated	kWh Purchased		kWh Consumed for power station auxiliaries	kWh sold to adjoining States	kWh available for sale within the State	kWh sold Direct to Consumers within the State	Lost in transmission and distribution Systems
			From non-Electric Utilities	From the Electric Utilities in the adjoining States					
1	2	3	4	5	6	7	8	9	10
1	Andhra Pradesh ..	1,064.077	..	4.111	25.000	11.723	1,031.465	810.000	221.465
2	Assam ..	46.166	..	..	1.741	..	44.425	38.882	5.543
3	Bihar ..	147.157	1.940	*1,283.223	7.564	6.480	1,418.276	1,279.859	138.417
4	Gujarat ..	1,531.383	0.610	..	105.207	..	1,426.786	1,235.588	191.198
5	Jammu & Kashmir ..	72.215	..	24.300	0.509	..	96.006	79.190	16.816
6	Kerala ..	709.060	..	58.965	17.037	15.424	735.564	612.011	123.553
7	Madhya Pradesh ..	821.481	..	39.856	47.576	64.239	749.522	618.811	130.711
8	Madras ..	2,615.104	225.029	18.090	70.485	107.138	2,680.600	2,108.885	571.715
9	Maharashtra ..	4,026.913	..	..	157.168	39.481	3,830.264	3,425.731	404.533
10	Mysore ..	1,163.454	..	2.984	17.470	..	1,148.968	981.509	167.459
11	Orissa ..	829.993	29.656	6.073	7.076	15.075	843.571	666.000	177.571
12	Punjab ..	2,380.588	..	..	10.811	347.069	2,022.708	1,723.517	299.191
13	Rajasthan ..	105.591	..	103.498	7.124	..	201.965	164.230	37.735
14	Uttar Pradesh ..	1,864.438	..	..	89.494	69.400	1,705.544	1,378.501	327.043
15	West Bengal ..	2,108.685	..	†1,331.408	129.946	1.600	3,308.547	3,043.116	265.431
16	D.V.C. ..	2,822.376	214.000	84.100	192.557	2,603.551	121.368	..	121.368
17	Union Territories—								
	(a) Delhi ..	248.829	..	277.216	25.286	..	500.759	462.089	38.670
	(b) Andamans & Nicobar Islands	1.795	..	..	0.247	..	1.548	1.370	0.178
	(c) Himachal Pradesh	0.690	..	6.294	0.023	..	6.961	6.094	0.867
	(d) Manipur ..	1.441	..	..	0.030	..	1.411	1.253	0.158
	(e) Pondicherry ..	0.877	..	44.062	0.165	..	44.774	40.034	4.740
	(f) Tripura ..	2.659	..	..	0.048	..	2.611	2.351	0.260
	GRAND TOTAL ..	22,364.972	471.235	3,284.180	912.564	3,284.180	21,823.643	18,679.021	3,244.622

*1,281.623 kWh purchased from D.V.C. & 1.600 kWh from Massanore in West Bengal.

†1,324.928 kWh purchased from D.V.C. & 6.480 kWh from Bihar State Electricity Board.

The total kWh purchased from non-electric utilities aggregated 471·235 million kWh and represented Table XXXII gives the details of energy generated, purchased and sold by various State Electricity Boards.

TABLE XXXII—AUXILIARIES TRANSMISSION & DISTRIBUTION LINE LOSSES IN THE STATE ELECTRIC

Serial No.	Name of Government/State Electricity Board Department	kWh generated	kWh purchased		
			From non-Electric Utilities	From Electric Utilities	
				With in the State	In adjoining States
1	2	3	4	5	6
1	Andhra Pradesh	1,064·077	..	..	4·111
2	Assam	34·059	..	..	..
3	Bihar	33·927	0·170	645·600	1·600
4	Gujarat	525·873	0·610	188·290	..
5	Jammu & Kashmir	72·215	..	..	24·300
6	Kerala	709·060	..	..	37·698
7	Madhya Pradesh	734·495	..	15·020	37·786
8	Madras	2,615·104	225·029	..	18·090
9	Maharashtra	1,177·039	..	49·900	..
10	Mysore	1,152·758	..	..	2·984
11	Orissa	829·993	29·656	..	6·073
12	Punjab	2,367·817	..	..	..
13	Rajasthan	75·635	..	..	103·498
14	Uttar Pradesh	1,577·892	..	..	..
15	West Bengal	179·788	..	200·600	6·480
16	D.V.C.	2,622·376	214·000	..	84·100
17	(a) Delhi	248·687	..	..	277·216
	(b) Andaman and Nicobar Islands	1·795	..	..	..
	(c) Himachal Pradesh	0·690	..	..	6·294
	(d) Manipur	1·441	..	..	..
	(e) Pondicherry	0·877	..	..	44·062
	(f) Tripura	2·659	..	..	..
	Total	16,028·257	469·465	1,099·410	654·292

about 2.0 per cent of the total energy produced by the public electric utility undertakings.
Boards.

CITY BOARD/GOVERNMENT DEPARTMENT AND UNION TERRITORIES FOR THE YEAR 1962-63

(Million kWh)

kWh used in power station auxiliaries	Percentage of kWh used in power station auxiliaries on Col. (3) %	kWh sent out	kWh sold			Total	kWh lost in transmission and un-accounted for	kWh lost in transmission as percentage total and kWh sent out %
			Within the state outside board area	In adjoining states	Within the area of the board/ union territories			
7	8	9	10	11	12	13	14	15
25.000	2.35	1,043.188	..	11.723	810.000	821.723	221.465	21.23
1.272	3.73	32.787	..	..	28.086	28.086	4.701	14.34
2.500	7.37	678.797	62.570	6.480	531.453	600.503	78.294	11.58
48.636	9.25	666.137	163.760	..	383.520	547.280	118.857	17.84
0.509	0.70	96.006	..	..	79.190	79.190	16.816	17.52
17.000	2.40	729.758	22.887	15.424	566.218	604.529	125.229	17.16
43.357	5.89	743.944	9.500	64.239	552.567	626.306	117.638	15.81
70.280	2.69	2,787.943	244.854	107.138	1,872.362	2,224.354	563.589	20.21
49.920	4.24	1,177.019	636.850	39.481	362.472	1,038.803	138.216	11.74
17.000	1.47	1,138.742	9.832	..	964.000	973.832	164.910	14.48
7.076	0.85	858.646	..	15.075	666.000	681.075	177.571	20.68
9.636	0.41	2,358.181	53.263	347.069	1,648.893	2,049.225	308.956	13.10
6.000	7.93	173.133	0.935	..	139.338	140.273	32.860	18.92
44.983	2.85	1,532.909	175.521	69.400	944.182	1,189.103	343.806	22.43
11.658	6.48	375.210	26.974	1.600	278.000	306.574	68.636	18.29
192.557	7.34	2,727.919	..	2,606.551	..	2,606.551	121.368	4.45
18.268	7.35	507.635	..	..	462.089	462.089	45.546	8.97
0.247	13.76	1.548	..	..	1.370	1.370	0.178	11.50
0.023	3.33	6.961	..	..	6.094	6.094	0.867	12.46
0.030	2.08	1.411	..	..	1.253	1.253	0.158	11.20
0.157	17.90	44.782	..	..	38.389	38.389	6.393	14.28
0.048	1.81	2.611	..	..	2.351	2.351	0.260	9.96
566.157	3.53	17,685.267	1,406.946	3,284.180	10,337.827	15,028.953	2,656.314	15.02

Table XXXIII gives the segregation of ultimate
TABLE XXXIII—SEGREGATION OF ENERGY

Serial No.	Name of State or Union Territory	Total sold to ultimate consumers	Domestic heat and small power	Domestic light and fans	Commercial heat and small power
1	2	3	4	5	6
1	Andhra Pradesh	810·000	20·000	75·000	17·000
2	Assam	38·882	1·239	11·822	0·793
3	Bihar	1,279·859	6·534	52·172	7·764
4	Gujarat	1,235·588	21·666	70·580	11·394
5	Jammu & Kashmir	79·190	2·500	35·190	1·000
6	Kerala	612·011	8·814	59·546	1·886
7	Madhya Pradesh	618·811	6·194	47·593	5·854
8	Madras	2,108·885	43·639	150·844	65·973
9	Maharashtra	3,425·731	117·862	214·433	58·100
10	Mysore	981·509	20·802	64·761	4·379
11	Orissa	666·000	4·000	30·000	4·000
12	Punjab	1,723·517	28·131	81·712	20·296
13	Rajasthan	164·230	3·333	30·695	7·407
14	Uttar Pradesh	1,378·501	25·442	139·350	24·218
15	West Bengal	3,043·116	89·863	323·724	29·525
16	<i>Union Territories—</i>				
	(a) Delhi	462·089	23·332	100·254	13·026
	(b) Andaman and Nicobar Islands	1·370	0·003	0·535	..
	(c) Himachal Pradesh	6·094	..	1·436	..
	(d) Manipur	1·253	0·019	0·907	0·037
	(e) Pondicherry	40·034	0·165	1·979	0·511
	(f) Tripura	2·351	..	1·712	0·178
	Total	18,679·021	423·588	1,494·245	273·341

sales of energy in the different States.
SALES IN STATES FOR THE YEAR 1962-63

(Million kWh)

Commercial light and fans	Industrial power at low and medium voltage	Industrial power at high voltage	Public lighting	Electric traction	Irrigation and de-watering	Public water works and sewage pumping	kWh generated
7	8	9	10	11	12	13	14
23·000	75·000	470·000	20·000	..	90·000	20·000	1,064·077
3·564	9·430	8·892	2·454	..	0·009	0·629	46·166
32·843	76·453	927·385	4·725	130·835	19·998	21·150	1,759·472
23·594	141·009	855·813	16·838	..	48·337	46·357	1,531·383
1·500	22·000	9·000	1·500	..	1·500	5·000	72·215
2·960	61·959	441·334	9·264	..	18·344	7·904	709·060
26·055	61·407	423·782	14·446	..	5·490	27·990	821·481
103·427	200·900	947·903	39·830	15·546	522·750	18·073	2,615·104
178·829	454·742	1,941·174	25·244	389·259	17·802	28·286	4,026·913
20·985	95·149	664·083	20·141	..	31·073	60·136	1,163·454
12·000	40·000	560·000	3·000	..	3·000	10·000	829·993
63·874	233·301	1,164·981	8·984	..	111·353	10·885	2,380·588
22·332	31·912	17·245	6·893	..	9·518	34·895	105·591
79·510	229·009	529·748	30·004	33·900	201·331	86·889	1,864·438
100·600	186·344	2,035·360	25·689	153·704	3·000	95·307	3,118·746
76·152	82·902	86·650	14·164	1·500	8·012	56·097	248·829
0·085	0·607	..	0·050	..	..	0·090	1·795
1·805	2·241	..	0·459	..	0·035	0·118	0·690
0·026	0·142	..	0·028	..	0·088	0·006	1·441
2·107	2·184	19·398	1·076	..	11·887	0·727	0·877
0·005	0·393	..	0·063	..	..	..	2·659
775·253	2,007·084	11,102·748	244·852	723·844	1,103·527	530·539	22,364·972

2. PER CAPITA CONSUMPTION OF ELECTRICITY

The average per capita consumption of electricity for the Indian Union was 48.48 kWh as against 43.54 for the year 1961-62.

Table XXXIV gives the annual per capita consumption of electricity in the public utilities under five classes of utilisation in the various states based on the estimated population figures as on 1st April, 1963. The table also gives the per capita consumption met by self-generating industrial establishments. The rate of proportionate growth of population in each State is assumed to be the same as it was during the last decade. The increase of per capita consumption from the year 1951 is shown as under :—

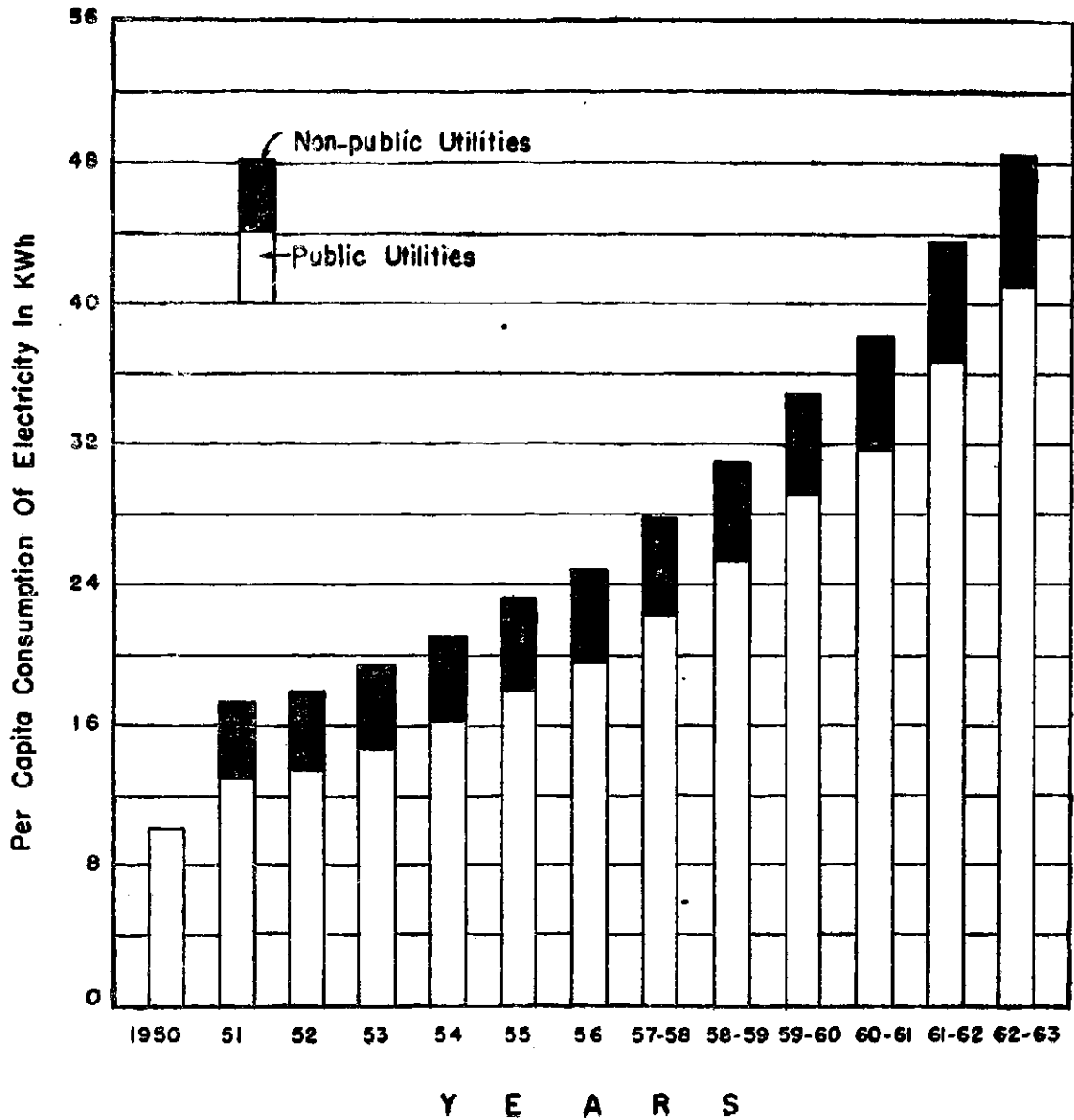
Year	Per capita consumption		Total
	Public Utilities	Non-Utilities (Industrial Establishment)	
1962-63	41.03	7.45	48.48
1961-62	36.76	6.78	43.54
1960-61	31.85	6.30	38.15
1956	20.70	5.70	26.40
1951	13.25	4.53	17.78

The Delhi State, because of its predominant urban character, showed the highest overall per capita consumption of electricity of 194.00 kWh. Next to Delhi State, West Bengal, Maharashtra, Punjab, Madras, Gujarat, Orissa, Bihar, Mysore, and Kerala States followed in the order of magnitude.

TABLE XXXIV—ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY IN 1962-63

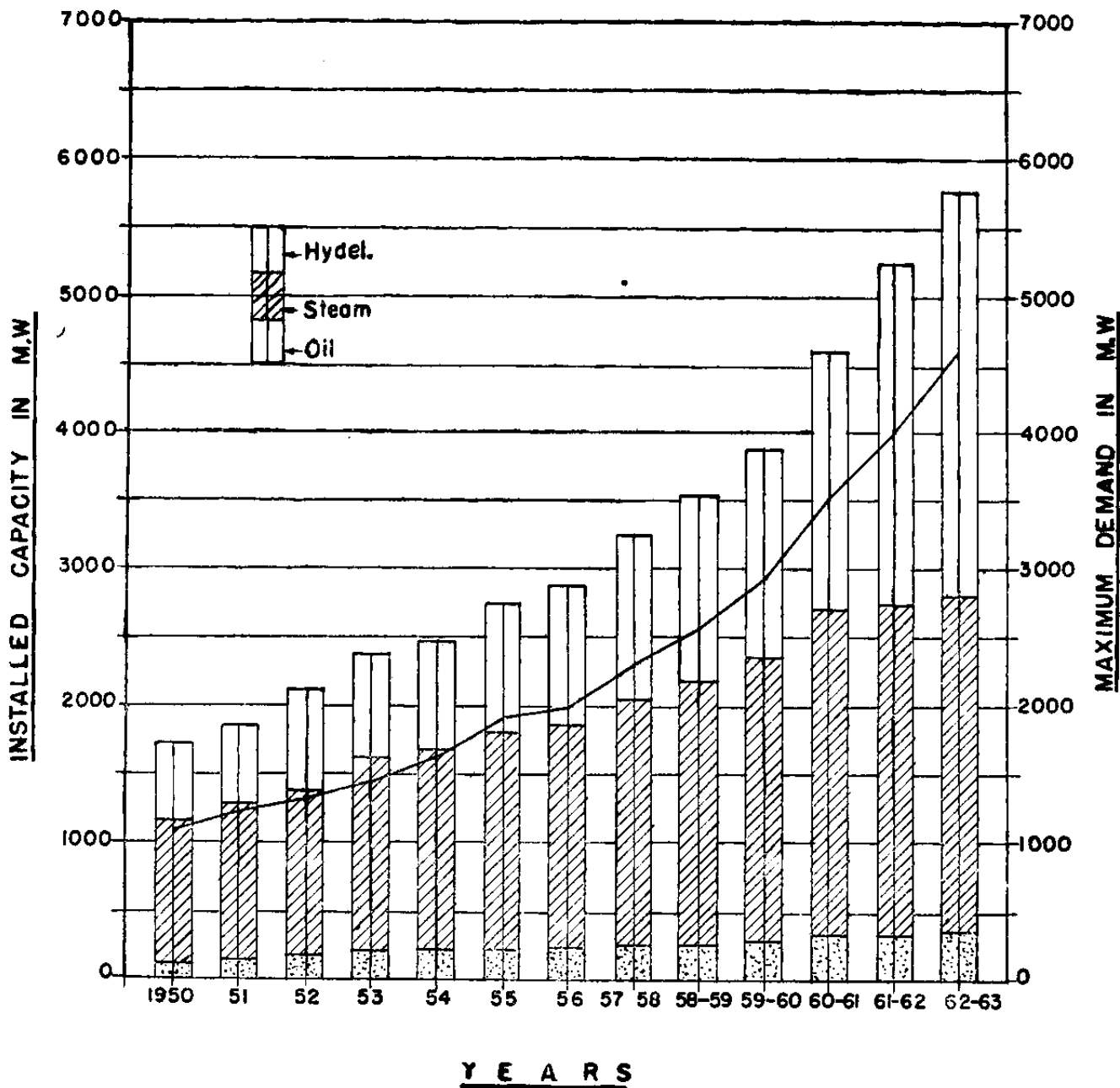
Serial No.	Name of State or Union Territory	Population (Million)	PUBLIC UTILITIES					Non-utilities per capita kWh	Total per capita kWh column (b) + eol. (10)	
			Domestic light and small power per capita kWh	Commercial light and small power per capita kWh	Industrial including traction & water works per capita kWh	Public lighting per capita kWh	Irrigation per capita consumption kWh			Total per capita consumption kWh
1	2	3	4	5	6	7	8	9	10	11
1	Andhra Pradesh	37.04	2.57	1.08	15.25	0.54	2.43	21.87	3.45	25.32
2	Assam	12.59	1.04	0.35	1.51	0.19	..	3.09	1.31	4.40
3	Bihar	48.17	1.22	0.84	23.99	0.10	0.42	26.57	22.61	49.18
4	Gujarat	21.64	4.26	1.62	48.22	0.77	2.23	57.10	4.85	61.95
5	Jammu & Kashmir	3.60	10.40	0.69	9.93	0.41	0.41	21.84	..	21.84
6	Kerala	17.66	3.88	0.27	28.95	0.52	1.04	34.66	0.18	34.84
7	Madhya Pradesh	33.80	1.59	0.94	15.18	0.43	0.16	18.30	8.11	26.41
8	Madras	34.45	5.65	4.92	34.32	1.16	15.17	61.22	2.20	63.42
9	Maharashtra	41.26	8.05	5.74	68.19	0.61	0.43	83.02	4.27	87.29
10	Mysore	24.53	3.49	1.03	33.40	0.82	1.27	40.01	4.10	44.11
11	Orissa	18.20	1.87	0.88	33.52	0.16	0.16	36.59	20.60	57.19
12	Punjab	21.26	5.17	3.96	66.28	0.42	5.24	81.07	3.59	84.66
13	Rajasthan	21.12	1.61	1.41	3.98	0.33	0.45	7.78	6.82	14.60
14	Uttar Pradesh	76.07	2.17	1.36	11.55	0.39	2.66	18.12	1.25	19.37
15	West Bengal	36.97	11.19	3.62	66.83	0.60	0.08	82.31	17.18	99.49
16	Union Territories—									
	(a) Delhi	2.89	42.72	30.82	78.53	4.89	2.77	159.73	34.27	194.00
	(b) Andamans & Nicobar Islands	0.07	7.37	1.16	9.55	0.68	..	18.78	..	18.78
	(c) Himachal Pradesh	1.40	1.02	1.29	1.68	0.33	0.02	4.34	..	4.34
	(d) Manipur	0.83	1.12	0.07	0.02	0.03	0.11	1.51	..	1.51
	(e) Pondicherry	0.38	5.64	6.87	58.65	2.83	31.25	105.24	0.17	106.41
	(f) Tripura	1.28	1.34	0.14	0.31	0.04	..	1.83	..	1.83
	ALL INDIA TOTAL	455.24	4.21	2.30	31.55	0.55	2.42	41.03	7.45	48.48

PER CAPITA CONSUMPTION OF ELECTRICITY



PROGRESS OF ELECTRICITY SUPPLY IN THE COUNTRY

INSTALLED CAPACITY & MAXIMUM DEMAND.



