



CENTRAL WATER AND POWER COMMISSION

(POWER WING)

SIMLA

PUBLIC ELECTRICITY SUPPLY

ALL INDIA STATISTICS, 1956

GENERAL REVIEW

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FOREWORD

Salient features of Public Electricity Supply in the Republic of India during the calendar year 1956 are summarised in this review. The presentation of the review in general follows the same pattern as in the previous year but ten new tables have been added. The classification of data has been made according to the set up of the States prior to reorganisation of the States, except in the case of tables XXXIII to XL wherein the data are compiled on the basis of the reorganised set up of the States. One important additional feature of the review is the introduction of data relating to Fatal Electrical Accidents etc., of the electricity undertakings during the past five years (1951 to 1955).

Thanks are due to the Public Electricity Supply Undertakings for their whole hearted co-operation without which it would not have been possible to complete this review.

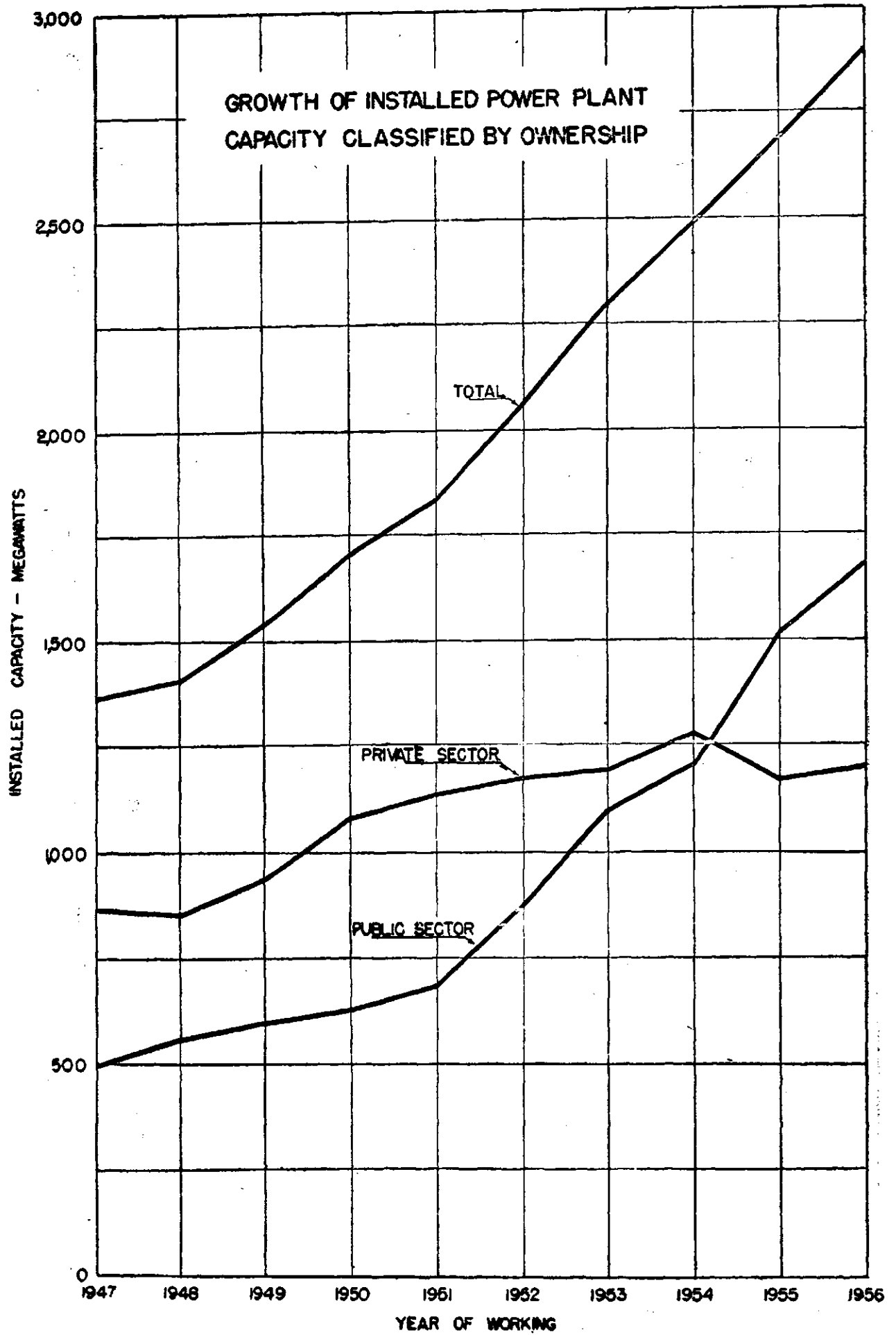
CENTRAL WATER & POWER COMMISSION
(POWER WING)
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S. S. KUMAR
MEMBER

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PLANT DATA AND POWER GENERATION



PUBLIC ELECTRICITY SUPPLY ALL INDIA STATISTICS—1956 GENERAL REVIEW

SECTION I

GENERAL POWER SUPPLY POSITION

During the calendar year 1956, the total installed generating plant capacity in India was 2,886 Megawatts and the total generation from all the undertakings was 9,662 million kWh. The installed capacity increased by 7.1 per cent and generation by 12.4 per cent over that in the previous year. The number of consumers increased by 12.6 per cent.

Table I gives the summary of the prominent features of power supply industry in India for a period of five years from 1952 to 1956. It gives the number of undertakings, their generating capacity, power production, fuel consumption, power sales, consumers and their connected load, the total number of electrified towns and the capital expenditure of the entire power supply industry for the period.

TABLE I—OUTSTANDING FEATURES OF THE ELECTRICITY SUPPLY INDUSTRY 1952—1956

Item	1952	1953	1954	1955	1956
AUTHORISED UNDERTAKINGS WITH OWN GENERATING STATIONS—					
State owned	204	209	220	239	272
Companies	220	218	214	199	179
Total ..	424	427	434	438	451
AUTHORISED UNDERTAKINGS RECEIVING BULK SUPPLY—					
State owned	99	121	142	125	203
Companies	92	99	106	114	122
Total ..	191	220	248	239	325
Grand Total ..	615	647	682	677	776
GENERATING CAPACITY (kW)—					
Steam Plant	1,176,317	1,393,717	1,491,043	1,546,805	1,596,412
Oil Plant	170,259	180,294	209,807	208,529	228,238
Hydro Plant	715,179	731,179	793,346	939,483	1,061,441
Total ..	2,061,755	2,305,190	2,493,996	2,694,817	2,886,141
OUTPUT (Million kWh)—					
Steam Plant	3,102.416	3,572.792	4,057.923	4,618.863	5,183.900
Oil Plant	218.801	210.540	227.834	231.350	233.356
Hydro Plant	2,799.130	2,913.855	3,236.520	3,742.238	4,294.877
Total ..	6,120.347	6,697.187	7,521.777	8,592.451	9,662.133
FUEL CONSUMPTION (Tons)—					
Coal	2,672,150	3,058,340	3,316,730	3,680,480	4,003,098
Diesel Oil	71,027	70,084	74,528	75,538	75,056
MAXIMUM DEMAND (kW)	1,310,651	1,416,350	1,625,123	1,849,672	1,989,774

	1952	1953	1954	1955	1956
SALES (Million kWh)—					
Domestic Light and Small Power	628·882	690·516	759·189	850·426	934·122
Commercial Light and Small Power	336·628	399·907	446·156	514·423	545·851
Industrial Power	3,206·524	3,613·186	4,075·983	4,697·789	5,323·424
Irrigation	215·192	214·138	231·373	254·803	316·180
Other Purposes	618·456	680·136	739·820	793·570	839·768
Total	5,005·682	5,597·083	6,252·501	7,111·011	7,959·345
CONSUMERS—					
Lighting and Heating	1,740,700	1,885,150	2,045,464	2,362,637	2,654,198
Industrial Power (including Traction and Water Works).	74,063	78,505	83,306	99,317	108,756
Irrigation	28,710	31,388	36,012	46,626	62,848
Total	1,843,473	1,995,543	2,164,782	2,508,580	2,825,802
CONNECTED LOAD (kW)—					
Lighting and Heating	1,296,053	1,369,076	1,468,928	1,624,616	1,763,764
Industrial Power (including Traction and Water Works).	1,995,830	2,078,882	2,215,744	2,455,387	2,632,280
Irrigation	161,389	173,237	192,589	242,595	327,774
Total	3,453,272	3,621,195	3,877,241	4,322,598	4,723,818
ELECTRIFIED TOWNS—					
Population under 20,000	4,028	4,213	5,042	6,456	7,964
Population above 20,000	490	495	510	525	530
CAPITAL EXPENDITURE (Rs. Crore)	193·5	210·5	268·3	326·2	..

The total number of undertakings included in the review is 776 as compared to 677 undertakings during the previous year.

Out of these 776 undertakings 451 generated power and 325 were engaged in retail distribution of bulk power purchased mostly from other public electric utility generating stations. A small amount of power was, however, purchased from the industry's power stations.

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

TABLE II—AUTHORISED UNDERTAKINGS

Ownership	Number of Undertakings		Total
	Generating	Distributing	
(i) Public sector—			
(a) Government	161	88	249
(b) Board	89	92	181
(c) Power Corporation	1	..	1
(d) Municipality	21	23	44
Total	272	203	475
(ii) Private sector—			
Companies	179	122	301
Grand Total	451	325	776

During the year, 121 undertakings started functioning; 108 of these belonged to public sector and only 13 to the private sector. The names of the undertakings which commenced power supply are given below—

1. Andhra Government's diesel power stations at Renigunta, Giddalur and Macherla;
2. Government owned diesel power stations at Golaghat, Nowgong, Dergaon, Goalpara, Nalbari, Mangaldai and Sualkachi and company owned diesel power stations at Barpeta and Dhubri in Assam;
3. Bihar Government's diesel power stations at Begusarai and Pusa;
4. Government diesel power stations at Mundra in Kutch, Somwarpet and Virajpet in Coorg, Shahdol and Ajaigarh in Vindya Pradesh;
5. Company owned diesel power station at Mehboobnagar in Hyderabad;
6. Company owned diesel power station at Vidisha in Madhya Bharat;
7. Madhya Pradesh Electricity Board's diesel power stations at Bina, Piparia and Umarched;
8. Company owned diesel power station at Kasargod in Madras;
9. Government owned hydro power station at Hirakud and Diesel power station at Bhadrak and company owned diesel generating station at Parlakimedi in Orissa;
10. Municipal diesel power stations at Merta, Suratgarh, Barmar and Hanumangarh and company owned diesel power station at Pilani in Rajasthan;
11. Saurashtra Electricity Board's Steam Power Station at Shahpur and diesel power station at Botad and company owned diesel power stations at Valabhipur and Bhilkha;
12. Government owned diesel power stations at Chopan and Pipri and company owned diesel power station at Banda in Uttar Pradesh;
13. West Bengal State Electricity Board's hydro power station at Mayurakshi and diesel power stations at Canning, Old Malda, Contai, Dhulian, Balurghat, Karimpur, Jhargram and Nalhatti;
14. Bihar Government's distribution schemes at Gawan, Motihari, Patna-Barh and Dhanbad;
15. Government distribution schemes at Umeria in Vindhya Pradesh and company owned distribution scheme at Karaikal in Pondicherry State;
16. Government distribution schemes at Salempur, Phulnakhara, Kendrapara, Balkati, Jagatpur, Chandanpur, Jagatsinghpur, Kendupatna, Athagarh, Balikuda, Badabag and Bahugram in Orissa;
17. Government distribution schemes at Sultanpur and Robertsganj in Uttar Pradesh;
18. Company owned distribution scheme at Kanandevan in Travancore-Cochin; and
19. State Electricity Board's distributing schemes at Chord Road, Dewanhat, Vetaguri, Sainthia, Lalbagh, Bethuadahari, Alipur Duar, Jangipur, Lalgola, Bhagwangola, Plassey, Durgapur, Sanigur, Tufanganj, Galsi, Saktigarh, Rasulpur, Memari, Makardah, Domjur, Basirhat, Santragachi, Gangarampur, Dassnagar, Kaliganj, Dubrajpur, Ahmedpur, Baduria, Barachampa, Hasnabad, Kholapota, Gayeshpur, Uluberia, Hili, Beliatare, Patrassayer, Sonamukhi, Kolaghat, Rampurhat, Mollarpur, Boinchee, Pandua, Mogra, Itachuna-Khanyan, Guskarai, Taki, Gobardanga, Duttapukur, Madhyamgram and Arbelia and company owned distribution scheme at Andul-mouri in West Bengal.

Two generating undertakings which started operation during 1955 commenced sending the statistical data during the year under review. The data relating to these undertakings have also been assimilated in this review.

ACQUISITION OF ELECTRICITY SUPPLY UNDERTAKINGS

17 company owned undertakings and 2 municipal undertakings were acquired by the respective erstwhile State Governments. The names of those undertakings with original ownership and the State Governments who acquired them are given below:—

Serial No.	Name of undertaking	Original ownership	Name of erstwhile state which acquired the undertaking
1	Iehhapuram	Company ..	Andhra
2	Gudivada	Company ..	Andhra
2	Guntur	Company ..	Andhra
4	Karinganj	Company ..	Assam
5	Chapra	Company ..	Bihar
6	Monghyr	Company ..	Bihar
7	Ramgarh	Company ..	Bihar
8	Sahibganj	Company ..	Bihar
9	Lakhisarai	Company ..	Bihar
10	Wai	Company ..	Bombay
11	Malkapur	Company ..	Madhya Pradesh
12	Mangalore	Company ..	Madras
13	Phalodi	Company ..	Rajasthan
14	Sikar	Company ..	Rajasthan
15	Sikka	Company ..	Saurashtra
16	Port Cochin	Municipal ..	Travancore-Cochin
17	Sitapur	Company ..	Uttar Pradesh
18	Sodepur	Company ..	West Bengal
19	Fulla	Municipal ..	West Bengal

The total plant capacity in the aforesaid undertakings was 14,952 kW at the time of acquisition.

UNDERTAKINGS CHANGED OVER TO BULK POWER SUPPLY

33 undertakings are reported to have changed over to bulk power distribution; 15 of these belonged to the State Governments and Boards and the remaining 18 to the companies. The names of the undertakings and sources of bulk power supply are given below—

Serial No.	Name of undertaking	Type of ownership	Name of erstwhile State	Source of supply
1	2	3	4	5
1	Angul	Government ..	Orissa	Colliery Power House, Talchar
2	Bagalkot	Company ..	Bombay	Jog Karnatick Grid
3	Bhatinda	Company ..	Pepsu	Nangal Hydrel Scheme
4	Billimora	Company ..	Bombay	South Gujrat Grid

1	2	3	4	5
5	Bulsar	Company	Bombay	South Gujrat Grid
6	Burdwan	Board	West Bengal	Damodar Valley Corporation
7	Chaibassa	Company	Bihar	Bihar State Electric Supply
8	Dewas (Junior)	Government	Madhya Bharat	Central Power House, Indore
9	Dharwar	Company	Bombay	Jog Karnatic Grid
10	Gadag	Board	Bombay	Jog Karnatic Grid
11	Hubli	Board	Bombay	Jog Karnatic Grid
12	Jammu	Government	Jammu and Kashmir	Uhl River Scheme
13	Jaunpur	Company	Uttar Pradesh	Banaras Electric Light and Power Company Ltd.
14	Khandwa	Board	Madhya Pradesh	Nepa Grid
15	Kolhapur	Company	Bombay	Bombay State Electricity Board
16	Madhavnagar- Budhgaon	Company	Bombay	Bombay State Electricity Board
17	Mahabaleshwar	Company	Bombay	Bombay State Electricity Board
18	Malerkotla	Company	Pepsu	Nangal Hydrel Scheme
19	Nellore	Government	Andhra	Machkund Hydrel Scheme
20	Panehgani	Company	Bombay	Bombay State Electricity Board
21	Port-Okha	Board	Bombay	M/S Tata Chemical Ltd., Mithapur
22	Purulia	Company	Bihar	Bihar State Electric Supply
23	Ramgarh	Government	Bihar	Damodar Valley Corporation
24	Ranchi	Company	Bihar	Bihar State Electric Supply
25	Rander	Company	Bombay	South Gujrat Grid
26	Santineketan	Board	West Bengal	Damodar Valley Corporation
27	Seebpore	Company	West Bengal	Damodar Valley Corporation
28	Srikakulam	Government	Andhra	Machkund Hydrel Scheme
29	Suri	Board	West Bengal	More Hydro Electric Scheme
30	Talchar	Government	Orissa	Colliery Power House, Talchar
31	Tapi	Company	Bombay	South Gujrat Grid
32	Vijaywada	Government	Andhra	Machkund Hydrel Scheme
33	Visakhapatnam	Government	Andhra	Machkund Hydrel Scheme

PLANT INSTALLATION WITHDRAWAL ETC.

The generating plant capacity increased by 198,152 kW during the year of which 71,000 kW or about 36 per cent of the increase was in steam plant; 25,802 kW or 13 per cent in diesel plant and 101,350 kW or about 51 per cent in the hydro plant. The capacity added in the public sector i.e. in state owned undertakings including State Electricity Board, Power Corporation, and Municipality was 141,348 kW or about 71 per cent of the total capacity additions; the remaining 56,804 kW or about 29 per cent was installed by private sector i.e. the company owned undertakings.

The generating capacity withdrawn from the service aggregated to 12,575 kW of which 5,055 kW was steam plant and 7,520 kW diesel plant.

Installed plant capacity figure as on 31st December, 1955 of some of the undertakings could not be made available at the time of compilation of the previous year's review. Data now received shows an overall increase in installed plant capacity figure by 5,747 kW over the total plant installed capacity figure published in the 1955 General Review.

71,000 kW of new steam plants comprising five turbo alternator sets were added in some of the medium and large thermal stations. In the steam power stations, six boilers of aggregate evaporating capacity of 910,000 lbs/hr were also put into service. The number and capacity of the generating plant and boilers installed in some of the steam stations are given below—

STEAM TURBO ALTERNATORS

Serial No.	Installed at	No. of Units	Capacity of each unit in kW
1	Trombay Power Station of Tata Power Supply Companies	1	50,000
2	Ballarshah Power Station of Madhya Pradesh Electricity Board	2	7,500
3	Shahpur Power Station of Saurashtra Electricity Board	2	3,000
	Total ..		71,000

BOILERS

Serial No.	Installed at	No. of boilers	Evaporating capacity of each unit in lbs/hr	Steam conditions at stop value end	
				Pressure in lbs/sq. inch	Temp. °F
1	Trombay Power Station of Tata Power Supply Companies	1	600,000	1,250	950
2	Ballarshah Power Station of Madhya Pradesh Electricity Board	2	80,000	500	830
3	Shahpur Power Station of Saurashtra Electricity Board	2	45,000	400	750
4	Banaras	1	60,000	250	655
	Total ..		910,000		

Seven hydro sets of total installed capacity of 101,000 kW were installed during the year. The number and capacity of generating plants in the important hydro stations are given below—

WATER WHEEL ALTERNATORS

Serial No.	Installed at	No. of units	Capacity of each unit in kW
1	Machkund Power Station of Andhra Government	1	17,000
2	Nizamsagar Power Station of Hyderabad Government	2	5,000
3	Hirakud Power Station of Orissa Government	1	24,000
4	Kotla Power Station of Punjab Government	2	24,000
5	Mayurakshi Power Station of West Bengal Government	1	2,000
	Total ..		101,000

216 diesel sets of total capacity of 25,802 kW were also installed during the year. The number and capacity of the generating plants in some of the important diesel power stations are given below—

DIESEL POWER PLANT (ABOVE 300 kW EACH)

Serial No.	Installed at	No. of Units	Capacity of each unit in kW
1	Macherla (Andhra)	2	600
		1	500
2	Renigunta (Andhra)	2	600
		1	500
3	Nasik Deolali (Bombay)	1	876
4	Navsari (Bombay)	1	375
5	Sidhpur (Bombay)	1	335
6	Adipur (Kutch)	1	375
7	Rajchur (Hyderabad)	1	620
8	Patiala (Pepsu)	1	310
9	Pilani (Rajasthan)	1	344
10	Jamnagar (Saurashtra)	2	646
11	Pipari (Uttar Pradesh)	6	480
12	Mirzapur (Uttar Pradesh)	1	360
	Total ..		11,167
	Capacity of diesel plant of less than 300 kW each		14,635
	Total ..		25,802

POWER PLANT CAPACITY AND ELECTRICITY PRODUCTION

The total installed capacity of generating plant at the end of the year amounted to 2·886 million kW registering an increase of 7·1 per cent over that in the previous year. The corresponding increase in 1955 over 1951 was 8·1 per cent. Electricity production during the year amounted to 9,662 million kWh registering an increase of about 12·4 per cent over that in the previous year. The corresponding increase in 1955 over 1954 was 14·2 per cent.

Table III gives the All-India installed plant capacity and electricity production figures classified by the type of generating plant.

TABLE III—INSTALLED CAPACITY AND GENERATION BY TYPES OF PLANTS

Type of Plant	Installed capacity of generators			Generation		
	As at 31-12-1956	Percentage of total	Increase in 1956 as compared with 1955	kWh generated in 1955	Percentage of total	Increase in 1956 as compared with 1955
1	2	3	4	5	6	7
	kW	%	%	Millions	%	%
Steam	1,596,412	55·3	3·2	5,133·900	53·1	11·2
Oil	228,288	7·9	9·5	233·356	2·4	0·9
Hydro	1,061,441	36·8	13·0	4,294·877	44·5	14·8
Total	2,886,141	100·0	7·1	9,662·133	100·0	12·4

The steam power plant capacity increased by 3·2 per cent over that in the previous year, while the corresponding electricity production rose by 11·2 per cent. In the hydro power plant, the capacity increased by 13·0 per cent while the electricity production registered an increase of 14·8 per cent, over that in the previous year.

Although the capacity of steam power plant constituted 55·3 per cent of the total power plant capacity, the energy output was 53·1 per cent of the total production. The capacity of hydro power plant which was 36·8 per cent of the total, however, generated 44·5 per cent of the total energy output.

The generation by the steam, hydro and diesel plant was 53·1 per cent, 44·5 per cent and 2·4 per cent respectively of the total generation by all the undertakings.

CLASSIFICATION OF PLANT ACCORDING TO TYPE OF GENERATION

Table IV gives separately the installed generating capacity of steam, oil and hydro plant classified according to the type of plant.

TABLE IV—GENERATING PLANT—TYPE AND INSTALLED CAPACITY

(Analysis of Types of Prime Movers and Generating Plant Installed)

Type of Prime Mover and Generating Plant	Total			Division of Total										
	No. of sets installed	Aggregate capacity of sets kW	Percentage of total plant installed %	Public Sector								Private Sector		
				Government		State Electricity Board		Power Corporation		Municipality		Company		
				No. of sets	Aggregate capacity kW	No. of sets	Aggregate capacity kW	No. of sets	Aggregate capacity kW	No. of sets	Aggregate capacity kW	No. of sets	Aggregate capacity kW	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
(i) Steam Turbines and														
A.C. Generators	233	1,583,208	54.85	89	316,567	41	281,250	3	150,000	2	6,200	98	829,191	
D.C. Generators	1	300	0.01	1	300	..	..	..	..	..	..	..	..
Total Steam Turbo-plant	234	1,583,508	54.86	90	316,867	41	281,250	3	150,000	2	6,200	98	829,191	
(ii) Reciprocating Steam Engines and														
A.C. Generators	53	11,913	0.41	18	4,769	5	558	..	..	..	..	30	6,586
D.C. Generators	18	991	0.04	12	561	1	80	..	..	..	..	5	370
Total Reciprocating Steam plant	71	12,904	0.45	30	5,330	6	618	..	..	..	..	35	6,956
(iii) Oil Engines and														
A.C. Generators	1,329	198,181	6.87	522	87,345	182	28,904	..	..	72	9,975	553	76,957
D.C. Generators	361	90,107	1.04	107	6,940	38	8,267	..	..	2	28	164	14,864
Total Oil Engine plant	1,690	228,288	7.91	629	94,285	220	32,171	..	..	74	10,011	717	91,821
(iv) Water Wheel Turbines and														
A.C. Generators	172	1,061,19	36.77	114	766,072	12	8,624	2	4,000	20	7,860	24	274,640	
D.C. Generators	7	245	0.01	7	245	..	..	..	..	..	..	..	..
Total Water Power Plant	179	1,061,441	36.78	121	766,317	12	8,624	2	4,000	20	7,860	24	274,640	
Grand Total—														
A.C. Generators	1,787	3,854,49	98.90	743	1,174,758	240	314,336	5	154,000	94	24,035	705	1,187,374	
D.C. Generators	387	81,643	1.10	127	8,046	39	8,327	..	..	2	36	169	15,224
Total No. of Generators	2,174	3,886,141	100.00	870	1,182,799	329	322,663	5	154,000	96	24,071	874	1,202,608	

There were 2,174 generating sets of aggregate capacity 2,886,141 kW working in the Public electric utility power stations in India. Out of these, 234 were steam turbo alternator sets, 71 reciprocating steam engine sets, 179 water wheels and 1,690 diesel engine sets. Among these, 387 sets generated direct current and the remaining 1,787 generated alternating current. The aggregate capacity of steam, oil engine and water wheel sets constituted respectively 55.31 per cent 7.91 per cent and 36.78 per cent of the total installed capacity. The main source of generation was from A.C. plant which constituted 98.90 per cent of total capacity, and only 1.10 per cent of the total plant was D.C.

CLASSIFICATION OF PLANT BY OWNERSHIP

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

TABLE V—INSTALLED CAPACITY AND GENERATION BY OWNERSHIP

Ownership	No. of undertakings Owning generating stations	Installed capacity of generators			Generation		
		As at 31-12-56	Percentage of grand total	Increase in 1956 as compared with 1955	kWh generated in 1956	Percentage of grand total	Increase in 1956 as compared with 1955
1	2	3	4	5	6	7	8
		kW	%	%	Million	%	%
(i) Public sector—							
State Government	161	1,182,799	41.0	12.7	3,619,579	37.5	13.8
State Electricity Board	89	322,663	11.2	11.2	1,187,656	12.1	11.0
Power Corporation	1	154,000	5.3	..	458,930	4.7	54.6
Municipality	21	24,071	0.8	2.1	48,444	0.5	7.8
(ii) Private sector—							
Company	179	1,202,608	41.7	2.1	4,367,524	45.2	8.7
Total	451	2,886,141	100.0	7.1	9,662,133	100.0	12.4

The installed capacity of plant in public sector (comprising Government, State Electricity Board, Power Corporation and Municipality) was 1,683,533 kW. In the private sector 1,202,608 kW of plant had been installed. The percentage of capacity installed in the public sector was therefore 58.3 per cent and that in the private sector was 41.7 per cent at the end of the year. The rate of plant installation in the public sector during the past few years has been relatively faster than in the private sector.

By the end of the year, public sector registered 10.9 per cent increase in installed capacity over the previous year. Whereas the private sector registered an increase of 2.1 per cent over the previous year.

The public sector generated 5,295 million kWh of power during the year which represented 54.8 per cent of the total production. In the private sector 4,367 million kWh of energy was produced and this represented 45.2 per cent of total production. The increase in production in the public sector was about 15.8 per cent and that in the private sector was 8.7 per cent as compared to the previous year. The net increase in power production was 12.4 per cent of the production in previous year.

Table VI gives a breakup of installed plant capacity and generation for both public and private sectors according to the type of plant.

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

Types of Plant and Ownership	No. of undertakings owning generating stations	Installed capacity of generators		Generation	
		As at 31-12-56	Percentage of grand Total	kWh generated	Percentage of grand total
1	2	3	4	5	6
		kW	%	Million	%
Steam—					
Public sector—					
(a) Government	23	322,197	11.1	775.332	8.0
(b) State Electricity Board	8	281,868	9.8	1,122.255	11.6
(c) Power Corporation	1	150,000	5.2	456.777	4.7
(d) Municipality	1	6,200	0.2	6.789	0.1
Private sector—					
Company	23	836,147	29.0	2,772.767	28.7
Total for Steam Plant	56	1,596,412	55.3	5,133.900	53.1
Oil—					
Public sector—					
(a) Government	119	94,285	3.3	53.079	0.6
(b) State Electricity Board	77	32,171	1.1	31.350	0.3
(c) Power Corporation					
(d) Municipality	16	10,011	0.3	12.722	0.1
Private sector—					
Company	154	91,821	3.2	136.205	1.4
Total for Oil Plant	366	228,288	7.9	233.356	2.4
Hydro—					
(a) Government	19	766,317	26.6	2,791.168	28.9
(b) State Electricity Board	4	8,624	0.3	14.051	0.2
(c) Power Corporation		4,000	0.1	2.153	0.0
(d) Municipality	4	7,860	0.3	28.953	0.3
Private sector—					
Company	2	274,640	9.5	1,458.552	15.1
Total for Hydro Plant	29	1,061,441	36.8	4,294.877	44.5
Grand Total (Steam, Oil & Hydro)	451	2,886,141	100.0	9,662.133	100.0

Out of the all India installed total plant capacity, there was respectively in the public sector, under Government, State Electricity Board, Power Corporation and Municipality, 11.1 per cent, 9.8 per cent, 5.2 per cent and 0.2 per cent under steam; 3.3 per cent, 1.1 per cent, 0.0 per cent and 0.3 per cent under oil plant, 26.6 per cent, 0.3 per cent, 0.1 per cent and 0.3 per cent under hydro plant.

The capacity of steam plant in the public sector expressed as percentage of the All-India total decreased from 27.4 per cent in 1955 to 26.3 per cent in 1956. The percentage of hydro plant capacity increased from

24.7 per cent in 1955 to 27.3 per cent in 1956. In the company owned undertakings (private sector) the capacity of steam plant decreased from 30.0 per cent in 1955 to 29.0 per cent in 1956 while hydro plant decreased from 10.2 per cent in 1955 to 9.5 per cent in 1956.

**INSTALLED GENERATING PLANT AND POWER PRODUCTION IN
DIFFERENT STATES OF INDIA**

Tables VII, VIII and IX give the break up of installed plant capacity in different states in India both under public and private sectors.

