

CENTRAL WATER AND POWER COMMISSION

(POWER WING)

SIMLA

PUBLIC ELECTRICITY SUPPLY ALL INDIA STATISTICS, 1957-58

GENERAL REVIEW

DECEMBER 1958

GOVERNMENT OF INDIA * MINISTRY OF IRRIGATION AND POWER

FOREWORD

Salient features of the Public Electricity Supply in the Republic of India for the year 1957-58 are summarised in this review for and on behalf of the Central Electricity Authority. The presentation of the review in general follows the same pattern as in the previous year except that the basis of compilation has been changed from calendar year to the financial year ending 31st March and metric units have been adopted instead of British System of units. 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) SIMLA, THE 7TH FEBRUARY, 1959

S. S. KUMAR MEMBER

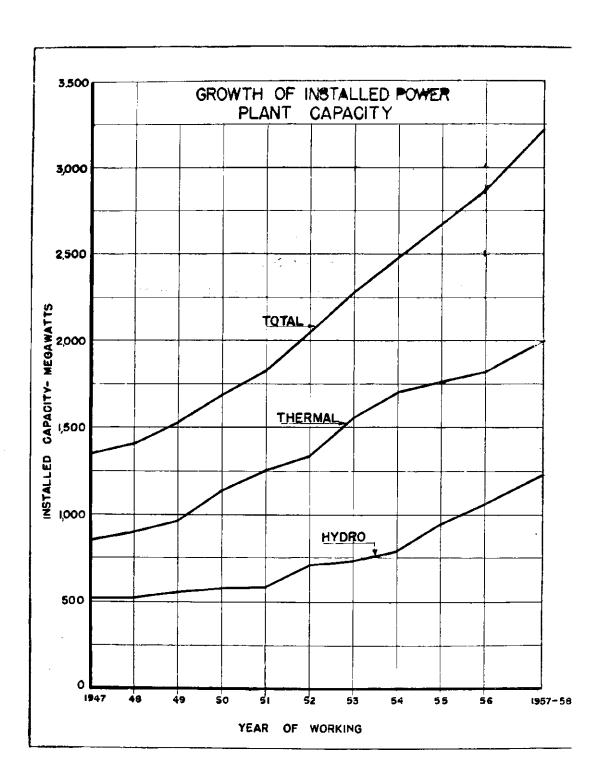
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4	I _.	5	Capital Expendituro-	t es	516.9
20 20 21 49	XTA - XA XA	10 10 - 7	Jammu & Kashmir- Total- 17 Total-	92 3,470 100 k u h 196 . 7	163 3,484 200 kWh 166.1
53	XTAI	11	Iron & Steel (rrimary)	81.5	51.5
7 0	LIII(a)	3	Sub Total (Generation assets)	100	110
75	LIII(c)	5	Total-	2,34	2,346

SECTION I PLANT DATA AND POWER GENERATION



PUBLIC ELECTRICITY SUPPLY ALL INDIA STATISTICS—1st APRIL 1957 TO 31st MARCH 1958.

GENERAL REVIEW

GENERAL POWER SUPPLY POSITION

During the year 1957/58, the total installed generating plant capacity in India rose to 3,223 Megawatts and the total generation increased to 11,369 million kWh. The installed plant capacity increased by 11·7 per cent and generation by 17·6 per cent over that in the previous year. The number of consumers increased by 13·5 per cent.

Table I gives the summary of the prominent features of power supply industry in India for a period of five years from 1953 to 1956 on the calendar year basis and for 1957/58 as on 31st March, 1958. The number of undertakings, their aggregate generating capacity, power production, fuel consumption, power sales, number of consumers, total connected load and the total number of electrified towns, and the capital expenditure of the entire power supply industry for the period are given in the table.