3. PROGRESS OF ELECTRICITY SUPPLY INDUSTRY

The progress of electricity supply in the country as a whole and in each of the States is indicated in Tables XXXV (1) to XXXV (18).

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

Year	Installed capacity in kW of generating plant to the end of the year				Aggregate of M.D. on individual systems during the year (kW)	kWh generated (Million)	kWh generated per kW of average capacity	kWh sold (Million)	Average load factor based on columns (6) and (7) %	Average plant demand factor based on columns (5) and (6) %
	Steam	Oil	Hydro	Total						
1	2	3	4	5	6	7	8	9	10	11
1939	540,760	80,790	442,169	1,069,719	575,801	2,442·415	2,283	2,034·636	48·42	53·8
1947	757,457	97,879	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	4,575·406	3,243	3,721·464	54·08	68·4
1949	852,639	125,468	559,079	1,537,186	1,008,000	4,909·289	3,194	4,004·716	55·60	65·6
1950	1,004,434	148,796	559,285	1,712,515	1,098,314	5,106·700	2,981	4,156·657	53·08	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	170,179	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	58·54	75·7
1960-61	2,436,255	300,135	1,916,661	4,653,051	3,545,930	16,937·012	3,681	13,952·716	54·53	76·2
1961-62	2,471,019	328,697	2,419,100	5,218,816	3,971,206	19,669·945	3,912	16,448·295	56·54	76·3
1962-63	2,536,343	327,152	2,916,300	5,779,795	4,635,049	22,364·972	3,869	18,679·021	55·08	80·2

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

Item	1951	1956	1960-61	1961-62	1962-63
Installed capacity (kW)					
Steam	46,000	46,000	83,500	85,450	85,450
Oil	13,164	19,876	20,188	7,165	8,195
Hydro .. .. .	..	66,000	166,150	165,825	165,825
TOTAL ..	59,164	131,876	269,838	258,440	259,470
Out-put (million kWh)					
Steam	89·612	60·177	145·836	207·679	196·518
Oil	14·328	9·661	5·450	7·752	8·021
Hydro .. .. .	..	169·364	748·743	866·112	859·538
TOTAL ..	103·940	239·202	900·029	1,081·543	1,064·077
Sales (Million kWh) within the state					
Domestic light and small power ..	20·946	32·666	70·815	78·530	95·000
Commercial light and small power ..	18·657	33·810	30·321	34·095	40·000
Industrial power	44·297	88·641	393·331	493·327	545·000
Public Lighting	5·878	9·032	14·863	15·772	20·000
Traction .. .. .	..	..	..	..	..
Irrigation and de-watering	4·905	10·458	54·827	63·450	90·000
Water works	3·493	6·410	7·399	13·448	20·000
TOTAL ..	98·176	181·017	571·556	698·622	810·000

TABLE XXXV—(3) ASSAM PROGRESS OF ELECTRICITY SUPPLY

Item	1951	1956	1960-61	1961-62	1962-63
Installed capacity (kW)					
Steam	200	622	..	..	..
Oil	2,593	4,108	10,160	17,047	16,723
Hydro	550	550	9,270	9,940	9,940
Total ..	3,343	5,280	19,430	26,987	26,663
Out-put (million kWh)					
Steam	0.001	..	..	..	..
Oil	4.469	8.372	15.336	15.981	19.970
Hydro	2.130	2.897	20.883	27.504	26.196
Total ..	6.600	11.269	36.219	43.485	46.166
Sales (Million kWh) within the state					
Domestic light and small power ..	2.080	3.331	9.897	8.346	13.111
Commercial light and small power ..	2.060	3.689	4.212	8.459	4.357
Industrial power	0.772	1.383	11.827	14.765	18.322
Public lighting	0.614	0.740	2.699	2.404	2.454
Traction .. .. .	..	..	..	..	..
Irrigation and de-watering .. .. .	..	..	..	..	..
Water works	0.069	0.143	0.463	0.591	0.009
Total ..	5.595	9.286	29.098	34.565	38.882

TABLE XXXV (4)—BIHAR PROGRESS OF ELECTRICITY SUPPLY

Item	1951	1956	1960-61	1961-62	1962-63
Installed capacity (kW)					
Steam	39,510	185,045	288,520	288,900	285,770
Oil	7,486	15,396	18,373	21,799	19,371
Hydro .. .. .	..	4,000	44,000	44,000	44,000
Total ..	46,996	204,441	350,893	354,699	349,141
Out-put (million kWh)					
Steam	118.870	580.118	1,408.554	1,301.349	1,562.036
Oil	13.162	20.964	44.624	49.203	51.719
Hydro .. .. .	..	2.153	143.655	169.489	145.717
Total ..	132.032	603.235	1,596.833	1,520.041	1,759.472
Sales (Million kWh) within the state					
Domestic light and small power ..	14.820	27.138	44.312	47.492	58.706
Commercial light and small power ..	6.062	13.296	29.830	25.473	40.607
Industrial power	87.847	298.543	776.395	801.892	1,003.838
Public lighting	1.098	1.937	3.647	3.984	4.725
Traction .. .. .	..	..	4.528	61.598	130.835
Irrigation and de-watering	4.599	4.272	18.255	18.462	19.998
Water works	4.167	8.126	12.238	12.791	21.150
Total ..	118.593	353.312	889.205	971.692	1,279.859

TABLE XXXV (5) Gujarat PROGRESS OF ELECTRICITY SUPPLY

Item	1951	1956	1960-61	1961-62	1962-63
Installed capacity (kW)					
Steam	108,930	183,600	280,900	310,900	310,600
Oil	32,948	40,605	52,786	52,786	57,459
Hydro .. .. .	..	..	..	..	..
Total ..	141,878	224,205	333,267	363,686	368,059
Out-put (million kWh)					
Steam	316·405	739·372	1,209·144	1,308·621	1,464·236
Oil	57·244	51·577	62·083	57·872	67·147
Hydro .. .. .	..	..	..	..	..
Total ..	373·649	790·949	1,271·227	1,366·493	1,531·383
Sales (Million kWh) within the state					
Domestic light and small power ..	30·901	46·726	71·573	80·059	92·246
Commercial light and small power ..	12·328	14·936	31·660	32·890	34·988
Industrial power	266·694	590·402	805·961	927·825	996·822
Public lighting	5·889	8·980	15·274	16·208	16·838
Traction .. .. .	..	..	..	..	..
Irrigation and de-watering	1·326	6·060	19·610	42·384	48·337
Water works	12·083	26·746	39·560	42·180	46·357
Total ..	329·221	693·850	983·638	1,141·546	1,235·588

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

Item	1951	1956	1960-61	1961-62	1962-63
Installed capacity (kW)					
Steam	1,500	1,500	1,500	1,500	1,500
Oil	465	769	869	1,399	1,436
Hydro	4,514	10,606	10,612	19,612	28,612
Total ..	6,479	12,875	12,981	22,511	31,548
Out-put (million kWh)					
Steam	1·774	..	..	..	..
Oil	0·261	0·075	0·025	0·025	0·025
Hydro	23·479	23·896	43·489	72·190	72·190
Total ..	25·514	23·971	43·514	72·215	72·215
Sales (Million kWh) within the state					
Domestic light and small power ..	7·660	8·864	22·500	37·690	37·690
Commercial light and small power ..	0·811	0·176	1·000	2·500	2·500
Industrial power	6·318	6·424	22·000	31·000	31·000
Public lighting	0·552	0·566	1·300	1·500	1·500
Traction .. .. .	..	..	..	..	..
Irrigation and de-watering	0·424	0·302	0·700	1·500	1·500
Water works	1·610	2·086	3·500	5·000	5·000
Total ..	17·375	18·418	51·000	79·190	79·190

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TABLE XXXV (7)—KERALA PROGRESS OF ELECTRICITY SUPPLY

Item	1951	1956	1960-61	1961-62	1962-63
Installed capacity (kW)					
Steam .. .. .	..	..	..	..	..
Oil	4,170	4,277	4,762	3,815	3,815
Hydro	28,500	85,500	132,500	147,500	147,500
Total ..	32,670	89,777	137,262	151,315	151,315
Out-put (million kWh)					
Steam .. .. .	..	..	..	..	..
Oil	1,460	0,132	..	..	..
Hydro	152,179	349,599	581,818	694,020	709,060
Total ..	153,639	349,731	581,818	694,020	709,060
Sales (Million kWh) within the state					
Domestic light and small power ..	13,748	22,800	51,073	60,193	68,360
Commercial light and small power ..	2,697	2,291	3,851	4,474	4,846
Industrial power	140,939	223,592	396,407	507,142	503,293
Public lighting	1,604	2,722	8,358	8,767	9,264
Traction .. .. .	..	..	..	..	..
Irrigation and de-watering	6,170	10,721	18,287	18,196	18,344
Water works	3,292	7,001	7,844	7,608	7,904
Total ..	168,450	269,217	485,820	606,380	612,011

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

Item	1951	1956	1960-61	1961-62	1962-63
Installed capacity (kW)					
Steam	27,308	66,322	169,798	168,532	166,288
Oil	11,979	15,984	28,739	34,691	29,800
Hydro .. .. .	..	..	69,000	69,000	69,000
Total ..	39,287	82,306	267,537	271,623	265,088
Out-put (million kWh)					
Steam	57,354	150,070	429,677	518,948	531,747
Oil	15,953	19,271	24,049	26,371	26,683
Hydro .. .. .	..	..	23,240	136,725	263,051
Total ..	73,307	169,341	476,966	682,044	821,481
Sales (Million kWh) within the state					
Domestic light and small power ..	14,845	25,206	45,397	55,367	53,787
Commercial light and small power ..	7,470	13,525	20,790	23,974	31,909
Industrial power	23,094	77,280	301,267	459,030	485,189
Public lighting	2,183	4,801	9,113	10,881	14,446
Traction .. .. .	..	..	..	..	..
Irrigation and de-watering	0,188	0,698	3,890	3,537	5,490
Water works	10,321	18,486	25,243	28,335	27,990
Total ..	58,101	139,996	405,700	581,124	618,811

TABLE XXXV(9)—MADRAS PROGRESS OF ELECTRICITY SUPPLY

Item	1951	1956	1960-61	1961-62	1962-63
Installed capacity (kW)					
Steam	52,000	84,000	101,500	101,500	101,500
Oil	516	516	516	516	516
Hydro	101,950	165,150	415,450	455,250	455,250
Total ..	154,466	249,666	517,466	557,266	557,266
Out-put (million kWh)					
Steam	140·189	281·718	416·171	405·990	455·174
Oil	0·195			0·255	
Hydro	579·173	802·619	1,797·545	2,122·316	2,159·930
Total ..	719·557	1,084·337	2,213·716	2,528·561	2,615·104
Sales (Million kWh) within the state					
Domestic light and small power ..	59·340	108·915	152·890	162·777	194·483
Commercial light and small power ..	54·693	90·398	156·712	173·243	169·400
Industrial power	324·291	449·368	909·791	1,047·861	1,148·803
Public Lighting	14·178	20·774	33·920	37·639	39·830
Traction	15·749	12·628	15·000	38·901	15·546
Irrigation and de-watering	69·636	138·300	382·403	440·654	522·750
Water works	8·625	10·319	14·427	28·171	18·073
Total ..	546·512	830·702	1,665·143	1,929·246	2,108·885

TABLE XXXV (10)—MAHARASHTRA PROGRESS OF ELECTRICITY SUPPLY

Item	1951	1956	1960-61	1961-62	1962-63
Installed capacity (kW)					
Steam	64,954	225,110	443,250	443,250	443,250
Oil	21,122	27,917	34,363	45,586	46,517
Hydro	253,114	279,914	281,914	283,114	525,114
Total ..	339,190	532,941	759,527	771,950	1,014,881
Out-put (million kWh)					
Steam	280·038	742·343	1,834·760	2,028·613	1,896·590
Oil	32·203	38·879	68·171	74·758	78·504
Hydro	1,229·024	1,467·483	1,364·946	1,534·775	2,051·819
Total ..	1,541·265	2,248·705	3,267·877	3,638·146	4,026·913
Sales (Million kWh) within the state					
Domestic light and small power ..	107·964	165·574	259·901	296·712	332·295
Commercial light and small power ..	86·133	131·301	198·230	216·925	236·929
Industrial power	815·801	1,234·899	1,852·666	2,148·432	2,395·916
Public lighting	7·129	14·503	19·883	22·823	25·244
Traction	270·946	344·463	338·927	366·625	389·259
Irrigation and de-watering	2·748	5·129	14·759	13·978	17·802
Water works	23·346	31·366	35·157	29·751	28·286
Total ..	1,314·067	1,927·235	2,719·523	3,095·246	3,425·731

TABLE XXXV (11)—MYSORE PROGRESS OF ELECTRICITY SUPPLY

Item	1951	1956	1960-61	1961-62	1962-63
Installed capacity (kW)					
Steam	0,057	..	..	..	..
Oil	7,681	12,264	12,876	13,808	13,611
Hydro	107,200	178,200	178,200	187,200	198,200
Total ..	114,938	190,464	191,076	201,008	211,811
Out-put (million kWh)					
Steam .. .. .	..	..	..	..	..
Oil	13·159	16·449	19·242	21·848	23·547
Hydro	525·343	809·725	1,038·756	1,079·556	1,139·907
Total ..	538·502	826·174	1,057·998	1,101·404	1,163·454
Sales (Million kWh) within the state					
Domestic light and small power ..	31·987	55·489	75·243	85·687	85·563
Commercial light and small power ..	8·734	17·785	21·299	24·707	25·364
Industrial power	292·174	486·229	731·889	758·756	759·232
Public lighting	7·140	13·838	18·880	20·144	20·141
Traction .. .. .	..	..	..	..	..
Irrigation and de-watering	6·967	16·465	28·714	30·068	31·073
Water works	37·034	42·574	58·915	60·000	60·136
Total ..	384·036	632·380	934·940	979·362	981·509

TABLE XXXV (12)—ORISSA PROGRESS OF ELECTRICITY SUPPLY

Item	1951	1956	1960-61	1961-62	1962-63
Installed capacity (kW)					
Steam	776	5,776	5,776	5,776	5,000
Oil	4,079	3,991	7,468	8,614	12,460
Hydro	5	24,005	123,005	23,005	208,500
Total ..	4,860	33,772	136,249	137,395	225,960
Out-put (million kWh)					
Steam	2·133	17·617	..	..	..
Oil	4·665	3·517	5·901	3·064	2·831
Hydro	0·013	0·011	483·738	594·961	827·162
Total ..	6·811	21·145	489·639	598·025	829·993
Sales (Million kWh) within the state					
Domestic light and small power ..	2·256	4·023	18·300	30·149	34·000
Commercial light and small power ..	1·408	1·938	7·870	15·077	16·000
Industrial power	1·117	7·578	457·465	500·611	600·000
Public lighting	0·243	0·614	1·487	2·240	3·000
Traction .. .. .	..	..	..	..	..
Irrigation and de-watering .. .. .	..	..	0·752	1·580	3·000
Water works	0·101	1·049	2·297	5·012	10·000
Total ..	5·125	15·202	488·171	554·669	666·000

TABLE XXXV (13)—PUNJAB PROGRESS OF ELECTRICITY SUPPLY

Item	1951	1956	1960-61	1961-62	1962-63
Installed capacity (kW)					
Steam	2,376	7,826	7,876	12,326	10,700
Oil	18,245	20,647	16,725	16,970	14,314
Hydro	49,990	145,990	326,476	654,570	654,956
Total ..	70,611	174,463	351,077	683,866	679,970
Out-put (million kWh)					
Steam	2·881	6·769	6·658	7·137	7·243
Oil	19·882	8·359	8·093	3·906	2·453
Hydro	184·420	425·697	988·887	1,850·758	2,370·892
Total ..	207·183	440·825	1,003·638	1,861·801	2,380·588
Sales (Million kWh) within the state					
Domestic light and small power ..	24·898	40·840	69·867	79·844	109·843
Commercial light and small power ..	12·006	34·819	61·397	71·287	84·170
Industrial power	56·128	153·632	355·974	1,101·134	1,398·282
Public lighting	2·443	5·755	9·092	12·520	8·984
Traction .. .. .	..	..	..	..	..
Irrigation and de-watering	0·490	22·655	74·848	99·690	111·353
Water works	6·589	8·729	9·121	10·512	10·885
Total ..	102·554	266·430	580·299	1,374·987	1,723·517

TABLE XXXV (14)—RAJASTHAN PROGRESS OF ELECTRICITY SUPPLY

Item	1951	1956	1960-61	1961-62	1962-63
Installed capacity (kW)					
Steam	17,265	24,000	46,250	46,250	46,250
Oil	13,675	19,787	24,425	26,211	27,466
Hydro .. .. .	..	..	..	..	..
Total ..	30,940	43,787	70,675	72,461	73,716
Out-put (million kWh)					
Steam	42·716	61·279	70·411	102·860	63·122
Oil	21·552	29·030	37·991	39·394	42·469
Hydro .. .. .	..	..	..	..	..
Total ..	64·268	90·309	108·402	142·254	105·591
Sales (Million kWh) within the state—					
Domestic light and small power ..	10·834	12·325	20·734	31·241	34·028
Commercial light and small power ..	5·833	11·115	15·858	23·457	29·739
Industrial power	14·198	21·890	33·580	39·263	49·157
Public lighting	1·969	2·987	5·200	5·641	6·893
Traction .. .. .	..	..	..	..	..
Irrigation and de-watering	1·664	1·845	3·621	9·378	9·518
Water works	12·923	14·459	19·537	28·271	34·895
Total ..	47·421	64·621	98·530	137·251	164·230

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

Item	1951	1956	1960-61	1961-62	1962-63
Installed capacity (kW)					
Steam	161,090	179,860	270,810	270,910	342,285
Oil	12,883	32,490	34,164	42,901	41,342
Hydro	26,220	96,390	92,470	192,470	341,970
Total ..	200,193	308,740	397,444	506,281	725,597
Out-put (million kWh)					
Steam	398·271	490·829	786·262	823·102	837·231
Oil	14·181	20·343	26·092	27·064	22·765
Hydro	157·320	232·309	439·967	512·564	1,004·442
Total ..	569·772	743·481	1,252·321	1,362·730	1,864·438
Sales (Million kWh) within the state					
Domestic light and small power ..	49·587	71·510	122·718	146·173	164·792
Commercial light and small power ..	40·451	59·317	74·736	76·499	103·728
Industrial power	230·991	314·181	503·928	567·752	758·757
Public lighting	6·246	8·384	13·848	14·284	30·004
Traction .. .. .	..	..	..	..	33·000
Irrigation and de-watering	98·230	90·441	199·992	229·878	201·331
Water works	32·434	42·145	60·481	63·543	86·889
Total ..	457·939	585·978	975·703	1,098·129	1,378·501

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

Item	1951	1956	1960-61	1961-62	1962-63
Installed capacity (kW)					
Steam	539,901	528,351	676,975	676,125	676,150
Oil	3,513	5,612	9,473	9,520	8,552
Hydro	2,760	4,760	67,208	67,208	67,208
Total ..	546,174	538,723	753,656	752,853	751,910
Out-put (million kWh)					
Steam	1,196·902	1,765·624	2,150·169	2,501·918	2,934·454
Oil	4·443	4·632	8·684	8·797	10·339
Hydro	5·929	8·335	159·886	152·744	173·953
Total ..	1,207·274	1,778·591	2,318·739	2,663·459	3,118·746
Sales (Million kWh) within the state					
Domestic light and small power ..	180·831	253·402	353·517	383·201	413·587
Commercial light and small power ..	37·550	79·275	115·786	120·320	130·125
Industrial power	731·949	1,291·502	1,808·128	1,971·221	2,221·704
Public lighting	8·346	15·112	23·395	27·196	25·689
Traction	42·899	47·487	95·297	117·144	153·704
Irrigation and de-watering .. .. .	..	2·170	0·650	3·555	3·000
Water works	32·564	65·594	95·993	93·676	95·307
Total ..	1,034·139	1,754·542	2,492·766	2,716·313	3,043·116

TABLE XXXV (17)—DELHI PROGRESS OF ELECTRICITY SUPPLY

Item	1951	1956	1960-61	1961-62	1962-63
Installed capacity (kW)					
Steam	35,150	52,400	53,600	53,600	55,600
Oil	7,436	2,791	22,703	23,705	22,715
Hydro .. .. .	..	..	..	..	..
Total ..	42,586	55,191	76,303	77,305	78,315
Out-put (million kWh)					
Steam	131·881	231·676	271·406	267·322	225·936
Oil	5·400	0·541	39·350	41·381	22·893
Hydro .. .. .	..	..	..	..	..
Total ..	137·281	232·217	310·756	308·703	248·829
Sales (Million kWh) within the state					
Domestic light and small power ..	24·250	52·462	97·101	109·188	123·586
Commercial light and small power ..	33·003	57·629	72·892	77·573	89·178
Industrial power	32·406	74·306	153·892	153·206	169·552
Public lighting	2·637	6·491	10·937	12·005	14·164
Traction .. .. .	..	0·347	0·171	0·500	1·500
Irrigation and de-watering	5·730	4·928	5·007	6·010	8·012
Water works	21·420	31·592	43·185	50·100	56·097
Total ..	119·446	227·755	383·185	408·582	462·089

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

Item	1951	1956	1960-61	1961-62	1962-63
Installed capacity (kW)					
Steam	550	6,000	6,000	6,000	6,000
Oil	725	1,258	1,964	2,764	2,860
Hydro	376	376	406	406	225
Total ..	1,651	7,634	8,370	9,170	9,085
Out-put (million kWh)					
Steam	0·032	6·308	3·361	2·336	2·576
Oil	0·615	1·554	2·930	2·023	4·201
Hydro	0·688	0·789	1·028	0·662	0·685
Total ..	1·335	8·651	7·319	5·021	7·462
Sales (Million kWh) within the state					
Domestic light and small power ..	0·910	2·761	6·453	5·542	6·756
Commercial light and small power ..	0·372	0·553	1·601	3·139	4·754
Industrial power	0·173	3·575	15·783	22·768	24·965
Public lighting	0·140	0·531	1·345	1·522	1·676
Traction .. .. .	..	..	..	..	..
Irrigation and de-watering .. .. .	..	1·734	6·606	8·813	12·010
Water works	0·009	0·251	0·830	0·717	0·941
Total ..	1·604	9·405	32·618	42·491	51·102

4. INDEX NUMBER OF ELECTRICITY SUPPLY IN THE COUNTRY

The index number of the salient features of the electricity supply industry are given in Table XXXVI.