TABLE VII—INSTALLED STEAM PLANT CAPACITY BY OWNERSHIP AS ON 31-12-1956

(Kilowatt),

Serial No.	State or States Union (Pre-reorganised)	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	2	3	4	5	6	7	8
1	Andhra	23,750	..	..	..	..	23,750
2	Assam .. .. .	..	..	..	..	622	622
3	Bihar	5,850	..	150,000	..	29,195	185,045
4	Bombay State .. .. .	..	140,860	..	..	197,350	338,210
5	Centrally Administered areas—						
	(a) Delhi State .. .. .	..	52,400	..	..	..	52,400
	(b) Rest	9,812	..	..	..	..	9,812
6	Hyderabad	22,250	..	..	..	..	22,250
7	Jammu & Kashmir	1,500	..	..	..	..	1,500
8	Madhya Bharat	23,748	..	..	..	..	23,748
9	Madhya Pradesh .. .. .	..	73,758	..	..	17,504	91,262
10	Madras State	84,000	..	..	..	..	84,000
11	Mysore State .. .. .	..	..	..	..	..	..
12	Orissa	5,776	..	..	..	..	5,776
13	Pepsu	526	..	..	..	..	526
14	Punjab	1,100	..	..	6,200	..	7,300
15	Rajasthan	24,000	..	..	..	..	24,000
16	Saurashtra .. .. .	..	14,000	..	..	4,000	18,000
17	Travancore-Cochin .. .. .	..	..	..	..	..	..
18	Uttar Pradesh	119,885	..	..	..	59,975	179,860
19	West Bengal .. .. .	..	850	..	..	527,501	528,351
	Total	322,197	281,868	150,000	6,200	836,147	1,596,412

TABLE VIII—INSTALLED OIL PLANT CAPACITY BY OWNERSHIP AS ON 31-12-1956

(Kilowatt)

Serial No.	State or States Union (Pre-reorganised)	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	2	3	4	5	6	7	8
1	Andhra	15,946	..	..	..	..	15,946
2	Assam	309	..	..	..	3,799	4,108
3	Bihar	9,149	..	..	..	6,605	15,754
4	Bombay State .. .. .	..	7,818	..	2,552	40,884	51,254
5	Centrally Administered areas—						
	(a) Delhi State .. .. .	..	2,716	..	..	75	2,791
	(b) Rest	4,610	..	..	..	6,661	11,271
6	Hyderabad	7,181	..	..	..	490	7,671
7	Jammu & Kashmir	769	..	..	..	..	769
8	Madhya Bharat	5,343	..	..	252	3,248	8,843
9	Madhya Pradesh .. .. .	..	4,747	..	..	2,991	7,738
10	Madras State	1,926	..	..	..	152	2,078
11	Mysore State	76	..	..	..	..	76
12	Orissa	1,695	..	..	..	2,296	3,991
13	Pepsu	5,427	..	..	..	713	6,140
14	Punjab	5,655	..	..	2,206	6,646	14,507
15	Rajasthan	10,329	..	..	349	3,858	14,536
16	Saurashtra .. .. .	..	13,782	..	12	4,636	18,430
17	Travancore-Cochin	4,641	..	..	..	..	4,641
18	Uttar Pradesh	21,229	..	..	3,960	7,301	32,490
19	West Bengal .. .. .	..	3,108	..	680	1,466	5,254
	Total	94,285	32,171	..	10,011	91,821	228,288

TABLE IX—INSTALLED HYDRO PLANT CAPACITY BY OWNERSHIP AS ON 31-12-1956

(Kilowatt)

Serial No.	State or States Union (Pre-reorganised)	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	2	3	4	5	6	7	8
1	Andhra	51,000	..	..	..	..	51,000
2	Assam .. .. .	..	..	..	..	550	550
3	Bihar .. .. .	..	..	4,000	..	..	4,000
4	Bombay State .. .. .	..	5,824	..	..	274,090	279,914
5	Centrally Administered areas—						
	(a) Delhi State .. .. .	..	..	..	..	..	..
	(b) Rest	376	..	..	..	..	376
6	Hyderabad	15,000	..	..	..	..	15,000
7	Jammu & Kashmir	10,606	..	..	..	..	10,606
8	Madhya Bharat .. .. .	..	..	..	..	..	..
9	Madhya Pradesh .. .. .	..	..	..	..	..	..
10	Madras State	165,150	..	..	..	..	165,150
11	Mysore State	173,200	..	..	..	..	173,200
12	Orissa	24,005	..	..	..	..	24,005
13	Pepsu	240	..	..	..	..	240
14	Punjab	144,000	..	..	1,750	..	145,750
15	Rajasthan .. .. .	..	..	..	..	..	..
16	Saurashtra .. .. .	..	..	..	..	..	..
17	Travancore-Cochin	85,500	..	..	..	..	85,500
18	Uttar Pradesh	92,240	..	..	4,150	..	96,390
19	West Bengal .. .. .	..	2,800	..	1,960	..	4,760
	Total	766,317	8,624	4,000	7,860	274,640	1,061,441

The plant capacity is also classified into steam, oil and hydro. In West Bengal, Bombay, Bihar, Uttar Pradesh, Madhya Pradesh, Madras and Delhi States, the aggregate steam plant capacity was 1,459,128 kW and accounted for about 91 per cent of the total installed steam plant capacity. The aggregate diesel plant capacity in the erstwhile states of Bombay, Uttar Pradesh, Saurashtra, Andhra, Bihar, Rajasthan and Punjab was 162,917 kW representing about 71 per cent of the total oil plant capacity. The aggregate capacity of Hydro plant in the pre-reorganised states of Bombay, Mysore, Madras, Punjab, Uttar Pradesh, Travancore Cochin and Andhra was 1,001,904 kW or about 94 per cent of the total hydro installation in the country.

The aggregate installed steam plant capacity in the undertakings owned by the public sector in the pre-reorganised states of Bihar, Bombay, Uttar Pradesh, Madras, Madhya Pradesh, Delhi, Rajasthan, Andhra, Madhya Bharat and Hyderabad decreased relatively in magnitude and together account for about 95 per cent of the total installed steam plant capacity in the public sector. The steam plant capacity in the undertakings of the private sector decreased relatively in magnitude in West Bengal, Bombay, Uttar Pradesh, Bihar and Madhya Pradesh states and together account for about 99 per cent of total capacity of steam plant installed in the private sector.

The total oil plant capacity in the public sector in Uttar Pradesh, Andhra, Saurashtra, Rajasthan, Bombay, Bihar, Punjab, Hyderabad, Madhya Bharat and Pepsu States decreased relatively in magnitude and together account for 81 per cent of the total oil plant capacity in the public sector. Oil generating plant capacity in the private sector in Bombay state alone was 44.5 per cent of its installation in the oil plant.

The hydro plant capacity in the public sector is concentrated in a few states only. The aggregate capacity in the pre-reorganised states of Mysore, Madras, Punjab, Uttar Pradesh, Travancore-Cochin and Andhra States, together represents about 92 per cent of the Hydro plant capacity in the public sector. Practically all the hydro plant capacity in the private sector is installed in the Bombay State.

Tables X, XI and XII give on statewise basis the generation of electricity by steam, oil and hydro plant respectively.

TABLE X—ELECTRICITY GENERATED BY STEAM PLANT DURING 1956 BY OWNERSHIP

(Million kWh)

Serial No.	State or States Union (Pre-reorganised)	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	2	3	4	5	6	7	8
1	Andhra	2·310	..	..	..	..	2·310
2	Assam .. .. .	..	..	..	..	..	..
3	Bihar	2·162	..	456·777	..	121·179	580·118
4	Bombay State .. .. .	..	635·909	..	..	629·978	1,265·882
5	Centrally Administered Areas—	..	..	..	..	..	..
	(a) Delhi State .. .. .	..	231·676	..	..	..	231·676
	(b) Rest	16·313	..	..	..	..	16·313
6	Hyderabad	57·867	..	..	..	..	57·867
7	Jammu and Kashmir .. .. .	..	..	..	..	..	..
8	Madhya Bharat	44·598	..	..	..	..	44·598
9	Madhya Pradesh .. .. .	..	217·838	..	..	44·241	262·079
10	Madras State	281·718	..	..	..	..	281·718
11	Mysore State .. .. .	..	..	..	..	..	..
12	Orissa	17·617	..	..	..	..	17·617
13	Pepsu .. .. .	..	..	..	..	..	..
14	Punjab .. .. .	..	..	..	6·769	..	6·769
15	Rajasthan	61·279	..	..	..	..	61·279
16	Saurashtra .. .. .	..	36·446	..	..	12·775	49·221
17	Travancore-Cochin .. .. .	..	..	..	..	..	..
18	Uttar Pradesh	291·468	..	..	..	199·361	490·829
19	West Bengal .. .. .	..	0·386	..	..	1,765·238	1,765·624
	Total	775·332	1,122·255	456·777	6·769	2,772·767	5,133·900

TABLE XI—ELECTRICITY GENERATED BY OIL PLANT DURING 1956 BY OWNERSHIP

(Million kWh)

Serial No.	State or States Union (Pre-reorganised)	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	2	3	4	5	6	7	8
1	Andhra	7·031	..	..	..	..	7·031
2	Assam	0·202	..	..	..	8·170	8·372
3	Bihar	8·507	..	..	..	12·457	20·964
4	Bombay State .. .. .	..	3·938	..	3·040	53·494	60·472
5	Centrally Administered Areas—	..	..	..	..	..	..
	(a) Delhi State .. .. .	..	0·435	..	..	0·106	0·541
	(b) Rest	5·770	..	..	..	15·033	20·803
6	Hyderabad	7·195	..	..	..	0·403	7·598
7	Jammu and Kashmir	0·075	..	..	..	..	0·075
8	Madhya Bharat	4·582	..	..	0·269	5·759	10·610
9	Madhya Pradesh .. .. .	..	3·720	..	..	4·188	7·908
10	Madras State	4·856	..	..	..	..	4·856
11	Mysore State	0·710	..	..	..	..	0·710
12	Orissa	1·173	..	..	..	2·344	3·517
13	Pepsu	0·315	..	..	..	0·655	0·970
14	Punjab .. .. .	..	..	..	3·300	4·089	7·389
15	Rajasthan	9·062	..	..	0·392	6·296	15·750
16	Saurashtra .. .. .	..	21·854	..	..	8·829	30·683
17	Travancore-Cochin	0·132	..	..	..	..	0·132
18	Uttar Pradesh	3·469	..	..	4·839	12·035	20·343
19	West Bengal .. .. .	..	1·403	..	0·832	2·347	4·632
	Total	53·079	31·350	..	12·722	136·205	233·356

TABLE XII—ELECTRICITY GENERATED BY HYDRO PLANT DURING 1956 BY OWNERSHIP

(Million kWh)

Serial No.	State or States Union (Pre-reorganised)	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	2	3	4	5	6	7	8
1	Andhra	158·277	..	..	..	..	158·277
2	Assam .. .. .	..	..	..	..	2·897	2·897
3	Bihar .. .. .	..	..	2·153	..	..	2·153
4	Bombay State .. .. .	..	11·828	..	..	1,455·655	1,467·483
5	Centrally Administered Areas—	..	..	..	..	..	..
	(a) Delhi State .. .. .	..	..	..	..	..	..
	(b) Rest	0·789	..	..	..	..	0·789
6	Hyderabad	11·087	..	..	..	..	11·087
7	Jammu and Kashmir	23·896	..	..	..	..	23·896
8	Madhya Bharat .. .. .	..	..	..	..	..	..
9	Madhya Pradesh .. .. .	..	..	..	..	..	..
10	Madras State	802·619	..	..	..	..	802·619
11	Mysore State	809·725	..	..	..	..	809·725
12	Orissa	0·011	..	..	..	..	0·011
13	Pepsu .. .. .	..	..	..	..	..	..
14	Punjab	413·497	..	..	12·200	..	425·697
15	Rajasthan .. .. .	..	..	..	..	..	..
16	Saurashtra .. .. .	..	..	..	..	..	..
17	Travancore-Cochin	349·599	..	..	..	..	349·599
18	Uttar Pradesh	221·668	..	..	10·641	..	232·309
19	West Bengal .. .. .	..	2·223	..	6·112	..	8·335
	Total	2,791·168	14·051	2·153	28·953	1,458·552	4,294·877

The installed plant capacity and power production in each of the states classified under ownership i.e. public sector and private sector are given in Tables XII and XIV without regard to the nature of generation. These tables summarise the details in tables VII to XII.

TABLE XIII—SUMMARY OF INSTALLED PLANT CAPACITY BY OWNERSHIP AS ON 31-12-1956

(Kilowatt)

Serial No.	State or States Union (Pre-reorganised)	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	2	3	4	5	6	7	8
1	Andhra	90,696	..	..	..	..	90,696
2	Assam	309	..	..	..	4,971	5,280
3	Bihar	14,999	..	154,000	..	35,800	204,799
4	Bombay State .. .. .	..	154,502	..	2,552	512,324	669,378
5	Centrally Administered Areas—						
	(a) Delhi State .. .. .	..	55,116	..	..	75	55,191
	(b) Rest	14,798	..	..	..	6,661	21,459
6	Hyderabad	44,431	..	..	..	490	44,921
7	Jammu and Kashmir	12,875	..	..	..	..	12,875
8	Madhya Bharat	29,091	..	..	252	3,248	32,591
9	Madhya Pradesh .. .. .	..	78,505	..	..	20,495	99,000
10	Madras State	251,076	..	..	..	152	251,228
11	Mysore State	178,276	..	..	..	..	178,276
12	Orissa	31,476	..	..	..	2,296	33,772
13	Pepsu	6,193	..	..	..	713	6,906
14	Punjab	150,755	..	..	10,156	6,646	167,557
15	Rajasthan	34,329	..	..	349	3,858	38,536
16	Saurashtra .. .. .	..	27,782	..	12	8,636	36,430
17	Travancore-Cochin	90,141	..	..	..	..	90,141
18	Uttar Pradesh	233,354	..	..	8,110	67,276	308,740
19	West Bengal .. .. .	..	6,758	..	2,640	528,967	538,365
	Total	1,182,799	322,863	154,000	24,071	1,202,608	2,886,141

TABLE XIV - SUMMARY OF GENERATION BY OWNERSHIP

(Million kWh)

Serial No.	State or States Union (Pre-reorganised)	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	2	3	4	5	6	7	8
1	Andhra	167·618	..	..	..	..	167·618
2	Assam	0·202	..	..	..	11·067	11·269
3	Bihar	10·669	..	458·930	..	133·636	603·235
4	Bombay State .. .. .	..	651·875	..	3·040	2,139·122	2,793·837
5	Centrally Administered Areas—						
	(a) Delhi State .. .. .	..	232·111	..	..	0·106	232·217
	(b) Rest	22·872	..	..	..	15·033	37·905
6	Hyderabad	76·149	..	..	..	0·403	76·552
7	Jammu and Kashmir	23·971	..	..	..	..	23·971
8	Madhya Bharat	49·180	..	..	0·269	5·759	55·208
9	Madhya Pradesh .. .. .	..	221·558	..	..	48·429	269·987
10	Madras State	1,089·193	..	..	..	..	1,089·193
11	Mysore State	810·435	..	..	..	..	810·435
12	Orissa	18·801	..	..	..	2·344	21·145
13	Pepsu	0·315	..	..	..	0·655	0·970
14	Punjab	413·497	..	..	22·269	4·089	439·855
15	Rajasthan	70·341	..	..	0·392	6·296	77·029
16	Saurashtra .. .. .	..	58·300	..	..	21·604	79·904
17	Travancore-Cochin	349·731	..	..	..	..	349·731
18	Uttar Pradesh	516·605	..	..	15·480	211·396	743·481
19	West Bengal .. .. .	..	4·012	..	6·994	1,787·585	1,778·591
	Total	3,619·579	1,167·656	458·930	48·444	4,387·524	9,662·133

During the year under review installed plant capacity per square mile of area was 2·273 kW against 2·122 kW in the previous year. The power generated per square mile of area was 7,610 kWh as against 6,768 kWh in the previous year. The net increase in capacity per square mile was 7·1 per cent and the net increase in production per square mile was 12·4 per cent over the corresponding figure for the previous year.

The installed plant capacity per thousand of population was 7.507 kW as against 7.447 kW in the previous year and the power generated per thousand of population was 25,131 kWh against 23,746 kWh in the previous year.

TABLE XV—PLANT CAPACITY AND kWh GENERATED IN DIFFERENT STATES PER SQUARE MILE AND PER THOUSAND OF POPULATION

Serial No.	State or States Union (Pre-reorganised)	Population (Million)	Area (square miles)	Total installed plant capacity (kW)	Generating plant installed per 1,000 of population (kW)	Generated plant installed per square mile (kW)	Total Generated (Million)	kWh Generated per 1,000 of population	kWh Generated per square mile
1	2	3	4	5	6	7	8	9	10
1	Andhra	21.790	63,417	90,696	4.162	1.430	167.6	7,692	2,643
2	Assam	10.204	85,012	5,280	0.517	0.062	11.3	1,107	133
3	Bihar	42.740	70,330	204,799	4.792	2.912	603.2	14,113	8,577
4	Bombay State ..	38.203	111,434	669,378	17.522	6.007	2,793.8	73,130	25,071
5	Centrally Administered areas ..								
	(a) Delhi State ..	1.853	578	55,191	29.785	95.486	232.2	125,310	401,730
	(b) Rest	8.921	80,731	21,459	2.405	0.266	37.9	4,248	469
6	Hyderabad	19.821	82,168	41,921	2.268	0.547	76.6	3,865	932
7	Jammu and Kashmir	4.686	92,780	12,875	2.748	0.139	24.0	5,122	259
8	Madhya Bharat ..	8.451	46,478	32,591	3.856	0.701	55.2	6,532	1,188
9	Madhya Pradesh ..	22.576	130,272	99,000	4.385	0.760	270.0	11,960	2,073
10	Madras State	38.790	64,373	251,228	6.447	3.903	1,089.2	28,079	16,920
11	Mysore State	9.642	29,489	178,276	18.490	6.046	810.4	84,049	27,481
12	Orissa	15.561	60,136	33,772	2.170	0.562	21.2	1,362	353
13	Pepsu	3.712	10,078	6,906	1.860	0.685	1.0	269	9
14	Punjab	13.431	37,378	167,557	12.475	4.483	439.8	32,745	11,766
15	Rajasthan	16.247	130,207	38,536	2.372	0.296	77.0	4,739	591
16	Saurashtra	4.396	21,451	36,430	8.287	1.698	79.9	18,176	3,725
17	Travancore-Cochin ..	9.860	9,144	90,141	9.142	9.858	349.7	35,467	38,244
18	Uttar Pradesh	67.167	113,409	308,740	4.597	2.722	743.5	11,069	6,556
19	West Bengal	26.414	30,779	538,365	20.382	17.491	1,778.6	67,336	57,786
	Total	384.465	1,269,644	2,886,141	7.507	2.273	9,662.1	25,131	7,610

The plant capacity per square mile was 95.5 kW in Delhi state (comprising mainly Delhi city), 17.5 kW in West Bengal, 9.9 kW in Travancore Cochin, 6.05 kW in Mysore, 6.0 kW in Bombay, 4.5 kW in Punjab, 3.9 kW in Madras, 2.9 kW in Bihar, 2.7 kW in Uttar Pradesh, 1.7 kW in Saurashtra and 1.4 kW in Andhra States respectively. In the other states the installed plant capacity per square mile was less than 1 kW.

Power generated per thousand of population was 125,310 kWh in Delhi state (comprising mainly Delhi city), 84,049 kWh in Mysore, 73,130 kWh in Bombay, 67,336 kWh in West Bengal, 35,467 kWh in Travancore Cochin, 32,745 kWh in Punjab, 28,079 kWh in Madras, 18,176 kWh in Saurashtra, 14,113 kWh in Bihar, 11,960 kWh in Madhya Pradesh and 11,069 kWh in Uttar Pradesh. In the other states power generated per thousand of population was less than 10,000 kWh.

On the basis of the square-mile of area, the power produced was 401,730 kWh in the Delhi State, (comprising mainly Delhi city), 57,786 kWh in West Bengal, 38,244 kWh in Travancore Cochin, 27,481 kWh in Mysore, 25,071 kWh in Bombay, 16,920 kWh in Madras, 11,766 kWh in Punjab, 8,577 kWh in Bihar and 6,556 kWh in Uttar Pradesh. In the other states power produced per square mile of area was below 4,000 kWh per annum. In Rajasthan and Hyderabad, the power produced was between 500 and 1,000 kWh per annum per square mile of area. In Assam, Pepsu and Jammu and Kashmir states it was less than 300 kWh per square mile per annum.

CLASSIFICATION OF UNDERTAKINGS IN TERMS OF TOTAL INSTALLED PLANT CAPACITY

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

TABLE XVI—GIVES THE CLASSIFICATION OF GENERATING UNDERTAKINGS OWNED BY DIFFERENT MUNICIPALITIES AND POWER CORPORATION IN TERMS OF TOTAL PLANT CAPACITY

Installed plant capacity	Municipality			Power Corporation		
	No. of undertakings owning generating stations	Aggregate installed capacity	Total kWh generated by the group	No. of undertakings owning generating stations	Aggregate installed capacity	Total kWh generated by the group
kW		kW	(Million) kWh		kW	(Million) kWh
Up to 250	9	836	0.811	..	..	..
251—500	2	614	0.690	..	..	..
501—750	4	2,640	3.132	..	..	..
751—1,000	1	809	1.187	..	..	..
1,001—2,500	2	3,856	8.962	..	..	..
2,501—5,000	1	3,660	15.498	..	..	..
5,001—10,000	2	11,656	18.164	..	..	..
10,001—25,000 .. .. .	..	..	..	..	..	..
25,001—50,000 .. .. .	..	..	..	..	..	..
50,001—100,000 .. .. .	..	..	..	..	..	..
Over—100,000 .. .. .	..	..	..	1	154,000	458,930
Total ..	21	24,071	48.444	1	154,000	458,930

TABLE XVII—GIVES THE CLASSIFICATION OF GENERATING UNDERTAKINGS OWNED BY DIFFERENT STATE GOVERNMENTS AND STATE ELECTRICITY BOARDS IN TERMS OF TOTAL PLANT CAPACITY

Installed capacity	State Governments			State Electricity Boards		
	No. of undertakings owning generating stations	Aggregate installed Capacity	Total kWh generated by the group	No. of undertakings owning generating stations	Aggregate installed capacity	Total kWh generated by the group
		kW	Million kWh		kW	Million kWh
Up to 250	75	8,065	7·819	53	5,616	4·148
251—500	23	9,170	10·875	16	6,839	7·350
501—750	16	10,268	11·525	4	3,700	3·922
751—1,000	9	8,732	11·612	2	1,692	3·731
1,001—2,500	9	20,581	16·200	5	11,009	7·275
2,501—5,000	8	39,119	92·525	2	11,057	22·795
5,001—10,000	5	46,175	81·924	3	20,150	45·840
10,001—25,000	5	108,639	122·888	1	22,500	79·294
25,001—50,000	3	126,236	519·605	..	..	..
50,001—100,000	3	197,500	623·640	2	122,100	437·154
Over 100,000	5	608,314	2,120·966	1	118,000	556·147
Total	161	1,182,799	3,619·579	89	322,663	1,167·656

TABLE XVIII—GIVES THE CLASSIFICATION OF GENERATING UNDERTAKING OF PUBLIC AND PRIVATE SECTOR IN TERMS OF PLANT CAPACITY

Installed Capacity	Public Sector			Private Sector			Total		
	No. of undertakings owning generating stations	Aggregate installed capacity	Total kWh generated by the group	No. of undertakings owning generating stations	Aggregate installed capacity	Total kWh generated by the group	No. of undertakings owning generating stations	Aggregate installed capacity	Total kWh generated by the group
		kW	Million kWh		kW	Million kWh		kW	Million kWh
Up to 250	137	14,517	12·778	73	11,425	9·606	210	25,942	22·384
251—500	41	16,623	18·915	38	17,234	20·344	79	33,857	39·259
501—750	24	16,608	18·579	18	13,074	19·512	42	29,682	33·091
751—1,000	12	11,233	16·530	6	7,454	9·800	18	18,687	26·330
1,001—2,500	16	35,446	32·437	25	38,039	70·931	41	73,485	103·368
2,501—5,000	11	53,836	139·818	6	26,307	67·348	17	80,143	193·166
5,001—10,000	10	77,981	145·928	2	23,325	76·329	12	101,306	222·257
10,001—25,000	6	131,139	202·182	7	97,500	340·834	13	228,639	543·016
25,001—50,000	3	126,236	519·605	1	45,000	119·950	4	171,236	639·555
50,001—100,000	5	319,600	1,060·794	..	..	..	5	319,600	1,060·794
Over 100,000	7	880,314	3,136·043	3	923,250	3,632·870	10	1,803,564	6,768·913
Total	272	1,683,533	5,294·609	179	1,202,608	4,367·524	451	2,886,141	9,662·133

In the public sector, 214 undertakings had installed capacity upto 1,000 kW which together constituted 3·5 per cent of the installed plant capacity in that sector; 37 undertakings had capacities each in the range from 1,001 to 10,000 kW and formed 9·9 per cent of the capacity and only 21 undertakings each above 10,000 kW together represented 86·6 per cent of the total installed capacity in the public sector.

In the private sector, 135 undertakings had installed capacity each in the range up to 1,000 kW which together formed 4·1 per cent of the total installation by that sector; in the capacity range 1,001 to 10,000 kW 33 undertakings had all together 7·3 per cent installed capacity and only 11 undertakings each having installed capacity above 10,000 kW constituted altogether 88·6 per cent of the total installed plant capacity in the private sector.

The plant installation in only 32 undertakings (21 in the public sector and 11 in the private sector) each of capacity in the range above 10,000 kW had an aggregate installed plant capacity of 2,523,039 kW or 87.4 per cent of the total installed capacity in the country. The corresponding generation by this group formed 93.3 per cent of total generation. Among the aforesaid 32 large undertakings the share of generation by the undertakings in the public sector constituted 50.9 per cent; whereas the same for the private sector was 42.4 per cent.

Each kW of installed plant in the public sector produced 3,145 kWh during the year as compared to 3,014 kWh in the previous year. The corresponding figure for the private sector was 3,632 kWh during the year as compared to 3,414 kWh in the previous year.

The lower utilisation of plant capacity in the public sector is mainly due to the addition of new generating plants during the latter part of the year which could only be partially utilised.

SIZES OF INDIVIDUAL GENERATING SETS

The capacity of individual generating sets installed in the power stations in the country vary over a wide range. The smallest capacity of generating sets in service were 10 kW of steam set at Datia power station in Vindhya Pradesh, and 5 kW of hydro set at Deogarh power station in Orissa. These sets are installed in the public sector.

The largest capacity of steam, oil and hydro sets were 50,000 kW, 1,030 kW and 24,000 kW respectively. Table XIX gives the number of generating sets in service classified according to capacity group.

TABLE XIX—GENERATING PLANT—SIZES OF UNITS
(Summary of the sizes of Generators installed)

Size of generating set	Total			Division of total									
				Public sector								Private sector	
	No. of generating sets	Aggregate capacity of sets	Percentage of total plant	Government		State Electricity Board		Power Corporation		Municipality		Company	
				No. of sets	Aggregate capacity	No. of sets	Aggregate capacity	No. of sets	Aggregate capacity	No. of sets	Aggregate capacity	No. of sets	Aggregate capacity
1	2	3	4	5	6	7	8	9	10	11	12	13	14
		kW	%		kW		kW		kW		kW		kW
(I) A.C. Plant													
Under 1,000 kW.	1,484	239,590	8.30	588	114,298	197	26,106	..	..	90	15,835	589	83,351
1,000 kW. but Under 2,000 kW.	66	82,733	2.87	31	39,880	6	7,830	..	..	2	2,000	27	33,523
2,000 kW. but under 5,000 kW.	81	246,625	8.54	41	119,435	10	27,500	2	4,000	2	6,200	26	39,500
5,000 kW. but Under 10,000 kW.	88	415,700	14.40	25	314,550	13	35,400	..	..	..	..	18	115,750
10,000 kW. but Under 15,000 kW.	57	657,100	22.77	30	353,600	11	114,000	..	..	..	..	16	189,500
15,000 kW. but Under 20,000 kW.	26	420,750	14.58	13	213,000	3	54,000	..	..	..	..	10	153,750
20,000 kW. but Under 30,000 kW.	15	332,000	11.50	5	120,000	..	..	..	..	..	..	10	212,000
30,000 kW. but Under 50,000 kW.	7	210,000	7.28	..	..	..	..	..	..	..	..	7	210,000
50,000 kW. and Over.	5	250,000	8.66	..	..	..	..	3	150,000	..	..	2	100,000
Total A.C. Plant	1,787	2,854,498	98.90	743	1,174,753	240	314,336	5	154,000	94	24,035	705	1,187,374
(II) D.C. Plant													
Under 100 kW.	278	11,711	0.41	99	3,271	64	2,405	..	..	2	36	113	5,999
100 kW. but Under 200 kW.	71	8,762	0.31	18	2,215	15	2,014	..	..	..	..	38	4,533
200 kW. but Under 500 kW.	35	9,328	0.32	10	2,560	7	2,066	..	..	..	..	18	4,702
500 kW. and Over.	3	1,842	0.06	..	..	3	1,842	..	..	..	..	..	..
Total D.C. Plant	387	31,643	1.10	127	8,046	89	8,327	..	..	2	36	169	15,234
Total Generating Plant.	2,174	2,886,141	100.00	870	1,182,799	329	322,663	5	154,000	96	24,071	874	1,202,608

Whereas the 1,787 A.C. sets of aggregate capacity of 2,854,498 kW represented 98.90 per cent of the total All-India installed generating plant capacity, the 387 D.C. generating sets of aggregate capacity of 31,643 kW formed only 1.10 per cent.

Of the total installed capacity 1,464 A.C. sets each less than 1,000 kW and of aggregate capacity 239,590 kW formed 8.30 per cent 213 sets in the capacity range 1,000 kW to 10,000 kW and of aggregate capacity 745,058 kW formed 25.81 per cent; 110 sets each of capacity above 10,000 kW and of aggregate capacity of 1,869,850 kW constituted 64.79 per cent. Among these 110 sets, only 12 sets of capacity each above 30,000 kW represented 15.94 per cent of the total installed plant.

Among the 387 D.C. generating sets, 278 sets each of capacity less than 100 kW and of aggregate capacity of 11,711 kW formed 0.41 per cent of the total installation. The remaining 109 sets had a total capacity of 19,932 kW and constituted 0.69 per cent of the total All-India plant capacity.

The table XIX also gives the distribution of generating sets according to capacity group in respect of both the private and public sectors of the industry. In the public sector, there were 1,082 A.C. sets and 218 D.C. sets respectively. The corresponding numbers in the private sector were 705 A.C. sets and 169 D.C. sets.

In the public sector 875 A.C. sets were of capacity less than 1,000 kW each with aggregate capacity of 156,239 kW or 9.3 per cent of the total plant capacity installed by the public sector. Similarly 142 A.C. sets in the capacity range of 1,000 to 10,000 kW and of aggregate capacity 506,285 kW accounted for 30.1 per cent and 65 A.C. sets of capacity above 10,000 kW each and of aggregate capacity 1,004,600 kW accounted for 59.7 per cent. Among the 218 D.C. sets which were in operation, 165 D.C. sets each of capacity less than 100 kW and of aggregate capacity of 5,712 kW accounted for 0.3 per cent of the total plant installed capacity in the public sector. The remaining 53 D.C. generating sets of capacity between 100 to 500 kW and of aggregate capacity 10,697 kW accounted for 0.6 per cent of the total plant installed by the public sector.

In the private sector of the industry 589 A.C. sets each of capacity less than 1,000 kW had an aggregate capacity of 83,351 kW and accounted for 6.9 per cent, 71 A.C. sets in the range of 1,001 to 10,000 kW with an aggregate capacity of 238,773 kW accounted for 19.9 per cent and 45 A.C. sets each above 10,000 kW together had capacity of 865,250 kW accounting for 71.9 per cent respectively of the total plant installed by the private sector.

Among the D.C. generating sets installed in the private sector of the industry 113 were each of capacity upto 100 kW with an aggregate capacity of 5,999 kW accounting for 0.5 per cent of the total plant installed capacity in the private sector. The remaining 56 D.C. sets each of capacity between 100 to 500 kW and aggregate capacity of 9,235 kW represented 0.8 per cent of the total plant installed in the private sector.

A.C. AND D.C. GENERATION

Out of 451 generating undertakings, 348 had A.C. generating plants, 87 had only D.C. generating plants and the remaining 16 had both A.C. and D.C. generating plants. The A.C. generating sets together produced 99.6 per cent of the power sold to consumers.

Table XX gives plant capacity and energy generation in term of A.C. and D.C. categories.

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

System of generation adopted	No. of undertakings owning generating station	Aggregate installed capacity of generating plants (kilowatts)	Percentage of Grand total	kWh generated in (millions)	Percentage of Grand total
Alternating current only	348	2,858,250	92.10	9,147,569	94.68
Alternating current and Direct current	16	{ A.C. 198,248	6.80	{ A.C. 471,720	4.88
Direct current only	87	{ D.C. 7,198	0.25	{ D.C. 14,717	0.15
		24,445	0.85	28,127	0.29
Total	451	{ A.C. 2,854,498	98.90	{ A.C. 9,619,289	99.56
Grand Total	451	{ D.C. 31,643	1.10	{ D.C. 42,844	0.44
		2,886,141	100.00	9,662,133	100.00

CLASSIFICATION OF POWER STATION ACCORDING TO PLANT CAPACITY

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

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

Generating plant capacity kW	No. of Generating Stations	Aggregate installed capacity kW	Total kWh generated by the group (Millions)	Capacity of boilers in 1,000 lbs/hr for the group	Average capacity of the boiler in lbs/kW of generating capacity
1	2	3	4	5	6
Up to 250	8	690	0.575	26	37.7
251 to 500	5	1,745	2.206	52	29.8
501 to 750	9	5,698	9.465	130	22.8
751 to 1,000	3	2,800	2.488	96	34.3
1,001 to 2,500	11	17,741	18.113	308	17.4
2,501 to 5,000	14	58,593	149.759	874	14.9
5,001 to 10,000	8	63,175	138.131	701	11.1
10,001 to 25,000	17	276,320	795.648	3,385	12.3
25,001 to 50,000	8	308,400	945.629	3,054	9.9
Over 50,000	8	861,250	3,071.886	10,315	12.0
Total	91	1,596,412	5,133.900	18,941	11.9

There were 33 stations with installed plant capacity above 10,000 kW and among them 8 stations had capacity each above 50,000 kW. A group of other 33 stations had installed capacity between 1,000 to 10,000 kW. The remaining 25 stations had capacity below 1,000 kW and among them 8 stations were of capacity less than or upto 250 kW each.

The 33 stations of capacity each above 10,000 kW produced 93.7 per cent of the total power generated by all the steam power stations. Only 8 stations in this group each of capacity above 50,000 kW however, produced 60 per cent of the total power produced by the steam power stations. The 33 stations each of installed capacity between 1,000 kW to 10,000 kW together generated 6.0 per cent and 25 power stations each of capacity less than 1,000 kW generated in all 0.3 per cent of the total power produced in all the steam stations in India.

In the last column of table XXI are given the average steam capacity of boilers expressed in lbs. per kW of the installed generating plant capacity. For stations of capacity up to 1,000 kW the boiler capacity ranged from 22.8 lbs. to 37.7 lbs. per kW installed, the higher range of steam capacity per kW is ascribed to a number of small reciprocating steam engine sets installed in some of the old power stations. In the capacity range above 1,000 kW the boiler capacity varies from 9.9 lbs. to 17.4 lbs. per kW of generating plant installed. The steam pressures adopted in the power stations in India range from 100 lbs. per square inch to 1,250 pounds per square inch. It is only one station and which is in the private sector of the industry where the pressure adopted is 1,250 lbs. per square inch.

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

TABLE XXII—CLASSIFICATION OF DIESEL POWER STATIONS IN TERMS OF PLANT CAPACITY

Installed Capacity	No. of generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Millions)
1	2	3	4
Upto 100	124	5,971	5.515
101 to 250	126	21,372	15.405
251 to 500	110	88,161	39.566
501 to 750	54	33,328	34.078
751 to 1,000	25	21,283	22.487
1,001 to 2,500	52	78,237	83.987
2,501 to 5,000	9	29,936	32.318
Total	500	228,288	233.356

250 stations out of a total of 500 had each capacity less than or upto 250 and their aggregate capacity was 12.0 per cent of the total installed diesel plant capacity in India; 241 stations each of capacity in the range 250 to 2,500 kW and of aggregate capacity of 171,009 kW accounted for 74.9 per cent and 9 stations each of capacity above 2,500 kW. together accounted for 13.1 per cent of the total installed diesel plant capacity.

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

TABLE XXIII—CLASSIFICATION OF HYDRO POWER STATIONS IN TERMS OF CAPACITY

Installed capacity (kW)	No. of generating stations	No. of Aggregate installed capacity (kW)	Aggregate Total kWh generated by the group (Millions)	Average plant load factor %
1	2	3	4	5
Up to 250	12	1,117	1.185	12.1
251 to 500	2	1,150	7.377	73.2
501 to 750	1	800	2.223	31.7
751 to 1,000	7	10,124	31.760	35.8
1,001 to 2,500	9	33,100	117.187	40.4
2,501 to 5,000	1	6,000		
5,001 to 10,000	6	109,300	299.279	31.3
10,001 to 25,000	9	388,900	1,233.583	37.7
25,001 to 50,000	6	510,950	2,552.283	57.0
Over 50,000				
Total	53	1,061,441	4,294.877	46.2

There were only 6 stations each of capacity above 50,000 kW and of aggregate capacity 510,950 kW. which accounted for 48.2 per cent of the total installed hydro plant capacity and produced 59.4 per cent of the total hydro generation. 15 stations in the range 10,001 to 50,000 kW and of aggregate capacity 498,200 kW accounted for 46.9 per cent. of total capacity and produced 36.9 per cent of the total hydro generation. As many as 32 other stations each of capacity in the ranges 10,000 kW and below and of aggregate installed capacity 52,291 kW accounted for 4.9 per cent only of the total hydro plant capacity and produced 3.7 per cent of the total hydro power.

The average plant load factor of the hydro stations varied between 12.1 per cent to 73.2 per cent. The lowest plant load factor was registered in stations of capacity 250 kW. or below.

FUEL CONSUMPTION

Fuel and diesel oil consumed in the steam and in the diesel power stations in India for the year 1956 are given in table XXIV.

Table XXIV—FUEL CONSUMPTION

Type of Stations	Total Fuel consumption		Total kWh generated (Millions)	Average fuel consumption in lbs/kWh generated
	Coal Tons	Oil Tons		
1	2	3	4	5
Steam Power Stations	4,003,098.0*	..	5,133.900	1.747
Oil Power Stations .. .. .	..	75,056.3	233.356	0.720

*Includes about 32,140.4 tons of furnace oil converted into equivalent quantity of coal.

4,003,098 tons of fuel (mostly coal) and 75,056 tons of diesel oil were consumed in the steam and diesel stations respectively. The quantity of coal consumed in the steam power stations increased by 8.8 per cent over the consumption in the previous year. Electricity generation, however, increased by 11.2 per cent due to more efficient and new steam plants which were commissioned in recent years and also partly due to a number of smaller inefficient stations changing over to bulk power supply from other large and efficient power systems.

The average coal consumption per kWh. generated by steam plant (including reciprocating steam plants) was 1.747 lbs. as compared to 1.785 lbs. during 1955 which was equivalent to the national average heat rate of about 18,821 B. Th. U. per kWh generated as compared to 19,355 B. Th. U. per kWh in the previous year. The national average heat rate improved by 2.8 per cent during the year. The lowest coal consumption was 1.195 lbs./kWh and lowest heat rate registered was, 12,112 B.Th. U./kWh.

In the diesel stations, diesel oil consumption decreased by 0.6 per cent and power production increased by 0.9 per cent. The national average oil consumption for the diesel power stations was 0.720 lbs. per kWh as compared with 0.731 lbs./kWh was in 1955. The improvement in diesel oil consumption per kWh was 1.505 per cent.

THERMAL EFFICIENCY OF STEAM POWER STATIONS

In table XXV the distribution of steam power stations classified according to their average over all thermal efficiency has been shown.

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

Overall thermal efficiency	No. of generating stations	Aggregate installed capacity (kW)	kWh generated by the group (Millions)
1	2	3	4
Under 10%	49	127,174	171.016
10% and under 12.5%	8	60,143	165.378
12.5% and under 15%	13	228,275	528.110
15% and under 17.5%	7	173,570	535.617
17.5% and under 20.0%	7	406,250	1,347.778
20.0% and under 22.5%	5	338,500	1,231.910
22.5% and above	2	262,500	1,154.091
Total	91	1,596,412	5,133.900

The average overall thermal efficiency of all the steam power stations was 18.1 per cent as compared with 17.6 per cent in the previous year. The improvement in fuel consumption per kWh was about 2.1 per cent over the previous year.

Out of 91 steam stations, 49 stations operated with overall thermal efficiencies below 10 per cent but these stations together had only 8.0 per cent of the total steam power plant capacity and generated about 3.3 per cent of the total electricity produced by all the steam stations. Only 7 large stations which had in aggregate 601,000 kW of plant capacity operated at thermal efficiencies above 20 per cent. The highest thermal efficiency registered was 28.2 per cent.

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

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

Generating Plant Capacity	No. of generating stations	Aggregate installed capacity	Total kWh generated by the group	Average overall efficiency	Average plant load factor
1	2	3	4	5	6
kw		kw	Millions	%	%
Up to 250	8	690	0.575	1.7	9.5
251 to 500	5	1,745	2.206	4.4	14.4
501 to 750	9	5,698	9.465	3.7	19.0
751 to 1,000	3	2,800	2.488	2.8	10.1
1,001 to 2,500	11	17,741	18.113	5.5	11.7
2,501 to 5,000	14	58,593	149.759	10.3	29.2
5,001 to 10,000	8	63,175	138.131	12.9	25.0
10,001 to 25,000	17	276,320	795.648	14.0	32.9
25,001 to 50,000	8	308,400	945.629	18.3	35.0
Over 50,000	8	861,250	3,071.886	21.6	40.7
Total	91	1,596,412	5,133.900	18.1	36.7

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

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

Generating Plant Capacity	No. of generating stations	Aggregate installed capacity	Total kWh generated by the group	Fuel consumptions in tons	Fuel consumption lbs./kWh generated	Average Plant load factor
Up to 100	124	5,971	5.515	2,580.6	1.05	10.5
101 to 250	126	21,372	15.405	5,942.3	0.86	8.2
251 to 500	110	38,161	39.566	14,532.9	0.82	11.8
501 to 750	54	33,328	34.078	11,260.7	0.74	11.7
751 to 1,000	25	21,283	22.487	7,091.8	0.71	12.1
1,001 to 2,500	52	78,237	83.987	25,143.9	0.67	12.3
2,501 to 5,000	9	29,936	32.318	8,504.1	0.59	12.3
Total	500	228,288	233.356	75,056.3	0.72	11.7

MAXIMUM DEMAND OF POWER SYSTEMS

The sum of the highest annual maximum demands on individual system of public electric utilities amounted to 1,989,774 kW which is 68.9 per cent of the total plant capacity as against 68.6 per cent in the previous year. The aggregate demand in the public sector and private sectors were 66.8 and 71.9 per cent respectively of the installed capacity in each sector as against 66.9 per cent and 70.9 per cent respectively in the previous year.

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

TABLE XXVIII—CLASSIFICATION OF UNDERTAKINGS IN TERMS OF MAXIMUM DEMAND

Maximum Demand on Generating Undertaking	Public Sector								Private Sector		Total	
	Government		Board		Power Corporation		Municipality		Company		No. of undertakings owning generating stations	Aggregate maximum demand
	No. of undertakings owning generating stations	Aggregate maximum demand	No. of undertakings owning generating stations	Aggregate maximum demand	No. of undertakings owning generating stations	Aggregate maximum demand	No. of undertakings owning generating stations	Aggregate maximum demand	No. of undertakings owning generating stations	Aggregate maximum demand		
1	2	3	4	5	6	7	8	9	10	11	12	13
Upto 50 kW	42	938	36	815	..	..	5	96	24	541	107	2,390
51 to 250	51	5,002	33	4,115	..	..	7	880	85	11,081	176	21,078
251 to 500	28	9,935	5	1,761	..	..	4	897	24	9,164	61	21,757
501 to 1,000	9	4,038	7	3,923	..	..	1	540	19	14,068	36	23,569
1,001 to 2,500	7	9,320	..	..	..	..	2	3,758	11	14,947	30	28,025
2,501 to 5,000	9	32,098	3	8,870	..	..	2	6,270	4	22,480	18	69,716
5,001 to 10,000	3	17,430	1	7,600	..	..	..	..	6	53,300	10	78,330
10,001 to 25,000	1	16,100	1	16,440	..	..	..	..	2	28,200	4	58,740
25,001 to 50,000	5	207,386	1	48,910	..	..	..	..	1	27,350	7	283,640
50,001 to 100,000	4	287,295	2	120,029	..	78,805	..	..	..	..	7	466,129
Over 100,000	2	251,400	..	..	..	..	..	..	3	688,000	5	937,400
Total	161	820,934	89	212,463	1	78,805	21	12,441	179	665,181	451	1,989,774

344 undertakings or 76 per cent of generating undertakings out of 451 each registered annual maximum demands of 500 kW or less. The annual maximum demands in excess of 10,000 kW were incident on only 23 undertakings (*i.e.*, 17 in the public sector and 6 in the private sector) which together met about 87.7 per cent (50.5 per cent in public sector and 37.2 per cent in private sector) of the total demand for power in the country. Out of these 23 undertakings only 2 undertakings in the public sector and 3 undertakings in the private sector on which the incident demands were above 100,000 kW together met about 47.1 per cent of the total All-India demand for power.

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

TABLE XXIX—CLASSIFICATION OF UNDERTAKINGS ACCORDING TO kWh GENERATED

kWh generated	Public Sector								Private Sector		Total	
	Government		Board		Power Corporation		Municipality		Company		No. of undertakings	Total kWh generated by the group
	No. of undertakings	Total kWh generated by the group	No. of undertakings	Total kWh generated by the group	No. of undertakings	Total kWh generated by the group	No. of undertakings	Total kWh generated by the group	No. of undertakings	Total kWh generated by the group		
1	2	3	4	5	6	7	8	9	10	11	12	13
Upto 0.250 Millions	82	5.254	56	4.024	..	..	9	0.811	65	5.758	212	15.845
0.251 to 0.500	18	7.451	9	3.511	..	..	2	0.690	28	10.332	57	21.984
0.501 to 1.000	15	10.092	7	4.342	..	..	4	3.132	25	17.193	51	34.759
1.001 to 2.500	17	28.557	9	14.549	..	..	2	3.155	29	51.130	67	97.391
2.501 to 5.000	4	15.767	..	..	..	..	..	..	12	40.610	16	56.377
5.001 to 10.000	5	40.181	2	19.394	..	..	2	13.785	3	18.935	13	92.275
10.001 to 25.000	6	95.199	1	12.795	..	..	2	26.891	5	91.922	14	228.807
25.001 to 50.000	2	53.854	1	36.446	..	..	..	..	6	238.609	9	328.909
50.001 to 100.000	1	57.887	1	79.294	..	..	..	..	2	140.217	4	277.398
100.001 to 250.000	6	1,143.245	2	487.154	..	..	..	..	1	119.950	9	1,700.349
250.001 to 500.000	4	1,351.857	..	..	1	458.930	..	..	..	..	5	1,810.587
500.001 to 1,000.000	1	810.435	1	556.147	..	..	..	..	1	608.916	3	1,975.498
1,000.000 and above	..	..	..	..	..	..	..	..	2	3,023.954	2	3,023.954
Total	161	3,619.579	89	1,167.656	1	458.930	21	48.444	179	4,367.524	451	9,862.133

Only 19 undertakings (4 in the private and 15 in the public sector) generated each in excess of 100 million kWh and together accounted for about 88.1 per cent of total electricity produced in the country. The remaining 432 undertakings generated 11.9 per cent of the total energy output.

All the 272 undertakings in the public sector produced 54.8 per cent of the total All-India output. 15 undertakings, however, out of these 272 undertakings generated each in excess of 100 million kWh and accounted for 89.9 per cent of the total energy output by the public sector or 49.2 per cent of All-India energy output.

179 undertakings in the private sector produced about 45.2 per cent of the total energy output in India. Among these 179 undertakings, only two undertakings produced each in excess of 1,000 million kWh and together accounted for 69.2 per cent of the total production by the private sector or 31.3 per cent of the total All-India energy output.

320 smaller undertakings in all, both in the private and public sectors, which produced each less than or upto one million kWh, contributed only 0.75 per cent of the total electricity output in India.

AVERAGE OUTPUT, LOAD FACTORS ETC. FOR STEAM, OIL AND HYDRO STATIONS

Table XXX gives the average energy output per kW of generating plant capacity, station load factor and plant utilisation factor for steam, diesel and hydro stations in India for the year under review.

TABLE XXX—AVERAGE OUTPUT, LOAD FACTOR AND DEMAND FACTOR

Type of power plant	Aggregate installed capacity of generating plant	kWh generated	Aggregate Maximum demand of individual generating station	kWh generated per kW of average plant capacity	Combined load factor based on Col. (3) and (4)*	Plant demand factor
	kW	Millions	kW	kWh	%	%
Steam	1,596,412	5,133.900	1,006,829	3,216	58.2	63.1
Oil	228,288	233.356	100,769	1,022	26.4	44.1
Hydro	1,061,441	4,294.877	882,176	4,046	55.6	83.1
Total .. .	2,886,141	9,662.133	1,989,774	3,348	55.4	68.9

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

The All-India average load factor for all the steam power stations was 58.2 per cent and continued to be higher than that for the hydro stations. The national average load factor of the hydro stations improved from 53.0 per cent in the previous year to 55.6 per cent in the current year. A few large steam stations operated at load factors from 59 to 66 per cent and in some hydro stations the average load factors ranged from 45 per cent to nearly 76 per cent.

The All India average annual output per kW of installed plant capacity of hydro plant increased from 3,983 kWh in 1955 to 4,046 kWh during the year.

The All-India average plant demand factor in hydro stations was 83.1 per cent and continued to be higher than that in the steam stations. The plant demand factor in the steam stations improved from 61.6 per cent in 1955 to 63.1 in the current year.

VOLTAGE OF GENERATION

Generation voltages in India range from 230 volts to 33,000 volts in the stations generating A. C. power; D. C. power was generated at voltages from 110 volts to 500 volts.

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

TABLE XXXI—CLASSIFICATION OF UNDERTAKINGS ACCORDING TO VOLTAGE OF GENERATION

Sl. No.	A.C. or D.C.	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	No. of undertakings owning generating stations	Aggregate installed capacity	No. of undertakings owning generating stations	Aggregate installed capacity	No. of undertakings owning generating stations	Aggregate installed capacity	No. of undertakings owning generating stations	Aggregate installed capacity	No. of undertakings owning generating stations	Aggregate installed capacity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
				kW		kW		kW		kW		kW		kW
1	A.C. 3 Phase	33 kV	..	..	..	..	..	..	..	..	1	280,000	1	280,000
2	A.C. 3 Phase	11 kV	14	781,450	7	165,000	1	*154,000	..	..	4	*337,500	26	1,388,150
3	A.C. 3 Phase	6 to 6.6 kV	12	158,024	4	120,010	..	..	2	11,380	7	244,404	25	533,798
4	A.C. 3 Phase	5 to 5.5 kV	1	45,000	..	..	..	..	..	..	1	142,435	2	187,435
5	A.C. 3 Phase	3 to 3.5 kV	29	91,891	11	14,985	..	..	5	7,070	55	129,780	100	243,726
6	A.C. 3 Phase	2 to 2.35 kV	9	68,699	2	1,874	..	..	..	..	3	5,000	14	75,573
7	A.C. 3 Phase	500 V	..	..	..	..	..	..	..	..	2	2,220	2	2,220
8	A.C. 3 Phase	400 to 460 V	96	78,747	53	12,453	..	..	17	5,605	131	46,035	297	142,840
9	A.C. 1 Phase	230 V	5	227	..	..	..	..	..	..	..	..	5	227
10	D.C. 3 Wire	390 to 500 V	6	2,554	2	1,865	..	..	..	..	14	3,983	22	8,352
11	D.C. 3 Wire	440 to 460 V	14	3,506	19	5,425	..	..	..	..	22	11,255	55	20,186
12	D.C. 2 Wire	220 to 240 V	20	2,416	15	1,051	..	..	2	36	10	36	47	3,539
13	D.C. 2 Wire	110 to 115 V	3	85	..	..	..	..	..	..	1	10	4	95
	Total	..	309	1,182,799	113	322,663	1	154,000	26	24,071	251	1,202,608	600	2,386,141

*Includes one 50,000 kW set at Trombay generating station, at 13.8 kV.

**Includes three 50,000 kW each sets at Bokaro generating station, at 13.8 kV.

FREQUENCY OF A. C. POWER SUPPLY

About 97.8 per cent of the total A. C. plant installed in the country generated power at standard 50 cycles frequency. The remaining 2.2 per cent of the plant (owned by three undertakings only) generated power at frequencies other than 50 cycles. In Burdwan town (West Bengal) power is generated at both 50 and 60 cycles, and in Mohora power station of the Kashmir Government and Sivasamudram and Shimshapura stations of the Mysore Government power is generated at 25 cycles.

CLASSIFICATION OF UNDERTAKINGS IN TERMS OF SYSTEM OF SUPPLY

In table XXXII the electricity supply undertakings are classified according to the system of supply, both in the public as well as private sectors.

671 undertakings were supplying power at standard 50 cycles and 3 undertakings in the public sector at non-standard frequencies.

TABLE XXXII—CLASSIFICATION OF UNDERTAKINGS IN TERMS OF SYSTEM OF SUPPLY A. C. OR D. C.

System of supply	Division of total		
	No. of undertakings	Public authority undertakings	Company undertakings
A. C. only	635	388	247
A. C. & D. C.	37	22	15
D. C. only	104	65	39
Total	776	475	301
Standard frequency (50 cycles per second)	671	409	262
Non-Standard frequencies—			
(i) 25 cycles per second	2	2	..
(ii) 60 cycles per second	1	1	..
Total	3	3	..
Grand Total	674*	412	262

*Although the total No. of A. C. undertakings is only 672 (635 plus 37), there is an increase of two numbers due to the fact that Burdwan and Mysore have been counted twice as they had two different frequencies of supply respectively.

INSTALLED GENERATING PLANT AND POWER PRODUCTION IN DIFFERENT STATES OF INDIA AS PER REORGANISED SET UP

Table XXXIII, XXXIV and XXXV give the break up of installed plant capacity in the reorganised states of the Indian Union both under Public and Private Sectors of the Industry.

TABLE XXXIII—INSTALLED STEAM PLANT CAPACITY BY OWNERSHIP AS ON 31-12-1956 ON THE BASIS OF THE REORGANISED SET UP OF THE STATES

(Kilowatt)

Serial No.	Reorganised State and Union Territories	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	2	3	4	5	6	7	8
1	Andhra	46,000	..	..	..	..	46,000
2	Assam .. .. .	..	..	..	..	822	822
3	Bihar	5,850	..	150,000	..	29,195	185,045
3	Bombay State .. .. .	..	207,360	..	..	201,350	408,710
5	Jammu & Kashmir	1,500	..	..	..	..	1,500
6	Kerala .. .. .	..	..	..	..	..	..
7	Madhya Pradesh .. .. .	..	48,818	..	..	17,504	66,322
8	Madras State	84,000	..	..	..	..	84,000
9	Mysore State .. .. .	..	..	..	..	..	..
10	Orissa	5,776	..	..	..	..	5,776
11	Punjab	1,626	..	..	6,200	..	7,826
12	Rajasthan	24,000	..	..	..	..	24,000
13	Uttar Pradesh	119,885	..	..	..	59,975	179,860
14	West Bengal .. .. .	..	850	..	..	527,501	528,351
15	Union Territories—						
	(a) Andaman	1,100	..	..	..	..	1,100
	(b) Delhi State .. .. .	..	52,400	..	..	..	52,400
	(c) Himachal Pradesh .. .. .	..	..	..	..	..	..
	(d) Manipur .. .. .	..	..	..	..	..	..
	(e) Tripura .. .. .	..	..	..	..	..	..
16	Pondicherry State	4,900	..	..	..	..	4,900
	Total	294,637	309,428	150,000	6,200	836,147	1,596,412

TABLE KXXIV—INSTALLED OIL PLANT CAPACITY BY OWNERSHIP AS ON 31-12-1956 ON THE BASIS OF THE REORGANISED SET UP OF THE STATES

(Kilowatt)

Serial No.	Reorganised States and Union Territories	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	2	3	4	5	6	7	8
1	Andhra	19,711	..	..	..	165	19,876
2	Assam	309	..	..	..	3,799	4,108
3	Bihar	9,146	..	..	..	6,247	15,396
4	Bombay State .. .. .	..	21,840	..	2,564	44,118	68,522
5	Jammu & Kashmir	769	..	..	..	..	769
6	Kerala	4,125	..	..	..	152	4,277
7	Madhya Pradesh .. .. .	..	10,718	..	252	5,014	15,984
8	Madras State	516	..	..	..	..	516
9	Mysore State	7,902	..	..	..	4,362	12,264
10	Orissa	1,695	..	..	..	2,296	3,991
11	Punjab	11,082	..	..	2,206	7,359	20,647
12	Rajasthan	10,329	..	..	349	9,109	19,787
13	Uttar Pradesh	21,229	..	..	3,960	7,301	32,490
14	West Bengal	3,108	..	..	680	1,824	5,612
15	Union Territories—						
	(a) Andaman .. .. .	..	..	..	..	..	..
	(b) Delhi State .. .. .	..	2,716	..	..	75	2,791
	(c) Himachal Pradesh	292	..	..	..	..	292
	(d) Manipur	124	..	..	..	..	124
	(e) Tripura	397	..	..	..	..	397
16	Pondicherry State	445	..	..	..	..	445
	Total	91,182	35,274	..	10,011	91,821	228,288

TABLE XXXV—INSTALLED HYDRO PLANT CAPACITY BY OWNERSHIP AS ON 31ST DECEMBER 1956
ON THE BASIS OF THE REORGANISED SET UP OF THE STATES

(Kilowatt)

Serial No.	Reorganised States and Union Territories	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	2	3	4	5	6	7	8
1	Andhra	66,000	..	..	..	..	66,000
2	Assam .. .. .	..	..	..	..	550	550
3	Bihar .. .. .	..	..	4,000	..	..	4,000
4	Bombay State .. .. .	..	5,824	..	..	274,090	279,914
5	Jammu & Kashmir	10,606	..	..	..	..	10,606
6	Kerala	85,500	..	..	..	..	85,500
7	Madhya Pradesh .. .. .	..	..	..	..	..	..
8	Madras State	165,150	..	..	..	..	165,150
9	Mysore State	178,200	..	..	..	..	178,200
10	Orissa	24,005	..	..	..	..	24,005
11	Punjab	144,240	..	..	1,750	..	145,990
12	Rajasthan .. .. .	..	..	..	..	..	..
13	Uttar Pradesh	92,240	..	..	4,150	..	96,390
14	West Bengal .. .. .	..	2,800	..	1,960	..	4,760
15	Union Territories—						
	(a) Andaman .. .. .	..	..	..	..	..	..
	(b) Delhi State .. .. .	..	..	..	..	..	..
	(c) Himachal Pradesh	220	..	..	..	..	220
	(d) Manipur	156	..	..	..	..	156
	(e) Tripura .. .. .	..	..	..	..	..	..
16	Pondicherry State .. .. .	..	..	..	..	..	..
	Total	766,817	8,624	4,000	7,860	274,640	1,061,441

Table XXXVI, XXXVII and XXXVIII give on the reorganised statewise basis the generation of electricity by Steam Oil and Hydro plant respectively.

TABLE XXXVI—ELECTRICITY GENERATED BY STEAM PLANT DURING 1956 BY OWNERSHIP ON THE BASIS OF THE REORGANISED SET UP OF THE STATES

(Million kWh)

Serial No.	Reorganised States and Union Territories	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	2	3	4	5	6	7	8
1	Andhra	60·177	..	..	..	..	60·177
2	Assam .. .. .	..	..	..	..	..	..
3	Bihar	2·162	..	456·777	..	121·179	580·118
4	Bombay State .. .. .	..	838·967	..	..	642·748	1,481·715
5	Jammu and Kashmir .. .. .	..	..	..	..	..	..
6	Kerala .. .. .	..	..	..	..	..	..
7	Madhya Pradesh .. .. .	..	105·829	..	..	44·241	150·070
8	Madras State	281·718	..	..	..	..	281·718
9	Mysore State .. .. .	..	..	..	..	..	..
10	Orissa	17·617	..	..	..	..	17·617
11	Punjab .. .. .	..	..	..	6·769	..	6·769
12	Rajasthan	61·279	..	..	..	..	61·279
13	Uttar Pradesh	291·468	..	..	..	199·361	490·829
14	West Bengal .. .. .	..	0·386	..	..	1,765·238	1,765·624
15	Union Territories—						
	(a) Andaman	1·057	..	..	..	..	1·057
	(b) Delhi State .. .. .	..	231·676	..	..	..	231·676
	(c) Himachal Pradesh .. .. .	..	..	..	..	..	..
	(d) Manipur .. .. .	..	..	..	..	..	..
	(e) Tripura .. .. .	..	..	..	..	..	..
16	Pondicherry State	5·251	..	..	..	..	5·251
	Total	720·729	1,176·858	456·777	6·769	2,772·767	5,183·900

TABLE XXXVII—ELECTRICITY GENERATED BY OIL PLANT DURING 1956 BY OWNERSHIP ON THE BASIS OF THE REORGANISED SET UP OF THE STATES

(Million kWh)

Serial No.	Reorganised States and Union Territories	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	2	3	4	5	6	7	8
1	Andhra	9·476	..	..	..	0·185	9·661
2	Assam	0·202	..	..	..	8·170	8·372
3	Bihar	8·507	..	..	..	12·457	20·964
4	Bombay State .. ..	..	28·421	..	8·040	58·995	93·456
5	Jammu and Kashmir	0·075	..	..	..	..	0·075
6	Kerala	0·132	..	..	..	..	0·132
7	Madhya Pradesh .. ..	..	10·302	..	0·269	8·700	19·271
8	Madras State .. ..	..	..	..	..	..	..
9	Mysore State	9·903	..	..	..	6·546	16·449
10	Orissa	1·173	..	..	..	2·344	3·517
11	Punjab	0·315	..	..	3·300	4·744	8·359
12	Rajasthan	9·062	..	..	0·392	19·576	29·030
13	Uttar Pradesh	3·469	..	..	4·839	12·035	20·343
14	West Bengal .. ..	..	1·403	..	0·882	2·347	4·632
15	Union Territories—	..	..	..	..	..	..
	(a) Andaman .. ..	..	..	..	..	..	..
	(b) Delhi State .. ..	..	0·435	..	..	0·106	0·541
	(c) Himachal Pradesh	0·324	..	..	..	..	0·324
	(d) Manipur	0·132	..	..	..	..	0·132
	(e) Tripura	1·032	..	..	..	..	1·032
16	Pondicherry State	0·066	..	..	..	..	0·066
	Total	43·868	40·561	..	12·722	136·205	233·356

TABLE XXXVIII—ELECTRICITY GENERATED BY HYDRO PLANT DURING 1956 BY OWNERSHIP ON THE BASIS OF THE REORGANISED SET UP OF THE STATES.

(Million kWh)

Serial No.	Reorganised States and Union Territories	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	2	3	4	5	6	7	8
1	Andhra	169·364	..	..	..	..	169·364
2	Assam .. ..	..	..	..	..	2·897	2·897
3	Bihar .. ..	..	..	2·153	..	..	2·153
4	Bombay State .. ..	..	11·828	..	..	1,455·655	1,467·483
5	Jammu and Kashmir	23·896	..	..	..	..	23·896
6	Kerala	349·599	..	..	..	..	349·599
7	Madhya Pradesh .. ..	..	..	..	..	..	..
8	Madras State	802·619	..	..	..	..	802·619
9	Mysore State	809·725	..	..	..	..	809·725
10	Orissa	0·011	..	..	..	..	0·011
11	Punjab	413·497	..	..	12·200	..	425·697
12	Rajasthan .. ..	..	..	..	..	..	..
13	Uttar Pradesh	221·668	..	..	10·641	..	232·309
14	West Bengal .. ..	..	2·223	..	6·112	..	8·335
15	Union Territories—	..	..	..	..	..	..
	(a) Andaman .. ..	..	..	..	..	..	..
	(b) Delhi State .. ..	..	..	..	..	..	..
	(c) Himachal Pradesh	0·396	..	..	..	..	0·396
	(d) Manipur	0·393	..	..	..	..	0·393
	(e) Tripura .. ..	..	..	..	..	..	..
16	Pondicherry State .. ..	..	..	..	..	..	..
	Total	2,791·168	14·051	2·153	28·953	1,458·552	4,294·877

The installed plant capacity and power production in each of the reorganised states classified according to ownership are given in tables XXXIX and XL respectively. These tables summarise the details of tables XXXIII to XXXVIII.

TABLE XXXIX—SUMMARY OF INSTALLED PLANT CAPACITY BY OWNERSHIP AS ON 31-12-1956
ON THE BASIS OF THE REORGANISED SET UP OF THE STATES

(Kilowatt)

Serial No.	Reorganised States and Union Territories	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	2	3	4	5	6	7	8
1	Andhra	131,711	..	..	..	165	131,876
2	Assam	309	..	..	..	4,971	5,280
3	Bihar	14,999	..	154,000	..	35,442	204,441
4	Bombay State .. ..	..	235,024	..	2,564	519,558	757,146
5	Jammu and Kashmir	12,875	..	..	..	..	12,875
6	Kerala	89,625	..	..	..	152	89,777
7	Madhya Pradesh .. ..	..	59,536	..	252	22,518	82,308
8	Madras State	249,668	..	..	..	..	249,666
9	Mysore State	186,102	..	..	..	4,362	190,464
10	Orissa	31,476	..	..	..	2,296	33,772
11	Punjab	156,948	..	..	10,156	7,359	174,463
12	Rajasthan	34,329	..	..	349	9,109	43,787
13	Uttar Pradesh	233,354	..	..	8,110	67,276	308,740
14	West Bengal	3,108	3,650	..	2,640	529,325	538,723
15	Union Territories—	..	..	..	..	..	..
	(a) Andaman	1,100	..	..	..	..	1,100
	(b) Delhi State .. ..	..	55,116	..	..	75	55,191
	(c) Himachal Pradesh	512	..	..	..	..	512
	(d) Manipur	280	..	..	..	..	280
	(e) Tripura	397	..	..	..	..	397
16	Pondicherry State	5,345	..	..	..	..	5,345
	Total	1,152,136	353,326	154,000	24,071	1,202,608	2,886,141

TABLE XL—SUMMARY OF GENERATION BY OWNERSHIP ON THE BASIS OF THE REORGANISED
SET UP OF THE STATES

(Million kWh)

Serial No.	Reorganised States and Union Territories	Public Sector				Private Sector	Total
		Government	State Electricity Board	Power Corporation	Municipality	Company	
1	2	3	4	5	6	7	8
1	Andhra	239,017	..	..	..	0,185	239,202
2	Assam	0,202	..	..	..	11,067	11,269
3	Bihar	10,669	..	458,930	..	133,636	603,235
4	Bombay State .. ..	..	879,216	..	3,040	2,157,398	3,039,654
5	Jammu & Kashmir	23,971	..	..	..	..	23,971
6	Kerala	349,731	..	..	..	..	349,731
7	Madhya Pradesh .. ..	..	116,131	..	0,269	52,941	169,341
8	Madras State	1,084,337	..	..	..	..	1,084,337
9	Mysore State	819,628	..	..	..	6,546	826,174
10	Orissa	18,801	..	..	..	2,344	21,145
11	Punjab	413,812	..	..	22,269	4,744	440,825
12	Rajasthan	70,341	..	..	0,392	19,576	90,309
13	Uttar Pradesh	516,605	..	..	15,430	211,396	743,481
14	West Bengal .. ..	..	4,012	..	6,994	1,767,585	1,778,591
15	Union Territories—	..	..	..	..	..	..
	(a) Andaman	1,057	..	..	..	..	1,057
	(b) Delhi State .. ..	..	232,111	..	..	0,106	232,217
	(c) Himachal Pradesh	0,720	..	..	..	..	0,720
	(d) Manipur	0,525	..	..	..	..	0,525
	(e) Tripura	1,032	..	..	..	..	1,032
16	Pondicherry State	5,317	..	..	..	..	5,317
	Total .. ..	..	..	458,930	48,444	4,367,524	9,662,133

SECTION 2
TRANSFORMERS, TRANSMISSION LINES, CONSUMERS, CONNECTED
LOAD, TOWNS AND VILLAGES ELECTRIFIED ETC.