TABLE XXXVI—INDEX NUMBER OF ELECTRICITY SUPPLY IN THE COUNTRY 1951 AS BASE YEAR

Item	1951	1956	1960-61	1961-62	1962-63
1	2	3	4	5	6
Installed Generating Plant Capacity—					
(a) Steam Plant	100	145.4	222.0	225.1	231.1
(b) Oil Plant	100	139.1	184.5	202.1	201.1
(c) Hydro Plant	100	184.5	333.2	420.3	507.0
Total	100	157.2	253.5	284.3	314.8
kWh generated—					
(a) Steam Plant	100	184.4	314.2	341.0	366.2
(b) Oil Plant	100	106.2	167.5	172.9	174.6
(c) Hydro Plant	100	150.1	274.0	343.2	412.8
Total	100	164.9	289.1	335.5	381.8
Coal Consumption	100	163.9	270.3	292.0	322.6
Fuel Oil Consumption	100	104.3	153.1	161.6	163.3
Aggregate Maximum Demand	100	165.1	294.2	329.5	384.6
kWh Sold—					
Domestic light and small power	100	157.2	251.2	285.8	322.8
Commercial light and small power	100	165.4	256.9	283.0	317.7
Industrial	100	174.0	317.0	377.4	428.6
Public lighting	100	173.2	285.8	318.8	362.2
Traction	100	122.9	137.7	177.4	219.6
Irrigation and de-watering	100	155.7	410.2	488.1	543.5
Public water works	100	150.9	207.6	228.1	252.5
Total	100	166.1	288.9	345.3	389.6

5. AVERAGE REVENUE REALISED FROM SALE OF ELECTRICITY

Table XXXVII gives an idea of the weighted average revenue realised from sale of electrical energy to ultimate consumers during 1962-63 as compiled from the data collected from major public utility undertakings covering about 74.5 per cent of the total power sold.

TABLE XXXVII—AVERAGE PRICE OF ELECTRICITY

Serial No.	Category of Sales	kWh sold in 1962-63 (Millions)	Revenue realised in Rs. acs.	Revenue realised in naiya paise per kWh sold
1	2	3	4	5
1	Domestic and commercial premises for lighting, heating and small power, etc.	2,136	3,685	17.252
2	Industrial and traction	10,584	5,734	5.418
3	Agriculture	867	643	7.416
4	All purposes i.e. (1)(2) and (3) above	13,587	10,062	7.406

SECTION 3

**TRANSFORMER-TRANSMISSION AND HIGH VOLTAGE
DISTRIBUTION LINES, CONSUMERS AND
CONNECTED LOAD DATA AND TOWNS
AND VILLAGES ELECTRIFIED**

TRANSFORMERS

TABLE XXXVIII gives the number of Power and Distribution Transformers and their aggregate installed capacities in the different States.

TABLE XXXVIII—STATEWISE SUMMARY OF THE TRANSFORMERS DATA AS ON 31-3-1963.

Serial No.	Name of State or Union Territory	Step-up Transformers		Step-down Transformers		Distribution Transformers	
		No.	Aggregate kVA	No.	Aggregate kVA	No.	Aggregate kVA
1	2	3	4	5	6	7	8
1	Andhra Pradesh	80	289,693	266	449,750	6,487	484,367
2	Assam	21	7,125	10	8,880	160	23,597
3	*Bihar	27	24,025	182	321,580	4,786	251,995
4	Gujarat	89	371,850	148	276,425	3,301	274,440
5	*Jammu & Kashmir	14	20,925	9	17,750	266	29,765
6	Kerala	23	247,430	68	217,900	3,464	223,233
7	Madhya Pradesh	52	159,085	140	413,895	1,314	167,987
8	Madras	41	627,180	511	1,997,740	14,313	1,079,034
9	Maharashtra	104	753,115	233	1,551,760	4,081	681,960
10	Mysore	71	253,370	176	438,375	12,462	314,118
11	Orissa	13	306,280	57	312,850	464	65,110
12	Punjab	34	798,994	185	1,083,328	7,088	458,647
13	**Rajasthan	49	19,908	30	9,617	426	47,606
14	***Uttar Pradesh .. ..	..	..	..	..	..	..
15	@West Bengal	53	51,399	187	913,392	1,187	184,866
16	D.V.C.	12	630,000	59	1,083,000	..	..
17	<i>Union Territories</i>						
	Delhi .. ..	..	..	43	167,730	517	194,125
	Andaman & Nicobar Islands	2	550	..	..	10	600
	Himachal Pradesh	4	1,500	5	1,550	258	11,785
	Manipur			Data not received			
	Pondicherry	2	4,050	3	700	176	17,000
	Tripura	2	1,000	..	..	20	1,260
	GRAND TOTAL	693	4,567,479	2,312	9,266,222	60,780	4,511,486

* 1961-62 data repeated due to non-receipt of fresh data.

** 1961-62 provisional data of the Board is repeated due to non-receipt of fresh data.

*** No break up made available. Total capacity of transformers in the state 1,653,958 kVA.

@ Excludes data for H wrah Division.

IMPORTANT POWER TRANSFORMERS COMMISSIONED DURING THE YEAR 1962-63.

Name of the State or Union Territory	Capacity and voltage ratio of transformer	Number installed during 1962-63	Place of installation	Remarks
(1)	(2)	(3)	(4)	(5)
Andhra Pradesh	4 × 500 kVA at 400 V/11 kV	4	Andhra Pradesh State Electricity Board.	
Bihar	25 Nos. step-down transformers with total capacity of 75,050 kVA at different voltages.	25	Bihar State Electricity Board	
Gujarat	2 Nos. with total capacity of 1,300 kVA at 11/3.3 kV.	2	Bhagalpur Electric Supply Company Ltd.	
	1 × 7,500 kVA at 11/66 kV. 1 × 2,500 kVA at 11/33 kV. 1 × 5,000 kVA at 66/22/11 kV. 2 Nos. with total capacity of 1,300 kVA at 33/11 kV.	5	Gujarat Electricity Board	One step-down transformer of 3,000 kVA was replaced by one step-down transformer of 5,000 kVA.
	1 × 4,000 kVA at 11/3.3 kV. 1 × 37,500 kVA at 11/66 kV.	2	Ahmedabad Electricity Supply Company Ltd.	
1 × 500 kVA at 11,000/450 V.	1	Visnagar Municipal Power House		
Kerala	1 × 18,000 kVA at 11/110 kV	1	Kerala State Electricity Board	
Madhya Pradesh	35 Nos. of step-down transformers at various voltages with total capacity of 23,520 kVA.	35	Madhya Pradesh State Electricity Board.	
Madras	90 step-down transformers at different voltages with total capacity of 323,650 kVA.	90	Madras State Electricity Board	32 step-down transformers at different voltages with total capacity of 86,500 kVA have been released from service and not erected elsewhere. Also these transformer are not included in the table.
Maharashtra	1 × 500 kVA at 400/11,000 kV.	1	Jalgaon Electricity Co. Ltd.	1 transformer of 500 kVA was installed in place of 250 kVA.
	1 × 500 kVA 1 × 750 kVA at 11,000/415 kV.	2	Nagpur Electric and Light Company Ltd.	
	1 × 7,500 kVA at 100/22 kV.	1	Poona Electric Supply Co. Ltd.	
	3 × 500 kVA at 22/6.6 kV.	3	Thana Electric Supply Co. Private Ltd.	1 transformer of 500 kVA was installed in place of 400 kVA. 1,500 kVA capacity has increased.
	1 × 10,000 kVA. at 22,000/6,500	1	Tata Hydro Electric Agencies Ltd. Bombay Electric Supply and Transport undertaking.	

IMPORTANT POWER TRANSFORMERS COMMISSIONED DURING THE YEAR 1962-63.

Name of the State or Union Territory	Capacity and voltage ratio of transformer	Number installed during 1962-63	Place of installation	Remarks
(1)	(2)	(3)	(4)	(5)
Mysore	2×10,000 kVA at 11/110 kV 4,000 kVA at 110/33/11 kV. 10,000 kVA at 66/33/11 kV. 2,000 kVA at 66/11 kV. 1,500 kVA at 66/13.2 kV. 4,750 kVA at 33/11 kV. 1×750 kVA at 3,300/11,000 V.	1	Mysore State Electricity Board. The Amalgamated Electricity Co. Ltd. Belgaum.	
Orissa	1×42,000 kVA 2×27,000 kVA at 11/132 kV.	3	Hirakud Dam Project	
Punjab	270,000 kVA at 220/132 kV 335,000 kVA at 220/66 kV. 8,000 kVA at 66/33 kV. 12,000 kVA at 66/11 kV. 52,175 kVA at 33/11 kV	4 5 2 5 14	Punjab State Electricity Board	2 Nos. added at 132/33/11 kV & capacity decreased by 24,800 kVA 1 No. added at 66/3.3 kV with no capacity 4 Nos with the total capacity of 43,980 kVA. at 132/66 kV were removed 18,000 kVA capacity decreased at 132/11 kV. 4,000 kVA capacity decreased at 66/33/11 kV.
Uttar Pradesh	1×1,500 kVA at 37.5/11 kV. 1×3,000 kVA at 6.6/33 kV. 1×5,000 kVA at 66/11 kV. 1×1,300 kVA at 66/3.3 kV. 1×500 kVA at 3.3/11 kV. } 1×700 kVA at 0.4/11 kV. } <i>Hydel Unit of U.P.S.E.B.</i> 55,420 kVA at 11 kV & below. 166,950 kVA above 11 kV. <i>Rihand Area.</i> 1,580 kVA capacity at 11 kV & below. 82,500 kVA capacity above 11 kV. <i>Kanpur Electricity Supply Admn.</i> 1×1,300 kVA at 66/11 kV. 1×500 kVA at 3.3/415	1 1 1 1 2	Hydel Division, Bareilly. Steam Station Gorakhpur. Hydro Electric Division, Meerut Kanpur Electricity Supply Administration. Hydro Electricity Division, Shahjahanpur.	
West Bengal	1×2,500 kVA at 37/11 kV. } 1×500 kVA at 37/11 kV. } 1×3,000 kVA at 66/11 kV. 1×20,000 kVA at 132/25 kV. } 1×3,000 kVA at 33/11 kV. } 1×500 kVA at 11/3.3 kV	2 1 2	Uttar Pradesh Electricity Board. Bareilly Electricity Supply Company Ltd. Western U.P. Electric Supply Co. Ltd. Krishnagar Electricity Division. Kharagpur Electricity Division	Detail not Available.
D.V.C.	1×15,000 kVA at 132/33 kV. } 1×5,000 kVA at 132/33 kV. } 2×12,500 kVA at 132/25 kV. } 1×15,000 kVA at 132/33 kV. } 1×10,000 kVA at 132/33 kV. } 1×10,000 kVA at 132/25 kV. }	1 7	Chanch Sub-Station of Dishergarh Power Supply Co. Ltd. Putki Sub-station. Barhi Sub-station. Barun Sub-station. Patna Sub-station. Gaya Sub-station.	1×10,000 kVA. at 132/33 kV. was installed in place of 1×5,000 kVA.
Union territories	1×5,000 kVA at 33/11 kV. 1×5,000 kVA at 11/6.6 kV. 1×1,000 kVA at 33/6.6 kV. 1×750 kVA at 33/6.6 kV. 1×500 kVA.	5	Delhi Electricity Supply Undertaking.	250 kVA Transformer was replaced by 500 kVA.

Table XXXIX gives the total circuit kilometers of transmission and distribution lines grouped under as on 31st March, 1963.

TABLE XXXIX—TRANSMISSION AND

Serial No.	Name of State or Union Territory	L.T. Lines Up to 500 Volts	High Voltage Distribution Up to 11 kV					
			2·2/3·3 kV		5/6·6 kV		11 kV	
			O.H.	U.G.	O.H.	U.G.	O.H.	U.G.
1	2	3	4	5	6	7	8	9
1	Andhra Pradesh	19,003·8	40·0	12·0	421·0	21·0	14,182·4	4·5
2	Assam	772·6	30·9	10·8	..	..	349·7	..
3	Bihar	8,604·9	128·4	14·7	195·4	55·9	13,203·2	33·0
4	Gujarat	7,634·8	247·4	121·7	7·0	0·2	3,564·7	479·1
5	*Jammu & Kashmir	1,296·4	..	..	490·2	0·4	860·0	..
6	Kerala	11,827·8	102·7	35·1	8·8	18·0	5,834·5	163·5
7	Madhya Pradesh	4,073·2	132·2	50·0	87·9	19·2	2,943·6	13·1
8	Madras	53,737·2	148·8	7·0	221·1	122·4	17,452·3	213·9
9	Maharashtra	12,853·5	262·9	62·2	114·7	659·5	6,771·9	335·0
10	Mysore	15,657·6	53·0	5·4	5,590·0	177·5	9,225·3	12·5
11	Orissa	1,251·2	49·6	3·4	..	..	1,804·6	18·1
12	Punjab	9,052·3	18·3	34·1	..	..	13,386·5	2·1
13	**Rajasthan	2,543·8	344·0	77·3	200·4	17·0	566·7	2·0
14	Uttar Pradesh	20,787·6	136·0	499·1	198·6	84·7	21,146·9	41·3
15	***West Bengal	10,249·7	60·9	141·1	234·3	1,382·1	4,213·4	105·3
16	D.V.C. .. ..	..	..	..	..	..	..	..
17	Union Territories—							
	(a) Delhi	3,332·5	..	..	155·2	360·3	402·9	148·7
	(b) Andaman & Nicobar Islands	23·7	..	..	10·1	..	..	..
	(c) Himachal Pradesh	837·0	..	..	..	..	541·0	..
	(d) Manipur		Data not received					
	(e) Pondicherry	935·2	12·0	0·2	..	..	25·5	..
	(f) Tripura	69·8	..	..	..	..	70·0	0·2

* 1961-62 data repeated for
 ** 1961-62 provisional data of Board is
 *** It excludes Howrah Division under

upto 500V L.T.=
 above 500V O.H.=
 above 500V U.G.=

Total =

various voltages between 220 kV and 11 kV for distribution and between 22 kv and 230 kV for transmission

DISTRIBUTION LINES AS ON 31-3-1963

(In circuit kilometres)

Transmission										GRAND TOTAL
22 kV		33 kV		44/37.5 kV	78/66 kV	110/90 kV	132 kV	220 kV	230 kV	
O.H.	U.G.	O.H.	U.G.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	
10	11	12	13	14	15	16	17	18	19	20
..	..	3,669.0	..	..	2,543.0	..	1,441.0	..	..	41,337.7
..	..	198.4	..	..	..	..	..	..	..	1,362.4
..	..	2,785.8	..	..	..	..	567.0	..	..	25,688.3
1,363.7	3.0	937.7	..	1.1	884.2	0.2	..	..	..	15,244.8
..	..	186.0	..	..	211.0	56.0	..	..	..	3,100.0
171.0	..	36.2	..	..	1,475.0	958.0	..	..	..	20,630.6
25.4	1.6	1,815.3	..	..	404.8	..	1,412.3	..	..	10,978.6
8,142.7	..	1,966.9	31.7	..	2,814.0	3,941.0	..	..	478.0	89,277.0
1,876.3	284.5	1,238.9	..	..	1,307.0	1,536.1	..	66.0	..	27,368.4
72.0	..	699.0	..	..	1,880.1	1,724.0	..	..	..	35,096.4
..	..	1,024.2	..	..	256.4	..	1,042.0	..	..	5,449.5
..	..	2,511.3	..	..	454.8	..	1,180.1	653.4	..	27,292.9
225.6	..	461.8	..	..	..	..	..	..	..	4,438.6
67.8	0.3	1,737.7	..	2,713.2	1,450.6	..	933.7	..	..	49,797.5
..	64.3	907.5	415.3	..	179.6	..	..	..	..	17,953.5
..	..	253.0	..	..	..	..	2,795.0	..	..	3,048.0
..	..	40.5	..	..	..	..	..	..	..	4,440.1
..	..	..	..	..	..	..	..	..	..	33.8
477.0	..	135.0	..	..	..	..	..	..	..	1,990.0
..	..	..	..	Data not Received		..	..	..	..	..
197.6	..	..	..	..	..	..	..	..	..	1,170.5
..	..	..	..	..	..	..	..	..	..	140.0

want of fresh data.

repeated for want of fresh data.

the West Bengal State Electricity Board.

184,544.6

194,828.7

6,365.3

385,738.6

IMPORTANT TRANSMISSION LINES COMMISSIONED DURING THE YEAR ENDED 1962-63

ANDHRA PRADESH

405.2	kilometers of 133 kV	} Andhra Pradesh State Electricity Board
206.4	" " 33 kV	
1,297.3	" " 11 kV	
2.6	" " 6.6 kV	
1.8	" " 3.3 kV	

ASSAM

79.4 kilometers of 33 kV	} Assam State Electricity Board.
176.9 kilometers of 11 kV	
0.2 kilometers of 3.3/3 kV		Shillong Hydro Electric Co. Ltd.

BIHAR

379.9 kilometers of 132 kV	} Bihar State Electricity Board.	
199.9 kilometers of 33 kV		
1,199.0 kilometers of 11 kV		
0.8 kilometers of 11 kV		The Jharia Coal Field Electric Supply Co. (Private) Ltd.
1.1 kilometers of 11 kV		Bhagalpur Electric Supply Co. Ltd.
2.1 kilometers of 11 kV		Muzaffarpore Electric Supply Co. Ltd.
0.5 kilometers of 3.3/3 kV		
1.1 kilometers of 11 kV		Patna Electric Supply Co., Ltd.
6.1 kilometers of 6.6 kV		
3.2 kilometers of 6.6 kV		Ranchi Electric Supply Co. Ltd.
1.2 kilometers of 11 kV		Sijua (Jherriah) Electric Supply Co. Ltd.
0.2 kilometers of 3.3/3 kV		Darbhanga Laheriasarai Electric Supply Corporation Ltd.

GUJARAT

59.2 kilometers of 78/66 kV	} Gujarat State Electricity Board.	
51.5 kilometers of 33 kV		
362.7 kilometers of 22 kV		
521.0 kilometers of 11 kV		
2.2 kilometers of 3.3 kV		Anand Electric Supply Co. Ltd.
14.2 kilometers of 11 kV		Ahmedabad Electricity Co. Ltd.
0.6 kilometers of 3.3/3 kV		Shree Sardar Kheti Sahayak Sahakari Vidyut Mandal Ltd., Bardoli.
0.6 kilometers of 3.3/3 kV		The Broach Electric Supply and Development Corporation Ltd.
0.3 kilometers of 11 kV		Dakor Umreth Electricity Co. Ltd.
0.6 kilometers of 3.3/3 kV		The Cambay Electric Supply and Industrial Co. Ltd.
1.7 kilometers of 11 kV		Charotar Gramodhar Sahakari Mandal Ltd., Vallabh Vidyanagar.
0.3 kilometers of 3.3/3 kV		Surat Electricity Co. Ltd.

KERALA

405.3 kilometers of 110 kV	} Kerala State Electricity Board.
101.9 kilometers of 78/66 kV	
10.7 kilometers of 22 kV	
308.5 kilometers of 11 kV	
7.2 kilometers of 11 kV		West Coast Electric Supply Corporation Ltd.

MADHYA PRADESH

321·8 kilometers of 132 kV }
 48·3 kilometers of 66 kV }
 307·5 kilometers of 33 kV }
 272·1 kilometers of 11 kV }
 3·3 kilometers of 6·6 kV }
 1·8 kilometers of 3·3/3 kV }

Madhya Pradesh State Electricity Board.

Saugor Electric Supply Co. Ltd.

MADRAS

832·0 kilometers of 110 kV }
 100·0 kilometers of 66 kV }
 187·3 kilometers of 33 kV }
 1,093·3 kilometers of 22 kV }
 1,570·9 kilometers of 11 kV }
 8·5 kilometers of 6·6 kV }
 20·7 kilometers of 3·3 kV }
 26·8 kilometers of 22 kV }
 0·6 kilometers of 6·6 kV }
 10·5 kilometers of 22 kV }
 5·0 kilometers of 11 kV }
 0·9 kilometers of 6·6 kV }
 0·6 kilometers of 11 kV }
 16·9 kilometers of 11 kV }

Madras State Electricity Board.

Salem-Erode Electric Distribution Supply Co. Ltd

Tirunelveli—Tuticorin Electric Supply Co. Ltd.

Thanjavur Municipal Electrical undertaking.

Vellore Electric Supply Corporation Ltd., Vellore.

MAHARASHTRA

66·0 kilometers of 220 kV }
 502·0 kilometers of 110 kV }
 56·2 kilometers of 78/66 kV }
 256·0 kilometers of 33 kV }
 1,301·7 kilometers of 22 kV }
 3,267·6 kilometers of 11 kV }
 0·9 kilometers of 3·3/3 kV }
 0·4 kilometers of 3·3/3 kV }
 1·2 kilometers of 11 kV }
 4·7 kilometers of 11 kV }
 0·8 kilometers of 11 kV }
 3·3 kilometers of 11 kV }
 0·6 kilometers of 3·3/3 kV }
 15·4 kilometers of 11 kV }
 1·6 kilometers of 11 kV }
 8·8 kilometers of 6·6 kV }
 29·7 kilometers of 22 kV }
 0·3 kilometers of 6·6 kV }

Maharashtra State Electricity Board.

Ahmednagar Electric Supply Co. (Private) Ltd.

Dhulia Electric Supply Co. Ltd.

Ichalkaranji Electric Supply Company.

Amalgamated Electricity Co. Ltd. (Jalgaon Branch).

Karad Electric Supply Co. (Private) Ltd.

Nagpur Electric Light and Power Co. Ltd.

Nasik Deolali Electric Supply Co. Ltd.

Poona Electric Supply Co. Ltd.

The Amalgamated Electricity Co. Ltd. (Bulsar Branch).

Thana Electric Supply Co. Ltd.

Tata Hydro Electric Power Supply Co. Ltd.

MYSORE

87.0 kilometers of 110 kV	}	Mysore State Electricity Board.
74.7 kilometers of 78/66 kV		
100.0 kilometers of 33 kV		
942.8 kilometers of 11 kV		
90.0 kilometers of 6.6/5/4.6/2.2 kV		
2.3 kilometers of 11 kV	}	The Amalgamated Electricity Co. Ltd. (Balgaum Branch).
2.1 kilometers of 3.3 kV		
0.4 kilometers of 3.3 kV		
		Dharwar Electric Supply Co. Ltd.

ORISSA

170.0 kilometers of 132 kV	}	Orissa State Electricity Board.
144.2 kilometers of 33 kV		
551.0 kilometers of 11 kV		
2.0 kilometers of 3.3 kV		

PUNJAB

110.7 kilometers of 33 kV	}	Punjab State Electricity Board.
1,187.3 kilometers of 11 kV		
0.5 kilometers of 11 kV		Municipal Electricity Department, Amritsar.
2.3 kilometers of 11 kV		South Punjab Electricity Corporation Limited, Rohtak.