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

TRANSFORMERS

Table XLI gives the number of transformers and their installed capacity in the different pre-reorganised States. There were 773 Step-up Transformers of aggregate capacity 1,945,131 kVA, 1,325 Step-down Transformers of aggregate capacity 3,273,205 kVA and 30,555 Distribution Transformers of aggregate capacity 1,908,680 kVA. The total transformers capacity installed in all the Power Systems in India amounted to 7.127 million kVA. Transformer capacity increased by 15.4 per cent over that in the previous year.

TABLE XLI—TRANSFORMER CAPACITY

Serial No.	State or States Union (Pre-Reorganised)	Power Transformers				Distribution Transformers	
		Step Up		Step Down		Nos	Aggregate capacity kVA
		Nos.	Aggregate capacity kVA	Nos.	Aggregate capacity kVA		
1	2	3	4	5	6	7	8
1	Ajmer Merwara ..	6	2,150	..	..	40	4,580
2	Andaman and Nicobar Islands ..	2	500	..	..	9	500
3	Andhra ..	33	49,968	110	119,850	921	65,680
4	Assam ..	10	2,050	..	..	16	1,477
5	Bhopal ..	..	..	..	..	26	2,244
6	Bihar ..	49	231,335	66	243,000	1,406	59,169
7	Bombay State ..	139	679,740	279	987,695	1,871	423,993
8	Delhi State ..	..	..	13	53,500	251	92,703
9	Hyderabad ..	21	9,000	11	10,550	429	51,585
10	Himachal Pradesh ..	..	..	..	..	9	260
11	Jammu and Kashmir ..	4	8,100	2	7,500	255	8,663
12	Kutch ..	4	1,350	..	..	21	2,737
13	Madhya Bharat ..	28	10,650	5	2,000	115	22,011
14	Madhya Pradesh ..	16	49,850	32	37,950	370	49,467
15	Madras State ..	43	210,030	296	476,615	5,572	403,445
16	Manipur ..	1	127	..	..	7	275
17	Mysore State ..	103	256,436	178	329,392	10,372	178,748
18	Orissa ..	19	11,050	3	1,450	111	11,095
19	Pepsu ..	7	2,535	..	..	60	6,752
20	Punjab ..	39	69,374	47	77,225	589	65,056
21	Pondicherry State ..	2	4,050	..	..	45	4,750
22	Rajasthan ..	55	14,195	7	6,150	338	34,806
23	Saurashtra ..	15	4,700	10	5,100	183	23,528
24	Travancore-Cochin ..	15	103,580	57	135,250	1,914	118,527
25	Uttar Pradesh ..	129	141,311	94	89,511	5,230	198,780
26	West Bengal ..	38	83,050	115	690,467	445	82,849
	Total ..	773	1,945,131	1,325	3,273,205	30,555	1,908,680

IMPORTANT NEW SUB-STATIONS AND/OR TRANSFORMERS COMMISSIONED DURING THE CALENDAR YEAR 1956.

ANDHRA

2×500 kVA 33/11 kV at Cuddapah.

BIHAR

2×7,500 kVA 66/33 kV taken out of service.

1×5,000 kVA 132/33 kV at Gaya and 1×10,000 kVA 132/33 kV at Mosaboni by Damodar Valley Corporation.

1×500 kVA 33/11 kV at Pahia Sub Station for supply to All India Radio 12 miles east from Patna.

BOMBAY STATE

1×1,000 kVA 22/2·2 kV at Ambernath.

1×80,000 kVA 13·5/100 kV, 2×16,600 kVA 100/23·1 kV and 1×7,500/9,400 kVA 13·8/3·3kV at Trombay and 2×30,000 kVA, 110/23·1 kV at Parel by Tata Hydro (Andhra Valley System).

2×500 kVA 33/11 kV and 2×1,000 kVA 33/3·3 kV at Dhoraji 2×10,000 kVA 22/6·5 kV at Worli S/S, 1×8,000 kVA 22/6·5 kV at Grant Road S/S and 1×8,000 kVA 22/6·5 kV at Apollo S/S by Bombay Electricity Supply and Transport Undertaking.

6×1,000 (Single phase) kVA 11/3·3 kV at Poona.

MADHYA PRADESH

1×1,000 kVA 33/11 kV at Rajnandgaon.

1×1,000 kVA 33/11 kV at Durg S/S.

2×2,000 kVA 11/33 kV at Raipur.

1×3,000 kVA 11/11 kV at Ballarshah.

MADRAS STATE**Madras Electricity System.**

1×3,000 kVA 33/11 kV at Sembiam S/S.

2×2,000 kVA 33/1 kV at Avadi S/S.

2×2,000 kVA 33/11 kV at Kanchi S/S. and

2×1,500 kVA 33/11 kV at Kodambakham S/S. by Madras Electricity System.

3×4,000 kVA 100/33 kV Transformers were replaced by

3×7,500 kVA transformers at Kanchi S/S.

1×500 kVA 11/6·6 kV at Talayuthu S/S. (Tuticorn).

UTTAR PRADESH

1×1,500 kVA 3·3/11 kV at Mau.

WEST BENGAL

1×1,000 kVA 11/3·3 kV at Bankura.

1×3,500 kVA 33/3·3 kV at Tribeni Tissues S/S. at Gourepore.

1×5,000 kVA 132/33 kV at Burdwan by Damodar Valley Corporation.

TRANSMISSION VOLTAGES AND TRANSMISSION LINE MILEAGE.

Table XLII gives the total circuit miles of transmission lines grouped under various voltages between 2·2 kV and 132 kV as at the end of the year 1956.

TABLE XLII—TRANSMISSION LINE MILEAGE

Sl. No.	State or States Union (Pre-Re-organised)	Length of Transmission Lines in circuit miles as on 31-12-1958.													
		Below 11 kV				11 kV		22 kV		33 kV		44/ 37.5 kV	78/66 kV	110/90 kV	132 kV
		2.2/3.3 kV		5/6.6 kV		O.H.	U.G.	O.H.	U.G.	O.H.	U.G.				
		O.H.	U.G.	O.H.	U.G.										
1	Almer	5.7	..	13.1	7.5	20.0	1.3	..	..	..	..	..	..	..	..
2	Merwara	..	..	4.5	..	..	..	..	..	..	..	..	..	..	..
	Andaman	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Nicobar	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	Islands	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	Andhra	37.8	5.2	4.0	..	1,875.3	4.2	..	..	1,049.4	..	..	104.2	..	980.7
4	Assam	7.9	6.8	..	..	..	..	..	..	..	..	..	..	..	..
5	Bhopal	29.5	..	..	..	..	..	..	..	..	..	..	..	..	..
6	Bihar	36.1	15.5	163.7	31.6	4,045.9	22.8	..	..	333.0	..	..	..	..	568.0
7	Bombay State	223.6	122.0	176.5	354.5	903.2	420.6	251.8	172.2	153.5	..	0.5	204.2	954.3	..
8	Delhi State	..	..	73.4	156.6	46.4	63.9	..	..	23.1	..	..	..	..	..
9	Himachal Pradesh	..	..	..	..	..	..	21.0	..	..	..	..	..	..	..
10	Hydara- bad	110.1	15.0	164.1	88.6	27.7	0.7	..	..	31.8	0.5	..	54.0	..	..
11	Jammu & Kashmir	129.6	0.5	..	..	..	..	..	..	92.0	..	..	70.0	..	..
12	Kutch	11.2	0.5	..	..	12.0	0.6	..	..	..	..	..	..	..	..
13	Madhya Bharat	23.1	1.1	56.1	10.1	56.0	8.6	12.0	..	45.0	..	..	..	..	..
14	Madhya Pradesh	69.2	72.4	6.3	1.6	616.4	23.5	..	..	270.5	..	..	887.0	..	..
15	Madras State	63.1	139.9	168.5	78.9	4,923.8	104.3	2,364.9	27.6	630.8	4.5	..	1,577.9	663.6	..
16	Manipur	..	..	16.0	..	..	..	..	..	..	..	..	..	..	..
17	Mysore State	772.1	2.9	2,829.0	70.6	1,972.8	1.0	45.0	..	298.0	..	..	891.9	612.5	..
18	Orissa	25.4	6.8	18.3	12.9	175.6	10.2	..	..	52.2	..	..	..	..	..
19	Pepsu	12.4	..	..	..	94.2	3.3	..	..	24.2	..	..	..	..	..
20	Pondi- cherry State	1.0	..	..	..	0.4	..	32.6	..	..	..	..	..	..	..
21	Punjab (I)	26.7	21.9	0.6	4.1	967.9	126.6	22.4	..	779.4	22.4	..	180.2	..	1,102.3
22	Rajasthan	175.2	24.3	128.8	0.5	218.6	..	41.0	..	106.0	..	..	..	..	..
23	Saurash- tra	94.4	44.5	..	..	50.7	0.9	..	..	52.0	..	..	..	..	..
24	Travan- cora- Cochin	100.5	0.5	3.7	7.0	1,667.5	3.5	48.0	..	25.7	..	..	662.8	..	..
25	Uttar Pradesh	92.1	290.3	115.4	191.7	6,624.4	178.6	32.0	0.2	221.8	..	1,398.2	717.2	..	31.0
26	West Bengal	27.4	34.1	114.1	747.6	307.7	41.0	..	38.4	78.9	213.7	..	104.0	..	..
	Total	2,064.2	804.7	4,046.0	1,763.0	24,326.8	1,615.6	2,370.7	238.4	4,257.3	241.1	1,398.7	5,413.4	9,350.4	2,662.0

At the beginning of the year 1957 there were 6,130 miles of overhead transmission lines operating on voltages below 11 kV, 24,327 miles of 11 kV, 2,871 miles of 22 kV, 4,257 miles of 33 kV, 11,744 miles above, kV and upto 132 kV. The mileage of underground cables was 2,569 miles below 11 kV, 1,016 miles of 11 kV, 238 miles of 22 kV and 241 miles of 33 kV.

**IMPORTANT NEW TRANSMISSION LINES COMMISSIONED DURING THE
YEAR 1956
ANDHRA**

82 miles of 33 kV O/H line at Cuddapah, 68 miles of 33 kV O/H line at Kurnool and 85 miles of 3 kV O/H lines at Vijayawada Municipality.

BIHAR

5 miles of 33 kV O/H line connecting Madhopore-Karmatair Section of Deograph-Dumka Scheme.

BOMBAY STATE

6 miles of 33 kV O/H line at Ambemath.

6 miles of 100.90 kV line and

1.3 miles of 22 kV O/H line at Trombay.

HYDERABAD

5 miles of 33 kV of O/H line at Nizamsagar.

MADHYA BHARAT

45 miles of 33 kV O/H line connecting Dewas-Ujjain.

MADHYA PRADESH

18 miles of 11 kV O/H line of Trans-Khurum Section of Raipur-Durg line was changed over to 33 kV line.

12 miles of 11 kV O/H line of Durg-Sennani Section of Durg-Rajnandgaon line was changed over to 33 kV line.

MADRAS STATE

32 miles of 33 kV O/H line and

155 miles of 22 kV O/H line at Pykara.

7.6 miles of 22 kV O/H line at Salem-Erode.

2.3 miles of 22 kV O/H line at East-Ramnad area.

61 miles of 33 kV O/H line in Madras Electricity System.

PEPSU

24 miles of 33 kV O/H line connecting Barnala-Sangrur.

PONDICHERRY STATE

9 miles of 22 kV O/H line at Pondicherry town area.

SAURASHTRA

22 miles of 33 kV O/H line connecting Rajkot-Gondal.

UTTAR PRADESH

14 miles of 44 kV O/H line at Mainpuri Division.

17.5 miles of 33 kV O/H line connecting Daliganj-Barabanki.

43 miles of 33 kV O/H line connecting Mau-Lalganj.

24 miles of 33 kV O/H line connecting Azamgarh-Phulpur.

25 miles of 33 kV O/H line connecting Mau-Ghazipur.

42 miles of 33 kV of O/H line connecting Mau-Balia.

WEST BENGAL

22 miles of 33 kV O/H line connecting Naihatti-Tribeni.

1 mile of 33 kV. U/G line at Tribeni.

TOWNS AND VILLAGES ELECTRIFIED

Electricity supply was continued mostly within the Municipal limits of the cities, towns and townships in case most of the undertakings. A few large undertakings, however, carried on considerable extensions of electricity supply to the rural areas mostly in certain districts of Madras, Andhra, Mysore, Bihar, Bombay and Travancore-Cochin States.

The number of towns and villages electrified are arranged in Table XLIII.

TABLE XLIII—NUMBER OF TOWNS AND VILLAGES ELECTRIFIED

Serial No.	Population Range	No. of Towns or Villages in each Group	No. of Towns and Villages with Public Electricity Supply	Percentage of Towns and Villages with Public Electricity Supply to Total
1	2	3	4	5
1	Over—100,000	73	73	100.00
2	50,000—100,000	111	*112	100.90
3	20,000—50,000	401	350	87.28
4	10,000—20,000	856	8,216	1.47
5	5,000—10,000	3,101		
6	Below—5,000	556,565		
		561,107	8,751	1.56

*Includes Pondicherry with population 59,835.

There were in all 8,751 towns and villages electrified at the end of the year as compared with 6,981 in the previous year.

CONSUMER AND CONNECTED LOAD

The total number of consumers and their connected load as on 1st January, 1957 in the various states are given in Table XLIV and Table XLV respectively.

TABLE XLIV—CLASSIFICATION OF CONSUMERS AS ON 31-12-1956

Sl. No.	State or States Union (Pre-Re-organised)	Segregation of Number of Consumers										Total No. of Consumers		
		Domestic and Residential light and small power		Commercial light and small power		Industrial Power including electric traction and public water works		Public lighting		Irrigation		A.C.	D.C.	Grand Total
		A.C.	D.C.	A.C.	D.C.	A.C.	D.C.	A.C.	D.C.	A.C.	D.C.			
1	Andhra ..	81,990	..	4,717	..	2,519	..	344	..	3,982	..	12,552	..	93,552
2	Assam ..	4,824	2,332	1,101	1,552	70	78	10	4	..	..	6,005	3,966	9,971
3	Bihar	55,884	6,074	5,072	1,755	2,883	188	60	4	676	3	64,575	8,024	72,599
4	Bombay State	413,203	19,801	129,995	8,869	23,800	750	274	20	1,520	24	558,792	29,464	598,256
5	Centrally Administered Areas—													
	(a) Delhi State	47,581	35,705	8,707	16,931	1,154	1,923	46	..	4	..	57,492	54,559	112,051
	(b) Rest	27,559	4,357	4,707	752	1,184	165	25	13	413	1	33,898	5,238	39,136
6	Hyderabad	33,124	..	11,844	..	812	..	19	..	178	..	45,977	..	45,977
7	Jammu & Kashmir	36,802	..	4,760	..	535	..	2	..	40	..	42,139	..	42,139
8	Madhya Bharat	22,798	3,568	7,947	1,354	712	47	20	10	198	18	31,675	4,997	36,672
9	Madhya Pradesh	63,371	4,161	15,242	657	5,292	113	97	27	1,159	1	85,161	4,959	90,120
10	Madras State	367,527	11,324	43,533	3,974	13,374	184	1,547	5	37,908	..	468,889	15,187	484,076
11	Mysore State	168,948	..	8,253	..	9,358	..	280	..	8,810	..	195,649	..	195,649
12	Orissa	6,208	3,397	1,518	718	157	167	23	5	1	..	7,900	4,287	12,187
13	Pepsu	10,673	316	1,503	..	444	11	18	1	47	1	12,685	329	13,014
14	Punjab (I)	125,775	5,224	67,917	5,826	7,461	442	109	3	5,024	..	208,286	11,485	217,781
15	Rajasthan	47,290	1,812	11,681	1,047	2,137	82	40	6	558	14	61,706	2,961	64,667
16	Saurashtra	31,082	13,361	4,202	2,172	1,602	1,313	75	21	434	73	37,375	16,940	54,315
17	Travancore Cochin	67,620	16	19,406	..	3,178	..	295	..	922	..	91,416	16	91,432
18	Uttar Pradesh	110,508	47,652	35,552	18,740	9,277	1,842	134	12	808	27	147,279	68,273	215,552
19	West Bengal	101,290	197,522	12,260	857	7,455	8,082	122	13	5	..	130,132	208,474	338,606
	Total ..	1,824,037	356,622	404,911	64,934	93,399	15,357	3,550	144	62,686	162	2,388,583	437,219	2,825,802

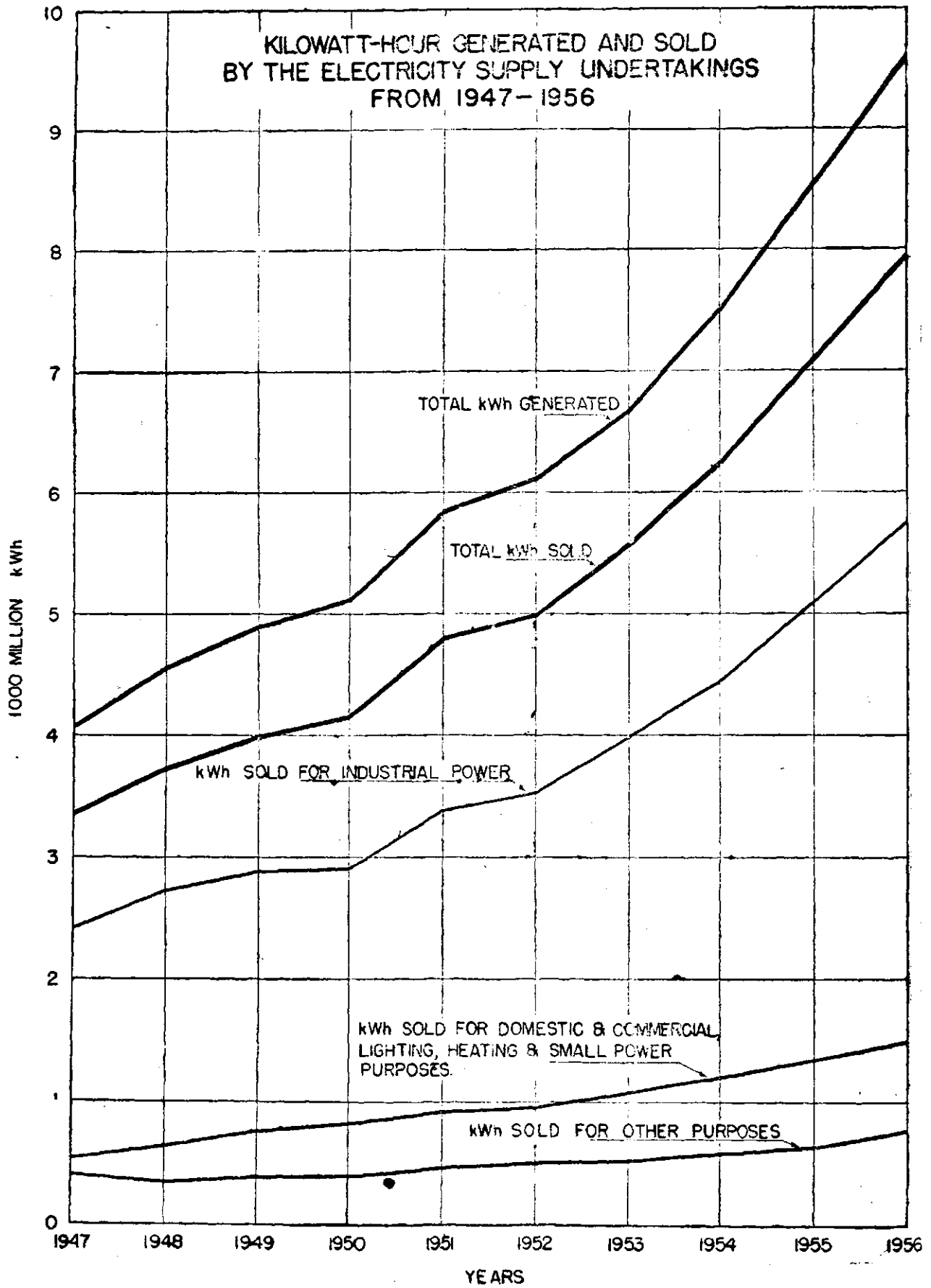
TABLE XLV—CLASSIFICATION OF CONNECTED LOAD AS ON 31-12-1956

Sl. No.	State or Union (Pre-Re-organised)	Segregation of Connected Load in kW										Total Connected Load in kW		
		Domestic or Residential small power		Commercial light and small power		Industrial power including electric traction and public water works		Public lighting		Irrigation		A.C.	D.C.	Grand total
		A.C.	D.C.	A.C.	D.C.	A.C.	D.C.	A.C.	D.C.	A.C.	D.C.			
1	Andhra	39,148	..	11,088	..	49,914	..	2,464	..	15,030	..	116,644	..	116,644
2	Assam	2,619	1,367	1,014	1,020	884	767	121	84	..	..	4,148	2,228	7,376
3	Bihar ..	34,812	3,424	5,718	1,243	156,005	2,064	639	52	5,736	5	203,910	6,728	210,638
4	Bombay State	258,870	10,018	105,875	7,450	726,802	22,013	5,068	305	7,289	114	1,103,924	39,898	1,143,822
5	Centrally Administered Areas—													
	(a) Delhi State	34,383	24,286	18,676	15,156	27,060	6,795	970	355	2,181	..	83,270	46,592	129,862
	(b) Rest	11,689	2,393	1,976	287	10,912	1,166	549	93	2,120	5	27,246	3,964	31,210
6	Hyderabad	20,646	..	19,251	..	20,100	..	1,616	..	695	..	62,318	..	62,318
7	Jammu & Kashmir	3,174	..	973	..	3,150	..	92	..	283	..	7,672	..	7,672
8	Madhya Bharat	11,825	2,219	4,475	733	10,121	634	561	109	589	59	27,571	3,754	31,325
9	Madhya Pradesh	31,846	2,320	8,609	259	108,972	905	1,489	108	3,071	2	153,997	3,595	157,592
10	Madras State	166,225	5,880	58,984	5,189	302,834	2,000	5,966	7	158,506	..	692,515	13,076	705,591
11	Mysore State	74,986	..	8,765	..	212,837	..	3,998	..	35,628	..	336,162	..	336,162
12	Orissa	2,723	2,310	1,147	680	3,077	742	129	80	..	..	7,076	3,812	10,888
13	Pepsu	4,983	85	748	..	9,049	64	124	8	207	3	15,111	155	15,266
14	Punjab (1)	58,289	5,522	36,369	5,374	95,454	2,666	1,308	204	27,835	..	219,303	13,766	233,069
15	Rajasthan	25,427	1,134	10,499	690	21,381	803	920	87	4,090	58	62,317	2,572	64,889
16	Saurashtra	12,996	5,563	3,248	1,211	23,027	5,045	499	180	1,328	303	41,098	12,302	53,400
17	Travancore-Cochin	30,184	12	10,044	..	65,977	..	1,264	..	14,097	..	140,666	12	140,678
18	Uttar Pradesh	53,899	30,597	30,512	20,653	162,454	11,837	1,951	690	46,342	282	295,158	64,059	359,217
19	West Bengal	99,143	244,384	8,089	617	497,708	49,711	2,287	2,404	1,866	..	609,098	297,116	906,209
	Total	977,818	341,512	347,069	60,562	2,525,318	106,962	32,043	4,762	326,943	831	4,209,189	514,629	4,723,818

The total number of consumers as on January, 1957 was about 2·826 million as compared to 2·509 million in the previous year. The number of new connections during the year was 317,222 showing an increase of 12·6 per cent over the number of consumers as at the beginning of the year. The corresponding connected load increased from 4·323 million kW to 4·724 million kW or by 9·3 per cent during the year.

SECTION 3
ENERGY SALES

KILOWATT-HOUR GENERATED AND SOLD
BY THE ELECTRICITY SUPPLY UNDERTAKINGS
FROM 1947-1956



DISPOSAL OF ENERGY GENERATED AND PURCHASED

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

TABLE XLVI—TOTAL ENERGY GENERATED, PURCHASED AND SOLD

Serial No.	Item	kWh (Millions)	Percentage of total gross supply
1	kWh generated	9,662·133	99·8
2	kWh purchased from non-utilities	18·642	0·2
3	Gross kWh for Public Supply	9,580·775	100·0
4	kWh used in Power Station Auxiliaries	386·447	4·0
5	Net kWh for Public Supply	9,294·328	96·0
6	Total kWh sold to ultimate consumers	7,959·345	82·2
7	kWh lost in transmission, distribution and unaccounted for	1,334·983	13·8

TABLE XLVII—ENERGY SALES BY CLASS OF UTILIZATION

Serial No.	Class of Utilization	kWh (millions) 1956	Percentage of total sales in 1956	kWh sold (millions) 1955	Net percentage increase over 1955
1	Domestic or Residential Light and Small Power.	934·122	11·7	850·426	9·8
2	Commercial Light and Small Power.	545·851	6·8	514·423	6·1
3	Industrial Power	5,323·424	66·9	4,697·769	13·3
4	Traction	404·925	5·1	403·302	0·4
5	Public Lighting	117·767	1·5	105·631	11·5
6	Irrigation	316·180	4·0	254·803	24·1
7	Water Works	317·076	4·0	284·637	11·4
	Total	7,959·345	100·0	7,111·011	11·9

11·7 per cent of total energy was sold to domestic and residential light and power purposes, 6·8 per cent to commercial light and small power consumers, 66·9 per cent to industrial power consumers, 14·6 per cent to traction, public lighting, irrigation and water works. The percentage increase in sales during the year was 9·8, 6·1 and 13·3 for domestic and residential power, commercial light and small power and industrial power respectively. The net increase in sales for all classes of utilisation was 11·9 per cent over the sales in the previous year.

Table XLVIII gives the details of energy generated and purchased in various states and states unions during the year under review.

TABLE XLVIII—ELECTRICITY GENERATED AND SOLD IN STATES DURING THE YEAR 1956.

Sl. No.	State or States Union (Pre-Reorganised)	Total kWh generated (Millions)	kWh purchased (Millions)		kWh sold within the state (Millions)					kWh sold in bulk to electric utilities in adjoining states (Millions)	kWh used for power station auxiliaries (Millions)	kWh lost in transmission and distribution and unaccounted for (Millions)
			From Non-electric utilities	From electric utilities in states adjoining	By undertakings with own generation			By distributing licensees to consumers	Total kWh sold to ultimate consumers			
					Direct to own consumers	To distributing licensees	Total					
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Andhra ..	187·618	..	30·881	15·082	149·513	164·595	105·871	120·953	..	2·150	75·396
2	Assam ..	11·269	..	..	9·286	..	9·286	..	9·286	..	0·698	1·285
3	Bihar ..	603·235	9·761	..	297·834	70·747	368·581	56·257	354·091	161·527	37·267	60·111
4	Bombay ..	2,793·837	1·502	6·569	1,740·602	752·443	2,493·045	688·787	2,429·389	..	85·033	287·486
5	Centrally Administered Areas—											
	(a) Delhi State	232·217	..	52·235	154·503	93·090	247·593	73·252	227·755	..	16·522	40·175
	(b) Rest	37·905	0·119	4·320	31·300	..	31·300	0·580	31·880	..	4·071	6·393
6	Hyderabad	76·552	4·844	..	61·050	..	61·050	4·032	65·082	..	4·374	11·940
7	Jammu & Kashmir	23·971	..	8·498	12·574	..	12·574	5·844	18·418	..	0·121	13·930
8	Madhya Bharat	55·208	..	..	39·931	3·059	42·990	0·432	40·363	..	4·812	10·033
9	Madhya Pradesh	269·987	..	..	181·152	40·726	221·878	40·586	221·738	..	25·871	22·578
10	Madras State	1,089·193	..	1·789	616·327	240·449	856·776	199·228	815·555	17·037	26·483	231·898
11	Mysore State	810·485	..	..	614·367	..	614·367	..	614·367	27·648	5·922	162·498
12	Orissa ..	21·145	1·481	..	6·963	10·814	17·777	8·238	15·201	0·115	1·301	5·959
13	Pepsu	0·970	..	22·842	0·656	..	0·656	21·303	21·959	..	0·125	1·728
14	Punjab (1) ..	439·855	..	..	217·176	79·299	296·475	27·295	244·471	84·239	5·706	*105·439
15	Rajasthan ..	77·029	0·081	..	54·034	..	54·034	0·078	54·112	..	8·499	14·499
16	Saurashtra ..	79·904	0·597	..	60·495	6·830	67·325	5·328	65·823	..	5·049	9·629
17	Travancore-Cochin	349·731	..	2·944	255·246	23·414	278·660	13·915	289·161	1·030	10·072	72·412
18	Uttar Pradesh	743·481	0·307	..	522·806	68·853	591·459	63·172	565·978	..	37·418	120·392
19	West Bengal	1,778·591	..	161·527	1,585·063	33·573	1,618·636	168·700	1,753·783	..	105·153	81·202
	Total ..	9,862·133	18·642	291·596	6,476·447	1,572·610	8,049·057	1,482·898	7,959·345	291·596	386·447	1,334·983

*Includes 16·305 million in kWh unaccounted for

The total kWh purchased from the non-electric utilities aggregated to 18·6 million kWh as compared to 17·3 million kWh in the previous year, but it represented only 0·2 per cent of the total energy produced by the public electric utility undertakings.

Table XLIX gives the segregation of ultimate sales of energy in different states.

TABLE XLIX—SEGREGATION OF SALES IN STATES

Sl. No.	State or States Union (Pre-reorganised)	Total sold to ultimate consumers kWh (Million)	Segregation of Total kWh Sold in Million										kWh generated (Million)
			Domestic heat & small power	Domestic Light & fans	Com-mercial heat & small power	Com-mercial light & fans	Indus-trial power low & medium voltage	Indus-trial power high voltage	Public lighting	Electric Traction	Irrigation	Public water works & sewage pumping	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Andhra ..	120·953	0·906	20·796	1·374	6·036	21·092	52·738	5·331	..	10·456	2·282	187·618
2	Assam ..	9·286	0·538	2·793	0·817	2·872	1·383	..	0·740	..	..	0·143	11·269
3	Bihar ..	354·091	2·082	25·475	3·444	9·942	24·193	274·534	2·023	..	4·272	8·126	608·235
4	Bombay State	2,429·389	49·734	187·079	30·572	110·995	258·234	1,428·976	18·532	344·463	7·193	45·611	2,793·837
5	Centrally Administered Areas—												
	(a) Delhi State	227·755	13·614	38·848	20·908	36·721	34·162	40·144	6·491	0·347	4·928	31·592	232·217
	(b) West	31·880	0·500	9·923	0·667	2·102	8·873	2·027	1·903	..	1·999	3·988	27·905
6	Hyderabad	65·082	2·459	10·290	13·588	13·503	16·091	0·071	3·865	..	0·019	5·196	76·552
7	Jammu & Kashmir	18·418	0·664	8·200	0·114	0·062	4·838	1·586	0·566	..	0·302	2·086	23·971
9	Madhya Bharat	40·363	0·854	9·721	1·494	4·070	5·476	5·451	1·918	..	0·473	10·908	55·208
9	Madhya Pradesh	221·738	2·973	23·714	2·711	9·176	29·107	129·819	5·961	..	2·899	15·578	369·987
10	Madras State	815·555	26·365	85·455	34·912	36·112	94·809	355·405	21·226	12·628	138·365	10·278	1,069·193
11	Mysore State	614·367	17·221	32·014	7·179	7·178	56·419	423·702	12·543	..	16·348	41·763	810·435
12	Orissa ..	15·201	0·150	3·873	0·228	1·710	7·575	0·003	0·614	..	..	1·049	21·145
13	Pepsu ..	21·959	0·057	4·589	0·886	1·885	10·458	2·057	0·526	..	0·781	0·720	0·970
14	Punjab (I)	244·671	8·137	28·057	8·686	23·362	92·865	48·252	5·229	..	21·874	8·009	439·855
15	Rajasthan	54·112	0·463	8·638	2·281	7·250	15·774	3·180	2·431	..	1·749	12·346	77·029
16	Saurashtra	65·823	0·811	16·666	0·789	1·482	19·406	26·885	1·863	..	1·207	2·723	79·804
17	Travancore-Cochin	269·161	2·267	19·703	1·412	6·838	28·612	197·988	2·597	..	10·702	7·042	349·731
18	Uttar Pradesh	585·978	3·298	68·212	18·390	40·927	194·329	209·852	8·384	..	90·441	42·145	743·481
19	West Bengal	1,753·763	45·314	207·669	19·272	59·913	100·201	1,191·117	15·026	47·487	2·170	65·594	1,778·591
	Total ..	7,959·345	178·407	755·715	169·715	376·138	931·837	4,391·587	117·787	404·925	316·178	317·076	9,663·133

PER CAPITA CONSUMPTION

The average per capita consumption of electricity for the Indian Union was 20·70 kWh. If the generation by the industries and the railway power stations is also taken into account, the per capita consumption for the year would be 25·65 kWh with the corresponding per capita generation of 31·14 kWh.

Table L gives the annual per capita consumption of electricity as on 1st January 1957 under five classes, of utilisation in the various States based on the estimated population figures for the year 1956. The rate of growth of population is assumed to be 1·25 per cent per annum during the decade 1951—1960. Based on that report of growth of population, the per capita figures for the previous years are as follows:—

1956	20·70 kWh.	1953	15·09 kWh.
1955	18·72 kWh.	1952	13·66 kWh.
1954	16·65 kWh.	1951	13·25 kWh.

The Delhi State showed the highest overall per capita consumption of electricity 122.91 kWh followed by West Bengal, Mysore and Bombay States.

TABLE L—ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY

Serial No.	State or States Union (Pre-reorganised)	Population (millions)	Domestic Light and small power per capita kWh	Commercial light and small power per capita kWh	Industrial including traction and water works per capita kWh	Public lighting per capita kWh	Irrigation per capita kWh	Total Per capita kWh
1	2	3	4	5	6	7	8	9
1	Andhra	21.790	1.00	0.34	3.49	0.24	0.48	5.55
2	Assam	10.204	0.33	0.36	0.15	0.07	..	0.91
3	Bihar	42.740	0.64	0.31	7.18	0.05	0.10	8.28
4	Bombay State	38.203	4.89	3.70	54.32	0.49	0.19	63.59
5	Centrally Administered Areas—							
	(a) Delhi State	1.853	28.31	31.10	57.34	3.50	2.66	122.91
	(b) Rest	8.921	1.17	0.31	1.66	0.21	0.22	3.57
6	Hyderabad	19.821	0.64	1.37	1.08	0.19	0.00	3.28
7	Jammu and Kashmir	4.686	1.89	0.04	1.82	0.12	0.06	3.93
8	Madhya Bharat	8.451	1.25	0.66	2.58	0.23	0.06	4.78
9	Madhya Pradesh	22.576	1.18	0.53	7.72	0.26	0.13	9.82
10	Madras State	38.790	2.88	1.83	12.20	0.55	3.57	21.03
11	Mysore State	9.642	5.11	1.49	54.13	1.30	1.69	63.72
12	Orissa	15.561	0.26	0.13	0.55	0.04	0.00	0.98
13	Pepsu	3.712	1.25	0.75	3.57	0.14	0.21	5.92
14	Punjab	13.431	2.69	2.39	11.10	0.39	1.63	18.20
15	Rajasthan	16.247	0.56	0.59	1.92	0.15	0.11	3.33
16	Saurashtra	4.396	2.61	0.52	11.15	0.42	0.27	14.97
17	Travancore-Cochin	9.860	2.23	0.23	23.49	0.26	1.09	27.30
18	Uttar Pradesh	67.167	1.06	0.88	5.31	0.12	1.35	8.72
19	West Bengal	26.414	9.58	3.00	53.17	0.57	0.08	66.40
	Total	384.465	2.43	1.42	15.72	0.31	0.32	20.70

Table LJ gives an idea of the average price level of electrical energy during 1956 derived from the data collected from the major public utility supply undertakings covering about 78 per cent of the total power sold to ultimate consumers.

TABLE LI—AVERAGE PRICE OF ELECTRICITY

Sl. No.	Category of Sales	kWh sold in 1956 (Millions)	Revenue realised in Rs. (Lakhs)	Revenue realised in annas per kWh sold
1	2	3	4	5
1	Residential and Commercial premises for lighting, heating and small power etc.	1,100	18.16	2.642
2	Industries and traction	4,771	23.19	0.778
3	Agriculture	315	2.14	1.085
4	All purposes i.e. (1), (2) and (3) above	6,186	43.49	1.125

PROGRESS OF ELECTRICITY SUPPLY INDUSTRY AND INDEX OF FIGURES

The progress of electricity supply and index number for the salient features of the industry are given in table LII and LIII respectively.

TABLE LII—PROGRESS OF ELECTRICITY SUPPLY

Year	Installed capacity of generating plant at the end of the year				Aggregate of M.D. on individual systems during the year	kWh generated	kWh generated per kW of average capacity	kWh sold	Average load factor based on columns (6) & (7)	Average demand factor based on columns (5) & (6)
	Steam	Diesel	Hydro	Total						
1	2	3	4	5	6	7	8	9	10	11
	kW	kW	kW	kW	kW	Million		Million	%	%
1939	540,760	86,790	442,169	1,069,719	575,801	2,442,415	2,283	2,034,636	48.42	53.8
1947	757,457	97,879	508,129	1,363,265	882,853	4,073,318	2,988	3,356,794	52.67	64.8
1948	788,393	107,019	515,554	1,410,966	965,780	4,575,466	3,243	3,721,464	51.08	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	162,880	575,179	1,835,426	1,205,194	5,858,403	3,192	4,793,344	55.49	65.7
1952	1,176,317	170,259	715,179	2,061,755	1,310,651	6,120,347	2,969	5,005,682	53.31	63.6
1953	1,393,717	180,294	731,179	2,305,190	1,416,350	6,697,187	2,905	5,597,083	53.98	61.4
1954	1,491,043	209,607	793,346	2,493,996	1,625,123	7,521,777	3,016	6,252,501	52.84	65.2
1955	1,546,805	208,529	939,483	2,694,817	1,849,672	8,592,451	3,189	7,111,011	53.03	68.6
1956	1,596,412	223,288	1,061,441	2,886,141	1,989,774	9,662,133	3,348	7,959,345	55.43	68.9

TABLE LIII—INDEX NUMBER OF PROGRESS OF ELECTRICITY SUPPLY

(1939 as base year)

Item	1939	1947	1952	1953	1954	1955	1956
Installed generating plant capacity—							
Steam	100	142.1	217.5	257.7	257.5	286.0	295.2
Oil	100	112.5	196.2	207.7	241.5	240.3	263.0
Hydro	100	111.3	161.7	165.4	179.4	212.5	240.1
Total	100	127.0	292.7	215.5	233.1	251.9	269.8
Kilowatt Hours generated—							
Steam	100	167.0	299.0	344.3	391.1	445.1	494.7
Oil	100	149.3	225.5	217.0	234.3	238.6	240.6
Hydro	100	167.8	214.0	222.8	247.5	286.2	323.4
Total	100	166.8	250.6	274.2	308.0	351.8	395.6
Coal consumed (tons)	100	172.9	283.1	324.0	351.4	390.2	424.1
Fuel oil consumed (tons)	100	145.8	195.3	192.7	294.9	207.7	206.4
Aggregated Maximum demand (kW)	100	153.3	227.6	245.8	282.2	321.2	345.6
Kilowatt Hours sold—							
Domestic or residential light & small power	100	206.5	384.2	421.6	462.9	519.5	570.6
Commercial light and small power	100	238.2	383.8	454.6	506.9	586.5	622.4
Industrial	100	162.4	236.7	266.5	301.0	346.8	393.0
Traction	100	123.9	151.1	166.8	176.0	187.7	188.5
Irrigation	100	194.7	334.4	332.7	361.6	395.6	491.3
Public lighting	100	107.0	158.7	174.8	204.1	226.6	252.7
Water works	100	164.2	214.2	234.2	262.3	277.5	309.0
Total	100	165.0	246.0	275.1	307.4	349.5	391.2

SECTION 4
POWER USED IN THE INDUSTRY

ELECTRICITY PRODUCTION AND CONSUMPTION IN SELECTED MAJOR INDUSTRIAL ESTABLISHMENTS

The data in respect of generating plant capacity, maximum demand, energy generated and purchased relating to certain selected industries during 1956 are given in table LIV.

TABLE LIV—ELECTRICITY PRODUCTION AND CONSUMPTION IN SELECTED INDUSTRIES DURING THE YEAR 1956

Sl. No.	Industry	Total number of factories covered	Installed generating plant capacity as at 31-12-56	Maximum Demand kW		Kilowatt-hours (Million)				Load Factor based on cols. (5+6) and (7+8)
				Generated in own power stations	Purchased from public utility electricity undertakings	Generated in own power stations	Purchased from public utility electricity undertakings	Used in the industry	Sold to outside agencies	
1	2	3	4	5	6	7	8	9	10	11
1	Aluminium (Primary) ..	5	16,828	10,656	15,402	75·217	112·640	187·857	..	82·3
2	Aluminium (Secondary) ..	6	225	..	4,682	..	16·030	16·030	..	39·1
3	Cement (Primary) ..	25	96,692	69,770	36,463	364·445	143·863	505·782	2·526	54·6
4	Cement (Secondary) ..	24	10,671	6,144	6,189	39·436	14·341	53·717	0·040	49·8
5	Chemicals ..	34	19,871	10,225	14,503	72·125	75·240	147·178	0·187	67·9
6	Collieries ..	158	58,810	31,228	54,792	141·815	219·198	352·366	8·647	47·9
7	Copper (Primary) ..	1	9,250	2,550	4,813	10·225	25·205	35·430	..	64·9
8	Copper (Secondary) ..	1	..	..	774	..	1·318	1·318	..	19·4
9	Cotton Textiles ..	885	121,237	80,084	496,287	327·833	1,475·084	1,797·085	5·832	35·7
10	Fertilisers ..	3	80,000	52,000	7,350	283·493	51·908	335·326	0·075	64·5
11	Gold ..	1	3,900	378	18,720	0·023	107·432	107·455	..	64·2
12	Iron & Steel (Primary) ..	5	172,200	82,015	80,690	434·900	348·064	708·194	75·670	55·0
13	Iron & Steel (Secondary) ..	19	675	310	37,875	0·632	111·578	112·206	..	33·7
14	Jute ..	82	42,577	21,795	158,714	80·241	372·674	452·579	0·386	28·6
15	Paper ..	21	78,565	133,745	15,397	265·088	71·594	356·682	..	27·3
16	Silk ..	29	1,480	2,995	33,972	6·278	82·988	89·266	..	27·6
17	Soap ..	13	1,126	890	5,082	1·896	19·594	21·490	..	41·2
18	Sugar ..	103	43,254	26,966	21,208	79·749	16·616	95·506	0·859	23·8
19	Tanneries ..	9	286	7	973	0·013	1·415	1·428	..	16·6
20	Wool ..	16	5,203	2,994	9,680	6·100	31·392	37·460	0·032	33·8
	Total ..	890	759,650	624,782	1,023,346	2,209·509	3,299·072	5,414·357	94·224	40·4

The total amount of electricity purchased by all the industrial establishments from public electric utilities during the year was about 5,323 million kWh. of which 3,299 million kWh was accounted for by only the large and medium sized industrial establishments included in the table.

Among the 890 industrial undertakings, 378 undertakings supplemented their power requirements by 2,210 million kWh from their own generating plants. In all the industries consumed 5,414 million kWh of power of which about 61 per cent was purchased from different public electric utilities in the country. The total energy used by the industry increased by 9·4 per cent as compared with the previous year. The plant capacity increased during 1956 by about 5 per cent.

The textile and jute industries continued to be the largest purchasers of electricity from public electric supply undertakings. Only a small portion of total power requirements was generated in their power stations. The cement primary, Iron (primary), Fertilizers, Paper, Sugar, Copper and Chemical Industries, however, generated the major portion of their power requirements in their own power stations.

Table LV gives the Electricity Production and consumption in selected major industries during 1956 in various states of Indian Union.

TABLE LV—Electricity Production and Consumption in Selected Industries on Statewise Basis During the year 1956.

Serial No.	Industry (Pre-reorganised)	Total number of factories covered	Installed generating plant capacity as at 31-12-1956	Maximum Demand kW		Kilowatt-hours (Million)			
				Generated in own power stations	Purchased from public utility electricity undertakings	Generated in own power stations	Purchased from public utility electricity undertakings	Used in the industry	Sold to outside agencies
1	2	3	4	5	6	7	8	9	10
1	Andhra	9	4,525	3,140	7,316	3·016	16·544	19·560	..
2	Bihar	104	288,333	246,863	71,898	874·031	272·321	1,073·694	72·658
3	Bombay State	230	62,684	41,957	269,186	159·250	1,132·719	1,288·928	3·041
4	Centrally Administered Areas—								
	(a) Delhi State	7	16,799	15,910	4,545	84·117	27,672	111·789	..
	(b) Rest	11	5,157	3,883	229	17·601	0·538	18·121	0·016
5	Hyderabad	13	54,902	37,385	14,425	195·237	34·963	225·624	4·566
6	Jammu & Kashmir	1			30		0·040	0·040	..
7	Madhya Bharat	13	13,939	11,150	2,385	56·951	4·617	60·909	0·659
8	Madhya Pradesh	27	19,555	13,925	12,068	75·731	49·056	124·407	0·380
9	Madras State	80	22,648	12,513	58,449	32·339	275·737	308·076	..
10	Mysore State	24	6,250	1,588	245,143	3·395	372·152	375·547	..
11	Orissa	5	19,592	11,775	954	80·027	3·033	82·337	0·723
12	Pepsu	4	11,275	8,260	14,548	44·319	11·445	55·764	..
13	Punjab	10	8,334	6,159	5,176	31·880	12·601	44·281	..
14	Rajasthan	7	18,039	13,548	7,016	58·894	4·151	63·041	0·004
15	Saurashtra	17	32,197	13,967	17,059	75·766	30,980	145·909	0·837
16	Travancore-Cochin	11	1,823	1,080	23,454	2·841	162·289	165·130	..
17	Uttar Pradesh	100	31,943	18,267	41,270	76·224	145·165	221·119	0·270
18	West Bengal	217	141,155	73,412	228,195	338·090	743·061	1,070·081	11·070
	Total ..	890	759,550	534,782	1,023,346	2,209·509	3,299·072	5,414·357	94·224

ANALYSIS OF GENERATING PLANT CAPACITY OF INDUSTRIAL ESTABLISHMENTS.

Table LVI gives the distribution of plant capacity in the Industries power stations.

TABLE LVI—Analysis of Generating Plant Capacity of Industrial Establishments.

Installed capacity of generating plant	Number of industrial establishment	Aggregate installed capacity of generating plant kW	Percentage of total capacity %	kWh generated Millions	Percentage of total kWh %
1	2	3	4	5	6
Under 1,000	288	120,445	15·86	153·915	6·97
1,001-5,000	63	156,643	20·62	542·500	24·55
5,001-10,000	18	145,437	19·14	521·839	23·62
10,001-25,000	6	85,425	11·25	272·833	12·35
Over 25,000	3	251,700	33·13	718·422	32·51
Total ..	378	759,650	100·00	2,209·509	100·00

SECTION 5
FATAL ELECTRICAL ACCIDENTS IN ELECTRICITY SUPPLY
AND INDUSTRIAL UNDERTAKINGS

Fatal Electrical Accidents in the electricity supply and industrial undertakings.

Table LVII gives the yearwise Fatal Electrical Accidents for the five years (from 1951 to 1955) in electricity supply and industrial undertakings in India arranged on a statewise basis.

TABLE LVII—Fatal Electrical Accidents During Five Years 1951 to 1955 in Electricity Supply and Industrial Undertakings

Serial No.	State or States Union (Pre-reorganised)	Number of Fatal Electrical Accidents														
		1951			1952			1953			1954			1955		
		Electricity Supply Undertakings	Industrial Undertakings	Total	Electricity Supply Undertakings	Industrial Undertakings	Total	Electricity Supply Undertakings	Industrial Undertakings	Total	Electricity Supply Undertakings	Industrial Undertakings	Total	Electricity Supply Undertakings	Industrial Undertakings	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Andhra	3	..	3	17	..	17	13	..	13	14	..	14	23	..	23
2	Assam	1	..	1	..	..	..	..	..	..	2	..	2	..	..	..
3	Bihar	6	3	9	7	2	9	6	5	11	14	4	18	18	4	22
4	Bombay State ..	10	1	11	12	3	15	18	3	21	19	2	21	23	2	25
5	Centrally Administered Areas—															
	(a) Delhi State ..	2	..	2	1	1	2	3	..	3	1	..	1	3	..	3
	(b) Rest .. ..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..
6	Hyderabad .. ..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..
7	Jammu & Kashmir ..	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
8	Madhya Bharat ..	..	..	..	..	..	..	..	1	1	1	..	1	1	..	1
9	Madhya Pradesh ..	7	3	10	6	1	7	10	1	11	11	1	12	13	..	12
10	Madras State* ..	91	1	92	86	1	87	76	..	76	62	2	64	118	1	119
11	Mysore State	43	1	44	22	1	23	35	..	35	46	..	46	39	2	41
12	Orissa .. ..	..	..	..	2	..	2	1	..	1	1	..	1	..	..	..
13	Pepsu	1	..	1	..	..	..	..	..	..	2	..	2	..	..	..
14	Punjab	5	..	5	5	..	5	5	..	5	19	..	19	16	..	16
15	Rajasthan	2	..	2	3	..	3	1	..	1	..	..	..	5	..	5
16	Saurashtra	1	..	1	1	..	1	3	..	3	..	..	..	4	..	4
17	Travancore-Cochin ..	10	..	10	2	..	2	19	..	19	14	..	14	16	..	16
18	Uttar Pradesh	19	..	19	33	1	34	23	..	23	22	..	22	40	..	40
19	West Bengal	3	2	5	6	7	13	7	1	8	10	2	12	7	2	9
	Total	204	12	216	203	17	220	220	11	231	228	12	250	325	11	336

*Figures relate to financial year ending 31st March.

SECTION 6
FINANCIAL DATA OF PUBLIC ELECTRICITY SUPPLY
UNDERTAKINGS

FINANCIAL DATA OF PUBLIC ELECTRICITY SUPPLY UNDERTAKINGS

The financial data presented in this and the succeeding statements relate to most of the public electricity supply undertakings functioning during 1955. The undertakings are classified as shown in Table LVIII below :—

TABLE LVIII—PUBLIC ELECTRICITY SUPPLY UNDERTAKINGS INCLUDED IN THE CONSOLIDATED ACCOUNT FOR 1955
(Classified State-wise in terms of ownership, prime movers etc.)

State or States Union (Pre-reorganised)	GENERATING STATIONS									PURCHASING UNDERTAKINGS						Grand Total of Under- takings
	Hydraulic			Steam			Oil			Hydro power			Thermal Power			
	Govt.	Mepl.	Co.	Govt.	Mepl.	Co.	Govt.	Mepl.	Co.	Govt.	Mepl.	Co.	Govt.	Mepl.	Co.	
Andhra ..	..	..	..	3	..	..	8	..	..	4	..	1	4	..	8	28
Assam ..	..	..	1	..	..	..	..	..	6	..	1	..	..	2	..	10
Bihar ..	1	..	..	1	..	5	1	..	10	2	..	..	6	..	3	29
Bombay State ..	2	..	8	4	..	2	17	7	83	1	1	13	3	..	8	144
Centrally Administered Areas—																
(a) Delhi State ..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	2
(b) Rest ..	3	..	..	3	..	..	11	..	6	1	..	..	..	..	..	24
Hyderabad ..	..	..	..	1	..	..	9	..	1	..	..	..	4	..	..	15
Kashmir ..	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4
Madhya Bharat ..	..	..	..	4	..	..	11	1	12	..	..	..	..	..	..	28
Madhya Pradesh ..	..	..	..	8	..	2	13	..	5	..	..	..	12	..	10	45
Madras State ..	3	..	..	1	..	..	1	..	1	13	7	20	5	..	1	57
Mysore State ..	1	..	..	..	..	..	1	..	..	1	..	..	..	..	..	3
Orissa ..	..	..	..	2	..	..	12	..	8	..	..	..	1	..	3	21
Papsu ..	..	..	..	1	..	..	4	..	4	2	..	..	..	1	..	12
Punjab ..	1	1	..	3	..	..	6	..	14	1	1	..	7	..	..	34
Rajasthan ..	..	..	..	5	..	..	12	..	12	..	..	..	..	..	1	30
Saurashtra ..	..	..	..	..	..	2	20	..	7	..	..	..	2	..	..	31
Travancore-Cochin ..	1	..	..	..	..	..	2	..	..	1	2	4	..	..	..	10
Uttar Pradesh ..	2	2	..	3	..	8	7	2	6	..	7	12	2	..	2	53
West Bengal ..	1	1	..	..	..	3	4	..	6	..	..	..	13	..	11	44
Total ..	19	4	4	35	..	28	139	10	176	31	19	50	59	4	47	625

NOTE—5 of the 35 Government Steam, 2 of the 28 Company Steam generating undertakings continued to supplement their requirements of power during the year by purchasing from non-utilities.
12 of the 59 Government and 6 of the 47 company undertakings which purchase thermal power continued to take supply during the year from non-utilities.

1954			ABSTRACT			1955			Total
Total	Govt.	Co.	Govt.	Mepl.	Co.	Govt.	Mepl.	Co.	Total
420	27	4	193	15	19	193	14	208	415
	65	30		..	35		4	4	27
	328	178		11	139		..	38	63
							10	176	325
209	100	50	90	23	31	90	23	97	210
	109	46		4	59		19	50	100
							4	47	110
629			308	38	283	283	37	305	625

The capital outlay in 1955 (i.e. original cost of plant, equipment etc.) on public electricity supply undertakings owned and operated by the State and companies is grouped statewise in table LIX. Other financial features of the undertakings are summarised in table LX(a) to LXI.

TABLE LIX—CAPITAL EXPENDITURE—1955

(Figs. represent Rs. in Lakhs)

Serial No.	State or State Union (Pre-reorganised)	Year	STATE-OWNED		(Private) Companies	Total	
			Government	Municipalities			
1	Andhra	1955	782	16	46	844	
		1954	575	15	43	633	
2	Assam	1955	..	..	65	65
		1954	..	..	60	60
3	Bihar	1955	438	..	459	897	
		1954	317	..	352	669	
4	Bombay State	1955	1,147	1,749	4,478	7,374	
		1954	1,055	1,614	4,083	6,752	
5	Centrally Administered Areas—	1955	570	146	..	716	
		(a) Delhi State	1954	491	122	..	613
		(b) Rest	1955	74	..	75	149
		1954	71	..	74	145	
6	Hyderabad	1955	326	..	4	330	
		1954	303	..	..	303
7	Jamma & Kashmir	1955	57	..	..	57
		1954	57	..	..	57
8	Madhya Bharat	1955	102	2	44	148	
		1954	88	2	46	136	
9	Madhya Pradesh	1955	956	..	267	1,223	
		1954	783	..	263	1,046	
10	Madras State	1955	3,292	68	482	3,842	
		1954	2,569	62	451	3,082	
11	Mysore State	1955	2,680	..	..	2,680
		1954	2,465	..	..	2,465
12	Orissa	1955	456	..	54	510	
		1954	333	..	51	384	
13	Pepsu	1955	51	3	9	63	
		1954	49	3	9	61	
14	Punjab (I)	1955	3,011	96	69	3,176	
		1954	944	94	69	1,107	
15	Rajasthan	1955	226	..	61	287	
		1954	197	..	61	258	
16	Saurashtra	1955	171	..	169	340	
		1954	148	..	165	311	
17	Travancore-Cochin	1955	1,168	11	28	1,207	
		1954	685	11	32	728	
18	Uttar Pradesh	1955	3,284	152	785	4,171	
		1954	2,781	145	704	3,630	
19	West Bengal	1955	141	18	4,382	4,541	
		1954	180	18	4,238	4,386	
..	Total	1955	18,932	2,261	11,428	32,621	
		1954	14,089	2,086	10,701	26,826	

TABLE LX

- (a)—Consolidated Capital Account 1955.
- (b)—Consolidated Revenue Account 1955.
- (c)—Consolidated Net Revenue and Appropriation Account 1955.
- (d)—Consolidated Balance Sheet 1955.

PUBLIC ELECTRICITY SUPPLY INDUSTRY

The following four tables show the consolidated annual

TABLE LX (a) CONSOLIDATED

1954		Government	Municipalities	Companies	Total
1. To Generation Assets					
(a) Steam Power Stations					
G- 2,518	(i) Land	113	..	62	175
M- ..	(ii) Buildings	286	..	729	1,015
C- 3,290	(iii) Boilers, Turbines etc.	2,993	..	2,678	5,671
	(iv) Other Equipments	4	..	24	28
	Group Totals	3,396	..	3,493	6,889
(b) Oil Power Stations					
G- 443	(i) Land	8	..	25	33
M- 56	(ii) Buildings	61	11	117	189
C- 592	(iii) Engines, Generators, etc.	528	47	550	1,125
	(iv) Other Equipments .. .. .	..	..	1	1
	Group Totals	597	58	693	1,348
(c) Hydro Power Stations					
G- 4,429	(i) Land	128	1	103	232
M- 80	(ii) Buildings	166	4	114	284
C- 1,520	(iii) Hydraulic Power Plant	3,281	13	347	3,641
	(iv) Civil Works	2,398	64	1,006	3,468
	Group Totals	5,973	82	1,570	7,625
	Sub Total (Generation Assets)				15,862
G- 1,646					
M- 3					
C- 868					
	2. To Transmission Assets	2,220	4	967	3,191
	3. To Distribution Assets				
	(a) Cables and Mains	3,351	517	1,901	5,769
	(b) Sub-stations, Transformers etc.	1,158	637	883	2,678
G- 4,280	(c) Service Lines	492	119	744	1,355
M- 1,360	(d) Public Lighting	201	11	116	328
C- 3,934	(e) Meters, Testing, Instruments etc.	569	181	536	1,286
	Group Totals	5,771	1,465	4,180	11,416
	4. To General Assets				
G- 536	(a) Special Structures, tools etc.	402	61	200	663
M- 80	(b) Office Equipment, furniture etc.	216	23	98	337
C- 358	(c) Motor Cars, Vans, Cycles etc.	105	1	66	172
	Group Totals	723	85	364	1,172
	5. Intangible Assets:				
G- 187	(a) Good will .. .. .	..	50	15	65
M- 71	(b) Preliminary Expenses	82	2	58	142
C- 139	(c) Expenses Capitalised	170	15	88	273
	Group Totals	252	67	161	480
M- 436	6. To Special items (Tramways and Omnibuses in the case of Bombay)	..	500	..	500
	Group Totals .. .. .	..	500	..	500
G- 14,039	Total carried to General Balance sheet	18,932	2,261	11,428	32,621
M- 2,086					
10,701					

G—Government

M—Municipalities

C—Companies

TABLE LX (b) CONSOLIDATED

1954			Government	Municipalities	Companies	Total
G- 300		To Operating Expenses--				
M- ..		(1) Generation				
C- 446	746	(a) (i) Coal	314	..	485	809
G- 34		(ii) Oil	36	16	142	194
M- 14		(iii) Consumable stores ..	17	3	26	46
C- 127	175	(b) Salaries and Wages	100	9	130	239
G- 16		(c) Repairs and Maintenance	104	5	97	206
M- 2		(d) Purchase of energy--				
C- 31	49	(i) From other Utilities	77	165	377	619
G- 95		(ii) From Non-utilities	6	..	7	13
M- 8		(2) Transmission--				
C- 114	217	(a) Salaries and Wages	14	..	12	26
G- 99		(b) Repairs and Maintenance	8	..	4	12
M- 5		(3) Distribution--				
C- 90	194	(a) Salaries and Wages	95	30	161	286
G- 73		(b) Repairs and Maintenance	74	40	77	191
M- 139		(c) Public Lighting (Attendance Repairs and renewals).	12	8	24	44
C- 251	463	(4) Consumers Servicing--				
G- 6		(a) Salaries and Wages (billing accounting, etc.).	59	23	109	191
M- 3		(b) Other expenses	12	18	44	74
C- 8	9	(5) Management Expenses	102	73	266	441
G- 13		(6) Depreciation	349	39	293	681
M- 10		Total operating expenses	1,379	429	2,264	4,072
C- 10	23	To Balance Carried over	706	137	659	1,502
G- 8						
M- 3						
C- 11	11					
G- 91						
M- 29						
C- 153	273					
G- 71						
M- 37						
C- 75	183					
G- 11						
M- 6						
C- 22	39					
G- 58						
M- 21						
C- 103	180					
G- 12						
M- 16						
C- 44	72					
G- 97						
M- 72						
C- 235	404					
G- 256						
M- 35						
C- 267	558					
G- 1,238						
M- 384						
C- 1,974	3,596					
G- 528						
M- 117						
C- 600	1,245					
	4,841		2,085	566	2,923	5,574

REVENUE ACCOUNT—1955

(Figures represent Rs. lakhs)

1954			Government	Municipalities	Companies	Total
By Operating Revenues—						
G- 525		(1) Sales of electricity—				
M- 303		(i) Domestic and Commercial	620	332	983	1,935
C- 933	1,761					
G- 690		(ii) Industrial	815	159	1,710	2,684
M- 139						
C- 1,423	2,252					
G- 106		(iii) Irrigation	125	..	17	142
M- 17	123					
C- 72						
G- 62		(iv) Public Lighting	73	20	72	165
M- 18						
C- 72	152					
G- 264		(v) Distributing licensees	312	..	40	352
M- 38	302					
C- 38						
G- 23		(2) Meter and other Rentals	27	14	48	89
M- 12						
C- 42	77					
G- 1		(3) Income from Public Lighting maintenance	1	3	8	12
M- 2						
C- 5	8					
G- 95		(4) Miscellaneous Receipts	112	38	45	195
M- 27						
C- 44	166					
G- 1,766						
M- 501						
C- 2,574	4,841		2,085	566	2,923	5,574

TABLE LX(e)—CONSOLIDATED NET

1954			Government	Municipalities	Companies	Total
		To appropriations (applicable to Local Authority Licensee only)—				
	5	(a) Interest on Loan Capital .. .. .	..	5	..	5
	12	(b) Instalment of redemption of loan capital	..	14	..	14
	36	(c) General Rates .. .. .	..	41	..	41
G- 3						
C- 99	102	To Taxes on income and Profits	3	..	154	157
C- 5	5	To instalment of write down in respect of intangible assets	..	..	6	6
G- 10						
M- 2						
C- 34	46	To contribution towards contingencies Reserve	10	3	39	52
	8	To appropriation to tariffs and dividends control reserves	..	..	10	10
	8	To appropriation to Consumers Rebate Reserve	..	..	10	10
G- 75						
M- 51						
C- 135	261	To other appropriations	79	56	136	271
		To appropriations towards Interest paid and accrued and Dividends paid and payable—				
G- 588						
C- 77	665	(a) Interest on Debentures and other secured loans	629	..	75	704
M- 2						
C- 8	10	(b) Interest on consumers security deposits	..	2	9	11
	22	(c) Interest on unsecured loans, advances, deposits, bank over-drafts, etc.	..	..	23	23
	30	(d) Dividends on Preference Share Capital	..	..	31	31
	196	(e) Dividends on Ordinary Share Capital ..	..	..	243	243
G- 91						
M- 5						
C- 75	171	To Balance of loss carried over from previous year	95	3	76	174
G- 700						
M- 32						
C- 266	998	To Balance carried over to General Balance Sheet	660	55	291	1,006
G- 1,487						
M- 145						
C- 953	2,565		1,476	179	1,103	2,758

REVENUE AND APPROPRIATION ACCOUNT—1955

(Figures represent Rs. lakhs)

1954			Government	Municipalities	Companies	Total
G- 528 M- 117 C- 600	1,245	By balance brought forward from the revenue account	706	137	659	1,502
G- 16 M- 1 C- 14	31	By interest on securities and investments ..	19	1	16	36
G- 43 M- 5 C- 29	77	By other receipts (Non-operating) e.g. Rents less outgoings not otherwise provided for transfer fee etc.	51	5	27	83
		By surplus incidental business (tramways and Omnibuses of Bombay Municipality)	..	9	..	9
G- 880 M- 22 C- 310	1,212	By Balance of Profit carried over from previous year	700	27	401	1,128
G- 1,487 M- 145 C- 953	2,585		1,476	179	1,103	2,758

TABLE LX (d)—CONSOLIDATED

1954		Government	Municipalities	Companies	Total
23,296	Fixed capital raised and appropriated as per the capital account	20,154	2,041	6,640	28,835
412	Capital Redemption Reserve .. ..	..	417	107	524
	RESERVE AND SURPLUS				
2,054	Non-statutory Reserve	1,013	296	1,189	2,498
245	Contingencies Reserve Fund	124	8	192	324
24	Tariffs and Dividends Control Reserve ..	..	..	32	32
27	Consumers' Rebate Reserve .. .. .	..	..	39	39
998	Balance of net revenues and appropriations account	660	55	291	1,006
	CURRENT LIABILITIES AND PROVISIONS				
2,369	Creditors on open accounts	2,511	156	738	3,405
1,069	Consumers' Security deposits	1,121	60	312	1,493
342	Accounts Payable .. .. .	..	87	336	423
975	Temporary accommodations, Bank over drafts and other Finances	588	44	592	1,224
31,811		26,171	3,164	10,468	39,803

BALANCE SHEET—1955

(Figures represent Rs. Lakhs)

1954		Government	Municipalities	Companies	Total
26,826	Capital Expenditure on works as per the capital accounts	18,932	2,261	11,428	32,621
	Less—				
5,097	Accumulated Provisions for Depreciation ..	1,751	532	3,371	5,654
21,729	<u>Net Block</u>	17,181	1,729	8,057	26,967
	<u>CURRENT ASSETS</u>				
3,578	Capital works in progress Stores and materials in hand—	4,464	12	332	4,808
163	(a) Fuel Coal and or oil etc. at cost ..	188	2	30	220
1,919	(b) General stores at or below cost ..	1,613	247	560	2,420
520	Sundry debtors for electricity supplied ..	321	51	258	630
837	Other debtors	279	430	238	947
475	Accounts receivable	498	47	148	693
	Investments in statutory Securities at cost—				
78	(a) Contingencies Reserve Fund Investment (Market value on closing date)	..	2	79	81
1,445	(b) Other investments (Market value on closing date)	1,171	305	323	1,799
	Special Deposits—				
75	(a) In respect of taxation .. .. .	..	..	83	83
135	(b) Others	147	8	35	190
	Balance at Bank—				
417	(a) Deposit account	58	215	82	355
369	(b) Current account and at call ..	207	85	202	494
46	Cash in hand	19	28	36	83
	Debit Balances—				
25	Deferred payments	25	8	5	38
31,811		26,171	3,164	10,468	39,803

Some important financial features for the year 1951 to 1955 are given in Table LXI.