RAJASTHAN

33.6 kilometers of 33 kV		Bikaner Circle.
83.6 kilometers of 11 kV	}	The Amalgamated Electricity Co. Ltd., (Ajmer Branch).
1.1 kilometers of 11 kV		
0.9 kilometers of 6.6 kV		
1.3 kilometers of 11 kV		
		Maharana Bhupal Electricity Supply Co Ltd., Udaipur.

UTTAR PRADESH

<i>Hydel Unit of U.P.S.E.B.—</i>	}	Uttar Pradesh State Electricity Board.
105.9 kilometers of 132 kV		
45.1 kilometers of 37.5 kV		
174.1 kilometers of 33 kV		
1,067.8 kilometers of 11 kV		
2.1 kilometers of 6.6 kV		
<i>Rihand Area—</i>		
24.9 kilometers of 33 kV		
5.4 kilometers of 11 kV		
<i>Kanpur Electricity Supply Admn.—</i>		
7.1 kilometers of 11 kV		
12.0 kilometers of 6.6 kV		
1.6 kilometers of 3.3 kV		Faizabad Electric Supply Undertaking.

UTTAR PRADESH—contd.

1.2 kilometers of 11 kV	The Balrampur Raj Electric Supply Co. (Private) Ltd. Bareilly Electricity Supply Co. Ltd. U.P. Electric Supply Co. Ltd., Allahabad. Agra Electric Supply Co. Ltd.
3.9 kilometers of 3.3/3 kV	
0.4 kilometers of 3.3 kV	
1.9 kilometers of 3.3 kV	
2.3 kilometers of 11 kV	Banaras Electric Light and Power Co. Ltd.
3.3 kilometers of 6.6 kV	
2.3 kilometers of 3.3 kV	
1.0 kilometers of 3.3/3 kV	Farrukhabad Electric Supply Co. Ltd. Rohtak and Hissar Districts Electric Supply Co. Ltd. Shahjahanpur Electric Supply Co. Ltd.
0.8 kilometers of 11 kV	
1.6 kilometers of 3.3/3 kV	

WEST BENGAL

16.6 kilometers of 11 kV	Barrackpore Electric Division.
2.8 kilometers of 6.6 kV	
134.0 kilometers of 11 kV	Kharagpur Electric Division. Krishnagar Electric Division.
93.0 kilometers of 11 kV	
1.7 kilometers of 20 kV	Calcutta Electric Supply Corporation Ltd.
42.3 kilometers of 6.6 kV	
1.6 kilometers of 6.6/5 kV	Chandernagore Electric Supply Co. Ltd.
5.4 kilometers of 11 kV	Associated Power Co. Ltd.
0.9 kilometers of 3.3/3 kV	
11.6 kilometers of 11 kV	
2.3 kilometers of 3.3/3 kV	

D.V.C.

25.0 kilometers of 132 kV	Damodar Valley Corporation.
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UNION TERRITORIES

118.8 kilometers of 11 kV	Delhi Electric Supply Undertaking.
11.1 kilometers of 6.5 kV	
52.0 kilometers of 11 kV	Agartala Electric Supply, Agartala. Government Electricity Department, Pondicherry.
18.9 kilometers of 22 kV	
5.0 kilometers of 33 kV	Hydro Electric Division, H.P. P.W.D., Simla.
69.0 kilometers of 22 kV	
58 kilometers of 11 kV	
9.0 kilometers of 11 kV	Karaikal Electric Supply Co. Ltd.
0.2 kilometers of 3.3/3 kV	
1.0 kilometers of 11 kV	The West Coast Electric Supply Corporation Ltd., Mahe.

CONSUMERS AND

2. The total number of consumers and their connected load as on 31-3-1963 in the various states are given

TABLE XL—CLASSIFICATION OF

Serial No.	Name of State or Union Territory	Segregation of number								
		Domestic Light and Small Power		Commercial Light and Small Power		Industrial Power		Public Lighting		
		A.C.	D.C.	A.C.	D.C.	A.C.	D.C.	A.C.	D.C.	
1	2	3	4	5	6	7	8	9	10	
1	Andhra Pradesh ..	293,076	..	35,683	..	9,750	..	2,505	..	
2	Assam	18,775	2,580	2,623	840	883	52	184	2	
3	Bihar	162,525	4,254	21,685	1,330	6,275	106	228	3	
4	Gujarat	413,395	5,537	70,812	1,991	26,165	329	791	32	
5	Jammu & Kashmir* ..	44,578	..	5,783	..	639	..	4	..	
6	Kerala	211,847	..	42,095	..	8,339	..	871	..	
7	Madhya Pradesh ..	138,170	3,977	32,681	136	8,050	167	454	2	
8	Madras	577,416	13,050	98,305	4,224	29,527	212	10,800	8	
9	Maharashtra	665,736	2,050	164,104	61	25,948	101	733	2	
10	Mysore	370,407	3,809	29,424	38	15,120	53	325	1	
11	Orissa*	29,451	119	7,460	1	859	..	145	2	
12	Punjab	460,088	8,959	136,835	5,682	18,819	358	284	2	
13	Rajasthan	101,161	2,204	30,391	1,052	5,161	82	47	6	
14	Uttar Pradesh ..	234,505	51,956	64,860	22,661	17,602	1,645	348	11	
15	West Bengal ..	178,731	207,060	69,991	52,779	11,817	13,017	227	8	
16	Union Territories—									
	(a) Delhi	200,191	37,70	37,094	12,130	6,555	210	271	..	
	(b) Andaman and Nicobar Islands	1,659	..	26	..	24	..	1	..	
	(c) Himachal Pradesh	7,780	..	3,263	..	203	..	13	..	
	(d) Manipur	2,230	..	3	..	90	..	2	..	
	(e) Pondicherry ..	10,072	..	844	..	279	..	10	..	
	(f) Tripura	11,996	..	352	..	48	..	1	..	
	GRAND TOTAL	4,123,699	343,255	854,314	102,925	191,653	16,332	18,244	79	

*: 1961-62 data repeated for want of data for 1962-63.

CONNECTED LOAD

in Tables XL and XLI.

CONSUMERS AS ON 31-3-1963

Traction		Irrigation and de-watering		Public Water Works and Sewage Pumping		Total Number of Consumers		Total
A.C.	D.C.	A.C.	D.C.	A.C.	D.C.	A.C.	D.C.	
11	12	13	14	15	16	17	18	19
..	..	32,090	Covered under Industrial power			373,104	..	373,104
..	24	4	21,989	3,478	25,467
1	..	5,405	1	143	2	196,262	5,706	201,968
..	..	8,754	19	645	12	520,562	7,920	528,482
..	..	48	..	..	..	51,052	..	51,052
..	..	3,430	..	202	..	266,784	..	266,784
..	..	2,008	5	198	..	181,961	4,287	186,248
16	..	141,500	..	602	..	858,166	17,494	875,660
1	2	9,199	..	199	..	865,920	2,216	868,136
..	..	22,683	..	471	..	438,430	3,901	442,331
..	..	13	..	..	..	37,928	122	38,050
..	..	17,466	..	13	16	633,525	15,017	648,542
..	..	1,418	14	41	4	138,219	3,562	141,781
..	..	9,667	11	251	8	327,233	76,292	403,525
4	..	65	..	112	2	260,947	272,866	533,813
..	1	42	..	42	..	244,105	50,041	294,146
..	4	..	1,714	..	1,714
..	2	..	11,261	..	11,261
..	2	..	2,327	..	2,327
..	..	2,062	..	45	..	13,312	..	13,312
..	2,397	..	2,397
23	3	256,237	50	3,016	58	5,447,198	462,702	5,909,900

TABLE XLI—CLASSIFICATION OF

Serial No	Name of State or Union Territory	Segregation of Connected							
		Domestic Light & Small Power		Commercial Light & Small Power		Industrial Power		Public Lighting	
		A.C.	D.C.	A.C.	D.C.	A.C.	D.C.	A.C.	D.C.
1	2	3	4	5	6	7	8	9	10
1	Andhra Pradesh ..	143,822	..	25,970	..	203,900	..	5,850	..
2	Assam	12,408	1,325	3,203	643	10,045	511	466	74
3	Bihar	89,502	2,154	18,918	633	300,277	657	1,527	25
4	Gujarat	222,933	2,391	51,577	660	375,005	926	5,444	111
5	Jammu & Kashmir* ..	3,851	..	1,183	..	3,812	..	117	..
6	Kerala	125,377	..	22,836	..	221,494	..	3,918	..
7	Madhya Pradesh ..	50,389	2,154	29,126	122	124,559	319	2,330	101
8	Madras	307,587	6,760	99,631	5,960	545,533	2,300	10,376	8
9	Maharashtra	454,917	445	154,863	1,134	828,717	682	7,456	23
10	Mysore	147,709	736	22,474	16	233,187	303	9,433	3
11	Orissa*	18,300	44	5,387	7	138,355	..	629	12
12	Punjab	160,774	6,752	110,829	4,769	249,809	2,057	2,982	210
13	Rajasthan	39,240	1,195	14,069	425	34,007	394	2,110	99
14	Uttar Pradesh ..	126,388	33,275	49,808	16,959	288,771	11,109	3,842	766
15	West Bengal ..	200,598	251,485	58,891	47,460	752,440	59,985	3,654	3,035
16	Union Territories—								
	(a) Delhi	98,627	20,590	44,963	12,770	61,981	3,200	2,152	..
	(b) Andaman and Nicobar Islands	765	..	72	..	826	..	14	..
	(c) Himachal Pradesh	2,352	..	1,339	..	1,845	..	100	..
	(d) Manipur	1,115	..	14	..	552	..	22	..
	(e) Pondicherry ..	6,526	..	575	..	11,105	..	374	..
	(f) Tripura	997	..	331	..	635	..	27	..
	GRAND TOTAL	2,214,177	329,306	716,059	91,558	4,386,855	82,443	62,803	4,467

*1961-62 data repeated for want of data for 1962-63.

CONNECTED LOAD AS ON 31-3-1963

Load in KW								
Traction		Irrigation and de-watering		Public Water Works & Sewage Pumping		Total connected load in KW		Total
A.C.	D.C.	A.C.	D.C.	A.C.	D.C.	A.C.	A.C.	
11	12	13	14	15	16	17	18	19
..	..	134,947	..			514,489	..	514,489
..	563	30	26,685	2,583	29,268
30,000	..	27,101	4	6,996	257	474,321	3,730	478,051
..	..	43,271	48	17,799	59	716,029	4,195	720,224
..	..	343	..	..	..	9,306	..	9,306
..	..	22,097	..	3,443	..	399,165	..	399,165
..	..	5,572	10	5,166	..	217,142	2,706	219,848
48,338	..	520,092	..	6,591	..	1,538,148	15,028	1,553,176
142,000	5,753	23,171	..	11,311	..	1,622,435	8,037	1,630,472
..	..	85,730	..	15,360	..	513,893	1,058	514,951
..	..	186	..	..	..	162,857	63	162,920
..	..	88,701	..	3,044	252	616,119	14,040	630,159
..	..	4,388	56	4,277	84	98,091	2,253	100,344
..	..	117,584	31	16,362	381	602,755	62,521	665,276
77,687	..	802	..	23,385	25	1,117,457	361,990	1,479,447
..	310	2,311	..	15,229	..	225,263	36,870	262,133
..	95	..	1,772	..	1,772
..	74	..	5,710	..	5,710
..	4	..	1,707	..	1,707
..	..	10,790	..	336	..	29,706	..	29,706
..	1,990	..	1,990
298,025	6,063	1,087,086	149	130,035	1,088	8,895,040	515,074	9,410,114

The total number of consumers during the year were about 5.909 million kW as compared to 5,368 million kW in the previous year showing an increase of 10.1 per cent over the number of consumers at the beginning of the year. The corresponding connected load increased from 8.602 million kW to 9.411 million kW giving an increase of 9.4 per cent.

3. NUMBER OF TOWNS AND VILLAGES ELECTRIFIED AS ON 31-3-1963

There were in all 36,240 towns and Villages electrified in the country at the end of the year as shown in the Table XLII.

TABLE XLII

Sl. No.	Name of State or Union Territory	Up to 5,000	5,000 to 10,000	Total up to 10,000	10,001 to 20,000	20,001 to 50,000	50,000 to 100,000	Over 100,000	Total over 10,000	Grand Total
1	2	3	4	5	6	7	8	9	10	11
1	Andhra Pradesh	..	..	3,379*	87	34	10	6	137**	3,516
2	Assam	47	8	55	7	6	1	..	14	69
3	Bihar	..	..	3,122*	41	19	6	5	71**	3,193
4	Gujarat	928	106	1,034	40	35	4	6	85	1,119
5	Jammu & Kashmir	..	..	345*	2	..	..	1	3**	348
6	Kerala	1,251	312	1,563	117	28	5	3	153	1,716
7	Madhya Pradesh	..	..	646*	36	21	5	5	67	713
8	Madras	7,162	444	7,546	139	58	12	7	216	7,762
9	Maharashtra	..	..	1,600*	69	41	16	5	131	1,731
10	Mysore	2,985	106	3,091	57	22	8	5	92	3,183
11	Orissa	285	31	316	8	5	1	1	15**	331
12	Punjab	..	..	4,663*	42	26	8	3	79**	4,742
13	Rajasthan	223	54	277	36	16	3	4	59	336
14	Uttar Pradesh	..	..	5,481*	69	48	16	14	147	5,628
15	West Bengal	516	36	552	44	29	14	7	94	646
16	Nagaland	4	2	6	..	..	..	..	..	6
17	Union Territories	..	..	1,185*	7	5	2	2	16**	1,201
	Total	13,341	1,099	34,861	801	393	111	74	1,379	36,240

*Population-wise break up not available.

**Estimated.

SECTION 4

**POWER GENERATED AND USED IN SELECTED
INDUSTRIES**

POWER GENERATED AND USED IN SELECTED INDUSTRIES

ELECTRICITY PRODUCTION AND COMSUMPTION IN SELECTED MAJOR INDUSTRIAL ESTABLISHMENTS

The data in respect of generating plant capacity, maximum demand, energy generated and purchased relating to certain industries during 1962-63 is given in Table XLIII.

TABLE XLIII--ELECTRICITY PRODUCTION AND CONSUMPTION IN SELECTED INDUSTRIES DURING THE YEAR 1962-63

Serial No.	Industry	Total Number of factories covered	Installed generating plant capacity as on 31-3-1963 (kW)	Aggregate Maximum Demand (kW)		Kilowatt-Hours (Million)				Annual load factor
				Generated in own power stations	Purchased from public utility electricity undertakings	Generated in own power stations	Purchased from public utility undertakings	Used in Industry	Sold to outside agencies	
1	2	3	4	5	6	7	8	9	10	11
1	Aluminium (Primary)	4	10,734	11,472	79,770	68·423	500·060	568·483	..	71·12
2	Aluminium (Secondary)	9	173	140	8,743	0·297	35·907	36·204	..	46·53
3	Cement (Primary) ..	27	126,589	79,325	100,808	432·687	567·314	991·992	3·859	62·87
4	Cement (Secondary) ..	23	840	569	7,110	0·097	22·255	22·339	..	33·21
5	Chemicals	34	83,212	83,399	56,927	470·189	326·604	440·434	355·089	25·83
6	Collieries	148	159,560	132,543	85,031	431·079	284·335	484·772	230·612	25·43
7	Copper (Primary) ..	1	8,975	2,660	6,280	9·946	29·702	39·648	..	50·63
8	Copper (Secondary) ..	1	..	..	1,207	..	3·376	3·376	..	31·93
9	Cotton Textiles ..	328	146,872	77,339	390,269	309·083	2,075·160	2,372·327	8·570	57·91
10	Ferro-manganese ..	5	32	..	56,530	..	318·930	318·929	..	64·40
11	Fertilizers	5	80,560	66,370	202,531	442·523	1,170·704	1,601·808	11·419	68·00
12	Gold	1	6,700	50	19,320	0·102	110·276	110·378	..	65·05
13	Iron & Steel (Primary)	7	300,568	223,610	297,401	1,170·417	1,113·793	2,057·333	208·376	45·08
14	Iron & Steel (Secondary)	39	1,995	1,440	85,485	2·442	345·044	346·631	0·855	45·52
15	Jute	76	23,182	11,114	114,032	58·919	588·656	645·742	1·833	58·90
16	Oil & Petroleum ..	5	3,591	3,970	11,920	16·574	63·703	80·001	0·276	57·47
17	Paper	23	75,284	50,941	45,830	288·884	238·563	505·668	21·779	59·65
18	Silk	19	1,480	1,800	27,759	8·470	156·925	165·395	..	63·87
19	Soap	10	366	560	5,429	0·281	24·857	25·138	..	47·92
20	Sugar	98	89,080	75,946	21,821	146·348	19·652	164·537	0·836	19·21
21	Tanneries	8	737	362	6,008	0·654	16·561	17·215	..	30·85
22	Wool	10	3,574	3,095	7,344	4·886	30·180	35·022	0·044	33·30
	Total ..	881	1,124,104	826,705	1,637,555	3,862·301	8,042·557	11,033·372	843·548	51·11

881 industrial establishments in all consumed 11,033 million kWh comprising purchase of 8,043 million kWh from electric utilities and generation of 3,862 million kWh by the power plants owned by 302 industrial undertakings. The total energy used by these industries registered an increase of 12 per cent over the consumption of the previous year. The plant capacity owned by the industries increased during 1962-63 by 11.2 per cent.

The textile, Iron and Steel, Fertilizers, Jute and Aluminium (Primary) industries are the largest purchasers of electricity from public electric supply undertakings. The Cement (Primary), Chemical, Collieries Iron (Primary), Paper and Sugar Industries, however generated the major portion of their requirements in their own power stations.

Table XLIV gives the electricity production and consumption in selected major industries during 1962-63 in various states of the Indian Union.

TABLE XLIV—ELECTRICITY PRODUCTION AND CONSUMPTION IN SELECTED INDUSTRIES ON STATE-WISE BASIS DURING THE YEAR 1962-63

Serial No.	Name of State or Union Territory	Total number of factories covered	Installed generating capacity in kW as on 31-3-1963	Aggregate Maximum Demand (kW)		Kilowatt-hours (Millions)			
				Generated in own power station	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	2	3	4	5	6	7	8	9	10
1	Andhra Pradesh ..	22	45,055	27,405	46,061	127·675	251·764	356·954	22·456
2	Assam	2	3,516	3,970	1,200	16·574	0·642	16·940	0·276
3	Bihar	103	281,688	192,927	181,050	1,100·517	881·108	1,775·464	204·117
4	Gujarat	107	53,710	24,813	128,530	105·627	669·223	774·012	0·677
5	Jammu & Kashmir ..	1	..	..	25	..	0·030	0·030	..
6	Kerala	13	1,385	2,245	55,631	3·145	337·757	340·902	..
7	Madhya Pradesh ..	44	72,742	54,580	76,698	274·089	371·562	612·825	19·286
8	Madras	78	120,850	113,463	82,698	300·695	433·293	507·084	226·904
9	Maharashtra	133	66,215	44,692	224,915	176·172	1,171·867	1,345·845	0·184
10	Mysore	30	32,675	22,804	137,396	100·472	548·764	648·213	1·021
11	Orissa	10	95,744	92,100	116,700	404·632	599·347	1,003·057	0·922
12	Punjab	16	19,698	17,490	191,580	76·391	1,109·020	1,182·431	0·002
13	Rajasthan	18	40,631	28,300	4,347	144·192	13·385	157·302	0·275
14	Uttar Pradesh ..	80	65,269	43,857	62,422	95·268	262·586	356·618	0·227
15	West Bengal	216	191,902	142,026	320,808	837·630	1,365·466	1,829·730	367·201
16	Union Territories—								
	(a) Delhi	7	29,459	16,033	5,694	99·157	16·165	115·322	..
	(b) The Rest	1	565	..	1,800	0·065	10·578	10·643	..
	Total	881	1,124,104	826,705	1,637,555	3,862·301	8,042·557	11,033·372	843·548

TABLE XLIV

2. ANALYSIS OF GENERATING PLANT CAPACITY OF INDUSTRIAL ESTABLISHMENTS

Table XLV gives the distribution of plant capacity in the various industries.

TABLE XLV

ANALYSIS OF GENERATING PLANT CAPACITY OF INDUSTRIAL ESTABLISHMENTS FOR THE YEAR 1962-63.

Serial No.	Installed generating plant capacity (kW)	Number of Industrial Establishments	Aggregate Installed Capacity (kW)	Percentage of total capacity %	kWh generated (Millions)	Percentage of total kWh
1	2	3	4	5	6	
1	Under 1,000	186	72,912	6.51	136.960	3.55
2	1001 to 5000	78	181,310	16.12	435.508	11.28
3	5001 to 10,000	17	142,104	12.65	423.410	10.96
4	10,001 to 25,000	15	226,854	20.19	816.149	21.13
5	Over 25,000	6	500,924	44.53	2,050.274	53.08
	Total ..	302	1,124,104	100.00	3,862.301	100.00

Table LVI gives further break up of the installed plant capacity of generating industries, statewise and

TABLE

INSTALLED GENERATING PLANT CAPACITY OF SELECTED MAJOR

Serial No.	Name of State or Union Territory	Aluminium (Primary)	Aluminium (Secondary)	Cement (Primary)	Cement (Secondary)	Chemicals	Collieries	Copper (Primary)	Copper (Secondary)	Cotton Textiles	Ferromanganese
1	2	3	4	5	6	7	8	9	10	11	12
1	Andhra Pradesh ..	..	..	..	310	..	17,700	..	..	2,950	..
2	Assam .. ..	..	..	..	..	..	..	..	..	..	..
3	Bihar	2,634	173	37,500	..	..	22,650	8,975	..	..	..
4	Gujarat .. ..	..	..	17,874	..	1,848	..	..	..	33,988	..
5	Jammu & Kashmir	..	..	..	..	..	..	..	..	..	..
6	Kerala .. ..	..	..	..	..	..	..	..	..	641	..
7	Madhya Pradesh ..	..	..	17,760	..	..	13,710	..	..	15,373	..
8	Madras .. ..	..	..	2,095	..	..	100,000	..	..	14,613	..
9	Maharashtra ..	..	..	..	150	14,711	..	..	..	25,831	..
10	Mysore .. ..	..	..	10,000	..	..	..	..	..	6,943	32
11	Orissa .. ..	..	..	370	..	..	3,000	..	..	1,600	..
12	Punjab .. ..	..	..	2,500	..	..	..	..	..	2,315	..
13	Rajasthan ..	..	..	31,290	..	..	..	..	..	8,117	..
14	Uttar Pradesh ..	..	..	7,200	..	6,593	..	..	..	4,322	..
15	West Bengal ..	8,100	..	..	..	60,000	2,500	..	..	215	..
16	<i>Union Territories—</i>										
	(a) Delhi ..	..	..	..	..	60	..	..	..	29,390	..
	(b) The Rest ..	..	..	..	..	..	..	..	..	565	..
	GRAND TOTAL ..	10,734	173	126,589	460	83,212	159,560	8,975	..	146,872	32

industrywise.