TABLE LXI—FINANCIAL DATA OF THE PUBLIC ELECTRICITY SUPPLY INDUSTRY 1951—1955

	Unit	1951	1952	1953	1954	1955
A. Installed Capacity	kW.	1,835,426	2,061,755	2,305,190	2,493,996	2,694,817
Average Capital Outlay per kW installed—						
(a) Generation	Rs.	430	460	436	518	589
(b) Transmission, distribution etc. ..	Rs.	471	461	460	540	608
		901	921	896	1,058	1,192
B. Number of Consumers	No.	1,677,805	1,843,473	1,995,543	2,164,782	2,508,580
Average Capital Outlay per consumer—						
(a) Generation	Rs.	471	515	503	597	632
(b) Transmission, distribution, etc. ..	Rs.	514	515	530	622	648
		985	1,030	1,033	1,219	1,280
C. Maximum Demand	kW.	1,205,194	1,310,651	1,416,350	1,625,123	1,849,672
Average Capital Outlay on transmission, distribution etc. per kW of maximum demand	Rs.	716	725	748	828	879
D. Total Capital Outlay—						
(a) On Electrical Works	Rs. (Crores)	165	190	206	264	321
(b) Non-Electrical Works like tramways and Omnibus	"	4	4	4	4	5
		169	194	210	268	326

	1951		1952		1953		1954		1955	
	Outlay	% of Total	Outlay	% of Total	Outlay	% of Total	Outlay	% of Total	Outlay	% of Total
SEGREGATION										
Public Sector ..	82.23	49	101.13	52	111.80	53	161.25	60	211.93	65
Private Sector ..	86.82	51	92.37	48	98.69	47	107.01	40	114.28	35
	169.05	100	193.50	100	210.49	100	268.26	100	326.21	100
Additions during the year ..	21.85	..	24.45	..	16.99	..	57.77	..	57.95	..
SEGREGATION										
Public Sector ..	12.66	59	18.90	77	10.67	63	49.45	86	50.68	87
Private Sector ..	8.69	41	5.55	23	6.32	37	8.32	14	7.27	13
	21.85	100	24.45	100	16.99	100	57.77	100	57.95	100