XLVI

INDUSTRIES STATE & INDUSTRY WISE AS ON 31-3-1963

(kW)

Ferti- lizer	Gold	Iron & Steel (Pri- mary)	Iron & Steel (Sec- ondary plus Engg.)	Jute	Oil	Paper	Silk	Soap	Sugar	Tane- ries	Wool	Mis- cella- neous i.e., glass	Total
13	14	15	16	17	18	19	20	21	22	23	24	25	26
..	75	18,430	..	..	5,590	..	..	..	45,055
..	3,516	..	..	..	..	..	..	..	3,516
80,400	..	120,500	..	3,987	..	..	..	..	7,869	..	..	..	284,688
..	53,710
..
..	544	..	200	..	..	..	..	1,385
..	..	23,994	..	..	..	580	..	..	1,325	..	..	..	72,742
..	3,855	287	..	..	120,850
..	1,320	..	..	..	1,480	166	21,953	..	224	380	66,215
..	6,700	800	80	..	..	5,000	..	..	3,120	..	..	..	32,675
..	..	80,024	..	..	..	10,750	..	..	..	..	..	..	95,744
..	9,750	..	..	4,233	..	900	..	19,698
160	180	..	..	..	..	..	884	..	..	..	40,631
..	415	780	..	3,330	..	..	39,729	450	2,450	..	65,269
..	..	75,250	..	18,415	..	26,900	..	..	522	..	..	..	191,902
..	29,459
..	565
80,560	6,700	300,568	1,995	23,182	3,591	75,284	1,480	366	69,080	737	3,574	380	1,124,104

The table XLVII shows the consumption of energy in Selected Major Industries in various States

TABLE

ENERGY CONSUMED IN SELECTED MAJOR INDUSTRIES AND INDUSTRY

Serial No.	Name of State or Union Territory	Aluminium (Primary)	Aluminium (Secondary)	Cement (Primary)	Cement (Secondary)	Chemicals	Collieries	Copper (Primary)
1	2	3	4	5	6	7	8	9
1	Andhra Pradesh .. ..	..	..	47·457	..	..	59·556	..
2	Assam .. ..	..	..	..	..	..	..	..
3	Bihar	16·169	0·229	267·110	1·573	22·752	186·328	39·848
4	Gujarat .. ..	..	..	100·524	0·480	21·529	..	..
5	Jammu & Kashmir .. ..	..	..	..	..	..	..	..
6	Kerala	119·609	4·246	7·898	..	46·836	..	..
7	Madhya Pradesh .. ..	..	..	70·886	5·311	..	36·878	..
8	Madras .. ..	..	0·052	133·248	..	48·207	42·286	..
9	Maharashtra .. ..	..	0·978	1·118	5·903	97·234	2·467	..
10	Mysore .. ..	..	..	64·008	0·023	0·826	..	..
11	Orissa	335·078	4·880	42·596	..	..	8·926	..
12	Punjab .. ..	..	..	74·394	..	..	..	..
13	Rajasthan .. ..	..	..	137·626	0·325	..	..	..
14	Uttar Pradesh .. ..	..	..	45·127	..	32·844	..	..
15	West Bengal	97·627	25·819	..	8·635	118·286	148·311	..
16	Union Territories—					..	..	..
	(a) Delhi .. ..	..	..	..	0·089	51·920	..	..
	(b) The Rest .. ..	..	..	..	..	..	..	..
	Total	568·483	36·204	991·992	22·339	440·434	484·772	39·648

during 1962-63.

XLVII

WISE DURING 1962-63

(MILLION kWh)

Serial No.	Name of State or Union Territory	Copper (Secondary)	Cotton Textile	Ferro-Manganese	Fertilizer	Gold	Iron and Steel (Primary)	Iron and Steel (Secondary)	Jute
1	2	10	11	12	13	14	15	16	17
1	Andhra Pradesh ..	..	18·087	108·736	..	..	..	3·208	13·893
2	Assam .. ..	..	..	..	..	..	..	..	..
3	Bihar .. ..	..	1·268	..	429·150	..	631·741	149·610	12·688
4	Gujarat .. ..	..	639·715	..	..	..	..	..	..
5	Jammu & Kashmir ..	..	..	..	..	..	..	..	..
6	Kerala .. ..	..	8·366	..	145·134	..	..	..	..
7	Madhya Pradesh ..	..	115·495	..	..	..	326·921	..	..
8	Madras .. ..	..	268·898	..	..	..	..	4·171	..
9	Maharashtra ..	3·376	878·893	37·122	..	..	..	54·044	..
10	Mysore .. ..	..	49·772	29·929	26·975	110·378	262·104	31·726	..
11	Orissa .. ..	..	10·590	143·142	..	..	363·561	..	..
12	Punjab .. ..	..	30·117	..	1,000·377	..	..	2·015	..
13	Rajasthan .. ..	..	18·238	..	0·172	..	..	0·167	..
14	Uttar Pradesh ..	..	153·221	..	..	..	..	14·577	13·049
15	West Bengal ..	..	105·730	..	..	..	473·006	87·113	606·112
16	Union Territories--								
	(a) Delhi .. ..	..	63·294	..	..	..	..	..	..
	(b) The Rest ..	..	10·643	..	..	..	..	..	..
	GRAND TOTAL ..	3·376	2,372·327	318·929	1,601·808	110·378	2,057·333	346·631	645·742

TABLE XLVII

ENERGY CONSUMED IN SELECTED MAJOR INDUSTRIES AND INDUSTRY WISE DURING 1962-63
(MILLION kWh)

Serial No.	Name of State or Union Territory	Oil & Petroleum	Paper	Silk	Soap	Sugar	Tanneries	Wool	Total
1	2	18	19	20	21	22	23	24	25
1	Andhra Pradesh ..	18·039	52·491	20·929	..	14·558	..	..	356·954
2	Assam	16·940	..	..	..	..	..	..	16·940
3	Bihar .. ..	..	..	..	..	17·198	..	..	1,775·464
4	Gujarat .. ..	..	5·399	3·212	..	..	..	3·153	774·012
5	Jammu & Kashmir ..	..	..	0·030	..	..	..	..	0·030
6	Kerala .. ..	..	8·813	..	..	..	..	..	340·902
7	Madhya Pradesh ..	..	55·809	..	..	1·525	..	..	612·825
8	Madras .. ..	..	..	..	..	9·507	0·715	..	507·084
9	Maharashtra ..	43·791	20·861	137·865	21·219	34·809	..	6·145	1,345·845
10	Mysore .. ..	..	52·919	0·496	0·258	6·068	0·121	12·610	648·213
11	Orissa .. ..	..	94·284	..	..	..	..	..	1,003·057
12	Punjab .. ..	..	59·948	1·472	..	7·153	..	6·955	1,182·431
13	Rajasthan .. ..	..	..	..	..	0·774	..	..	157·302
14	Uttar Pradesh ..	..	18·071	..	..	71·510	2·789	5·430	356·618
15	West Bengal ..	1·231	137·073	1·372	3·661	1·435	13·590	0·729	1,829·730
16	Union Territories--								
	(a) Delhi .. ..	..	..	0·019	..	..	..	..	115·322
	(b) The Rest ..	..	..	..	..	..	..	..	10·643
	GRAND TOTAL ..	80·091	505·668	165·395	25·138	164·537	17·215	35·022	11,033·372

SECTION 5

ELECTRICAL ACCIDENTS

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

Table XLVIII gives the fatal and non-fatal electrical accidents statewise in Public Electricity Supply and Industrial undertakings.

**TABLE XLVIII—NUMBER OF FATAL AND NON-FATAL ELECTRICAL ACCIDENTS
DURING THE YEAR 1962-63.**

Serial No.	Name of State or Union Territory	Generating and sub station				Transmission				Distribution				Total	
		Electric Supply Undertakings		Industrial Undertakings		Electric Supply Undertakings		Industrial Undertakings		Electric Supply Undertakings		Industrial Undertakings			
		Fatal	Non-fatal	Fatal	Non-fatal	Fatal	Non-fatal	Fatal	Non-fatal	Fatal	Non-fatal	Fatal	Non-fatal	Fatal	Non-fatal
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Andhra Pradesh	9	7	..	..	32	38	..	..	53	50	..	..	94	95
2	Assam ..	..	..	..	..	..	..	..	..	6	1	..	..	6	1
3	Bihar ..	2	4	..	2	11	15	..	..	5	9	..	..	18	30
4	Gujarat ..	1	1	..	3	6	4	..	..	5	15	..	4	12	27
5	Jammu and Kashmir	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	Kerala ..	2	4	..	..	12	21	..	..	36	41	..	..	50	66
7	Madhya Pradesh	9	9	..	11	32	36	..	1	53	50	..	2	94	109
8	Madras ..	3	28	..	..	47	97	..	..	128	168	..	..	178	293
9	Maharashtra	7	12	..	8	2	8	..	..	15	28	..	2	24	58
10	Mysore ..	3	1	..	1	11	6	..	2	24	31	..	..	38	41
11	Orissa ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	Punjab ..	13	23	..	..	8	5	..	..	43	38	..	..	64	66
13	Rajasthan ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	Uttar Pradesh	7	9	..	2	24	28	1	..	80	71	..	3	112	113
15	West Bengal	2	2	..	25	..	1	..	..	10	35	..	20	12	83
16	Union Territories	..	..	..	..	..	..	..	..	10	26	..	..	10	26
	Mines ..	1	..	..	..	..	5	..	..	13	17	..	..	14	22
	Railways ..	..	2	..	..	1	5	..	..	15	22	..	..	16	29
	GRAND TOTAL ..	59	102	..	52	186	269	1	3	496	602	..	31	742	1,059

SECTION 6
FINANCIAL DATA OF PUBLIC ELECTRICITY
SUPPLY UNDERTAKINGS

STATEMENT OF CAPITAL OUTLAY (*i.e.*) ORIGINAL COST OF PLANT, EQUIPMENT ETC. ON ELECTRICITY SUPPLY SYSTEMS AND UNDERTAKINGS OWNED AND OPERATED BY STATE GOVERNMENT DEPARTMENTS, STATE ELECTRICITY BOARDS, POWER CORPORATION AND LOCAL AUTHORITIES IN THE PUBLIC SECTOR AND COMPANIES, PARTNERSHIPS ETC., IN THE PRIVATE SECTOR AS ON 31ST MARCH 1962 (GROUPED STATEWISE).

TABLE XLIX—CAPITAL EXPENDITURE

(Figures represent Rs. in lakhs)

Serial No.	States and Union Territories	STATE OWNED				Private		Total	
		Government and Boards		Municipalities		Companies		1960-61	1961-62
		1960-61	1961-62	1960-61	1961-62	1960-61	1961-62		
1	2	3	4	5	6	7	8	9	10
1	Andhra Pradesh ..	3,606	4,302	13	..	12	..	3,631	4,302
2	Assam	450	562	..	..	84	94	534	656
3	Bihar	2,854	3,463	..	..	434	465	3,288	3,928
4	Gujarat	2,709	3,206	97	98	2,199	2,511	5,005	5,815
5	Jammu & Kashmir ..	..	..	..	..	..	..	..	..
6	Kerala	3,531	3,679	20	21	88	93	3,639	3,793
7	Madhya Pradesh ..	2,670	3,133	..	..	219	224	2,889	3,357
8	Madras	10,206	12,515	111	114	504	569	10,821	13,198
9	Maharashtra ..	2,686	3,548	2,624	2,829	5,349	5,614	10,659	11,991
10	Mysore	3,911	4,301	..	..	102	109	3,913	4,410
11	Orissa	1,190	1,265	..	..	70	6	1,260	1,271
12	Punjab	7,255	10,153	91	85	140	150	7,486	10,388
13	Rajasthan ..	408	730	..	..	135	86	543	816
14	Uttar Pradesh ..	7,317	8,925	189	195	1,272	1,327	8,778	10,447
15	West Bengal ..	896	1,163	19	24	5,384	5,557	6,299	6,744
16	Damodar Valley Corporation ..	5,368	8,365	..	..	..	..	5,368	8,365
17	<i>Union Territories.</i>								
	(a) Delhi .. ..	..	..	1,446	1,691	12	..	1,458	1,691
	(b) Rest	308	336	..	..	4	18	312	354
	<i>Total</i>	55,265	69,646	4,610	5,057	16,008	16,823	75,883	91,526

NOTE : Data from Jammu and Kashmir not received.

TABLE L

- (a) Consolidated Capital Account, 1961-62
- (b) Consolidated Revenue Account, 1961-62
- (c) Consolidated Net Revenue and Appropriation Account, 1961-62
- (d) Consolidated Balance Sheet, 1961-62

1	2	3	4	5	6	7	8	9	10	11	12
	1. TO GENERATION ASSETS—						1. BY CAPITAL RAISED—				
	(a) Steam Power Stations—						(a) Invested by States—				
G 9,912	(i) Land	347	5	92	444	G 58,098	(i) Government Under-takings.	74,182	..	..
M 379	(ii) Buildings	1,246	7	733	1,986	M 2,559	(ii) Municipal Undertakings.	..	2,972	..	
C 5,082	(iii) Boilers, Turbines etc.	10,634	379	4,330	15,343		(iii) Other grants and advances.	..	..	..
	(iv) Other equipments ..	268	..	161	429	60,655	Group Totals ..	74,182	2,972	..	77,154
15,373	Group Total ..	12,495	391	5,316	18,202	Co.	(b) Invested by Private Sector—				
	(b) Oil Power Stations—						(i) Ordinary Share Capital.	..	..	3,864	
G 1,744	(i) Land	9	1	6	16	O 3,903	(ii) Preference Share Capital.	..	..	679	
M 173	(ii) Buildings	104	8	58	170	P 882	(iii) Debentures ..	..	..	1,290	
C 482	(iii) Engines, Generators etc.	932	179	397	1,508	D 2,941	(iv) Other secured loan capital.	..	..	1,850	7,683
	(iv) Other equipments ..	5	..	1	6	7,526					
2,399	Group Total ..	1,050	188	462	1,700	G 566					
	(c) Hydro Power Stations—					M ..					
G 17,434	(i) Land	415	1	72	488	C 161	2. BY CAPITAL RESERVE	..	239	166	405
						G 158					

G	10,844	(a) Cables and mains ..	10,844	1,182	2,322	12,348
M	2,387	(b) Sub-Stations, Trans- formers.	4,949	551	1,773	7,273
C	6,713	(c) Service Lines ..	1,568	440	1,514	3,522
		(d) Public Lighting ..	677	53	202	932
		(e) Meters, testing instru- ments etc.	2,001	415	909	3,325
	25,944	Group Total ..	19,544	2,643	7,220	29,407
		4. TO GENERAL ASSETS—				
G	2,111	(a) Land, Buildings and Structures etc.	354	195	246	795
M	269	(b) Office Furniture and Miscellaneous Equipment.	2,247	64	144	2,455
C	543	(c) Workshop Plant and Equipment, Tools and Implements.	881	20	71	972
		(d) Transportation and Communication.	581	17	97	695
	2,923	Group Total ..	4,063	296	558	4,197
G	739					
	1					
	140					
	880	5. TO INTANGIBLE ASSETS—	396	17	158	571
M	1,325	6. TO SPECIAL ITEMS— (Tramways in the case of		1,400		1,400

TO OPERATING EXPENSES—										BY OPERATING REVENUES									
1. GENERATION—										1. SALE OF ELECTRICITY—									
G	1,291									G	2,387								
M	120									M	668								
C	1,260	2,67	(a) (i) Coal	1,454	127	1,377	2,958			C	1,470	4,525	(i) Domestic and Residential.	1,957	537	1,354	3,848		
G	148																		
M	48																		
C	155	351	(ii) Oil	200	48	148	396						(ii) Commercial	521	313	451	1,285		
G	69																		
M	8									G	3,140								
C	31	103	(iii) Consumable Stores ..	72	9	56	137			M	465								
G	412									C	2,751	6,356	(iii) Industrial	3,872	346	2,659	6,877		
M	15									G	281								
C	143	570	(b) Salaries and Wages ..	425	17	147	589			M	31								
G	425									C	113	425	(iv) Public Water Works and Sewage Pumping.	34	49	117	200		
M	8												(v) Traction	19	3	24	46		
C	174	607	(c) Repairs and Maintenance.	432	10	171	613						(vi) Public Lighting Maintenance.	303	45	106	454		
G	343																		
M	493									G	483								
C	916	1,752	(d) Purchase of Energy ..	952	533	1,105	2,590			M	7								
G	59									C	31	521	(vi) Irrigation	661	7	32	700		
M	2																		
C	22	83	2. TRANSMISSION—							G	1,201								
G	33									M	93								
M	..									C	540	1,834	(viii) Supplies in Bulk to Distributing Licensees.	1,764	99	605	2,468		
C	11	44	(a) Salaries and Wages ..	110	3	23	136			G	104								
G	33									M	39								
M	..									C	68	211	2. METER AND OTHER RENTALS	108	39	72	219		
C	11	44	(b) Repairs and Maintenance	72	..	12	84			G	5								
G	33																		
M	..																		
C	11	44	3. DISTRIBUTION—																

G	44		(Billing accounting etc.)				
M	29						
C	155	428	(a) Salaries and Wages ..	65	6	19	90
G	51						
M	24						
C	71	146	(b) Other Expenses ..	7	46	124	177
			5. GENERAL ESTABLISHMENT CHARGES—				
			(a) Salaries and Wages ..	162	9	126	297
			(b) Other Expenses (including Provident Fund etc.).	516	112	253	881
G	419						
M	133						
C	355	907	6. MANAGEMENT EXPENSES—				
			(a) Director's Fees and expenses.	..	..	9	9
			(b) Managing Agents Ordinary Remuneration and Office Allowance.	..	..	71	71
			7. ADMINISTRATION—				
			Members Remuneration and Other Expenses (L.A.).	..	65	..	65
G	1,191						
M	81						
C	424	1,696	8. DEPRECIATION ..	1,302	84	463	1,849
G	5,429						
M	1,063						
C	4,058	1,550	TOTAL OPERATING EXPEN-	8,606	1,177	4,470	12,253

										Electricity Boards				
		To Appropriation (Applicable to local authority Licences only).						G 2,603 M 272 C 1,905		By Balance Brought forward	3,403	303	1,103	4,809
									3,880	Revenue Account				
	78	(a) Interest on loan Capital	..	84	..	84								
	12	(b) Instalment of redemption of loan capital.	..	12	..	12	G 60 M 12 C 35							
	53	(e) General rates .. ..	..	82	..	82								
G 11 M 4 C 235									107	By interest on Securities and Investment.	65	8	28	101
	250	To taxes on income and profits.	..	2	298	300	G 156 M 2 C 73		231	By other receipt (non operating) *e.g., rents, less outgoing not otherwise provided for transfer fee etc.	..	..	..	..
G 9 M 4 C 53	9	To instalment of write down in respect of intangible assets.	80	..	11	91	M -34	-34		By deficit on incidental business (Tramways and Omnibuses of Bombay Municipality).	..	(-28)	..	(-28)
	57	To Contribution towards contingencies Reserve.	..	5	54	59	M 73			By balance of profit brought forward from previous year.	..	93	34	127
M 15 C 74	89	To Development Reserve ..	..	7	74	81	C 5		78					
G 18	18	To Appropriation to Tariffs and Dividend Control Reserve.	..	5	11	16	G 1,360		1,360	By balance carried over to General Balance Sheet.	1,355	..	..	1,355
M 5 C 12	17	To Appropriation to Consumers rebate Reserve.	..	4	10	14								
G 368 M ..														

			Loans, advances deposits, bank over drafts etc.										
G	38	38	(e) Dividends on Preference Share Capital.	..	..	37	37						
C	296	296	(f) Dividends on Ordinary Share Capital.	..	..	301	301						
G	1,572	1,572	To balance of loss brought for- ward.	1,306	..	..	1,306						
M	102		To balance carried over to	..	93	29	122						
C	26	128	General Balance Sheet.										
				4,823	376	1,165	6,364	G	4,823				
G	4,179							M	376	4,823	376	1,165	6,364
M	325							C	1,165				
C	1,118	5,622							6,364				

*Included in Miscellaneous Receipts—Table XLX(b).

		Boards						Boards			
70,098	Fixed Capital raised and appropriated as per the Capital Account.	74,499	3,423	8,832	86,754	75,883	Capital Expenditure on works as per the Capital Accounts.	69,646	5,057	16,823	91,526
1,374	Capita Redemption Sinking Fund etc. Reserves.	220	1,150	365	1,735	12,024	<i>Less</i>				
	<i>Reserve and Surplus</i>						Accumulated Provisions for Depreciations ..	7,371	1,209	5,337	13,917
						63,859	<i>Net Block</i>	62,275	3,848	11,486	77,609
6,260	Non-Statutory Reserve ..	1,457	601	1,612	3,670		Balance of written down cost of obsolete, inadequate assets.	15	1	23	39
	Special appropriation (as permitted by State Government)	..	7	40	47		<i>Current Assets</i>				
344	Contingencies Reserve Fund ..	..	36	353	389	9,890	Capital Works in Progress ..	6,609	224	361	7,194
66	Tariffs and Dividends Control Reserve.	..	2	48	50		Stores and Materials in Hand—				
						770	(a) Fuel Coal and Or Oil at Cost.	699	15	121	835
138	Consumer's Rebate Reserve ..	..	2	117	119		(b) General Stores at or below Cost.	6,154	464	791	7,409
436	Development Reserve ..	..	154	360	514	6,953	Sundry debtors for Electricity Supplied.	1,845	276	679	2,800
128	Balance of net revenue and appropriation account.	..	93	29	122	2,063	Other debtors	2,330	69	223	2,622
	<i>Current Liabilities and Provisions—</i>					1,276	Accounts receivable ..	1,702	138	85	1,925
9,038	Creditors on open account ..	3,645	309	603	4,557	1,990	Investment in Statutory Securities at Cost.				
4,427	Consumer's Security Deposits	2,817	182	631	3,000		(a) Contingencies Reserve Fund investment (Market value on closing date).	..	3	329	332
1,341	Accounts Payable	5,308	364	1,221	6,890						
	Balance due on construction of plant and machinery.	69	..	55	124	293					

					143	Cash in Hand	159	47	37	243
						<i>Debit Balances</i>				
					106	Deferred Payment	96	8	14	118
					1,360	Debit Balance of net revenue and appropriation accounts.	1,355	..	..	1,355
96,115		88,385	6,323	14,780	1,09,488		88,385	6,323	14,780	1,09,488

Some important financial features for the year 1957-58 to 1961-62 are given in this table.

TABLE LI—FINANCIAL DATA OF THE PUBLIC ELECTRICITY SUPPLY INDUSTRY 1958 TO 1962

	Units	1958	1959	1960	1961	1962
A. INSTALLED CAPACITY ..	kW	3,323,111	3,511,586	3,873,166	4,579,051	5,201,883
(a) Generation	Rs.	764	905	892	803	836
(b) Transmission, Distribution etc. ..	Rs.	781	925	917	826	896
	Rs.	1,545	1,830	1,809	1,629	1,732
B. NUMBER OF CONSUMERS ..	No.	3,207,508	3,617,849	4,029,740	4,729,163	5,368,431
Average Capital Outlay per Consumer						
(a) Generation	Rs.	768	878	857	777	810
(b) Transmission, Distribution etc.	Rs.	785	898	881	799	869
	Rs.	1,553	1,776	1,738	1,576	1,679
C. MAXIMUM DEMAND	kW	2,288,212	2,542,955	2,931,360	3,545,930	3,971,206
Average Capital Outlay on Trans- mission, Distribution etc., per kW of Maximum Demand.	Rs.	1,100	1,277	1,211	1,066	1,174
D. TOTAL CAPITAL OUTLAY—						
(a) On Electrical Works	Rs. (Crores)	498	643	700	746	901
(b) Non-Electrical Works like Tram- way and Omnibus.	Rs. (Crores)	11	12	13	13	14
	Rs. (Crores)	509	655	713	759	915

	1958		1959		1960		1961		1962	
	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
SEGREGATION—										
Public Sector	374.10	73	512.81	78	566.26	79	598.75	79	747.03	82
Private Sector	135.18	27	142.05	22	146.97	21	160.08	21	168.23	18
	509.28	100	654.86	100	713.23	100	758.83	100	915.26	100
Additions during the Year ..	..	..	145.58	..	58.37	..	45.60	..	156.43	..
SEGREGATION										
(a) Public Sector	*	..	138.71	95	53.45	92	32.49	71	148.28	95
(b) Private Sector .. .. .	..	..	6.87	5	4.92	8	13.11	29	8.15	5
	..	..	145.58	100	58.37	100	45.60	100	156.43	100

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

SECTION 7

ADDRESSES OF PUBLIC ELECTRICITY SUPPLY
UNDERTAKINGS & SYSTEM OF SUPPLY
AS AT 31-3-1963

ANDHRA PRADESH

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
BOARD				
1	Andhra Pradesh State Electricity Board.			
	(a) <i>Hydro Electric Power Stations</i>			
	Machkund		132,000	3 ph. A.C. 50 cy
	Tungabhadra Dam		11,000	3 ph. A.C. 50 cy
	Hampi		6,600	3 ph. A.C. 50 cy
	Nizamsagar		3,300	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
	(b) <i>Thermal Power Stations</i>		230	1 ph. A.C. 50 cy
	Visakhapatnam			
	Vijayawada			
	Nellore			
	Hussainsagar			
	Ramagundam			
	(c) <i>Diesel Stations</i>			
	(ANDHRA REGION)			
	Pathapatnam			
	Araku			
	Badhrachalam			
	Venkatapuram			
	Rampachodavaram			
	Addatheegala			
	Chintalapudi			
	Kanigiri			
	Atmakur			
	Udayagiri			
	Kalyandurg			
	Badvel			
	Pulivendla			
	Markapur			
	Giddalur			
	Cumbum			
	Srisaillam			
	(TELANGANA REGION)			
	Narsapur			
	Ibrahimpattam			
	Pochampalli			
	Gajwel			
	Kalwakurthi			
	Wanaparthy			
	Achampet			
	Kolhapur			
	Makthal			
	Atmakur			
	Wanaparthy Road			
	Gadwal			
	Ieez			
	G.T.S. Mahboobnagar			
	Kosgi			
	Kodangal			
	Husnabad			
		The Chief Engineer, Electricity, Andhra Pradesh Electricity Board, opposite Bella Vista, P.O. Hyderabad-4.		

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.				
(TELANGANA REGION)				
<i>—contd.</i>				
	Pargi Tandur Surajkhanpet Dharampuri Metpalli Chinnoor Sirpur Tandur Mulug Khammameth Ashwaraopet Burghampad Mahboobabad Sultampur Palvancha Devarkonda Ramannapet Nizamabad C.D.S. Adilabad Utnoor Boath Ichoda Nirmal Madhole Rampur	The Chief engineer, Electricity, Andhra Pradesh Electricity Board, opposite Bella Vista, P. O. Hyderabad-4.		
ASSAM				
BOARD				
1-1	Gauhati Electrical Division Gauhati		11,000 3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-2	Jorhat Electrical Division Dergaon Golaghat Jorhat North Lakhimpur Sibsagar Titabar	The Commercial Officer, Assam State Electricity Board, Uzan Bazar, Gauhati.	400 230 440 220	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire

ASSAM—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	Nalbari Electrical Division		400	3 ph. A.C. 50 cy	
	Abbeyapuri		230	1 ph. A.C. 50 cy	
	Nalbari				
	Mangaldai				
	Sualkuchi				
	Goalpara				
	Kokrajhar				
	Tura				
1-4	Nowgong Electrical Division			400	3 ph. A.C. 50 cy
	Aijal			230	1 ph. A.C. 50 cy
	Diphu				
	Hailakandi				
	Hojai				
	Karimganj				
	Nowgong				
1-5	Tezpur Electrical Division	The Commercial Officer, Assam State Electricity Board, Uzan Bazar, Gauhati.			
	Charali		400	3 ph. A.C. 50 cy	
	Dhekiajuli		230	1 ph. A.C. 50 cy	
	Tezpur				
1-6	Umtru Electrical Division		6,000	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
	Umtru		400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-7	Umain Generation Division II		400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
	Barapani				
	Jowai				
	Umain Project				
COMPANIES					
2	Barpeta Mouza	The Barpeta Mouza Co-operative Electricity Supply Co., P. O. Barpeta, District Kamrup.	400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
3	Dibrugarh	The Dibrugarh Electric Supply Co., Private Ltd., P.O. Rehabari. Post Box No. 9, Dibrugarh.	440	D.C. 3 Wire	
			220	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	3 ph. A.C. 50 cy	
			230	3 ph. A.C. 50 cy	
5	Shillong	The Shillong Hydro Electric Ltd., M/A. Development of Industries (India) Private Ltd., 135, Prinsep Street, Calcutta-13.	400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
6	Silchar	The Silchar Electric Supply Ltd., M/A. M/S. Sarada Charan Barda Kanta Roy, Silchar.	440	D.C. 3 Wire	
			220	D.C. 2 Wire	
7	Tinsukia	The Tinsukia Electric Supply Co. Ltd., P.O. Senairam Bazar, Tinsukia.	400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	

BIHAR

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
BOARD				
1-1	Aurangabad Division	The Chief Electrical Engineer, Bihar State Electricity Board, Patna.	400	3 ph. A.C. 50 cy
	Daltonganj		230	1 ph. A.C. 50 cy
1-2	Arrah Division		400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
			460	D.C. 3 Wire
			230	D.C. 2 Wire
1-3	Bettiah Division		400	3 ph. A.C. 50 cy
	Bettiah		230	1 ph. A.C. 50 cy
	Barigania			
	Chakia			
	Sitamarhi			
1-4	Bihar Shariff Division		11,000	3 ph. A.C. 50 cy
		400	3 ph. A.C. 50 cy	
		230	1 ph. A.C. 50 cy	
1-5	Chapra Division	11,000	3 ph. A.C. 50 cy	
	Chapra	400	3 ph. A.C. 50 cy	
	Mirganj	230	1 ph. A.C. 50 cy	
1-6	Dhanbad Division	11,000	3 ph. A.C. 50 cy	
		400	3 ph. A.C. 50 cy	
		230	1 ph. A.C. 50 cy	
1-7	Dehri-on-Sone Division	3,300	3 ph. A.C. 50 cy	
		400	3 ph. A.C. 50 cy	
		230	1 ph. A.C. 50 cy	
1-8	Deogarh Division	400	3 ph. A.C. 50 cy	
		230	1 ph. A.C. 50 cy	
1-9	Gaya Division	2,200	3 ph. A.C. 50 cy	
		400	3 ph. A.C. 50 cy	
		230	1 ph. A.C. 50 cy	
		440	D.C. 3 Wire	
		220	D.C. 2 Wire	
1-10	Gomia Division	2,200	3 ph. A.C. 50 cy	
		400	3 ph. A.C. 50 cy	
		230	1 ph. A.C. 50 cy	
		440	D.C. 3 Wire	
		220	D.C. 2 Wire	
1-11	Hazaribagh Division	11,000	3 ph. A.C. 50 cy	
		6,600	3 ph. A.C. 50 cy	
		400	3 ph. A.C. 50 cy	
		230	1 ph. A.C. 50 cy	
	Katihar Division	400	3 ph. A.C. 50 cy	
1-12	Begusarai	230	1 ph. A.C. 50 cy	
	Forbesganj			
	Katihar			
	Krishanganj			
	Saharsa			

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—concltd.				
1-13	Kodarma Division	The Chief Electrical Engineer, Bihar State Electricity Board, Patna.	11,000	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-14	Monghyr Division		400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
			460	D.C. 3 Wire
			230	D.C. 2 Wire
1-15	Muzaffarpore Division		3,300	3 ph. A.C. 50 cy
	Madhubani (Sakri)		400	3 ph. A.C. 50 cy
	Samastipur		230	1 ph. A.C. 50 cy
	Hajipur		460	D.C. 3 Wire
			230	D.C. 2 Wire
			440	D.C. 3 Wire
			220	D.C. 2 Wire
1-16	Patna Division		400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-17	Pakur Division Sahibgunj			
1-18	Ranchi Division Netarhat Simdega Gumla		400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-19	Singhbhum Division	400	3 ph. A.C. 50 cy	
		230	1 ph. A.C. 50 cy	
POWER CORPORATION				
2	Damodar Valley Corpora- tion Bokaro Tilaiya Panchet Hill	The Chief Electrical Engineer, Damodar Valley Corporation, Anderson House, Alipore, Calcutta 27.	33,000	3 ph. A.C. 50 cy
			11,000	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
COMPANIES				
3	Bhagalpur	The Bhagalpur Electric Supply Co., M/A. M/S. Octavious Steel & Co. Ltd., 14, Old Court House Street, Calcutta-1.	3,300	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
4	Chaibasa	The Chaibasa Electric Supply Co., C/O M/S. Madan Gopal, Chaibasa.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
5	Chirkunda	The Chirkunda Electricity Supply Co., P. O. Barakar, District Burdwan.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
6	Darbhanga Laherisarai	The Darbhanga Laherisarai Electric Supply, Cor- poration Ltd., M/A. M/S. Baroliya Bros., Darbhanga.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
7	Jharia Coal Field	The Jharia Coal Field Electric Supply Co. Private Ltd., P.B. No. 16, Dhanbad.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
			440	D.C. 3 Wire
			220	D.C. 2 Wire
8	Jugsalai	The Jugsalai Electric Supply Co., C/O M/S. Mangilal Rungta, Jutsalai (Tatanagar) B.N. Rly.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy

BIHAR—concl'd.

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

GUJARAT—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
BOARD—contd.				
1-5	Kutch Division Bhuj Mandvi Mundra Nakhatrana Kothara Kandla Rahpara		400 230 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 2 Wire
1-6	Nanded Division North Gujarat Grid		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-7	Palitana Division Botad Gadhada Luthi Mahuva Palitana Rajula Vallabhipur Savarkundla		400 230	1 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-8	Porbander Division Port Okha Porbander Dwarka		11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-9	Rajkot Division Gondal Jasdan Kotda Sangni Morvi Rajkot Virupur	The Chief Engineer, The Gujarat Electricity Board, Race Course, Baroda-1.	400 230 460 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 3 Wire
1-10	Surendranagar Division Chotila Dharangadhra Halwad Lakhtar Sayala Surendranagar		400 230 460 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
1-11	Shahpur Power House Division Shahpur		6,600	3 ph. A.C. 50 cy
1-12	Sabarmati Division Ambaji Deesa Dhandhuka Modasa Rad anpur		400 230 440 220	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
1-13	Sikka Power House Division Sikka		11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

GUJARAT—*contd.*

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
BOARD—<i>concl.</i>				
1-14	Utran Power House Division (South Gujarat Grid) Utran Buher	The Chief Engineer, The Gujarat Electricity Board, Race Course, Baroda-1.	22,000	3 ph. A.C. 50 cy
			11,000	3 ph. A.C. 50 cy
			3,300	3 ph. A.C. 50 cy
1-15	Amreli Thangadh		400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-16	Ahmedabad Circle		400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-17	Utran transmission and distribution division.		22,000	3 ph. A.C. 50 cy
			11,000	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
1-18	Navsari organisation and Method division. Navsari. Bulsar Gandevi Bilimora		230	1 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
MUNICIPALITIES				
2	Baroda	The Electrical Engineer, Department of Electricity, Baroda Borough Municipality, Post Box No. 17, Baroda-1.	3,300	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
3	Bhadran	The President, Bhadran Municipality, Bhadran	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
4	Karjan	The President, Karjan Municipality, Karjan	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
5	Muli	The President, Muli Municipality, Muli	230	D.C. 2 Wire
6	Nar Gram Panchayat	The Electrical Engineer, Nar Gram Panchayat, Nar (via Anand).	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
7	Palanpur (Iqbal)	The Electrical Engineer, The Iqbal Electric Supply, Municipal Power House, Palanpur.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
8	Patan	The Electrical Engineer, Patan Municipality, Patan	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
9	Petlad	The Electrical Engineer, Petlad Municipality, Petlad	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
10	Sojitra	The President, Sojitra Nagar Panchayat, Sojitra	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
11	Sankheda	The Sankheda Municipal Electric Power House, Sankheda.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
12	Vadnagar	The Chief Officer, Electricity Department, Vadnagar Municipality, Vadnagar.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
13	Visnagar	The Chief Officer, Visnagar Municipality, Visnagar	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
14	Vanthali	The President, Vanthali Municipality, Vanthali	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy

GUJARAT—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
COMPANIES				
15	Ahmedabad	The Ahmedabad Electricity Co. Ltd., M/A. M/S. Killick Industries Ltd., Electricity House, Lal Darwaja, Ahmedabad-1.	11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
16	Anand	The Anand Electric Supply Co. Ltd., M/S. Sonawala Co. Ltd., Sonawala Buildings, 459, Apollo Street, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
17	Bajana	Shri Babu Lal Valji, Proprietor, Bajana Power House, Via Patri.	230	D.C. 2 Wire
18	Bardoli	Shree Sardar Kheti Sahayak Sahakari Vidyut Mandal Ltd., Bardoli (District Surat).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
19	Bulsar	The Amalgamated Electricity Co. Ltd., (Bulsar Branch) M.A. M/S. N. C. Javeri & Co., Post Box No. 879, 17-B, Horniman Circle, Bombay-1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
20	Bilkha	M/S Unity Power House, Bilkha	230	D.C. 2 Wire
21	Bilimora	The Bilimora Electric Power Supply Co. Ltd., Bilimora	460 230	D.C. 3 Wire D.C. 2 Wire
22	Bhavnagar	The Bhavnagar Electricity Co. Ltd., P.O. Box No. 45, Bhavnagar.	11,500 3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
23	Broach	The Broach Electric Supply and Development Corporation Ltd., M/S. The Rajputana Textile (Agencies) Private Ltd., Esplanade Mansions, 144-148, Mahatma Gandhi Road, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
24	Cambay	The Cambay Electric Supply & Industrial Co. Ltd., M/A. M/S. A.A. Meeyajee & Co., Private Ltd., Power House, Bombay.	400 230 460 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
25	Dabhoi	The Dalboi Electric Supply Co., C/O Seth-Girdhari Lal Moti Lal Contractor, Dabhoi, District Baroda.	400 220	D.C. 3 Wire D.C. 2 Wire
26	Dakor Umreth	The Dakor-Umreth Electricity Co. Ltd., Dakor	440 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
27	Dohad	The Amalgamated Electricity Co. Ltd., (Dohad Branch) M/A. M/S. N.C. Javeri & Co., Post Box No. 879, 17-B, Horniman Circle, Bombay-1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
28	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
29	Gandhidham	The Sindhu Resettlement Corporation Ltd., Power Supply Department, Adipur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
30	Jetpur	The Jetpur Electric Supply Co. Ltd., Jetpur	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
31	Jambusar	The Jambusar Electric Supply Co. Ltd., Sarodi Bhagal, Jambusar (District Broach).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

GUJARAT—*concl'd.*

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
COMPANIES— <i>concl'd.</i>				
32	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
33	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
34	Kalol	The Kalol Electric Supply and Industrial Co. Ltd., Power House, Kalol (North Gujarat).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
35	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
36	Kholvad	The Kholvad Electric Supply Corporation, Kholvad (District Surat).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
37	Limbdi	The Limbdi Electric Supply Co. M/A. M/S. Amulakh Amichand & Co., Limbdi.	460 230	D.C. 3 Wire D.C. 2 Wire
38	Lunawada	Lunawada Electric Supply Cooperative Society Ltd., Lunawada.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
39	Nadiad	The Nadiad Electric Supply Co. Ltd., M/A. M/S. Sonawala Co. Ltd., Sonawala Buildings, 59, Appollo Street, Bombay-1.	460 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
40	Navsari	The Navsari Electric Supply Co. Ltd., M/A. M/S. Ardeshir Modi and Co., Navsari.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
41	Rander	The Rander Electric Supply Co. Ltd., M/A. M/S. Sunderrao Moreshwar Co., Lal Baug, Rander, District Surat.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
42	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
43	Sidhpur	The Sidhpur Electric Industrial Co. Ltd., Near Station, Sidhpur (District Mehsana).	440 220	D.C. 3 Wire D.C. 2 Wire
44	Sihor	The Sihor Electric Works Ltd; The Tapi Electric Supply & Industrial Co., Sihor.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
45	Surat	The Surat Electricity Co. Ltd., Central Administration Department, M/A. M/S. Killick Industries Ltd., 5 Graham Road (4th floor), Ballard Estate, (P.O. Box No. 199), Bombay-1.	3,300 400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy 1 ph. A.C. 50 cy
46	Tapi	The Tapi Electric Supply and Industries Ltd. (in liquidation), Kathor (Via Sawan).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
47	Udwada	The Udwada Vapi Electric Supply Co. Ltd., M/A. M/S. Raiyamand Engineering Co., Electric House, Ganchalla Post, Vapi, District Surat.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
48	Vapi	The Udwada Vapi Electric Supply Co. Ltd., M/A. M/S. Raiyamand Engineering Co., Electric House, Ganchalla Post, Vapi, District Surat.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
49	Vallabh-Vidyanagar	M/S. Charotar Gramodhar-Sahakari Mandal Ltd. Vallabh Vidyanagar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

GUJARAT—concl'd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
COMPANIES—concl'd.				
50	Viramgam	The Viramgam Electric Supply Co. Ltd., M/A. M/S. Saifee & Co., Mandal Road, Viramgam.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
51	Vyara-Kanpura	The Vyara Kanpura Electric Supply Co-operative Society Ltd., Vyara, District-Surat.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
52	Wankaner	The Wankaner Electric Supply Co., M/A. M/S. Survaiya & Co., Wankaner.	460 230	D.C. 3 Wire D.C. 2 Wire
JAMMU & KASHMIR				
1-1	Jammu Electric Division Basohli Jammu Kathua Samba Miran-Shahib	The Chief Engineer, Electrical and 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 Anantnag Ganderbal Kupwara Dharphama		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-3	Srinagar Division Bandipore Pahalgaoon Srinagar		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-4	Mohera Division Baramula Mohora		2,300 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-5	Ramnagar		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-6	Poonch		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.
BOARD				
1-1	Kerala State Electricity Board Pallivasal Sengulam Poringalkuthu Neriamangalam Ulloor Vellayambalam	The Chief Engineer, Kerala State Electricity Board P.O. Box No. 65, Trivandrum.	66,000	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
			22,000	
			11,000	
			2,300	
			400	
			230	
1-2	Port of Cochin		400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
			440	D.C. 3 Wire
			220	D.C. 2 Wire
MUNICIPALITY				
2	Trichur	The Commissioner, Trichur Municipality, Trichur . .	11,000	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
COMPANIES				
3	Calicut (Kozhikode)	The West Coast Electric Supply Corporation Ltd., Calicut Branch) M/A. M/S. Chandrie & Co., P.B. No. 156, National Insurance Building, Esplanade, Madras-1.	11,000	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
4	Chennamangalam	The Channamangalam Electrical Distribution, Cheenamangalam.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
5	Ernakulam	The Cochin State Power and Light Corporation Ltd., M/A. M/S. Chandrie & Co. (Private) Ltd., P.O. Box No. 156, National Insurance Building Esplanade, Madras-1.	11,000	3 ph. A.C. 50 cy
			6,600	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
6	Kottayam	The Kottayam Electric Supply Agency, C/O M/S. Narayan Moos, Kottayam.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
7	Kannan Dewan Hills	The Kannan Dewan Hills Produce Co. Ltd., Head- quarters Office, Munnar.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
8	Mattencherry	The Cochin Electric Co. Private Ltd., Mattencherry	3,300	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
MADHYA PRADESH				
BOARD				
1-1	Bhilai Division Bhilai	The Chief Engineer, Madhya Pradesh Electricity Board, P.O. Box No. 34, Rampur, Jabalpur	11,000	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-2	Bhopal Division Bhopal Bareilly Begumganj		3,000	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	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.
<i>BOARD—contd.</i>				
1-3	Bilaspur Division Ambikapur Baikunthpur Dharamjaigarh Jashpur Pendar Road Raigarh Sarangarh	The Chief Engineer, Madhya Pradesh Electricity Board, P.O. Box No. 34, Rampur, Jabalpur.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
			440	D.C. 3 Wire
			220	D.C. 2 Wire
1-4	Chambal Hydel Division (Gandhi Sagar Power House)	The Superintending Engineer (Electrical), Chambal Hydel & Irrigation Scheme, Madhya Pradesh Electricity Board, P.O. Chambal Hydel Works, via Jhalwar Road Rly. Station, (Western Rly).	132,000	3 ph. A.C. 50 cy
			11,000	3 ph. A.C. 50 cy
1-5	Chhindwara Division		11,000	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-6	Dhar Division Khargone Sanawad Jhabua Sendhwa Barwani Dhar Maheshwar		400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-7	Gwalior Division Bhind Datia Gwalior Sheopur		400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
			440	D.C. 2 Wire
			220	D.C. 2 Wire
1-8	Guna Division Ashoknagar Basoda Biaora Chanderi Guna Kurwai Mungaoli Narsingarh Rajgarh Shivpuri Sirong	The Chief Engineer, Madhya Pradesh Electricity Board, P.O. Box No. 34, Rampur, Jabalpur.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
			230	D.C. 2 Wire
1-9	(a) Indore Division Mhow		22,000	3 ph. A.C. 50 cy
			11,000	3 ph. A.C. 50 cy
			6,600	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
	(b) Power House Division, Indore		230	1 ph. A.C. 50 cy
	Indore		460	D.C. 3 Wire
		230	D.C. 2 Wire	