SECTION 7
ADDRESS OF PUBLIC ELECTRICITY SUPPLY UNDERTAKINGS
& SYSTEM OF SUPPLY

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
ANDHRA				
1	Anakapalli ..	The Anakapalli Electric Supply Corporation Ltd., M/A. Andhra Engineering Co. (Private) Ltd., Rajahmundry.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
2	Anantapur ..	The Superintending Engineer, Anantapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
3	Bobbili ..	The Motors and General Stores (Private) Ltd., Bobbili.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
4	Bhadrachalam ..	The Superintending Engineer (Operation), Vijayawada.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
5	Ceded Districts ..	The Superintending Engineer (Operation), Anantapur.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Chittoor Area ..	The Superintending Engineer (Operation), Anantapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Chittoor Co. ..	The Chittoor Electric Supply Corporation Ltd., Chittoor.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
8	Cuddapah ..	The Superintending Engineer (Operation), Anantapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
9	Dharmavaram ..	The Superintending Engineer (Operation), Anantapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	Eluru ..	The Eluru Electric Supply Corporation Ltd., M/A. M/s. Chandrie & Co., P.B. No. 156, Madras 1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
11	Giddalur ..	The Superintending Engineer (Operation), Anantapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
12	Gooty-Taluk ..	The Superintending Engineer (Operation), Anantapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
13	Gudivada ..	The Superintending Engineer (Operation), Vijayawada.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
14	Guntur ..	The Superintending Engineer (Operation), Vijayawada.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
15	Hindupur ..	The Superintending Engineer (Operation), Anantapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
16	Ichhapuram ..	The Superintending Engineer (Operation), Vijayawada.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
17	Kadiri ..	The Superintending Engineer (Operation), Anantapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
ANDHRA—contd.				
18	Kakinada ..	The Superintending Engineer (Operation), Vijayawada.	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.
19	Kurnool ..	The Superintending Engineer (Operation), Anantapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
20	Macherla ..	The Superintending Engineer (Operation), Vijayawada.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
21	Maohkund ..	The Superintending Engineer (Operation), Visakhapatnam.	132,000	3 ph. A.C. 50 cy.
22	Madanapalle ..	The Superintending Engineer (Operation), Anantapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
23	Masulipatam ..	The Commissioner, The Masulipatam Municipality, Masulipatam.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
24	Nandyal ..	The Superintending Engineer (Operation), Anantapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
25	Narasaraopet ..	The Superintending Engineer (Operation), Vijayawada.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
26	Narasipatnam ..	The Supervisor (Electrical), Diesel Power House, Narasipatnam.	400	3 ph. A.C. 50 cy.
27	Nellore ..	The Superintending Engineer (Operation), Anantapur.	6,600 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
28	Proddattur ..	The Superintending Engineer (Operation), Anantapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
29	Ranigunta ..	The Assistant Engineer (Electrical), Rayalaseema Power System, Ranigunta Sub-Division, Ranigunta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
30	Rajahmundry ..	The Superintending Engineer (Operation), Vijayawada.	11,000 3,300 400	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy.
31	Rayadurg ..	The Superintending Engineer (Operation), Anantapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
32	Srikakulam ..	The Superintending Engineer (Operation), Vijayawada.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
33	Tadpatri ..	The Superintending Engineer (Operation), Anantapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
34	Tekkali ..	The Superintending Engineer (Operation), Vijayawada.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
ANDHRA—concl'd.				
35	Tirumalai Tirupati ..	The Executive Engineer, Tirumalai Tirupati Davasthanam, Electricity Department, Tirupati.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
36	Vijayawada Municipal ..	The Commissioner, The Vijayawada Municipality, Vijayawada.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
37	Vijayawada ..	The Superintending Engineer (Operation), Vijayawada.	11,000 6,600 3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
38	Visakhapatnam ..	The Superintending Engineer (Operation), Vijayawada.	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.
ASSAM				
1	Barpeta ..	The Barpeta Mouza Co-operative Electric Supply Co., P.O. Barpeta (Distt. Kamrup).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
2	Dibrugarh ..	The Dibrugarh Electric Supply Co. Ltd., P.O. Rehabori, Dibrugarh.	440 220	D.C. 3 Wire. D.C. 2 Wire.
3	Dhubri ..	The National Power Supply Corporation Ltd. (Dhubri Branch), M/A. M/S. K. K. Sen & Sons, 90, Shyama Prasad Mukerjee Road, Calcutta 26.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
4	Dergaon ..	The Officer-in-charge, The State Electric Supply, Dergaon, P.O. Dergaon.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
5	Gauhati ..	The Gauhati Electric Supply Corporation (1927) Ltd., M/A. M/S. Development of Industries (India) Private Ltd., 135, Prinsep Street, Calcutta 13.	3,300 3,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Golaghat ..	The Officer-in-charge, The State Electric Supply, Golaghat, P.O. Golaghat, (Distt. Sibsagar).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Goalpara ..	The Officer-in-charge, The State Electric Supply, Goalpara, P.O. Goalpara (Distt. Goalpara).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
8	Jorhat ..	The Jorhat Electric Supply Ltd., M/A. M/S. K. N. Himatsingka & Co., Temple Chambers, 6, Old Post Office Street, Calcutta.	400 220	D.C. 3 Wire. D.C. 2 Wire.
9	Karimganj ..	The Assistant Engineer (Electrical), The State Electric Supply, Karimganj.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	Mangaldai ..	The Officer-in-charge, The State Electric Supply, Mangaldai, P.O. Mangaldai, (Distt. Darrang).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
11	Nalbari ..	The Officer-in-charge, The State Electric Supply, Nalbari, P. O. Nalbari, (Distt. Kamrup).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
12	Nowgong ..	The Assistant Engineer (Electrical), The State Electric Supply, Nowgong.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
ASSAM—contd.				
13	Shillong	The Shillong Hydro Electric Ltd., M/A. M/S. Development of Industries (India) Private Ltd., 135, Prinsep Street, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
14	Silchar	The Silchar Electric Supply Ltd., M/A. M/S. Sarada Charan Barada Kanta Roy, Silchar.	400 220	D.C. 3 Wire. D.C. 2 Wire.
15	Sualkuchi	The Officer-in-charge, The State Electric Supply, Sualkuchi, P. O. Sualkuchi, (Distt. Kamrup).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
16	Tezpur	The Tezpur Electric Supply Co. (Private) Ltd., Automobile, Electrical and Mechanical Engineers, Tezpur, Assam.	220	D.C. 2 Wire.
BIHAR				
1	Adra	The Assistant Electrical Engineer, Adra Electrical Sub-Division, Adra.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
2	Arrah	The Sub-Divisional Officer, Arrah Electric Supply, Sub-Division, Arrah.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
3	Arrah	The Arrah Electric Supply Co. Ltd., M/A. Amirchandra and Co., Arrah.	400 230	D.C. 3 Wire. D.C. 2 Wire.
4	Behar Shariff	The Electrical Executive Engineer, Electric Construction Division No. 1, Behar Shariff.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
5	Begusarai	The Electrical Executive Engineer, Tubewell & Electric Pilot Station Division (Begusarai Electricity Department), Kaithar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Bettiah	The Electrical Executive Engineer, Tubewell and Electric Pilot Station Division No. 1, Bettiah.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Bhagalpur	The Bhagalpur Electric Supply, Messrs. Octavious Steel and Co. Ltd., 14, Old Court House Street, Calcutta.	3,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
8	Buxar	The Electrical Executive Engineer, Buxar Power House, Dehri-on-Sone Electric Supply Division, Dehri-on-Sone.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
9	Chaibassa	The Chaibassa Electric Supply Co., C/O Messrs. Mangilal Rungta, Chaibassa.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	Chakia	The Officer-in-charge, Pilot Generating Station, Chakia.	300 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
11	Chapra	The Electrical Executive Engineer, Tubewell and Electric Pilot Station Division No. II (Chapra Power House), Muzaffarpur.	3,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
12	Chirkunda	The Chirkunda Electric Supply Co. Ltd., P.O. Barakar, District Burdwan.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
BIHAR—contd.				
13	Damodar Valley Corporation	The Commercial Engineer, Damodar Valley Corpn., Anderson House, Alipore, Calcutta 27.	33,000 11,000 3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
14	Daltonganj ..	The Asstt. Electrical Engineer, State Electric Supply Sub-Division, Daltonganj.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
15	Darbhanga Laheriasarai	The Resident and Chief Engineer, The Darbhanga Laheriasarai Electric Supply Corporation Ltd., Messrs. Baroliya Bros., Darbhanga.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
16	Dehri-on-Sone ..	The Electrical Executive Engineer, Dehri-on-Sone Electric Supply Division, Dehri-on-Sone.	6,600 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
17	Dhanbad ..	The Asstt. Electrical Engineer, Dhanbad Electric Supply Sub-Division, Dhanbad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
18	Digwadih ..	The Assistant Electrical Engineer, Digwadih Electrical Division, P.O. Bhaga, Digwadih.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
19	Dumka ..	The Asstt. Electrical Engineer, Dumka Electric Supply, Madhopur-Deogarh Electric Supply Sub-Division, Deogarh.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
20	Ganwan ..	The Asstt. Electrical Engineer, Electrical Construction Sub-Division, Ganwan (Hazaribagh).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
21	Gaya ..	The Executive Engineer (Electrical), The Gaya Electric Supply Division, Government of Bihar, Gaya.	2,000 400 230 440 220	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
22	Giridih ..	The Electrical Sub-Divisional Officer, Electrical Supply Sub-Division, Giridih.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
23	Hajipur ..	The Electrical Executive Engineer, Tubewell and Electric Pilot Station Division, No. 2 (Hajipur Power House), Muzaffarpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
24	Hazaribagh ..	The Assistant Electrical Engineer, Bihar State Electric Supply, Hazaribagh.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
25	Jharia Coal Field ..	The Jharia Coal Field Electric Supply Co. (Private) Ltd., P.B. No. 16, Dhanbad.	400 230 440 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
26	Jugsalai ..	The Jugsalai Electric Supply Co., C/O Messrs. Mangilal Rungta, Jugsalai (Tatanagar) B.N. Rly.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
BIHAR—contd.				
27	Khagaria ..	The Resident Engineer, Khagaria Electric Supply Co., Khagaria.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
28	Kharkharee ..	The Asstt. Electrical Engineer, Ganeshpur Electric Sub-Division, Kharkharee P.O. Mohuda.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
29	Kodarma ..	The Assistant Electrical Engineer, Bihar State Electric Supply Kodarma, P.O. Jhumri Tilaiya.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
30	Lakhisarai ..	The Assistant Electrical Engineer, Mokamah.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
31	Madhubani ..	The Sub-Divisional Officer, Electric Supply Sub-Division, Madhubani.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
32	Madhupur Deoghar ..	The Assistant Electrical Engineer, The Madhupur-Deoghar Electric Supply Division, Deoghar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
33	Mirganj ..	The Electrical Executive Engineer, Tubewell and Electric Pilot Station, Division No. II (Mirganj Power House), Muzaffarpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
34	Mohuda ..	The Assistant Electrical Engineer, Ganeshpur Electrical Sub-Division, Mohuda (Manbhumi).	3,000 550 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
35	Monghyr ..	The Assistant Electrical Engineer, Sheonandan Palace, Bari Bazar Road, Monghyr.	400 230 460 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
36	Motihari ..	The Motihari Electric Supply, Government of Bihar, Motihari.	..	..
37	Muzaffarpur ..	The Muzaffarpur Electric Supply Co. Ltd., M/A. M/S. Octavious Steel and Co. Ltd., 14, Old Court House Street, Calcutta.	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.
38	Netarhat ..	The Electrical Engineer, Ranchi Electrification Division, Netarhat State Electric Supply, Nepal House, Doranda.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
39	Nirsachatti ..	The Assistant Electrical Engineer, Nirsa Electric Sub-Division, P.O. Nirsachatti (Dhanbad).	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
40	Patna ..	The Patna Electric Supply Co. Ltd., M/A. M/S. Octavious Steel and Co. Ltd., 14, Old Court House Street, Calcutta.	6,000 3,000 380 220 440 220	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.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
<i>BIHAR—contd.</i>				
41	Patna-Barh ..	The Electrical Executive Engineer, Patna Electric Supply Division, Patna.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
42	Purulia ..	The Purulia Electric Supply Corporation Ltd., M/A. M/S. The Purulia Trading Co. Ltd., Electrical Engineers and Contractors, Purulia (Bihar).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
43	Pusa ..	The Electrical Executive Engineer, Tubewell and Electric Pilot Station, Division No. 2 (Pusa Power House), Muzaffarpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
44	Ramgarh ..	The Ramgarh Electric Supply, Government of Bihar, Ramgarh.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
45	Ranchi ..	The Ranchi Electric Supply Co. Ltd., M/A. M/S. Budhia Bros. (Private) Ltd., Main Road, Ranchi.	6,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
46	Sahebgunge ..	The Sub-divisional Officer, Bihar State Electric Supply Sub-division, Sahebgunge.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
47	Sakri ..	The Electrical Executive Engineer, Pilot Generating, Sakri.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
48	Samastipur ..	The Electrical Executive Engineer, Tubewell and Electric Pilot Station Division No. 2 (Samastipur Power House), Muzaffarpur.	460 230	D.C. 3 Wire. D.C. 2 Wire.
49	Sijua (Jherriah) ..	The Chief Engineer and Manager, The Sijua (Jherriah) Electric Supply Co. Ltd., M/A. M/S. Bird and Co. (Private), P.O. Mansjora (Distt. Manbhum).	10,500 6,300 550	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy.
BOMBAY				
1	Abu (Mount) ..	Mount Abu Electric Supply Co., Lothian Power House, Mount Abu.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
2	Abu Road ..	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.
3	Ahmedabad ..	The Commercial Engineer and Manager, The Ahmedabad Electricity Co. 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.
4	Ahmednagar ..	The Ahmednagar Electric Supply Co. Ltd., M/A. M/S. Nariman Sons Ltd., Nariman House, 49, Bamaviji Mastu Road, Dhobi Talao, Bombay-2.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
5	Akalkot ..	The Manager, Vijaysinh Electric Supply Co., Akalkot	440 250	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Amalner ..	The Chairman, Board of Directors, The Amalner Electric Supply Co. Ltd., Amalner.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Ambernath ..	The Electrical Engineer to the Government of Bombay, P.W.D. Offices, Churchgate Street, Bombay-1.	6,600 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
BOMBAY—contd.				
8	Amreli ..	The Amreli Electricity Co. Ltd., M/A. M/S. Mehta Patel and Seth Co., Amreli.	440 220	D.C. 3 Wire. D.C. 2 Wire.
9	Anand ..	The Anand Electric Supply Co. Ltd., M/A. M/S. The Sonawala Co. Ltd., Sonawala Buildings, 59/63, Apollo Street, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	Athni ..	Light and Power Suppliers Ltd. (Athni Branch), M/A. M/S. Industrial Services Ltd., Gumaste Building, 180, Budhwar Peth, Laxmi Road, Poona-2.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
11	Aundh ..	Light and Power Suppliers Ltd. (Aundh Branch), M/A. Industrial Services Ltd., Gumaste Building, 180, Budhwar Peth, Laxmi Road, Poona-2.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
12	Bagalkot ..	Shree Venkatesh Power Works, C/O Srimant K.S. Sardesai, Bagalkot.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
13	Bailhongal ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
14	Bansda ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	230	D.C. 2 Wire.
15	Baramati ..	The Baramati Electric Supply Co. (Private) Ltd., M/A. Messrs. Poonawala & Co., 182, Raviwar Peth, Poona.	460 230	D.C. 3 Wire. D.C. 2 Wire.
16	Bardoli ..	Shri Sardar Kheti Sahayak Vidyut Mandal Ltd., Bardoli.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
17	Baria ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
18	Baroda ..	The Electrical Engineer, Baroda Municipality, Post Box No. 17, Baroda.	3,300 400 130	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
19	Barsi ..	The General Engineering Corporation Ltd., Barsi Electric Supply, 70, Forbes Street, Temple Bar Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
20	Bassein ..	The Bassein Electric Supply Co. Ltd., M/A. M/S. J.B. Manneckji & Co. Ltd., Mehta House, Apollo Street, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
21	Belapur Road and Kopergaon.	The Engineer-in-charge, The Belapur Kopergaon Electric Supply Co. Ltd., Shirampur (Distt. Ahmednagar).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
22	Belapur Town ..	The Engineer-in-charge, The Belapur-Kopergaon Electric Supply Co. Ltd., M/A. M/S. Satbhai & Co. Ltd., Belapur Town (Distt. Ahmednagar).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
23	Belgaum ..	The Amalgamated Electricity Co. (Belgaum) Ltd., (Belgaum Branch), M/A. The Consolidated Electric Agencies Ltd., 17-B., Horniman Circle, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
	2	3	4	5
BOMBAY—contd.				
24	Bhatgar ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	2,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
25	Bhiwandi ..	The Amalgamated Electricity Co. (Belgaum) Ltd., (Bhiwandi Branch), M/A. The Consolidated Electric Agencies Ltd., 17-B Horniman Circle, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
26	Bhor ..	The Bhor Electric Supply Co., M/S. Thopte Patel and Co., Nana Bhuvan, 1194/20, Ghole Road, Poona-4.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
27	Bhusawal ..	The Amalgamated Electricity Co. (Belgaum) Ltd., (Bhusawal Branch), M/A. The Consolidated Electric Agencies Ltd., 17-B, Horniman Circle, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
28	Bijapur ..	The Bijapur Electric Supply Co. Ltd., M/A. M/S. Abdul Kayum & Sons, Bijapur.	440 220	D.C. 3 Wire. D.C. 2 Wire.
29	Bilimora ..	The Bilimora Electric Power Supply Co., Bilimora.	460 230	D.C. 3 Wire. D.C. 2 Wire.
30	Bombay District ..	The Tata Hydro Electric Agencies Ltd., Bombay House, 24 Bruce Street, Fort, Bombay.	100,000 22,000 6,600 5,500 4,400 3,300	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy.
31	Bombay City ..	The Bombay Electric Supply and Transport Undertaking, Bombay Municipality, Best 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.
32	Bombay Suburban ..	Bombay Suburban Electric Supply Ltd., M/A. M/S. Killick Industries Ltd., Bombay.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
33	Broach ..	The Broach Electric Supply and Development Corporation Ltd., M/A. The Rajputana Textiles (Agencies) Private Ltd., Esplanade Mansions, 144-146, Mahatma Gandhi Road, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
34	Budhgaon & Madhavanagar.	The Budhgaon and Madhvanagar Electric Supply Co. Ltd., M/A. M/S. Blossom Agencies Ltd., Satara.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
35	Bulsar ..	The Amalgamated Electricity Co. (Belgaum) Ltd., (Bulsar Branch), M/A. The Consolidated Electric Agencies Ltd., 17-B Horniman Circle, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
36	Bulsar Rural ..	The Chief Engineer, Bombay Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
BOMBAY—contd.				
37	Byadgi ..	The Byadgi Electric Supply, C/O Messrs. Manvi Bros., Station Road, Gadag.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
38	Cambay ..	The Cambay Electric Supply & Industrial Co. Ltd., M/A. M/S. A.A. Meeyajee & Co. (Private) Ltd., Power House, Cambay.	460 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
39	Chalisgaon ..	The Chalisgaon Electricity Co. Ltd., M/A. The Consolidated Electric (Agencies) Ltd., 17-B, Horniman Circle, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
40	Chiplun ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
41	Chola ..	The Executive Engineer, Bombay State Electricity Board, Operation and Maintenance Division, Thakruli.	95,000	3 ph. A.C. 50 cy.
42	Chopda ..	The Chopda Electric Supply Co. Ltd., Chopda (East Khandesh).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
43	Chota Udepur ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-I.	400 230 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 2 Wire.
44	Dabhoi ..	The Dabhoi Electric Supply Co., C/O Seth Girdharilal Motilal Contractor, Dabhoi (Baroda District).	440 220	D.C. 3 Wire. D.C. 2 Wire.
45	Dakor-Umreth ..	The Engineer-in-Charge, The Dakor-Umreth Electricity Co. Ltd., Dakor.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
46	Deesa ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-I.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
47	Dhanera ..	Dhanera Electric Supply Co., M/A. M/S. M.A. Master & Sons, Station Road, Palanpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
48	Dahanu Road ..	Dahanu Road Peoples Co-operative Electric Supply Society Ltd., Dahanu Road (District Thana).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
49	Dharampur ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-I.	460 230	D.C. 3 Wire. D.C. 2 Wire.
50	Dharangaon ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-I.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
51	Dhari ..	Dhari Electric Supply Co., Dhari.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
52	Dharwar ..	The Dharwar Electric Supply Co. Ltd., Messrs. A.E. Cos. (India) Ltd., Post Box No. 5, Dharwar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
53	Dhulia ..	The Dhulia Electric Supply Co. (Private) Ltd., M/A. Messrs. Godbole Kane & Co., 859 Sadashiv Path, Poona.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
54	Dohad ..	The Dohad Electricity Co. Ltd., M/A. The Consolidated Electric Agencies Ltd., 17-B Horniman Circle, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
BOMBAY—contd.				
55	Gadag ..	The Gadag Electric Supply, C/O M/S. Manvi Bros., Station Road, Gadag.	460 230	D.C. 3 Wire. D.C. 2 Wire.
56	Godhra ..	The Godhra Electricity Co. Ltd., Power House, Godhra.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
57	Guledgud ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
58	Harihar Haveri Section	The Chief Engineer, Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
59	Haveri ..	The Haveri Electric Supply, C/O Messrs. Manvi Bros., Station Road, Gadag.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
60	Hubli ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
61	Hukeri ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
62	Ichalkaranji ..	The Ichalkaranji Electric Supply Co., Ichalkaranji. (District Satara).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
63	Idar (Himatnagar) ..	The Chief Engineer, Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	230	D.C. 2 Wire.
64	Igatpuri ..	The Igatpuri Electric Supply Co., M/A. M/S. Pandit & Co., 15, Forbes Street, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
65	Ilkal ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
66	Islampur ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
67	Jalgaon ..	The Amalgamated Electricity Co. (Belgaum) Ltd., (Jalgaon Branch), M/A. The Consolidated Electric Agencies Ltd., 17-B, Horniman Circle, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
68	Jambusar ..	The Jambusar Electric Supply Co. Ltd., Podar Chambers, Parsi Street, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
69	Jamkhandi ..	The Manager, The Electric Power Supply Co. (Private) Ltd., Jamkhandi.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
70	Janjira Murad ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	230	D.C. 2 Wire.
71	Jaisinghpur ..	The Jaisinghpur Electric Co. Ltd., M/A. M/S. S.M. Ghatge & Co., Jaysinghpur (District Kolhapur).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
72	Jog Hubli Section ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, 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.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
BOMBAY—contd.				
73	Jowhar ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
74	Junnar ..	The Junnar Electric & Water Supply Co., Messrs. Thopte Patil & Co., 'Nana Bhuvan', 1194/20, Ghole Road, Poona-4.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
75	Kadi ..	Kadi New Electric Supply Co. Ltd., Kadi.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
76	Kalol ..	The Commercial Manager, The Kalol Electric Supply & Industrial Co. Ltd., Kalol.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
77	Kalyan ..	The Kalyan Electric Supply Co. (Private) Ltd., K.R.K. Mansa Esq., Murkad Road, Kalyan.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
78	Kapadwanj ..	The Kapadwanj Town Co-operative Electric Association Ltd., Sardar Bang, Kapadwanj.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
79	Karad ..	The Karad Electric Supply Co. (Private) Ltd., Karad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
80	Karjan ..	The President, Karjan Municipality, Karjan.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
81	Karwar ..	The Karwar Electric Supply and Trading Co Ltd., M/A. M/S. The Kanara United Industrial Corporation (Private) Ltd, A 7 Genesh Prasad Sleater Road, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
82	Khanapur ..	The Resident Electrical Engineer, Khanapur Co-operative Electricity Society Ltd., Khanapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
83	Kholvad ..	The Kholvad Electric Supply Corporation, Kholvad (District Surat).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
84	Khopoli Village ..	The Tata Hydro Electric Agencies Ltd., Bombay House, 24, Bruce Street, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
85	Kolhapur ..	The Manager, Kolhapur Electric Supply, Kolhapur City.	440 220	D.C. 3 Wire. D.C. 2 Wire.
86	Kolhapur Suburban ..	The Chief Engineer, Bombay State Electricity Board, Emergency Irrigation & Radhanagari Hydro Electric Scheme, Mercantile Bank Building, 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.
87	Koregaon ..	The Allied Electric Agency (Private) Ltd., Power House, Koregaon.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
88	Lonavala Khandalla ..	The Lonavala Khandalla Electric Supply Co. Ltd., Mehta House, Apollo Street, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
89	Lunawada ..	Shree Lunawada Industries & Electricity Co., Lunawada (Via Godhra).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
BOMBAY—contd.				
90	Mahabaleshwar	Mahabaleshwar Electric Supply Co., Messrs. Panchgani Electric Supply Co. Ltd., 96 Duncan Road, Byoulla, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
91	Mahad	The Mahad Electric Supply Co. Ltd., Mahad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
92	Malegaon	The Malegaon Electricity Co. Ltd., M/A. The Consolidated Electric Agencies Ltd., 17-B, Horniman Circle, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
93	Malvan	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
94	Manmad	The Manmad Electric Supply Co. Ltd., M/A. Messrs. Pandit and Co., 15, Forbes Street, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
95	Mansa	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	230	D.C. 2 Wire.
96	Matheran	The Matheran Electric Supply Co. Ltd., Mehta House, Apollo Street, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
97	Mehsana	The Mehsana Electric Supply Co. Ltd., Near Model Talkies, 1758/1, Gandhi Road, Ahmedabad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
98	Miraj	The Miraj Electric Supply Co. Ltd., Miraj.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
99	Nadiad	The Nadiad Electric Supply Co. Ltd., Messrs. Sonawala Co. Ltd., Sonawala Buildings, 59/63, Apollo Street, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
100	Nandurbar	The Nandurbar Electric Supply Co. (Private) Ltd., M/A. M/S. K.S. Guzdar and Co., Ali Chambers, 4, B.C. Dean Lane, Fort, Bombay-1.	650 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
101	Nasarpur	The Nasarpur Electric Supply Co., 649, Shanwar Peth, Poona-2.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
102	Nasik Deolali	The Nasik-Deolali Electric Supply Co. Ltd., M/A. The Rajputana Textiles (Agencies) Private Ltd., Textiles (Agencies) Private Ltd., Esplanade Mansions, 144-146, Mahatma Gandhi Road, Fort, Bombay 1.	650 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
103	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.
104	Nipani	The Nipani Electricity Co. (Private) Ltd., Nipani (Distt. Belgaum).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
105	Nira-Lonand	The Nira-Lonand Electric Supply Co., M/S. Thopte Patil & Co., 'Nana Bhavan', 1194/20, Ghole Road, Poona-4.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
106	North Gujrat Electric Grid	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
BOMBAY—contd.				
107	Pachora ..	The Pachora Electric Supply Co., Ltd, Pachorai (East Khandesh).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
108	Palanpur (Iqbal) ..	The Electrical Engineering and Manager, The Iqbal Electric Supply Power House, Palanpur.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
109	Palghar Navli ..	Light and Power Suppliers Ltd. (Palghar Branch) M/A. Industrial Service Ltd., Gumaste Buildings, 180, Budhwar Peth, Laxmi Road, Poona-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
110	Panchgani ..	The Panchgani Electric Supply Co. Ltd., 96, Duncan Road, Byculla, Bombay.	460 230	D.C. 3 Wire. D.C. 2 Wire.
111	Pandharpur ..	The Pandharpur Electric Supply Co., Pandharpur.	460 230	D.C. 3 Wire. D.C. 2 Wire.
112	Panvel-Taluka ..	The Panvel-Taluka Electric Development Co. Ltd., M/A. M/S. Banthia Bros., Kesar Baug, Panvel.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
113	Patan ..	The Electrical Engineer, Patan Municipality, Patan.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
114	Petlad ..	The Electrical Engineer, Petlad Municipality, Petlad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
115	Poona ..	The Poona Electric Supply Co. Ltd., M/A. Messrs. The Rajputana Textiles (Agencies) Private Ltd., Esplanade Mansions, 144/146, Mahatma Gandhi Road, Fort, Bombay-1.	11,000 3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
116	Port Okha ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 2 Wire.
117	Randhanpur ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	440 220	D.C. 3 Wire. D.C. 2 Wire.
118	Rajppla ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
119	Ramdurg ..	The Madhav Pratap Electric Supply Co., Ramdurg.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
120	Rander ..	The Rander Electric Supply Ltd., M/A. M/S. Sunderrao Moreshwar Co., Lal Baug, Rander.	460 230	D.C. 3 Wire. D.C. 2 Wire.
121	Ranebenur ..	The Ranebenur Electric Co., Messrs. Manvi Bros., Station Road, Gadag.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
122	Ratnagiri ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
123	Sanand ..	The Sanand Electric Supply Co. (Private) Ltd., M/A. Messrs. Ranchodlal Chandulal & Co., Station Road, Sanand.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
124	Sangamner ..	The Sangamner Electric Supply Co. Ltd., Messrs. Penta & Co., Sangamner, Distt. Ahmednagar.	460 230	D.C. 3 Wire. D.C. 2 Wire.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
BOMBAY—contd.				
125	Sangli ..	The Jubilee Electric Works, Power House, Sangli.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
126	Sankheda ..	The President, Sankheda Municipality, Sankheda.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
127	Santrampur ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Buildings, Fort, Bombay-1.	460 230	D.C. 3 Wire. D.C. 2 Wire.
128	Satara Rural ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Buildings, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
129	Satara City ..	The Satara Electric Supply Co. Ltd., 217, Partaganj Peth, Satara City.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
130	Savanur ..	The President, Savanur Municipality, Savanur.	230	D.C. 2 Wire.
131	Savda-Faizpur ..	The Savda-Faizpur Electric Supply Co. Ltd., Messrs. Bandale & Sons, 386, Vithalbai Patel Road, Bombay-4.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
132	Sawantwadi ..	The Power & Light Distributing Corporation, Sawantwadi Electric Supply, Sawantwadi.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
133	Shirpur ..	The Shirpur Electric Supply Co. Ltd., Shirpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
134	Shirwal ..	Shirwal Electric Supply Co., Messrs. Thopte Patil & Co., 'Nana Bhavan', 1194/20, Ghole Road, Poona-4.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
135	Sholapur ..	The Sholapur Spinning & Weaving Co. Ltd., Town Electric Department, Sholapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
136	Sidhpur ..	The Sidhpur Electric & Industrial Co. Ltd., Near Station Sidhpur.	440 220	D.C. 3 Wire. D.C. 2 Wire.
137	Sinnar ..	The Sinnar Electric Supply Co. Ltd., M/A. Messrs. Deshpande & Co., Sinnar, District Nasik.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
138	Sirsi ..	The Kanara Electric Supply Co. Ltd., Sirsi.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
139	Surat ..	The Surat Electric Supply Co. Ltd., C/O M/S. Killick Industries Ltd., Bombay.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
140	Tapi ..	The Tapi Electric Supply and Industries Ltd., Kathor Via Sayah.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
141	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.
142	Thane ..	The Thane Electric Supply Co. (Private) Ltd., Court House (4th Floor) Carnac Road, Dhobi Talao, Bombay-2.	6,600 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
BOMBAY—contd.				
143	Udwada ..	The Udwada-Vapi Electric Supply Co. Ltd., M/A. Messrs. Raiyomand Engineering Co., Electric House, Gamchalla Post, Vapi.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
144	Ulhasnagar ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
145	Utran (South Gujrat Electric-Grid).	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-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.
146	Vadnagar ..	The Chief Officer, Electricity Department, Vadnagar Municipality, Vadnagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
147	Vallabh Vidayanagar ..	Messrs. Charotar Gramodhar Sabakari Mandal Ltd., Vallabh Vidayanagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
148	Vapi ..	The Udwada-Vapi Electric Supply Co. Ltd., Messrs. Raiyomand Engineering Co., Electric House, Gamchalla Post, Vapi.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
149	Vasai ..	The Vasai Electric Supply Co. Ltd., M/A. M/S. R. Shukla & Co. Vasai, Distt. Mchana.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
150	Vengurla ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
151	Virangam ..	The Virangam Electric Supply Co. Ltd., M/A. Messrs Saifee & Co., Virangam.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
152	Visnagar ..	The Chief Officer, Visnagar Municipality, Visnagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
153	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.
154	Vyara Kanpura ..	The Vyara-Kanpura Electric Co-operative Supply Society Ltd., Vyara.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
155	Wai ..	The Chief Engineer, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
156	Yeola ..	The Yeola Electric Supply Co. Ltd., Messrs. Pandit & Co., 15, Forbes Street, Fort, Bombay-1.	460 230	D.C. 3 Wire. D.C. 2 Wire.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
CENTRALLY ADMINISTERED AREAS				
DELHI				
1	Delhi State Electricity Board.	The Electrical Engineer, Delhi State Electricity Board, Central Power House, Rajghat, New Delhi.	6,400 400 230 500 250	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.
2	Delhi Shahadra ..	The Upper Jumna Valley Electric Supply Co. Ltd., M/A. M/S Martin Burn Ltd., 12, Mission Row, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
3	Narela	The National Electric Supply & Trading Corporation, Private Ltd., Ganpati Bhawan, 'Harblas Colony', Power House, Narela.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
4	New Delhi Municipal Committee.	The Superintending Engineer, New Delhi Municipal Committee, Electricity Department, New Delhi.	6,000 400 230 440 220	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
AJMER				
1	Ajmer ..	The Ajmer Electric Supply Co. Ltd., M/A. The Consolidated Electric Agencies Ltd., 17-B, Harniman Circle, Fort, Bombay-1.	400 230 460 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
2	Beawar ..	The Beawar Electric Supply Co. Ltd., Beawar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
3	Nasirabad ..	The Cantonment Executive Officer, Nasirabad.	460 230	D.C. 3 Wire. D.C. 2 Wire.
ANDAMAN & NICOBAR ISLANDS				
4	Port Blair ..	The Engineer & Harbour Master, Andaman & Nicobar Islands, Port Blair.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
BHOPAL				
6	Bhopal ..	The Electrical Engineer, Bhopal Electric Supply, Bhopal.	3,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Sehore ..	The Sehore Electric Supply Co. (Private) Ltd., Sehore Cantt.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
COORG				
7	Mercara ..	The Chief Secretary to Government of Coorg, Coorg Government Secretariat, Mercara.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
8	Somwarpet ..	The Chief Secretary to Government of Coorg, Coorg Government Secretariat, Mercara.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
9	Virajpet ..	The Chief Secretary to Government of Coorg, Coorg Government Secretariat, Mercara.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
CENTRALLY ADMINISTERED AREAS—contd.				
HIMACHAL PRADESH				
10	Chamba ..	The Executive Engineer, 2nd Hydro Electric Division, Chamba Electric Sub Division, Dalhousie.	230	D.C. 2 Wire.
11	Jubbal ..	The Executive Engineer, Jubbal Hydro Electric Division, Himachal Pradesh, P.W.D. Simla.	460 230	D.C. 3 Wire D.C. 2 Wire.
12	Mandi ..	The Sub-divisional Officer, Electric Sub-division, Mandi.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
13	Nahan ..	The Manager, Nahan Foundry, Himachal Pradesh, Nahan.	440 220	D.C. 3 Wire. D.C. 2 Wire.
14	Solan ..	The Executive Engineer, Hydro Electric Division, Himachal Pradesh, P.W.D., Kennedy Cottage, Simla—4.	460 230	D.C. 3 Wire. D.C. 2 Wire.
15	Sundernagar ..	The Sub-Divisional Officer, Sundernagar Power House, Mandi.	230	D.C. 2 Wire.
KUTCH				
16	Anjar ..	Messrs. Shah Spinning and Weaving Mills, Anjar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
17	Bhuj ..	The Electrical Engineer, Electricity Department, Government of Kutch, Bhuj.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
18	Gandhidham (Adipur) ..	The Sindhu Resettlement Corporation Ltd., Gandhidham Power House, Adipur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
19	Mandvi ..	The Electrical Engineer, Electricity Department, Government of Kutch, Bhuj.	400 230 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 2 Wire.
20	Mundra ..	The Electrical Engineer, Electricity Department, Government of Kutch, Bhuj.		
MANIPUR				
21	Imphal ..	The Electrical Engineer, Hydro Electric Office, Imphal	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
PONDICHERRY				
22	Karaikkal ..	The Karaikkal Electric Supply Co. Ltd., M/A, M/S. A.S. Ahilandam, 13, West Boulevard Road, Tiruchirappalli.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
23	Mahe ..	The Resident Engineer, The West Coast Electric Supply Corporation Ltd., Mahe.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
24	Pondicherry ..	The Director of Electricity, Electricity Department, Pondicherry.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
CENTRALLY ADMINISTERED AREAS—contd.				
TRIPURA STATE				
25	Agartala	The Resident Electrical Engineer, Agartala Electric Supply, Tripura Administration, Agartala.	400 230 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 2 Wire.
VINDHYA PRADESH				
26	Ajaigarh	The Technical Supervisor, Power House, Ajaigarh.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
27	Bijawar	The Electrical Engineer, Power House, Bijawar.	220	D.C. 2 Wire.
28	Chatarpur	The Sub-Divisional Officer, Electrical Sub-Division, Chatarpur.	220	D.C. 2 Wire.
29	Datia	The Sub-Divisional Officer, Electrical and Mechanical Department, Datia Sub-Division, Datia.	460 230	D.C. 3 Wire D.C. 2 Wire.
30	Maihar	The Electrical Engineer, Electrical & Mechanical Department, Rewa.	220	D.C. 2 Wire.
31	Nagod	The Electrical Engineer, Electrical & Mechanical Department, Rewa.	220	D.C. 2 Wire.
32	Panna	The Resident Engineer, Power House, Panna.	230	D.C. 2 Wire.
33	Rewa	The Electrical Engineer, Electrical & Mechanical Department, Rewa.	440 220	D.C. 3 Wire. D.C. 2 Wire.
34	Satna	The Electrical Engineer, Electrical & Mechanical Department, Rewa.	440 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
35	Shadol	The Electrical Engineer, Electrical & Mechanical Department, Rewa.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
36	Tikamgarh	The Sub-Divisional Officer, Electric Sub-Division, Tikamgarh.	220	D.C. 2 Wire
37	Umeria	The Electrical Engineer, Electrical and Mechanical Department, Rewa.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
HYDERABAD				
1	Aurangabad	The Chief Engineer (Electrical) Hyderabad State Electricity Department, Hyderabad (Deccan).	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
2	Azambad (Karimnagar)	The Chief Engineer (Electrical) Hyderabad State Electricity Department, Hyderabad (Deccan).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
3	Gulbarga	The Chief Engineer (Electrical) Hyderabad State Electricity Department, Hyderabad (Deccan).	6,600 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
HYDERABAD—contd.				
4	Hyderabad (Hussain-sagar).	The Chief Engineer (Electrical), Hyderabad State Electricity Department, Hyderabad (Deccan).	11,000 6,600 3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
5	Jalna ..	Manager & Chief Engineer, The Jalna Electric Syndicate Private Ltd., Jalna.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Khammameth ..	The Chief Engineer (Electrical), Hyderabad State Electricity Department, Hyderabad (Deccan).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Mahboobnagar ..	The Mahboobnagar Electricity Consumer's Co-operative Society Ltd., Mahboobnagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
8	Mancherial ..	The Chief Engineer (Electrical), Hyderabad State Electricity Department, Hyderabad (Deccan).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
9	Mulg ..	The Chief Engineer (Electrical), Hyderabad State Electricity Department, Hyderabad (Deccan).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	Nanded ..	The Chief Engineer (Electrical), Hyderabad State Electricity Department, Hyderabad (Deccan).	6,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
11	Narayanpet ..	The Chief Engineer (Electrical), Hyderabad State Electricity Department, Hyderabad (Deccan).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
12	Nizamabad ..	The Chief Engineer (Electrical), Hyderabad State Electricity Department, Hyderabad (Deccan).	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
13	Nizamsagar ..	The Chief Engineer (Electrical), Hyderabad State Electricity Department, Hyderabad (Deccan).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
14	Peddapalli ..	The Chief Engineer (Electrical), Hyderabad State Electricity Department, Hyderabad (Deccan).	440 250	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
15	Raichur ..	The Chief Engineer (Electrical), Hyderabad State Electricity Department, Hyderabad (Deccan).	6,600 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
16	Ramagundam ..	The Chief Engineer (Electricity) Hyderabad State Electricity Department, Hyderabad (Deccan).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
17	Vikarabad ..	The Chief Engineer (Electrical), Hyderabad State Electricity Department, Hyderabad (Deccan).	440 250	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
18	Warrangal ..	The Chief Engineer (Electrical), Hyderabad State Electricity Department, Hyderabad (Deccan).	6,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
19	Yadgir ..	The Chief Engineer (Electrical), Hyderabad State Electricity Department, Hyderabad (Deccan).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
20	Yellandu ..	The Chief Engineer (Electrical), Hyderabad State Electricity Department, Hyderabad (Deccan).	2,200 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
JAMMU AND KASHMIR				
1	Bandipore ..	The Chief Engineer, Electrical and Mechanical Department, Kashmir State, Srinagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
2	Ganderbal ..	The Chief Engineer, Electrical & Mechanical Department, Kashmir State, Srinagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
3	Jammu ..	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.
4	Mohora ..	The Chief Engineer, Electrical and Mechanical Department, Kashmir State, Srinagar.	2,000/ 2,300 200/220 200/220	3 ph. A.C. 25 cy. 3 ph. A.C. 25 cy. 1 ph. A.C. 25 cy.
5	Muzaffarabad ..	The Chief Engineer, Electrical and Mechanical Department, Kashmir State, Srinagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Pahalgam ..	The Chief Engineer, Electrical & Mechanical Department Kashmir State, Srinagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Poonch ..	The Chief Engineer, Electrical and Mechanical Department, Kashmir State, Srinagar.	440 220	D.C. 3 Wire. D.C. 2 Wire.
MADHYA BHARAT				
1	Alirajpur ..	The Alirajpur Electric Supply Co., Alirajpur.	460 230	D.C. 3 Wire. D.C. 2 Wire.
2	Barnagar ..	The Barnagar Electric Supply and Industrial Co. Ltd., Barnagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
3	Barwani ..	The Inspector & Foreman, Madhya Bharat Electric Supply, Barwani	140	D.C. 2 Wire.
4	Bhilsa ..	The Malwa Electric Supply Co., Ltd., M/S. Patel Ltd. (Bhilsa Branch), Bhilsa.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
5	Bhind ..	The Assistant Electrical Engineer, Madhya Bharat Electric Supply, Bind.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Dewas Junior ..	The Supervisor, Madhya Bharat Electric Supply, Dewas (Junior).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Dewas Senior ..	The Manager, The Dewas (Senior) Electric Supply Co. Ltd., Dewas Senior.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
8	Dhar ..	The Assistant Electrical Engineer, Madhya Bharat Electric Supply, Dhar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
9	Guna ..	The Malwa Electric Supply Co. Ltd., M/A. M/S. Patel Ltd. (Guna Branch), Guna.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	Gwalior ..	The Superintending Engineer (Electrical), Madhya Bharat Government Electric Supply, Gwalior.	400 230 440 220	3 ph. A.C. 50 cy. 1 Ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
MADHYA BHARAT—contd.				
11	Indore ..	The Resident Engineer, Madhya Bharat Electric Supply, Indore.	6,600 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
12	Jaora ..	The Supervisor, Madhya Bharat Electric Supply, Jaora.	440 220	D.C. 3 Wire. D.C. 2 Wire.
13	Jhabua ..	The Manager, Jhaba Power House, C/O Madhya Bharat Oil Trading Corporation, Budhwaria Bazar, Ujjain.	220	D.C. 2 Wire.
14	Kharagone ..	The Supervisor, Madhya Bharat Electric Supply, Kharagone.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
15	Khilchipur ..	The Manager, Khilchipur Power House, Khilchipur	230	D.C. 2 Wire.
16	Kurwai ..	The Inspector & Foreman, Madhya Bharat Electric Supply, Kurwai.	230	D.C. 2 Wire.
17	Mandsaur ..	The Mandsaur Electric Supply Co. Ltd., Mandsaur	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
18	Mehidpur ..	The Supervisor, Madhya Bharat Electric Supply, Mehidpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
19	Mhow ..	The Mhow Electric Supply Co., South Road, Mhow.	460 230	D.C. 3 Wire. D.C. 2 Wire.
20	Morena ..	The Supervisor, Madhya Bharat Electric Supply, Morena.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
21	Narsingarh ..	The Foreman & Inspector, Madhya Bharat Electric Supply, Narsingarh.	440 220	D.C. 3 Wire. D.C. 2 Wire.
22	Neemuch ..	The Gwalior & Malwa Industries and Electric Supply Ltd., Neemuch.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
23	Rajgarh ..	The Inspector & Foreman, Madhya Bharat Electric Supply, Rajgarh.	230	D.C. 2 Wire.
24	Ratlam ..	The Ratlam Electric Supply & Weaving Mills Co. Ltd., Ratlam.	460 230	D.C. 3 Wire. D.C. 2 Wire.
25	Sailana ..	The Engineer, Sailana Electric Power House, Sailana.	230	D.C. 2 Wire.
26	Sanawad ..	The Supervisor, Madhya Bharat Electric Supply, Sanawad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
27	Shajapur ..	The Chief Executive Officer, Municipal Electric and Water Works Section, Shajapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
28	Shivpuri ..	The Asstt. Electrical Engineer, Madhya Bharat Electric Supply, Shivpuri.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
29	Sitamau ..	Shree Krishna Electric Suppliers, Sitamau.	460 230	D.C. 3 Wire. D.C. 2 Wire.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
MADHYA BHARAT—contd.				
30	Shujalpur ..	The Supervisor, Madhya Bharat Electric Supply, Shujalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
31	Tarana ..	The Manager, Tarana Electric Supply, Tarana.	220	D.C. 2 Wire.
32	Ujjain ..	The Resident Engineer and Manager, Madhya Bharat Electric Supply, Ujjain.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
33	Vidisha ..	The Supervisor, Madhya Bharat Electric Supply, Bhilsa.	420 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
MADHYA PRADESH				
1	Akola ..	The Manager, Akola Electric Supply Co. (Private) Ltd., Jatharpeth Road, Akola.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
2	Ambikapur ..	The Chief Accounts Officer, Madhya Pradesh Electricity Board, Harkarwala Buildings, Chhindwara Road, Nagpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
3	Arvi ..	The Electrical Undertakings Ltd., M/A. The Indian Engineering Syndicate, Mehta House, Appollo Street, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
4	Baikunthpur ..	The Chief Accounts Officer, M.P. Electricity Board, Harkarwala Buildings, Chhindwara Road, Nagpur.	230	D.C. 2 Wire.
5	Ballarshah, Khaparkheda and Chandni (Amraoti Division).	The Chief Accounts Officer, M.P. Electricity Board, Harkarwala Buildings, Chhindwara Road, Nagpur. (a) Ballarshah Khaparkheda (b) Chandni	66,000 33,000 11,000 400 230 6,600 400 230	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. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Bilaspur ..	The Central India Electric Supply Co. Ltd., Bilaspur	380/400 220/230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Bina ..	The Chief Accounts Officer, Electricity Board, Harkarwala Buildings, Chhindwara Road, Nagpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
8	Buldana ..	The Chief Accounts Officer, M. P. Electricity Board, Harkarwala Buildings, Chhindwara Road, Nagpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
9	Burhanpur ..	The Burhanpur Electric Supply and Trading Co., C/O. The Kohinoor Traders Ltd., 207, Kalbadevi Road, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	Chanda ..	The Chanda Electric Supply Co. (Private) Ltd., M/A. M/S K.S. Guzder & Co., Ali Chambers, 4, BC, Dean Lane, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
11	Chhindwara ..	The Chhindwara Electric Supply Co., Narsingpur Road, Chhindwara.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
12	Chhuikhadam ..	The Chief Accounts Officer, M.P. Electricity Board, Harkarwala Buildings, Chhindwara Road, Nagpur.	220	D.C. 2 Wire.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
MADHYA PRADESH—contd.				
13	Damoh ..	The Chief Accounts Officer, M.P. Electricity Board, Hakarwala Buildings, Chhindwara Road, Nagpur.	460 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