MADHYA PRADESH—concl'd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply		
			Voltage	A.C. or D.C. Phases frequency etc.	
BOARD—concl'd.					
1-10	Jabalpur Division	The Chief Engineer, Madhya Pradesh Electricity Board, P.O. Box No. 34, Rampur Jabalpur.	11,000	3 ph. A.C. 30 cy	
	Amarkantak		400	3 ph. A.C. 50 cy	
	Gotegaon		230	1 ph. A.C. 50 cy	
	Kareli		460	D.C. 3 Wire	
	Mandla		230	D.C. 2 Wire	
	Shahdol				
	Umaria				
1-11	Korba Division			11,000	3 ph. A.C. 50 cy
	Korba			300	3 ph. A.C. 50 cy
				400	3 ph. A.C. 50 cy
				230	1 ph. A.C. 50 cy
1-12	Chandni Power House Division Chandni			11,000	3 ph. A.C. 50 cy
				6,600	3 ph. A.C. 50 cy
				400	3 ph. A.C. 50 cy
				230	1 ph. A.C. 50 cy
1-13	Raipur Division			11,000	3 ph. A.C. 50 cy
	Jagdapur			400	3 ph. A.C. 50 cy
	Kanker		230	1 ph. A.C. 50 cy	
	Raipur		440	D.C. 3 Wire	
			220	D.C. 2 Wire	
1-14	Satna Division		400	3 ph. A.C. 50 cy	
	Ajaigarh		230	1 ph. A.C. 50 cy	
	Panna		440	D.C. 3 Wire	
	Sidhi		220	D.C. 2 Wire	
	Satna				
1-15	Sagar Division		400	3 ph. A.C. 50 cy	
	Bina		230	1 ph. A.C. 50 cy	
	Bijawar		220	D.C. 2 Wire	
	Chattarpur				
	Damoh				
	Khajarahi				
	Tikamgarh				
1-16	Ujjain Division		11,000	3 ph. A.C. 50 cy	
	Barnagar		400	3 ph. A.C. 50 cy	
	Shujalpur		230	1 ph. A.C. 50 cy	
1-17	Itarsi Division		400	3 ph. A.C. 50 cy	
	Burhanpur		230	1 ph. A.C. 50 cy	
	Harsud				
	Panchmarhi				
	Itarsi				
	Piparia				
			460	D.C. 3 Wire	
			230	D.C. 2 Wire	

MADHYA PRADESH—concl'd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
COMPANIES				
2	Alirajpur	The Aliraj Electric Supply Co., Alirajpur	460 230	D.C. 3 Wire D.C. 2 Wire
3	Bilaspur	The Central India Electric Supply Co. Ltd., P. B. No. 9, Bilaspur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
4	Bhikangaon	The Proprietor, Mohan Talkies, Bhikangaon	230	D.C. 2 Wire
5	Chhindwara	The Chhindwara Electric Supply Co., Narsinghpur Road, Chhindwara.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
6	Dewas (Senior)	The Dewas (Senior) Electric Supply Co. Private Ltd., Dewas Senior.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
7	Harda	The Hard Electric Supply Co. Private Ltd., M/A. M/S. Domanjee Eduljee Cassinath, 17-19, Baston Road, Fort, Bombay.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
8	Jubbulpur	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
9	Katni	The Central India Electric Supply Co. Ltd., 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
10	Khilchipur	The Khilchipur Power House, Khilchipur	230	D.C. 2 Wire
11	Mandsaur	The Mandsaur Electric Supply Co., Mandsaur	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
12	Ratlam	The Ratlam Electric Supply & Weaving Mills Co. Ltd., Ratlam.	460 230	D.C. 3 Wire D.C. 2 Wire
13	Sailana	The Sailana Electric Power House, Sailana	230	D.C. 2 Wire
14	Saugor	The Saugor Electric Supply Co. Ltd., M.A. M/S. Martin Burn Ltd., 12, Mission Row, Calcutta, 1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
15	Seoni	The Seoni Electric Supply Co., C/O M/S. Byramji D. Doongaji & Son, Seoni.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
16	Sehore	The Sehore Electric Supply Co. Private Ltd., Sehore Cantt.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

MADRAS

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply		
			Voltage	A.C. or D.C. Phases frequency etc.	
BOARD					
1-1	Madras Electricity System	The Chief Engineer, Electricity, Madras State Electricity Board, 157, Mount Road, Madras.	11,000	3 ph. A.C. 50 cy	
			6,000	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
			450	D.C. 3 Wire	
			250	D.C. 2 Wire	
1-2	Mottur Electricity System			22,000	3 ph. A.C. 50 cy
				11,000	3 ph. A.C. 50 cy
				6,600	3 ph. A.C. 50 cy
				400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy	
1-3	Madurai Electricity System		11,000	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			240	1 ph. A.C. 50 cy	
1-4	Pykara Electricity System		11,000	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-5	Periyar Hydro Electric System		11,000	3 ph. A.C. 50 cy	
1-6	Tirunelveli Electricity System		11,000	3 ph. A.C. 50 cy	
1-7	Tiruchirapalli Electricity System		110,000	3 ph. A.C. 50 cy	
			66,000	3 ph. A.C. 50 cy	
			22,000	3 ph. A.C. 50 cy	
			11,000	3 ph. A.C. 50 cy	
			6,600	3 ph. A.C. 50 cy	
			3,300	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-8	Vellore Electricity System		33,000	3 ph. A.C. 50 cy	
			22,000	3 ph. A.C. 50 cy	
			11,000	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-9	Kundah Canada P.H. No. I Canada P.H. No. II		400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-10	Chingleput Electricity System				
MUNICIPALITIES					
2	Coimbatore	The Commissioner, Coimbatore Municipality, Coimbatore.	11,000	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
3	Karur	The Municipal Electrical Engineer, Karur Municipality, Karur, District Tiruchirapally.	400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
4	Mathura	The Commissioner, Mathurai Municipality, Mathurai	3,300	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	

MADRAS—concl'd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
MUNICIPALITIES—cont'd.				
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
COMPANIES				
7	Kumbakonam	The Kumbakonam Electric Supply Corporation Ltd., M.A. The India Co. Private Ltd., Oriental Buildings, Armenian Street, Madras 1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
8	Mayawaram	The South Madras Electric Supply 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 Nagapatam Electric Supply Co. Ltd., M/A. The India Co. (Private) Ltd., Oriental Buildings, Armenian Street, Madras 1.	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/Distribution Supply Co., Ltd., M/A. M/S. Octavious Street & 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. Ltd., M/A. M/S. Octavious Steel & Co. Ltd., 14, Old Court House Street, Calcutta 1.	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 Electric 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 1.	11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
MAHARASHTRA BOARD				
1-1	Akola Division Buldana Deolgaon Raja Digras Malkapur Mehkar Umerkhed	The Chief Engineer, Maharashtra State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	400 230 440 220	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
1-2	Amravati Division Amravati Karanja Dharni		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

MAHARASHTRA—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
BOARD—c.mtd.				
1-3	Ballarshah Power House Division	The Chief Engineer, Maharashtra State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	66,000	3 ph. A.C. 50 cy
			11,000	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
1-4	Bhusawal Division		230	1 ph. A.C. 50 cy
1-5	Chola		95,000	3 ph. A.C. 50 cy
1-6	Kolhapur Division		11,000	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
	Kolhapur E.L. Radhanagiri Malvan Ratnagiri Vengurla Gadhaiganj			
1-7	Khaperkheda Power House Division		66,000	3 ph. A.C. 50 cy
			11,000	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-8	Khamgaon Division Deolgaon Raja Jawhar			
1-9	Kalyan Division	400	3 ph. A.C. 50 cy	
		230	1 ph. A.C. 50 cy	
1-10	Koyna Power Project	The Chief Engineer, Keona Project (Electrical), Maharashtra State Electricity Board, Mercantiles Bank Building, Mahatma Gardhi Road, Bombay.	6,600	3 ph. A.C. 50 cy
1-11	Aurangabad Division Aurangabad Ashti Bhir Manmad Bhokardhan Manjalegaon Vijapur Paithon Jalna Parli Vaijnath Bhoom Usmanabad		400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-12	Nanded Division Hingolje Latur Parbhani Nanded Udgir Kinwat Degloor Marun Patur Jintur	The Chief Engineer, Maharashtra State Electricity Board, Mercantile Bank Building, Hornby Road, Fort, Bombay.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-13	Nagpur North Division		11,000	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-14	Nagpur South Division		11,000	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy

MAHARASHTRA—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply		
			Voltage	A.C. or D.C. Phases frequency etc.	
BOARDS—concl'd.					
1-15	Paras	The Power Station Superintendent, Maharashtra Electricity Board, Power House Construction Division, Paras.			
1-16	Pachora	The Executive Engineer (Construction) Divisional Office, Maharashtra State Electricity Board, Vaishampayan Bungalow, Trimbak Road, Nasik.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-17	Poona Division Akiluj Bhatgar Phaltan	The Chief Engineer, Maharashtra 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	
1-18	Sholapur		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-19	Sangli Division Vishrambag Sangli		The Executive Engineer (O. & M.) Division, Maharashtra State Electricity Board, Sangli.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-20	Nasik Division Manmath Amalner Chopda Dharangaon Savda Faizpur		The Chief Engineer, Maharashtra Electricity Board, Mercantile Bank Building, Fort, Bombay.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
MUNICIPALITIES					
2	B.E.S.T. (Bombay City)	The Bombay Electric Supply and Transport Undertaking (Municipal Corporation), B.E.S.T. House, P.B. No. 192, Bombay 1.	6,600 5,500 400 230 600 460 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 3 Wire D.C. 2 Wire	
3	Chandore	The Engineer-in-Charge, The Chandore Grampanchayat Electric Supply Department, Chandore, District Nasik.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
4	Dondaicha	The Chairman, Dondaicha Municipality Cooperative Electric Supply Society Ltd., Dondaicha (West Khandesh).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
5	Jamti	The Jamti Gram Panchayat' Jamti.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
6	Karjat	Karjat Bhisgaon Panchayat, Karjat, District Kolaba	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
7	Khandbara	The Secretary, Navapur Taluka Vidhyak Samiti, Khandbara, Distt. Dhulia (West Khandesh).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
8	Kothure	The Sarpanch, Kothure Gram Panchayat, Taluka Niphad.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
9	Nandgaon	The Engineer-in-Charge, The Municipal Power House, Nandgaon Municipality, Nandgaon, District Nasik.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
10	Raver	The Electrical Engineer, Raver Municipal Power House, Raver.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
11	Sangli	The Jubilee Electric Works (Sangli Nagarpalika Trust Property), Electric Power House, Sangli.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	

MAHARASHTRA—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
MUNICIPALITIES—contd.				
12	Savantwadi	The Electrical Engineer, Savantwadi Municipality, Savantwadi.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
13	Trimbak	The President, Trimbak Municipality, Trimbak, Distt. Nasik.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
14	Yeola	The Electrical Engineer, Yeola Municipal Power House, Yeola.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
COMPANIES				
15	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
16	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
17	Akalkot	The Vijayasingha Electric Supply Co., Akalkot	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
18	Aundh	The Light & Power Suppliers Ltd. (Aundh Branch), M/S. Industrial Service Ltd., Gumaste Building, 180, Budhwar Peth, Laxmi Road, Poona 2.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
19	Baramati	The Baramati Electric Supply Co. Private Ltd., Poonawala & Co., 182, Raviwar Peth, Poona.	460 230	D.C. 3 Wire D.C. 2 Wire
20	Barsi	The General Engineering Corporation Ltd., (Barsi Electric Supply), 60, Forbes Street, Temple Bazar Buildings, Fort, Bombay 1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
21	Bassein	The Bassein Electric Supply Co. Ltd., M/A. M/S. J.B. Maneckji & Co. Ltd., Mehta House, Apollo Street, Fort, Bombay.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
22	Belapur Road & Kopergaon	The Belapur Road & Kopergaon Electric Supply Co. Ltd. Shriampur, District Ahmednagar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
23	Bhiwandi	The Amalgamated Electricity Co. Ltd. (Bhiwandi Branch) M/A. M/S. N.C. Javeri and Co. Post Box No. 879, 17-B, Horniman Circle, Bombay 1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
24	Bhusawal	The Amalgamated Electricity Co. Ltd. (Bhusawal Branch), M/A. M/S. N. C. Javeri & Co., Post Box No. 879, 17-B, Horniman Circle, Bombay 1.	400 230	3 h. A.C. 50 cy 1 ph. A.C. 50 cy
25	Bhor	Thopte Electric Supply Co. Private Ltd. (Bohar Branch) M/S. Thopte Patel and Co., Nana Bhavan, 1194/20 Ghote Road, Poona 4.	400 20	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
26	Bombay Suburban	The Bombay Suburban Electric Supply Co., Ltd., Centrals 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
27	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
28	Chalisgaon	The Amalgamated Electricity Co. Ltd. (Chalisgaon Branch), M/A. M/S. N.C. Javeri & Co., Post Box No. 879, 17-B, Horniman Circle, Pombay 1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

MAHARASHTRA—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
COMPANIES—contd.				
29	Dhanu Road	The Dhanu Road People's Co-operative Electric Supply Society Ltd., Dhanu Road, District Thana.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
30	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
31	Dhond	The Dhond Electric Supply Co., Dhond	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
32	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
33	Ichalkaranaji	The Ichalkaranaji Electric Supply Co., Ichalkaranaji (Dist. Satara).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
34	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
35	Jalgaon	The Amalgamated Electricity Co. Ltd., Jalgaon Branch M/A. M/S. N. C. Javeri & Co., Post Box No. 879, 17-B, Hornman Circle, Bombay.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
36	Junnar	The Junnar Electric & Water Supply Co. Ltd., M/A. M/S. Thopte Patel & Co., 'Nana Bhavan', 1194/20, Ghole Road, Poona 4.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
37	Karad	The Karad Electric Supply Co. Private Ltd., Karad	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
38	Kurundwad	The Kurundwad Electric Supply Co. Ltd., Kurundwad (Dist. Kolhapur).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
39	Koregaon	The Allied Electric Agencies Private Ltd., Power House, Koregaon (North Satara).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
40	Karmala	The Karmala Electric Supply Co., Station Road, Pandharpur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
41	Lonavala Khandala	The Lonavala Khandala Electric Supply Co. Ltd., Lonavala.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
42	Lasalgaon	The Lasalgaon Cooperative Electric Supply Society Ltd., Lasalgaon, Distt. Nasik.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
43	Mangalwada	Shri Ganta Chokha Electric Supply Co., Mangalwada	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
44	Madhavnagar	The Madhavnagar Electric Supply Co. Ltd., Madhavnagar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
45	Mahableshwar	The Mahableshwar Electric Supply Co., M/A. M/S. Panchgani Electric Supply Co. Ltd., 96, Dancan Road, Byculla, Bombay.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
46	Mahad	The Mahad Electric Supply Co. Ltd., Mahad (Distt. Kolaba).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
47	Malegaon	The Amalgamated Electricity Co. Ltd. (Malegaon Branch). M/A. M/S. N. C. Javeri & Co. Post Box No. 879, 17/B Hornman Circle, Fort, Bombay 1.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

MAHARASHTRA—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
COMPANIES—contd.				
48	Matheran	The Matheran Electric Supply Co. Ltd., Mehta House, Apolo Street, Fort, Bombay.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
49	Miraj	The Miraj Electric Supply Co. Ltd., Miraj (South Satara).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
50	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
51	Nandurbar	The Nandurbar Electric Supply Co. Ltd., M/S. K. S. Guzdar & Co., Ali Chambers, 4 BC-Dean Lane, Fort, Bombay.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
52	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
53	Nasik Deolali	The Nasik Deolali Electric Supply Co. Ltd., 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
54	Nira-Lonand	The Nira-Lonand Electric Supply Co., M/A. M/S. Thopte Patel & Co., 'Nana Bhavan', 1194/20, Ghole Road, Poona 4.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
55	Palghar Navli	The Light & Power Suppliers Ltd. (Palghar-Navli Branch), M/A. Industrial Service Ltd., Gumaste Buildings, 180, Budhwar Peth, Laxmi Road, Poona 2.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
56	Panchgani	The Panchgani Electric Supply Co. Ltd., 96, Duncan Road, Byculla, Bombay.	460 230	D.C. 3 Wire D.C. 2 Wire
57	Pandharpur	The Pandharpur Electric Supply Co., Pandharpur	460 230	D.C. 3 Wire D.C. 2 Wire
58	Panvel Taluka	The Panvel Taluka Electrical Development Co. Ltd., M/A. M/S. Bantia Brothers, Kesar Baug, Panvel.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
59	Poona	The Poona Electric Supply Co., M/A. The Rajputana Textile (Agencies), Private Ltd., Esplanade Mansions, 144-146, Mahatma Gandhi Rd., Fort, Bombay 1.	11,000 3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
60	Sailu	The Proprietor, Sailu Electric Supply Co., Sailu (Central Railway), District Parbhani.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
61	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
62	Satara	The Satara Electric Supply Co. Private Ltd., 217, Partapganj Peth, Satara City.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
63	Shirpur	The Shirpur Electric Supply Co. Ltd., Shirpur (East Khandesh).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

MAHARASHTRA—concl'd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
COMPANIES—concl'd.				
64	Sinnar	The Sinnar Electric Supply Co. Ltd., M/A. M/S. Deshpande & Co., Sinnar (District Nasik).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
65	Shirwal	Thopte Electric Supply Co. Private Ltd. (Shirwal Branch), M/S. Thopte Patel & Co., 'Nana Bhavan', 1194/20, Ghole Road, Poona 4.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
66	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. 60 cy 3 ph. A.C. 50 cy
67	Tasgaon	The Tasgaon Electricity General Co-operative Society Ltd., Tasgaon (District Satara).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
68	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
69	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
70	Wardha	The Nagpur Electric Light and Power Co. Ltd., Wardha Branch, Civil Lines, Post Box No. 2, Nagpur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
71	Yeotmal	The Yeotmal Electric Supply Co. Ltd., M/A. M/S. Hassanmal & Sons, Yeotmal.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1	Mysore State Electricity Board	MYSORE BOARD		
	Sivasamundram	The Chief Engineer, (Electricity), Mysore State Electricity Board, Post Bag No. 16, Bangalore 1.	110,000	3 ph. A.C. 50 cy
	Shimshapura		66,000	3 ph. A.C. 50 cy
	Jog		33,000	3 ph. A.C. 50 cy
	Munirabad		11,000	3 ph. A.C. 50 cy
	Bhadra		4,600	3 ph. A.C. 50 cy
	Ghataprabha		3,300	3 ph. A.C. 50 cy
	Alland		400	3 ph. A.C. 50 cy
	Bidar		230	1 ph. A.C. 50 cy
	Bailhongal		13,200	3 ph. A.C. 25 cy
	Bhalki		4,600	3 ph. A.C. 25 cy
	Bijapur		3,300	3 ph. A.C. 25 cy
	Chincholi		3,000	3 ph. A.C. 25 cy
	Chittrapur			
	Guledgud			
	Gulbarga			
	Gonikkopal			
	Hukeri			
	Humnabad			
	Ilkal			
	Khushtagi			
	Mangalore			
	Mercara			
	Raichur			
	Shorapur			
	Somwarpet			
	Virajpet			
	Yadgir			
	Anigiri			
	Kudige			
	Hubli			
	Kollegal			
	Karkala			
	Savanur			
	Udipi			

MYSORE—concl'd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
COMPANIES				
2	Athni	The Light and Power Suppliers Ltd. (Athni Power House), M/A. Industrial Service Ltd., Gumaste Buildings, 180, Budhwar Peth, Luxmi Road, Poona 2.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
3	Bagalkot	Shri Venkatesh Power Works Ltd., Shrimant K.S. Sardesai, Bagalkot.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
4	Belgaum	The Amalgamated Electricity Co. Ltd. (Belgaum Branch), M/A. M/S. N.C. Javeri & Co., Post Box No. 879, 17-B, Horniman Circle, Fort, Bombay.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
5	Byadgi	M/S. Manvi Brothers, Electric Light & Power Suppliers, Gadag, Distt. Dharwar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
6	Dharwar	The Dharwar Electric Supply Co. Ltd., M/A. The A.E. Co.s' Post Box No. 5, Dharwar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
7	Gadag	M/S. Manvi Brothers, Electric Light & Power Suppliers, Gadag, Distt. Dharwar.	440 220	D.C. 3 Wire D.C. 2 Wire
	Haveri	M/S. Manvi Brothers, Electric Light & Power Suppliers, Gadag, Distt. Dharwar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
9	Jamkhandi	The Electric Power Supply Private Ltd., Jamkhandi, District Bijapur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
10	Karwar	The Karwar Electric Supply & Trading Co. Ltd., Karwar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
11	Khannapur	The Khannapur Co-operative Electricity Society Ltd., Khannapur, District Belgaum.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
12	Nipani	The Nipani Electricity Co. Private Ltd., Dharwar, Nipani, District Belgaum.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
13	Rabkavi	The Rabkavi Electric Supply Co. Ltd., Rabkavi, District Bijapur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
14	Ramdurg	The Madhav Pratap Electric Supply Co., Ramdurg	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
15	Ranebenur	M/S. Manvi Brothers, Electric Light & Power Suppliers, Gadag, Distt. Dharwar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
16	Sirsi	The Kanara Electric Supply Co. Ltd., Sirsi (North Kanara).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

ORISSA

Serial No.	Area or Town served; system	Address of Undertaking	System of Supply		
			Voltage	A.C. or D.C. Phases frequency etc.	
BOARD					
1-1	Balasoro Electrical Division	The Chairman, Orissa State Electricity Board, Bhubaneswar.	400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
			440	D.C. 3 Wire	
			220	D.C. 2 Wire	
	Anandpur				
	Bhadrak				
	Chandbali				
	Jaleswar				
	Keonjhar				
1-2	Cuttack Electrical Division			11,000	3 ph. A.C. 50 cy
				3,300	3 ph. A.C. 50 cy
				400	3 ph. A.C. 50 cy
				230	1 ph. A.C. 50 cy
	Choudhwar			460	D.C. 3 Wire
			230	D.C. 2 Wire	
1-3	Duduma Transmission Division		11,000	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
	Jeypore				
1-4	General Electrical Division		400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
			220	D.C. 3 Wire	
	Bhawanipatna				
	Bolangir				
	Deogarh				
	Kharlar Road				
	Padampur				
	Titilagarh				
1-5	Hirakud Utilization Division No. 11, Rajgangpur		132,000	3 ph. A.C. 50 cy	
			33,000	3 ph. A.C. 50 cy	
			11,000	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
	Rajgangpur				
	Sundergarh				
1-6	Hirakud Dam Project		11,000	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
1-7	Puri Electrical Division, Bhubaneswar		11,000	3 ph. A.C. 50 cy	
			2,300	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
	Daspalla				
	Bhubaneswar N.T. own				
	Nayagarh				
1-8	Transmission Line Construction Division, Berhampur		11,000	3 ph. A.C. 50 cy	
			400	3 ph. A.C. 50 cy	
			230	1 ph. A.C. 50 cy	
	Aska				
	Baudh				
	Phulbani				
	Surada				
	Udayagiri				

ORISSA—concl'd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
BOARD—concl'd.				
1-9	Ganjam Electrical Division.	The Chairman, Orissa State Electricity Board, Bhubaneswar.	400	3 ph. A.C. 50 cy
1-10	City Distribution Division, Cuttack.		230	1 ph. A.C. 50 cy
1-11	Electrical Construction Division No. I, Cuttack			
1-12	Electrical Construction Division No. II, Jeypur			
PUNJAB BOARD				
1-1	Nangal Hydrel Scheme	The Chairman, Punjab State Electricity Board, Patiala.	132,000	3 ph. A.C. 50 cy
1-2	Uhl River Scheme		33,000	3 ph. A.C. 50 cy
			11,000	3 ph. A.C. 50 cy
			3,300	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
			11,000	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
MUNICIPALITIES				
2	Amritsar	The Chief Electrical Engineer, Amritsar Municipal Committee, Amritsar.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
			440	D.C. 3 Wire
			230	D.C. 2 Wire
3	Simla	The Chief Electrical Engineer, Municipal Electricity Department, Simla-1.	2,200	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
COMPANIES				
4	Ambala Cantt.	The Ambala Cantonment Electric Supply Corporation Ltd., M/A. M/S. L. Kidarnath Ltd., Ambala Cantt.	440	D.C. 3 Wire
			220	D.C. 2 Wire
5	Bhatinda	The Modi Electric Supply Co. Ltd., Bhatinda	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
6	Jagadhri	The Jagadhri Electric Supply & Industrial Co. (Private) Ltd., Jagadhri.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
7	Kaithal	The Kaithal Electric Supply Co. Ltd., Kaithal (District Karnal).	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
8	Loharu	The Loharu Electric & Water Supply Co. (Private) Ltd., P.O. Loharu, District Hissar.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy

PUNJAB—*concl.*

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply				
			Voltage	A.C. or D.C. Phases frequency etc.			
COMPANIES—<i>cont.</i>							
9	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			
10	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			
11	Rohtak	The South Punjab Electricity Corporation Private Ltd. (Rohtak Branch), Rohtak.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy			
12	Sirsa	The Sirsa Electric Supply Co., C/O. The Lal Chand Minda, Sirsa.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy			
RAJASTHAN							
BOARD							
KOTA CIRCLE							
1-1	City Division, Kota	The Chairman, Rajasthan State Electricity Board, Jaipur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy			
1-2	District Division, Jhalawar Bundi Chabra						
1-3	Bharatpur Division Bharatpur Karauli Dholpur Todabhim						
1-4	Udaipur Division Kankreli Dungarpur Sagwara Kushalgarh Partapgarh						
BIKANER CIRCLE							
1-5	Bikaner Division				400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1-6	Sriganganagar Division						
1-7	Churu Division Sikar Nawalgarh						
1-8	Ratangarh Division Deedwana Ladnun Ratangarh						

RAJASTHAN—contd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply				
			Voltage	A.C. or D.C. Phases frequency etc.			
BOARD—contd.							
JODHPUR CIRCLE							
1·9	Generation Division, Jodhpur Jodhpur Old P.H. Jodhpur New P.H.	The Chairman, Rajasthan State Electricity Board, Jaipur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy			
1·10	District Division Falna Jaisalmer Jalore Bilara Phalodi Pali Nagaur Sumerpur Sirohi						
1·11	Bhilwara Division Bhilwara Bijainagar Jobner Kapasin Kekri Kishangarh Kuchaman Shahpura Chittorgarh						
JAIPUR CIRCLE							
1·12	Generation Division, Jaipur Jaipur Old P.H. Nullah Power House						
1·13	District Division Jaipur Alwar Malpura Deoli Tonk Newai						
MUNICIPALITIES							
2	Barmer				The Chairman, Municipal Board, Barmer	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
3	Balotara				The Chairman, Municipal Board, Balotara	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
4	Baran				The Chairman, Municipal Board, Baran (Kota)	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
5	Merta				The Chairman, Municipal Board, Merta City	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

RAJASTHAN—concl'd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C, Phases frequency etc.
MUNICIPALITIES—concl'd.				
6	Nasirabad	The Cantonment Executive Officer, Power House, Nasirabad.	460 230	D.C. 3 Wire D.C. 2 Wire
7	Nainwa	The Chairman, Municipal Board, Nainwa	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
8	Suratgarh	The Chairman, Municipal Board, Power House, Suratgrah.	(Power	House closed).
COMPANIES				
9	Abu Mount	The Mount Abu Electric Supply Co., Lothian Power House, Mount Abu.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
10	Abu Road	The Abu Road Electricity and Industries Co. Ltd., M/A. M/S. Acharya Yodha & Co., Abu Road.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
11	Ajmer	The Amalgamated Electricity Co. Ltd. (Ajmer Branch), M/A. M/S. N. C. Javeri & Co., P.O. Box No. 879, 17-B, Horniman Circle, Fort, Bombay.	400 230 440 220	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
12	Banswara	The Banswara Electric Supply Co., Prop. Haji Mulla Rasoolbhai, Mulla Abdul Hussain & Bros., Banswara.	(Power	House Closed).
13	Beawar	The Beawar Electric Supply Co. Ltd., Beawar	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
14	Nagaur	The Nagaur Electric Supply Co., Nagaur	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
15	Pilani	The Pilani Industrial Corporation Ltd., Pilani	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
16	Rajgarh (Alwar)	The Rajgarh Electric Supply Co., Proprietor The Bharat Electrical and Industrial Corporation Ltd., Rajgarh (Alwar).	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
17	Sambar Lake	The Sambar Lake Electric Supply Co. (Private) Ltd., Sambar Lake.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
18	Surajgarh	The Secretary, Jiwan Mandi Vyapar Samiti, Vishnu- nagar, Surajgarh.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
19	Udaipur	The Maharana Bhupal Electric Supply Co. Ltd., Udaipur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
UTTAR PRADESH				
BOARD				
1-1	Hydel Division, Aligarh Aligarh Summera Tundla		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-2	Hydel Division, Budaun, Chandausi		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-3	Hydel Division, Bullandshahar Palra Ghaziabad		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1-4	Hydel Division, Mainpuri, Mainpuri		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

UTTAR PRADESH—*contd.*

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply		
			Voltage	A.C. or D.C. Phases frequency etc.	
BOARD— <i>contd.</i>					
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		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1.7	Hydel Division, Roorkee Laksar Mohammedpur Narendernagar Nirga jni Saharanpur Tehri		400 230 440 220	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire	
1.8	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 Mohoba Banda		400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy	
1.10	Hydel Division, Gorakhpur Gorakhpur		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		440 220	D.C. 3 Wire D.C. 2 Wire	
1.12	Hydel Division, Azamgarh Azamgarh Mau		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
1.14	Rihand Hydro Generation Circle Chopra Pipri Roberts Gauj Rihand			400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
1.15	Hydro Electric Division, Bareilly Bageshwar			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

UTTAR PRADESH—*contd.*

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
BOARD—<i>concl'd.</i>				
1-19	Hydel Division, Faizabad Sohwal	The Chief Engineer (Hydel), U.P. State Electricity Board, Lucknow.	6,600	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
			460	D.C. 3 Wire
			230	D.C. 2 Wire
1-17	Hydel Division, Gonda, Bahraich		440	D.C. 3 Wire
			220	D.C. 2 Wire
1-18	Generation Division, Lohia Head, Khatima		400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-19	Hydel Division, Sitapur		400	3 ph. A.C. 50 cy
		230	1 ph. A.C. 40 cy	
1-20	Thermal Division, Kasimpur Harduaganj	400	3 ph. A.C. 50 cy	
		230	1 ph. A.C. 50 cy	
1-21	Hydel Division, Shahjahanpur			
1-22	Hydel Division, Varanasi Bhadoli			
1-23	Hydel Yamuna Circle, Dehra Dun			
1-24	Matatila Division, Mata- Jhansi			
MUNICIPALITIES				
2	Almora	The Electrical and Water Works Engineer, Municipal Board, Almora.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
3	Haldwani	The Electrical and Municipal Engineer, Municipal Board, Haldwani-cum-Kathgodam, Haldwani.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
4	Hardwar	The Electrical and Water Works Engineer, Municipal Board, Hardwar Union, Hardwar.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
5	Kasganj	The Electrical Engineer, Municipal Electric Supply, Kasganj.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
6	Khurja	The Electrical Engineer, Municipal Electric Supply Municipal Board, Khurja.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
7	Lalitpur	The Municipal Electric Supply Undertaking, Lalitpur	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
8	Meerut	The Electrical Engineer, Municipal Board, Meerut	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
9	Muzaffarnagar	The Electrical Engineer, Municipal Board, Muzaifar- nagar.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
10	Mussoorie	The President, Mussoorie Dehra Hydro Electric Undertaking, City Board, Mussoorie.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy

UTTAR PRADESH—*contd.*

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
MUNICIPALITIES—<i>concl.</i>				
11	Nainital	The Electrical & Mechanical Engineer, Municipal Board, Nainital.	380 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
12	Roorkee	The President, Municipal Board, Roorkee	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
13	Rishikesh	The President, Municipal Board, Rishikesh	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
14	Unnao	The Electrical & Water Works Engineer, Municipal Board, Unnao.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
COMPANIES				
15	Aligarh	The Aligarh Electric Supply Co. Ltd., M/A. M/S. Jain & Co., Udai Singh Jain Road, Mathura.	3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
16	Agra	The Agra Electric Supply Co. Ltd., M/A. M/S. Martin Burn Ltd., 12, Mission Row, Calcutta 1.	6,600 3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
17	Allahabad	The U. P. Electric Supply Co. Ltd. (Allahabad Branch), M/A. M/S. Martin Burn Ltd., 12, Mission Row, Calcutta 1.	11,000 3,300 400 230 440 220	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
18	Auraiya	The Auraiya Water and Electric Supply Co-operative Society Ltd., Auraiya, District Etawah.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
19	Banaras	The Banaras Electric Light & Power Co. Ltd., M/A. M/S. Martin Burn Ltd., 12, Mission Row, Calcutta 1.	33,000 11,000 6,600 3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
20	Bareilly	The Bareilly Electric Supply Co., Ltd., M/A. M/S. Martin Burn Ltd., 13, Mission Row, Calcutta 1.	3,300 400 230 440	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire
21	Bharaich	The Balrampur Electric Supply Co. (Private) Ltd., Balrampur.	220 400 230	D.C. 2 Wire 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
22	Balrampur	The Balrampur Electric Supply Co. (Private) Ltd., Balrampur.	11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
23	Barabanki	The Barabanki Electric Supply Co. Ltd., M/A. The Progressive Industries, Barabanki.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
24	Budaun	The Kishore Electric Supply Corporation C/O Kishore Chand Shiv Charan Lal, Budaun.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
25	Banda	The Banda Electric Supply Co. Ltd., M/A. Shab & Co., Bhagwan Dass Road, New Delhi.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
26	Etah	M/S. Seth Ram Gopal & Partners Electricity Suppliers, Etah.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
27	Etawah	The Western United Provinces Electric Power and Supply Co. Ltd., M/A. M/S. Alopi Prashad and Sons Private Ltd., P.B. No. 1097, Kashmere Gate, Delhi 6.	11,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

UTTAR PRADESH—concl'd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
COMPANIES—concl'd.				
28	Farrukhabad	The Farrukhabad Electric Supply Co. Ltd., M/A. M/S. Radheshyam & Brothers, Fategarh.	3,300 400	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy
29	Faizabad	The Faizabad Electric Licensee 1933 C/O The British Insulated Cables Ltd., 116 Station Road, Faizabad.	230 400 230	1 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
30	Ghazipur	The Eastern United Provinces Electric Supply Co. Ltd., M/A. M/S. Seth Brothers, Kothi Shiv Sahaya, Ghazipur.	440 220	D.C. 3 Wire D.C. 2 Wire
31	Gonda	The Balrampur Electric Supply Co. Private Ltd., Balrampur.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
32	Hathras	The lower Ganges Janna Electricity Distribution Co. Ltd. (In Liquidation), Shiv Bhavan, Morris Rd., Aligarh.	3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
33	Hardoi	The Laxmi Electric Supply Co., Proprietor, The Laxmi Sugar & Oil Mills Ltd., M/A. M/S. Bansidhar Sons and Co., Hardoi.	440 220	D.C. 3 Wire D.C. 2 Wire
34	Jhansi	The Jhansi Electric Supply Co. Ltd., M/A. M/S. Moona Lal and Sons, Jhansi.	3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
35	Jaunpur	The Jaunpur Electric Licensees (1934), C/O The British Insulated Cables Ltd., Jaunpur.	400 230 400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
36	Kosikalan	The Kosi Electric Supply Co., Kosikalan, District Mathura.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
37	Lucknow	The United Provinces Electric Supply Co. Ltd. (Lucknow Branch), M/A. M/S. Martin Burn Ltd., 12, Mission Row, Calcutta 1.	11,000 6,600 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. 3 Wire D.C. 2 Wire
38	Mathura	The Resident Engineer, The Mathura Electric Supply Co. Ltd., Mathura.	3,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
39	Mirzapur	The Mirzapur Electric Supply Co. Ltd., Mirzapur	3,300 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
40	Pilibhit	The Pilibhit Electric Supply Co. Private Ltd., M/A. M/S. Manmohan Lal & Sons (Private) Ltd., Pilibhit.	400 230 400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
41	Rohtak & Hissar Districts Electric Supply Co.	The Commercial Officer, The Rohtak and Hissar Districts Electric Supply Co. Ltd., 5 Prayag Street, Allahabad 2.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
42	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
43	Saharanpur	The Saharanpur Electric Supply Co. Ltd., Ramnagar (Pathanpura Street), P.B. No. 16, Saharanpur.	400 230 440 220	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
44	Shahajahanpur	The Shahjahanpur Electric Supply Co. Ltd., M/A. M/S. Octavions Steel & Co. Ltd., 14, Old Court House Street, P.B. No. 51, Calcutta 1.	3,000 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
45	Upper Jamuna Valley	The Upper Jamuna Valley Electricity Supply Co. Ltd., M/A. M/S. Martin Burn Ltd., 12, Mission Row, Calcutta.	400 230 440 220	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy D.C. 3 Wire D.C. 2 Wire
46	Vrindaban	The General Engineering Co. Electricity Supplier, Vrindaban.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy

WEST BENGAL

Serial No.	Area or Town served/ system	Address of Undertaking	System of supply	
			Voltage	A.C. or D.C. Phases frequency etc.
BOARD				
1-1	Barrackpore Division Barrackpore Barasat Grid North Calcutta Grid Sodepur Grid	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1, Hastings Street, Calcutta—1	11,000	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-2	Burdwan Division Burdwan Memari Grid Mogra Boinchi Grid Ondal Grid Arambagh	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1, Hastings Street, Calcutta—1	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-3	Gourepur	The General Superintendent, Gourepur Electric Supply, West Bengal State Electricity Board, P.O. Garifa, Distt. 24 Parganas.	6,600	3 ph. A.C. 50 cy
			3,300	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-4	Howrah Division Howrah Amta Grid Singur Tarakeshwar Grid South Calcutta Grid Canning Behala Grid	The Divisional Engineer (Commercial), West Bengal State Electricity Board New Secretariat Buildings (7th Floor), 1, Hastings Street, Calcutta—1	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-5	Krishnagar Division North Calcutta Grid Nimtitia Grid Karimpore	The Divisional Engineer (Commercial), West Bengal State Electricity Board New Secretariat Buildings (7th Floor), 1, Hastings Street, Calcutta—1	11,000	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-6	Kharagpur Division Adra Purulia Grid Durgapur Sonamukhi Grid Kharagpur Midnapore Grid Contai Digha Ghatal	The Divisional Engineer (Commercial), West Bengal State Electricity Board New Secretariat Buildings (7th Floor), 1, Hastings Street, Calcutta—1	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
1-7	Siliguri Division Bajanbari Balurghat Grid Changrabandha Grid Cooch Behar Grid Dhupguri-Birpara Grid Kurseong Siliguri Grid Raigunj Grid Haldibari Harishehandrapur Mal Mathabhanga Old Malda Malda	The Divisional Engineer (Commercial), West Bengal State Electricity Board New Secretariat Buildings (7th Floor), 1, Hastings Street, Calcutta—1	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
			440	D.C. 3 Wire
			220	D.C. 2 Wire
1-8	Suri Division Churulia Grid Damagoria Grid Mayurakshi Grid	The Divisional Engineer (Commercial), West Bengal State Electricity Board New Secretariat Buildings (7th Floor), 1, Hastings Street, Calcutta—1	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy

WEST BENGAL—*contd.*

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phase frequency etc.
BOARD—<i>concl.</i>				
1-9	Massanjore	The Assistant Engineer, Hydel Power Station, P.O. Massanjore, District Santhal Parganas.	33,000 11,000	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy
MUNICIPALITIES				
2	Darjeeling	The Chairman, Darjeeling Municipality, Electrical Department, Darjeeling.	6,600 400 230	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
COMPANIES				
3	Andul Mouri	The National Power Supply Corporation Ltd. (Andul Mouri Branch), 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
4	Asansol	The Asansol Electric Supply Co. Ltd., M/S. Bengal Trust Ltd., Bumpur Road, Asansol.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
5	Bankura	The West Bengal Power Supply Co. Ltd., M/S. M/A. 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
6	Bansberia	The East India Electric Supply & Traction Co. Ltd., Jogendra Kaviraj Row, Calcutta.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
7	Barakar	The Barakar Electric Supply Co., Proprietor, Babu Hari Ram Agarwala, P. O. Bharkar, District Burdwan.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
8	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
9	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
10	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
11	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
12	Calcutta	The Calcutta Electric Supply Corporation Ltd., Victoria House, Calcutta-1.	33,000 22,000 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
13	Dishergarh	The Dishergarh Power Supply Co. Ltd. Associated Power Co. Ltd., Central Office, Dishergarh P.O. Sanctoria, District Burdwan.	11,000 3,300 550	3 ph. A.C. 50 cy 3 ph. A.C. 50 cy 3 ph. A.C. 50 cy

WEST BENGAL—concl'd.

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases frequency etc.
COMPANIES				
14	Hooghly Chinsura	The East India Electric Supply & Traction Co. Ltd., 3, Jogendra Kaviraj Row, Calcutta.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
15	Jalpaiguri	The Jalpaiguri Electric Supply Co. Ltd., M/A. M/S. Indo Swiss Trading Co. Ltd., Kent House, P. 33, Mission Row Extension, Calcutta-12.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
16	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
17	Jamuria	The Jamuria Electric Supply Co., M/A. M/S. Bengal Trust Ltd., Burupu Road, Asanaol.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
18	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
19	Krishnagar	The West Bengal Power Supply Co. Ltd., M/A. M/S. B.N. Elias & Co. Ltd. Norton Buildings, 1 & 2, old Court House Corner, Calcutta.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
20	Midnapur	The West Bengal Power Supply Co. Ltd. M/A. M/S. B.N. Elias & Co. Ltd. Norton Buildings, 1 & 2 Old Court House Corner, Calcutta.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
21	Nabadwip	The West Bengal Power Supply Co. Ltd., M/A. M/S. B.N. Elias & Co. Ltd., Norton Buildings, 1 & 2, Old Court House Corner, Calcutta.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
22	Naihati	The Naihati Electric Supply Co. Ltd., M/S. Sanyal & Co., Robertson Road, Naihati.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
23	Purulia	The Purulia Electric Supply Corporation Ltd. M/S. The Purulia Trading Co. Private Ltd., Electrical Engineers and Contractors, Purulia.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
24	Raneeganj	The Raneegang 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
25	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
26	Tarakeshwar	The Tarakeshwar Electric Supply Co. Ltd., Tarakeshwar.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
27	Vishnupur	The Vishnupur Electric Supply & Industrial Development Co. Ltd., Vishnupur, Distt. Bankura.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
UNION TERRITORIES				
GOVERNMENT				
1	ANDAMAN & NICOBAR ISLANDS Port Blair	The Electrical Engineer, Andaman & Nicobar Island Port Blair.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy
2	HIMACHAL PRADESH			

UNION TERRITORIES — *concl'd.*

Serial No.	Area or Town served/ system	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases
GOVERNMENT—concl'd.				
2-1	Hydro Electric Division Simla Chhaila Nogli Rampur Theog	The Superintending Engineer, Hydro Electric Circle, Himachal Pradesh P.W.D., Simla.	460	D.C. 3 Wire
			230	D.C. 2 Wire
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
2-2	Hydro Electric Division Dalhousie Bharmaur Chamba		230	D.C. 2 Wire
2-3	Hydro Electric Division Solan	The Superintending Engineer, Hydro Electric Circle, Himachal Pradesh P.W.D., Simla.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
MANIPUR				
3	Imphal	The Principal Engineer, Manipur Government P.W.D., Imphal.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
TRIPURA				
4	Agartala Dharmanagar Kailashaher Khowai Ulaipur	The Executive Engineer, Government of Tripura, Electrical & Mechanical Division, Tripura.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
PONDICHERRY				
5	Pondicherry	The Director of Electricity, Electricity Department, Pondicherry.	22,000	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
MUNICIPALITIES				
6	Delhi Electric Supply Undertaking.	The Electrical Engineer, Delhi Electric Supply Undertaking (Municipal Corporation of Delhi), Central Power House, Rajghat, P.O. Box No. 589, New Delhi.	11,000	3 ph. A.C. 50 cy
			6,600	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
			500	D.C. 3 Wire
			250	D.C. 2 Wire
7	New Delhi Municipal Committee.	The Electrical Engineer, Electricity Department, New Delhi Municipal Committee, New Delhi.	6,600	3 ph. A.C. 50 cy
			400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
			440	D.C. 3 Wire
			220	D.C. 2 Wire
8	Narela	The National Electric Supply & Trading Corporation Private Ltd., (Ganpati Bhawan), "Harblas Colony" Power House, Narela.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
PONDICHERRY				
COMPANIES				
9	Karaikal	The Karaikal Electric Supply Co. Ltd., M/A. M/S. A. S. Ahilandan, 13, West Boulevard Road, Tiruchirapalli. 8.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy
10	Mahe	The Electrical Engineer, The West Coast Electric Supply Corporation Ltd., M/A. M/S., Chandrie & Co. (Private) Ltd., Mahe.	400	3 ph. A.C. 50 cy
			230	1 ph. A.C. 50 cy