14	Dharamjaigarh ..	The Chief Accounts Officer, M.P. Electricity Board, Hakarwala Buildings, Chhindwara Road, Nagpur.	400 230	D.C. 3 Wire. D.C. 2 Wire.
15	Gondia ..	The Gondia Electric Supply Co. Ltd., M/A. M/S. Sugni Chand Chimandas Jotwani & Col, Gondia.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
16	Harda ..	The Harda Electric Supply Co. (Private) Ltd., M/A. M/S. Bomonjee Eduljee Cassinath, 17-19, Bastion Road, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
17	Itarsi ..	The Chief Accounts Officer, M. P. Electricity Board, Hakarwala Buildings, Chhindwara Road, Nagpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
18	Jagdapur (Baster) ..	The Chief Accounts Officer, M. P. Electricity Board, Hakarwala Buildings, Chhindwara Road, Nagpur.	400 220	D.C. 3 Wire. D.C. 2 Wire.
19	Jashpur ..	The Chief Accounts Officer, M. P. Electricity Board, Hakarwala Buildings, Chhindwara Road, Nagpur.	400 220	D.C. 3 Wire. D.C. 2 Wire.
20	Jubbulpore Co. ..	The Jubbulpore Electric Supply Co. Ltd., M/A. M/S. Martin Co. Ltd., 12, Mission Row, Calcutta 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.
21	Jubbulpore Districts (Northern Grid).	Madhya Pradesh State Electricity Undertaking, Jubbulpore C/O The Jubbulpore Electric Supply Co. Ltd., M/A M/S. Martin Burn Ltd., Post Box No. 27, Jubbulpore.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
22	Kanker ..	The Chief Accounts Officer, M. P. Electricity Board, Hakarwala Buildings, Chhindwara Road, Nagpur.	400 220	D.C. 3 Wire. D.C. 2 Wire.
23	Kareli (Narsinghpur) ..	The Chief Accounts Officer, M. P. Electricity Board, Hakarwala Buildings, Chhindwara Road, Nagpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
24	Katni ..	The Central India Electric Supply Co. Ltd., Katni.	6,600 380/400 220/230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
25	Khairagarh ..	The Chief Accounts Officer, M. P. Electricity Board, Hakarwala Buildings Chhindwara Road, Nagpur.	450 225	D.C. 3 Wire. D.C. 2 Wire.
26	Khamgaon ..	The Khamgaon Electric Supply (Private) Ltd., Court House (4th Floor), Carnac Road, Dhobi Talao, Bombay-2.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
27	Khandwa ..	The Chief Accounts Officer, M. P. Electricity Board, Hakarwala Buildings, Chhindwara Road, Nagpur.	400 220	D.C. 3 Wire. D.C. 2 Wire.
28	Malkapur ..	The Chief Accounts Officer, M. P. Electricity Board, Hakarwala Buildings, Chhindwara Road, Nagpur.	440 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
MADHYA PRADESH—contd.				
29	Mandla ..	The Chief Accounts Officer, M. P. Electricity Board, Hakarwala Buildings, Chhindwara Road, Nagpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
30	Nagpur ..	The Nagpur Electric Light and Power Co. Ltd., Civil Lines, Post Box No. 2, Nagpur.	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.
31	Pachmarhi ..	The Chief Accounts Officer, M. P. Electricity Board, Hakarwala Buildings, Chhindwara Road, Nagpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
32	Piparia ..	The Chief Accounts Officer, M.P. Electricity Board, Hakarwala Buildings, Chhindwara Road, Nagpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
33	Raigarh ..	The Chief Accounts Officer, M.P. Electricity Board, Hakarwala Buildings, Chhindwara Road, Nagpur.	440 220	D.C. 3 Wire. D.C. 2 Wire.
34	Raipur & Drug (Eastern Grid).	The Chief Accounts Officer, M.P. Electricity Board, Hakarwala Buildings, Chhindwara Road, Nagpur. (a) Raipur (b) Durg	11,000 400 230 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
35	Rajnandgaon ..	The Chief Accounts Officer, M.P. Electricity Board, Hakarwala Buildings, Chhindwara Road, Nagpur.	220	D.C. 2 Wire
36	Sakti ..	The Chief Accounts Officer, M.P. Electricity Board, Hakarwala Buildings, Chhindwara Road, Nagpur.	220	D.C. 2 Wire.
37	Sarangarh ..	The Chief Accounts Officer, M.P. Electricity Board, Hakarwala Buildings, Chhindwara Road, Nagpur.	220	D.C. 2 Wire.
38	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.
39	Seoni ..	The Seoni Electric Supply Co., C/O. M/S. Byramji D. Doongaji & Sons, Seoni.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
40	Umerkhed ..	The Chief Accounts Officer, M.P. Electricity Board, Hakarwala Buildings, Chhindwara Road, Nagpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
41	Wardha ..	The Nagpur Electric Light & 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.
42	Yeotmal ..	The President Engineer & Manager, The Yeotmal Electric Supply Co. Ltd., Yeotmal.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
MADRAS				
1	Bodinayakanur ..	The Superintending Engineer, Pykara Electricity System, Coimbatore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
2	Calicut ..	The West Coast Electric Supply Corporation Ltd., (Calicut Branch) M/A. M/S. Chandri and Co. (Private) Ltd., National Insurance Buildings, Explanade, Madras-1.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
3	Cannanore-Tellicherry ..	The West Coast Electric Supply Corporation Ltd., (Cannanore-Tellicherry Branch), M/A. M/S. Chandri & 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.
4	Coimbatore ..	The Municipal Electrical Engineer & Commissioner Delegates, The Coimbatore Municipality Coimbatore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
5	Coonoor ..	The Superintending Engineer, Pykara Electricity System, Coimbatore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Cuddalore ..	The South Arcot Electricity Distribution Co., Ltd., 'Jammi Buildings', Venkatachala Mudali Street, Malapore, P. B. No. 829, Madras-4.	22,000 11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Dharapuram ..	The Superintending Engineer, Pykara Electricity System, Coimbatore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
8	Dindigul ..	The Superintending Engineer, Pykara Electricity System, Coimbatore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
9	Fort Cochin ..	The Superintending Engineer, Pykara Electricity System, Coimbatore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	Karur ..	The Municipal Electrical Engineer, Karur (Distt. Tiruchirappalli).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
11	Kodaikanal ..	The Superintending Engineer, Pykara Electricity System, Coimbatore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
12	Kollegal ..	The Superintending Engineer, Pykara Electricity System, Coimbatore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
13	Kumbakonam ..	The Kumbakonam Electric Supply Corporation Ltd., M/A. The India Co. (Private) Ltd., Oriental Buildings, Armenian Street, Madras.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
14	Madras ..	The Superintending Engineer, Madras Electricity System, 157, Mount Road, Madras.	5,000 440 250 450 225	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.
15	Mathurai ..	The Commissioner-in-charge, The Mathurai Municipality, Mathurai.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
16	Mangalore ..	The Superintending Engineer, Madras Electricity system, 157, Mount Road, Madras-2.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C. phases, frequency etc.
1	2	3	4	5
MADRAS—contd.				
17	Mayavaram ..	The South Madras Electricity Supply Corporation Ltd., M/A. M/S. Seshasayee Brothers Ltd., Tiruchirapalli.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
18	Mettur ..	The Superintending Engineer, Mettur Electricity System, Mettur Dam.	22,000 11,000 6,600 400 230	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.
19	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.
20	Ootacamund ..	The Superintending Engineer, Pykara Electricity System, Coimbatore.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
21	Palghat ..	The Superintending Engineer, Pykara Electricity System, Coimbatore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
22	Palni ..	The Superintending Engineer, Pykara Electricity System, Coimbatore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
23	Papanasam ..	The Superintending Engineer, Papanasam Electricity System, P. O. Tallakulam, Mathurai.	22,000 11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
24	Periyakulam ..	The Superintending Engineer, Pykara Electricity System, Coimbatore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
25	Pollachi ..	The Pollachi Municipality, Pollachi.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
26	Pykara ..	The Superintending Engineer, Pykara Electricity System, Coimbatore.	22,000 11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
27	Salem Erode ..	The Salem Erode Electricity Distribution Co. Ltd., M/A. M/S. Octavious Steel & Co. Ltd., 14, Old Court House Street, Calcutta.	22,000 6,600 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
28	Tanjore ..	The Municipal Electrical Engineer, The Tanjore Municipality, Tanjore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
29	Tirunelveli-Tuticorin ..	The Tirunelveli Tuticorin Electric Supply Co. Ltd., M/A. M/S. Octavious Steel & Co. Ltd., 14, Old Court House Street, Calcutta.	22,000 6,000 3,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
30	Tiruchirapalli ..	The South Madras Electric Supply Corporation Ltd., M/A. M/S. Seshasayee Brothers Ltd., Tiruchirapalli.	22,000 11,000 3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C. phases, frequency etc.
1	2	3	4	5
MADRAS—contd.				
31	Tirupur ..	The Superintending Engineer, Pykara Electricity System, Coimbatore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
32	Udipi & Karkala ..	The Superintending Engineer, Pykara Electricity System, Coimbatore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
33	Udamalpet ..	The Superintending Engineer, Pykara Electricity System, Coimbatore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
34	Vellore ..	The Vellore Electric Corporation Ltd., M/A. M/S. Chandrie & Co. (Private) Ltd., National Insurance Buildings, Esplanade, Madras.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
35	Wellington ..	The Superintending Engineer, Pykara Electricity System, Coimbatore.	380 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
MYSORE				
1	Mysore ..	The Chief Electrical Engineer, Electrical Department Government of Mysore, Bangalore.	110,000 66,000 33,000 13,200 11,000 4,600 2,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 25 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 25 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.
ORISSA				
1	Aska ..	The Electrical Sub-divisional Officer, Power House, Aska (Distt. Ganjam).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
2	Athagarh ..	The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital Bhubaneswar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
3	Angul ..	The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneswar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
4	Balakati ..	The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneswar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
5	Bhadrak ..	The Executive Engineer, Balasore Electrical Division, Balasore (Bhadrak Power House).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Balikuda ..	The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneswar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Bahugram ..	The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneswar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
8	Badbag ..	The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneswar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C. phases, frequency etc.
1	2	3	4	5
ORISSA— <i>contd.</i>				
9	Balasore ..	The Resident Engineer, The Balasore Electric Supply Co. Ltd., Balasore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	Bargarh ..	The Resident Engineer, The Bargarh Electric Supply Co. Ltd., Bargarh.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
11	Baripada ..	The Sub-Divisional Officer (Electrical), Baripada.	440 220	D.C. 3 Wire. D.C. 2 Wire.
12	Berhampore & Chatarpur	The Berhampur Electric Supply Corporation Ltd., Berhampore, Distt. Ganjam.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
13	Bhawanipatna ..	The Electrical Section Officer, Bhawanipatna, Distt Bolangir, Patna.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
14	Bhubaneswar Old Town	The Executive Engineer, Hirakud Utilization Division No. 1, New Capital, Bhubaneswar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
15	Bhubaneswar New Town	The Executive Engineer, Hirakud Utilization Division No. 1, New Capital, Bhubaneswar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
16	Chandanpur ..	The Executive Engineer, Hirakud Utilization Division No. 1, New Capital Bhubaneswar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
17	Chatarpur ..	The Sub-Divisional Officer, Chatarpur Thermal Sub-Division, Chatarpur.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
18	Chowdhwar ..	The Executive Engineer (Electrical) Cuttack Thermal Division, Cuttack.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
19	Cuttack ..	The Cuttack Electric Supply Co. Ltd., M/A. M/S. Octavious Steel & Co. Ltd., Post Box No. 55, 14, Old Court House Streets, Calcutta.	400 230 400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
20	Deogarh ..	The Electrical Section Officer, Deogarh (Bamra).	220	D.C. 2 Wire.
21	Dhenkanal ..	The Executive Engineer, Hirakud Utilization Division No. 1, New Capital, Bhubaneswar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
22	Hirakud ..	The Executive Engineer, Hirakud Utilization Division No. 1, New Capital, Bhubaneswar.	11,000	3 ph. A.C. 50 cy.
23	Jagatsinghpur ..	The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneswar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
24	Jagatpur ..	The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneswar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
25	Jeypore ..	The Sub-Divisional Officer (Electrical), Dudma Transmission Division, Jeypore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
26	Jharsuguda ..	The Resident Engineer, Jharsuguda Electric Supply Co. Ltd., Jharsuguda.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C. phases, frequency etc.
1	2	3	4	5
ORISSA—concl.				
27	Kendupatna ..	The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneswar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
28	Kendrapara ..	The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneswar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
29	Keonjhar ..	The Electrical Section Officer, Keonjhar.	440 220	D.C. 3 Wire. D. C. 2 Wire.
30	Khurda Jatni ..	The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneswar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
31	Nayagarh ..	The Electrical Section Officer, Nayagarh.	220	D.C. 2 Wire.
32	Phulnakhara ..	The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneswar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
33	Patna Bolangir ..	The Electrical Section Officer, Patna Bolangir.	220	D.C. 2 Wire.
34	Pipli ..	The Executive Engineer, Hirakud Utilization Division No. 1 New Capital, Bhubaneswar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
35	Puri ..	The Puri Electric Supply Co. Ltd., M/A., Messers. B. Das & Co., Puri.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
36	Parlakimedi ..	The Resident Engineer, The Parlakimedi Electric Supply Corporation, Parlakimedi.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
37	Rajgangpur ..	The Electrical Section Officer, Rajgangpur.	440 250	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
38	Rourekella ..	The Electrical Section Officer, Rourekella.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
39	Sakhigopal ..	The Executive Engineer, Hirakud Utilization Division No. 1, New Capital, Bhubaneswar.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
40	Salepur ..	The Executive Engineer, Hirakud Utilization Division No. 1, New Capital Bhubaneswar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
41	Sambalpur ..	The Sambalpur Electric Supply Co. Ltd., Sambalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
42	Sonepur ..	The Electrical Section Officer, Sonepur.	110	D.C. 2 Wire.
43	Sundergarh ..	The Electrical Section Officer, Sundergarh.	440 220	D.C. 3 Wire. D.C. 2 Wire.
44	Talcher ..	The Executive Engineer, Hirakud Utilization Division No. 1, New Capital, Bhubaneswar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C. phases, frequency etc.
1	2	3	4	5
P.E.P.S.U.				
1	Bhatinda ..	The Modi Electric Supply Co. Ltd., Bhatinda ..	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
2	Faridkot ..	The Executive Engineer, Electrical and Mechanical, Kapurthala Division, Nabha.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
3	Kandaghat ..	The Executive Engineer, Power Division, Patiala.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
4	Kapurthala & Hamira ..	The Executive Engineer, Electrical and Mechanical, Kapurthala Division, Nabha.	400 230 440 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
5	Kasauli ..	The Kasauli Electric Supply Co. Ltd., Eve Lynn, Kasauli (Simla Hills).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Malerkotla ..	The Malerkotla Power Supply Co., C/O Messrs. Bhagwan Dass & Sons, Malerkotla.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Mandiphul ..	The Mandiphul Electric Supply Co. Ltd., Mandiphul.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
8	Nabha ..	The Executive Engineer, Electrical and Mechanical, Kapurthala Division, Nabha.	400 230 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 2 Wire.
9	Patiala ..	The Executive Engineer, Power Division, Patiala ..	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	Phagwara ..	The Executive Engineer, Electrical & Mechanical, Kapurthala Division, Nabha.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
11	Rajpura Town ..	The Administrator, PEPSU Development Board, Rajpura.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
12	Sangrur ..	The Executive Engineer, Electrical and Mechanical, Kapurthala Division, Nabha.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
13	Sultanpur ..	The Executive Engineer, Electrical and Mechanical, Kapurthala Division, Nabha.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
PUNJAB				
1	Ambala Cantonment ..	The Ambala Cantonment Electric Supply Corporation Ltd., M/A., Messrs. L. Kidar Nath Ltd., Ambala Cantt.	440 220	D.C. 3 Wire. D.C. 2 Wire.
2	Ambala City ..	The Ambala Electric Supply Co. Ltd., Ambala City.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
3	Amritsar ..	The Chief Electrical Engineer, Amritsar Municipal Committee, Amritsar.	400 230 440 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
PUNJAB—contd.				
4	Bhiwani ..	The Office Manager, South Punjab Electricity Corporation (Private) Ltd. (Bhiwani Branch), Hissar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
5	Dalhousie ..	The Jullundur Electric Supply Co. Ltd. (Dalhousie Branch), Dalhousie.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Faridabad New Town	The Executive Engineer, Electrical and Mechanical Division, Faridabad.	11,000 6,600 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Hansi ..	The Office Manager, South Punjab Electricity Corporation (Private) Ltd. (Hansi Branch), Hissar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
8	Hissar ..	The Office Manager, South Punjab Electricity Corporation (Private) Ltd. (Hissar Branch), Hissar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
9	Jagadhri ..	The Jagadhri Electric Supply and Industrial Co. (Private) Ltd., Jagadhri.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	Kaithal ..	The Kaithal Electric Supply Co. Ltd., Kaithal.	300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
11	Loharu ..	The Loharu Electric and Water Supply Co. Ltd., P.O. Loharu (Distt. Hissar).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
12	Nangal Hydrel Scheme	The Chief Engineer, Punjab P. W. D. Electricity Branch, Chandigarh.	132,000 33,000 11,000 3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
13	Nilokheri ..	The Officer-in-charge, Power House Department, Nilokheri.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
14	Rewari ..	The Rewari Electric Supply & General Industries Ltd., Messrs. The Goleasons Ltd., Rewari.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
15	Rohtak ..	The Office Manager, The South Punjab Electricity Corporation (Private) Ltd., (Rohtak Branch), Hissar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
16	Simla ..	The Chief Electrical Engineer, The Municipal Electricity Department, Simla-1.	2,200 380 220	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
17	Sirsa ..	The Sirsa Electric Supply Co., C/O Lal Chand Minda, Sirsa.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
18	Uhl River Scheme ..	The Chief Engineer, Punjab P. W. D. Electricity Branch, Chandigarh.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C. phases, frequency etc.
1	2	3	4	5
RAJASTHAN				
1	Alwar ..	The Superintendent, Electrical & Mechanical Department, Alwar.	400 230 440 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
2	Banswara ..	The Banswara Electric Supply, Prop. Haji Mulla Rasoolbhai Mulla Abdul Hussain & Bros., Banswara.	460 230	D.C. 3 Wire. D.C. 2 Wire.
3	Barmer ..	The Chairman, Municipal Board Power House, Barmer.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
4	Bharatpur ..	The Superintendent, Electrical and Mechanical Department, Bharatpur.	460 230	D.C. 3 Wire. D.C. 2 Wire.
5	Bhawanimandi ..	The Bhawanimandi Electric Supply & Development Co. Ltd., M/S. Loonkaram Madan Mohan, Bankers and Merchants, Jivan Kuti, Ujjain.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Bhilwara ..	The Superintendent, Electrical and Mechanical Department, Bhilwara.	230	1 ph. A.C. 50 cy.
7	Bikaner ..	The Executive Engineer, Electrical and Mechanical Department, Bikaner.	6,600 2,200 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
8	Bundi ..	The Bundi Electric Supply Co. Ltd., M/A., The Rajputana Electric Works, Bundi.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
9	Deeg ..	The Superintendent, Electrical and Mechanical Department (Deeg Power House), Bharatpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	Dholpur ..	The Superintendent, Electrical and Mechanical Department, Dholpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
11	Dungarpur ..	The Superintendent, Electrical and Mechanical Department, Dungarpur.	460 230	D.C. 3 Wire. D.C. 2 Wire.
12	Ganganagar ..	The Superintendent, Electrical and Mechanical Department, Sri Ganganagar.	6,000 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.
13	Hanumangarh ..	The Executive Engineer, Municipal Board Power House, Hanumangarh.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
14	Hindaun ..	The Superintendent, Electrical and Mechanical Department, Hindaun.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
15	Jaipur ..	The Executive Engineer, Electrical and Mechanical Department, Jaipur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
16	Jaisalmer ..	The Superintendent, Electrical and Mechanical Department, Jaisalmer.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
17	Jhalawar ..	The Superintendent, Electrical and Mechanical Department, Jhalawar.	400 230 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 2 Wire.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
RAJASTHAN—contd.				
18	Jodhpur ..	The Executive Engineer, Electrical and Mechanical Department, Jodhpur.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
19	Karauli ..	The Superintendent, Electrical and Mechanical Department, Karauli.	440 220	D.C. 3 Wire. D.C. 2 Wire.
20	Kishangarh ..	The Superintendent, Electrical and Mechanical Department, Kishangarh.	230 230 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 2 Wire.
21	Kotah ..	The Superintendent, Electrical and Mechanical Department, Kotah.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
22	Kuchaman ..	The Engineer-in-charge, Kuchaman Power House, Kuchaman City.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
23	Ladnun ..	The Ladnun Electric Supply Co. Ltd., Ladnun.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
24	Merta City ..	The Chairman, Municipal Board, Power House, Merta City.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
25	Nawalgarh ..	The Electrical and Mechanical Engineer, The Nawalgarh Electric Supply Co. Ltd., Nawalgarh.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
26	Newai ..	The Superintendent, Electrical and Mechanical Department, Newai Town.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
27	Pali ..	The Pali Electricity Co. Ltd., M/S. Marwar Industries (Private) Ltd., Kuchaman House, Jodhpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
28	Partabgarh ..	The Manager, Partabgarh Electric Power House, Partabgarh.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
29	Phalodi ..	The Superintendent, Electrical and Mechanical Department, Phalodi.	400 230	3 ph. A.C. 50 y. 1 ph. A.C. 50 cy.
30	Pilani ..	The Manager, Pilani Industrial Corporation Ltd., Pilani.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
31	Rajgarh (Alwar) ..	The Rajgarh Electric Supply Co., Prop. The Bharat Electrical and Industrial Corporation Ltd., Rajgarh (Alwar).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
32	Sambhar Lake ..	The Sambhar Lake Electric Supply Co. (Private) Ltd., Sambhar Lake.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
33	Segwara ..	The Superintendent, Electrical and Mechanical Department (Segwara Power House), Dungarpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
34	Shahpura ..	The Superintendent, Electrical and Mechanical Department, Shahpura.	230	D.C. 2 Wire.
35	Sikar ..	The Superintendent, Electrical and Mechanical Department, Sikar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
36	Sirohi ..	The Abu Road Electric Supply Co. Ltd., Lakshman Power House, Sirohi.	440 250	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
RAJASTHAN—concl'd.				
37	Suratgarh ..	The Chairman, Municipal Board Power House, Suratgarh.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
38	Tonk ..	The Superintendent, Electrical and Mechanical Department, Tonk.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
39	Udaipur ..	The Chief Engineer and Manager, The Maharana Bhopal Electric Supply, Udaipur.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
SAURASHTRA				
1	Amarnagar ..	The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	460 230	D.C. 3 Wire. D.C. 2 Wire.
2	Bajana ..	Shree Babu Lal Vilji, Proprietor, Bajana Power House, Via Patri.	230	D.C. 2 Wire.
3	Bhavnagar ..	The Bhavnagar Electricity Co., Ltd., Power House, Bhavnagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
4	Bhilkha ..	Messrs. Unity Power House, Bhilkha.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
5	Botad ..	The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Dharangadhra ..	The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	460 230	D.C. 3 Wire. D.C. 2 Wire.
7	Dhoraji ..	The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	440 250	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
8	Dhrol ..	The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	240	D.C. 2 Wire.
9	Gadhada ..	The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	Gondal ..	The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
11	Jamnagar ..	The Resident Engineer, Saurashtra Electricity Board, Jamnagar Power House, Jamnagar.	460 230	D.C. 3 Wire. D.C. 2 Wire.
12	Jasdan ..	The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	460 230	D.C. 3 Wire. D.C. 2 Wire.
13	Jetpur ..	The Jetpur Electric Supply Co. Ltd., Jetpur.	460 230	D.C. 3 Wire. D.C. 2 Wire.
14	Junagadh ..	The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
15	Kotda Sangni ..	The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	440 220	D.C. 3 Wire. D.C. 2 Wire.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
SAURASHTRA—contd.				
16	Lakhtar	.. The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	230	D.C. 2 Wire.
17	Lathi	.. The Lathi Electric Power Supply Co. Ltd., Lathi.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
18	Limbdi	.. The Electrical Engineer, The Limbdi Electric Supply Co., Limbdi.	460 230	D.C. 3 Wire. D.C. 2 Wire.
19	Manavadar	.. The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
20	Mangrol	.. The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	440 250 460 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
21	Morvi	.. The Morvi Electricity Works Ltd., M/A. Messrs. P.B. Ganpule & Co., Morvi.	440 250	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
22	Muli	.. The President, Muli Municipality, Muli.	230	D.C. 2 Wire.
23	Palitana	.. The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	480 240	D.C. 3 Wire. D.C. 2 Wire.
24	Porbander	.. The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
25	Rajkot	.. The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	400 230 460 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
26	Savarkundla	.. The Savarkundla Electricity Supply Co. Ltd., M/A. Shah Electrical Agencies, Savarkundla.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
27	Shahpur	.. The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	6,600	3 ph. A.C. 50 cy.
28	Sayla	.. The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	230	D.C. 2 Wire.
29	Seeka	.. The Resident Engineer Central Thermal Power Station, Saurashtra Electricity Board, Seeka.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
30	Sihor	.. The Sihor Electric Works Ltd., Sihor.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
31	Upleta	.. The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
32	Vadia	.. The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	260 230	D.C. 3 Wire. D.C. 2 Wire.
33	Valbhipur	.. Shri Valbhipur Gramvikas Electric Power House, Vividh Karyakari Sahkari Society Ltd., Valbhipur (Via Dhola junction).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phase frequency etc.
1	2	3	4	5
SAURASHTRA—contd.				
34	Veraval ..	The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
35	Virapur ..	The Chief Electrical Engineer, Saurashtra Electricity Board, Rajkot.	230	D.C. 2 Wire.
36	Wadhwan ..	The Resident Engineer, The Jhalawar Electric Power Supply Co. Ltd., Sundernagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
37	Wankaner ..	The Wankaner Electric Supply Co. Ltd., Wankaner.	460 230	D.C. 3 Wire. D.C. 2 Wire.
TRAVANCORE-COCHIN				
1	Ernakulam ..	The Cochin State Power and Light Corporation Ltd., Ernakulam.	6,600 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
2	Kottayam ..	The Kottayam Electric Supply Agency, C/O A. Narayan Moos, Kottayam.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
3	Kasaragod ..	The Kanara Ceramics Ltd., P.B. No. 5, Kasaragod.	440 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
4	Kannan Devan ..	The Kannan Dewan Hills Produce Company Ltd., P.O. Munnar.		
5	Mattencherry ..	The Resident Engineer, The Cochin Electric Co. (Private) Ltd., Mattencherry, Cochin 2.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Port of Cochin ..	The Assistant Electrical Engineer, Port Cochin, P.O. Willingdon Island, Cochin.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Shencottah ..	The Shencottah Electric Supply Agency, Shencottah.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
8	Travancore-Cochin Union	The Chief Engineer (Electricity), Government of Travancore and Cochin, Trivandrum.	66,000 33,000 11,000 6,600 400 230	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.
9	Trichur ..	The Commissioner, Trichur Municipality, Trichur.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
UTTAR PRADESH				
1	Agra ..	The Agra Electric Supply Co. Ltd., M/A. Messrs. Martin Burn Ltd., 12, Mission Row, Calcutta-1.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
2	Allahabad ..	The United Provinces Electric Supply Co., Ltd., (Allahabad Branch), Messrs. Martin Burn Ltd., 12, Mission Row, Calcutta-1.	3,300 400 230 440 220	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
UTTAR PRADESH— <i>contd.</i>				
3	Aligarh ..	The Aligarh Electric Supply Co. Ltd., M/A. Messrs. Jain and Co. Ltd., Udaisingh 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.
4	Almora ..	The Administrator, The Electrical and Water Works Engineer, Municipal Board, Almora.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
5	Azamgarh ..	The Sub-divisional Officer, Hydrel Sub-division, Azamgarh.	440 220	D.C. 3 Wire. D.C. 2 Wire.
6	Bahraich ..	The Balrampur Raj Electric Supply Department, Balrampur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Balrampur ..	The Balrampur Raj Electric Supply Department, Balrampur.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
8	Banaras ..	Banaras Electric Light and Power Co. Ltd., M/A. Messrs. Martin Burn Ltd., 12, Mission Row, 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	Banda ..	The Banda Electric Supply Co. Ltd., M/A. Messrs. Shah and Co., 5, Bhagwandas Road, New Delhi.	440 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	Bara Banki ..	The Bara Banki Electric Supply Co. Ltd., M/A. The Progressive Industries, Bara Banki.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
11	Bareilly ..	Bareilly Electricity Co. Ltd., M/A. Messrs. Martin Burn Ltd., 12, Mission Row, Calcutta-1.	3,300 400 230 440 220	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
12	Bijnor-Moradabad ..	The Upper Ganges Valley Electricity Supply Co. Ltd., M/A. Messrs. Martin Burn Ltd., 12, Mission Row, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
13	Budaun ..	The Kishore Electric Supply Corporation, C/O Messrs. Kishore Chand Shivcharan Lal, Budaun.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
14	Charkhari ..	The Administrator, Ranipur Temple, Charkhari (District Hamirpur).	440 220	D.C. 3 Wire. D.C. 2 Wire.
15	Ghopan ..	The Sub-divisional Officer III, Rihand Generating Sub-division, (Chopan), Mirzapur.	440 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
16	Etah ..	Messrs. Seth Ramgopal and Partners, Electricity Supplies, Etah.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
17	Etawah ..	The Western U.P. Electric Power and Supply Co. Ltd., M/A. Messrs. Alopi Prashad and Sons, Ltd., Kashmere Gate, Delhi.	2,200 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. AC. 50 cy.
18	Farrukhabad ..	The Farrukhabad Electric Supply Co. Ltd., Fatehgarh.	3,300 380 220	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
19	Faizabad ..	The Faizabad Electric Licensee (1933), C/O British Insulated Calendar Cables Ltd., 116, Station Road, Faizabad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
UTTAR PRADESH—contd.				
20	Ghazipur ..	The Eastern United Provinces Electric Supply Co., Managing Agents Messrs. Seth Bros., Kothishiva Sahay, Ghazipur.	440 220	D.C. 3 Wire. D.C. 2 Wire.
21	Gonda ..	The Balrampur Raj Electric Supply Department, Balrampur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
22	Gorakhpur ..	Jhansi Electric Supply Co. Ltd., (Gorakhpur Branch), M/A. Messrs. Moona Lal & Sons, Jhansi.	440 220	D.C. 3 Wire. D.C. 2 Wire.
23	Gorakhpur ..	The Executive Engineer, Hydro Electric Division, Gorakhpur.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
24	Haldwani ..	The Electrical and Mechanical Engineer, Municipal Board, Haldwani.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
25	Hardoi ..	The Lakshmi Electric Supply Co., Prop. The Lakshmi Sugar and Oil Mills Ltd., M/A. Messrs. Bansidhar Sons and Co., Hardoi.	440 220	D.C. 3 Wire. D.C. 2 Wire.
26	Hardwar ..	The Electrical and Mechanical Engineer, Municipal Boards, Hardwar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
27	Hathras ..	The Lower Ganges Jamuna Electricity Distributing Co. Ltd., (In Liquidation), Shivbhavan Maris Road, Aligarh, (Hathras).	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
28	Hydel ..	The Chief Engineer, U.P.P.W.D., Electricity Branch, Lucknow.	11,000 6,000 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. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
29	Jaunpur ..	The Jaunpur Electric License (1934), C/O British Insulated Calendar Cables Ltd., 116, Station Road, Faizabad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
30	Jhansi ..	The Jhansi Electric Supply Co. Ltd., M/A. Moona Lal & Sons, Jhansi.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
31	Kanpur ..	Kanpur Electricity Supply Administration, "Kesa House", Post Box No. 141, Kanpur.	6,600 400 230 450 225	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
32	Kasganj ..	The Resident Engineer, Municipal Electric Supply, Kasganj.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
33	Khurja ..	The Resident Engineer, Municipal Electric Supply, Municipal Board, Khurja.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
UTTAR PRADESH—contd.				
34	Kosi Kalan ..	The Kosi Electric Supply Co., Kosi Kalan, District Mathura.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
35	Lucknow ..	The United Provinces Electric Supply Co. Ltd., (Lucknow Branch), M/A. Messrs. Martin Burn Ltd., 12, Mission Row, Calcutta-1.	3,300 400 230 440 220	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
36	Mathura ..	The Resident Engineer, The Mathura Electric Supply Co. Ltd., Mathura.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
37	Meerut ..	The Resident Engineer, Meerut Municipal Electricity Supply, Krishna Cottage, Meerut.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
38	Mirzapur ..	The Mirzapur Electric Supply Co. Ltd., M/A. Messrs. Octavious Steel and Co. Ltd., 14, Old Court House, Street, Calcutta-1.	3,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
39	Muzaffarnagar ..	The Electrical Engineer, Municipal Board, Muzaffarnagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
40	Mussoorie ..	The Electrical and Mechanical Engineer, Mussoorie Dehra Hydro Electric Undertakings, City Board, Mussoorie.	380 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
41	Nainital ..	The Electrical and Mechanical Engineer, Municipal Board, Nainital.	380 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
42	Nanpara ..	The Electrical Engineer, Nanpara Electric Supply, Nanpara.	220	D.C. 2 Wire.
43	Padrauna ..	Padrauna Electric Supply Undertaking, C/O. The Padrauna Raj Krishna Sugar Works Ltd., Padrauna, District Gorakhpur.	440 220	D.C. 3 Wire. D.C. 2 Wire.
44	Pipri ..	The Sub-divisional Officer, 1st Rihand Hydro Electric Sub-division, Pipri.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
45	Pilibhit ..	Pilibhit Electric Supply Co., M/A. Champion Electrical Engineer Works, Pilibhit.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
46	Rampur ..	The Resident Engineer, New Power Station, Rampur.	6,600 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
47	Rishikesh ..	The Electrical Engineer, Municipal Board, Rishikesh.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
48	Roorkee ..	The Executive Engineer, Municipal Board, Roorkee.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
49	Robertsganj ..	The Sub-divisional Officer II, Rihand Hydro Electric Sub-Division, Robertsganj.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
50	Sadabad ..	The Sadabad Electric Supply Co., C/O. Messrs. M.N. Bhargava and Bros., Sadabad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
UTTAR PRADESH—concl.				
51	Saharanpur ..	The Saharanpur Electric Supply Co. Ltd., Ramnagar, (Pathanpura Street), 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.
52	Shahjahanpur ..	The Shahjahanpur Electric Supply Co. Ltd., M/A. Messrs. Octavious Steel and Co. Ltd., 14, Old Court House Street, Calcutta-1.	3,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
53	Sitapur ..	The Executive Engineer, Hydro Electric and Commercial-cum-Distribution Division, Electricity Department, Lucknow.	440 220	D.C. 3 Wire. D.C. 2 Wire.
54	Sohwal ..	The Resident Engineer, Government Steam Power Station, Sohwal, P.O. Rounahi, Distt. Faizabad.	6,600 400 230 460 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
55	Sultanpur ..	The Executive Engineer, Hydro Electric Commercial-cum-Distribution Division, Sultanpur.		
56	Unnao ..	The Electrical and Water-Works Engineer, Municipal Board, Unnao.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
57	Upper Jumna Valley ..	The Upper Jumna Valley Electric Supply Co. Ltd., M/A. Messrs. Martin Burn Ltd., 12, Mission Row, Calcutta-1.	400 230 440 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
58	Vrindaban ..	The General Engineering Co., Electricity Suppliers, Vrindaban.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
WEST BENGAL				
1	Arambag ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
2	Arbelia ..	The Divisional Engineer, (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
3	Asansol ..	The Asansol Electric Supply Co. Ltd., M/S. Bengal Turst Ltd., Grand Trunk Road, Asansol.	400 230	3 ph. A. C. 50 cy. 1 ph. A. C. 50 cy.
4	Azimganj ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta. 1.	400 230	3 ph. A. C. 50 cy. 1 ph. A. C. 50 cy.
5	Andul Mouri ..	The National Power Supply, Corporation Ltd., M/A. M/S. K. K. Sen & Sons, 90, Syama Prasad Mookerji Road, Calcutta-26.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Alipur Duar ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C., phases, frequency etc.
1	2	3	4	5
WEST BENGAL— <i>contd.</i>				
7	Ahmedpur ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
8	Badkulla ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
9	Bankura ..	The Bankura Electric Supply, M/S. B.N. Elias & Co. Ltd., Norton Buildings, 1 & 2 Old Court House Corner, Calcutta-1.	3,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	Bansberia ..	The Electrical Engineer, Bansberia Electric Supply, The East India Electric Supply & Traction Co. Ltd. M/S. Narsingahaya Mudangopal, Moghultooly, Chinsura.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
11	Barakar ..	The Barakar Electric Supply Co., Prop. Bahu Hazi Ram Agarwalla, Barakar (Distt. Burdwan).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
12	Barasat ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor) 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
13	Barrackpore ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230 440 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wires.
14	Baruipur ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
15	Beldanga ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
16	Berhampur ..	The Berhampur Electric Supply Co., Ltd., M/A. M/S. S.C. Nag & Co., Berhampur.	440 220	D.C. 3 Wire. D.C. 2 Wire.
17	Bhatpara ..	The Riverside (Bhatpara) Electric Supply Co., (Private) Ltd., M/S. Development Industries India, (Private) Ltd., 135, Prinsep Street, Calcutta-13.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
18	Birnagar ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
19	Bongaon ..	The Bongaon Electric Supply Co. Ltd., M/A. R. N. Chatterjee & Co., 135, Canning Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
20	Burdwan ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	2,200 400 230 2,200 400 230	3 ph. A.C. 60 cy. 3 ph. A.C. 60 cy. 1 ph. A.C. 60 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases, frequency, etc.
1	2	3	4	5
WEST BENGAL— <i>contd.</i>				
21	Bethwadahari ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
22	Bhagwangola ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
23	Basirhat ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
24	Balurghat ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
25	Baduria ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
26	Barachampa ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
27	Beliatore ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
28	Boinchee ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
29	Calcutta ..	The Calcutta Electric Supply Corporation Ltd., Victoria House, Chowringhee Square, Calcutta-1.	33,000 20,000 6,600 3,300 400 230 450 225	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
30	Chakdah ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
31	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.
32	Cooch-Bihar ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230 440 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
33	Chord Road Sub-station	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
34	Canning ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases, frequency, etc.
1	2	3	4	5
WEST BENGAL—contd.				
35	Contai ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
36	Dainhat ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
37	Darjeeling ..	The Electrical Engineer, Darjeeling Municipality, Darjeeling.	6,600 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
38	Digha ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
39	Dinhata ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
40	Dishergarh ..	The Dishergarh Power Supply Co., Ltd., M/A. M/S. Andrew Yule & Co. Ltd., 8, Clive Row, Calcutta.	10,000 3,300 525	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. AC. 50 cy.
41	Devagram ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
42	Dewanhat ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
43	Durgapur ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
44	Domjur ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
45	Dasnagar ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
46	Dubrajpur ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
47	Dhulian ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
48	Duttapukur ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
49	Fulia ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases, frequency, etc.
1	2	3	4	5
WEST BENGAL—contd.				
50	Garia ..	The Divisional Engineer (Commercial), West Bengal, State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
51	Gourepore ..	The Gourepore Electric Supply Co. Ltd., M/A. M/S. Macneil & Barry Ltd., 2, Fairlie Palace, Calcutta-1.	6,000 550	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy.
52	Galsi ...	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
53	Gangarampur ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
54	Gayeshpur ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
55	Guskara ..	The Divisional Engineer (Commercial) West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
56	Gobardanga ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
57	Habra ..	The Divisional Engineer (Commercial) West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
58	Harishchandrapur ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
59	Hooghly-Chinsura ..	The Electrical Engineer, The East India Electric Supply & Traction Co. Ltd., (Hooghly Chinsura Branch), M/S. Narsingsahaya Mudangopal, Moghultooly, Chinsura.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
60	Hasnabad ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
61	Hili ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
62	Itachuna-Khanyan ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
63	Jalpaiguri ..	Te Jalpaiguri Electric Supply Co. Ltd., M/A. M/S. Indo Swiss Trading Co. Ltd., Kent House, P-33, Mission Row Extension, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
64	Jamuria ..	The Jamuria Electric Supply Co. Ltd., M/A. The Bengal Trust Co., G.T. Road, Asansol.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases, frequency, etc.
1	2	3	4	5
WEST BENGAL—contd.				
65	Jiaganj ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
66	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.
67	Jangipur ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
68	Jhargram ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings; (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
69	Kalimpong ..	The Kalimpong Electric Supply Co. Ltd., P-34, Mission Row Extension, Calcutta-13.	3,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
70	Kalna ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
71	Kalyani ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. C.A. 50 cy. 1 ph. A.C. 50 cy.
72	Katwa ..	The Divisional Engineer (Commercial) West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
73	Krishnagar ..	Krishnagar Electric Supply, C/O. 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.
74	Kurseong ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
75	Karimpur ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
76	Kaliganj ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
77	Kholapota ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
78	Kolaghat ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
79	Lalbagh ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases, frequency, etc.
1	2	3	4	5
WEST BENGAL—contd.				
80	Lalgaia ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
81	Malda ..	The Malda Electric Supply, C/O. M/S. Behani & Co., Malda.	460 230	D.C. 3 Wire. D.C. 2 Wire.
82	Midnapore ..	The Midnapore Electric Supply, M/S. B. N. Elias & Co. Ltd., Norton Buildings, 1 & 2 Old Courts House Corner, Calcutta.	3,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
83	Matiari ..	The Divisional Engineer, (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
84	Mayurkashi ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
85	Memari ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
86	Makardah ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	1 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
87	Mollarpur ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
88	Mogra ..	The Divisional Engineer (Commercial) West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
89	Madhyamgram ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
90	Nabadwip ..	The Nabadwip Electric Supply, 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.
91	Naihati ..	The Naihati Electric Supply Co. Ltd., M/S. Sayal & Co., 309, Bow Bazar Street, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
92	Nalhati ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
93	Old Malda ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
94	Pandaveshwar ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases, frequency etc.
1	2	3	4	5
WEST BENGAL— <i>contd.</i>				
95	Plassoy ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
96	Patrasayer ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
97	Pandua ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
98	Rajpur-Sonarpur ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
99	Ranaghat ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
100	Raneeganj ..	The Raneeganj Electric Supply Co. Ltd., Western Block 1st Floor, M/S. Trivedi & Bajpai, 40/1, Harrison Road, Calcutta-9.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
101	Rasulpur ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
102	Rampurhat ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
103	Santipur ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
104	Santiniketan ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy.
105	Seebpore ..	The Associated Power Co. Ltd., Seebpore Power Station, M/A. M/S. Andrew Yule & Co. Ltd., 3, Clive Row, Calcutta.	10,000 3,300 525	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy.
106	Siliguri ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
107	Sodepur ..	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1, Hastings Street, Calcutta-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial No.	Name of undertaking	Address of undertaking	System of Supply	
			Voltage	A.C. or D.C. Phases, frequency, etc.
1	2	3	4	5
WEST BENGAL—contd.				
108	Suri	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th floor), 1, Hastings Street, Calcutta—1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
109	Sainthia	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th floor), 1, Hastings Street, Calcutta—1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
110	Singur	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th floor), 1, Hastings Street, Calcutta—1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
111	Saktigarh	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th floor), 1, Hastings Street, Calcutta—1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
112	Santragachi	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th floor), 1, Hastings Street, Calcutta—1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 40 cy.
113	Sonamukhi	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th floor), 1, Hastings Street, Calcutta—1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
114	Tamralipta	The Tamralipta Co-operative Electric Supply Society Ltd., P.O. Tamruk, District Midnapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
115	Tollyganj	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th floor), 1, Hastings Street, Calcutta—1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
116	Taki	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th floor), 1, Hastings Street, Calcutta—1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
117	Tufanganj	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th floor), 1, Hastings Street, Calcutta—1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
118	Uluberia	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th floor), 1, Hastings Street, Calcutta—1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
119	Vishnupur	The Vishnupur Electric Supply & Industrial Development Co. Ltd., 90, Symaprasad Mookerjee Road, Calcutta—26.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
120	Vetaguri	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th floor), 1, Hastings Street, Calcutta—1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.