TABLE I—OUTSTANDING FEATURES OF THE ELECTRICITY SUPPLY INDUSTRY 1953—56 AND 1957/58

	Item				1953	1954	1955	1956	1957/58
AUTHORISED UND RATING STATION	ERTAKI S—	NGS WIT	H OWN	GENE-			<u> </u>		
State owned					209	220	239	272	30
Companies	. ••	••	••		218	214	199	, 179	16
			Total		427	434	438	451	46
AUTHORISED UND SUPPLY	ERTAKI	NGS REC	EIVING	BULK			<u>-</u>		-
State owned	••				121	142	125	203	15
Companies		••		••	99	106	114	122	13
			Total		220	248	239	325	
		Grand	Total		647	682	677	778	75
ENERATING CAPA	CITY (k	W)—		ĺ					
Steam plant	••		••		1,393,717	1,491,043	1,546,805	1,596,412	1,763,25
Oil plant	• •	••	••	[180,294	209,607	208,529	228,288	245,93
Hydro plant	••	••	••		731,179	793,346	939,483	1,061,441	1,213,91
			Total	••	2,805,190	2,493,996	2,694,817	2,886,141	8,228,111
UTaPUT (Million kV	Vh)—	•							
Steam plant	••	••	••		3,572 · 792	4,057 · 923	4,618 863	5,183 · 900	6,042 · 45
Oil plant	••	••	••		210 · 540	227 · 334	231 · 350	233 · 356	254 · 447
Hydro plant		••	••	•• }	2,918 · 855	8,236 520	3,742 · 238	4,294 877	5,072 · 24:
	-	,	Total		6,697 · 187	7,521 · 777	8,592·451	9.662 133	11,369 · 142

					1953	1954	1955	1956	1957/58
FUEL CONSUMPTIO	N (Metric	tons)							
Coal		••	••		3,107,426	3,369,964	3,739,552	4,067,848	4,593,761
Diesel oil	••	••	:•	••	71,209	75,724	76,750	76,261	82,02
MAXIMUM DEMAN	D (kW)	••	••		1,416,350	1,625,123	1,849,672	1,989,774	2,288,21
SALES (Million kWh)				ļ.				
Domestic light an		wer			690·516	759 · 169	850 426	934·122	4 004 50
Commercial light	and small	power	••	•• (399·107 -	446 · 156	514 423	545·851	1,094 - 56
Industrial power			••		3,613·186	4,075 · 983	4,697 789	5,323 · 424	611 · 515 6,229 · 259
Irrigation					214 · 138	231 · 373	254 · 803	316 · 180	565 81
Other purposes	••	••	••		680 · 136	739-820	793 · 570	839 · 768	928 · 94
		•	Total		5,597 · 083	6,252 · 501	7,111 · 011	7,959 · 345	9,430 097
CONSUMERS—									
Lighting and heati	ng				1,885,150	2,045,464	2,362,637	2,654,198	2,994,448
Industrial power (i	ncluding	traction	& water v	vorks)	78,505	83,306	99,317	108,756	125,41
Irrigation	••	••	••	.,	31,888	36,012	46,626	62,848	87,649
			Total		1,995,543	2,164,782	2,508,580	2,825,802	3,207,508
CONNECTED LOAD (k W) —	,			}				
Lighting and heati	ng				1,369,076	1,468,928	1,624,616	1,763,764	2,000,647
Industrial power (i	neluding 1	traction	& water v	vorks)	2,078,882	2,215,744	2,455,387	2,632,280	2,946,635
Irrigation	••			••	178,287	192,569	242,595	327,774	429,248
			Total	}	3,621,195	3,877,241	4,322,598	4,723,818	5,376,530
ELECTRIFIED TOW	IS AND V	'ILLAGE	es—		4,708	5,552	6,981	8,494	12,554
Capit	al Expend	litura (D	e Crorel		210.5	268 · 3	326 · 2		<u>-</u>

The total number of undertakings included in the review is 755 as compared to 776 during the previous year. The reduction in the number of undertakings is due to the merger of some of them into larger systems and thereby losing their individual existence. Out of these 755 undertakings 468 generated power and 287 were engaged only in retail distribution of bulk power purchased mostly from other public electric utility generating stations. A small amount of power was also purchased from the industry's power stations. There was also some inter-State sale of power between adjoining States.

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

TABLE II—AUTHORISED UNDERTAKINGS

	•						Number of 1	Undertakings	
		wnership					Generating	Distributing	Total
i) Public Sector—									
(a) Government		••			••		111	78	18
(b) Board	• •	••	••	••			172	56	22
(c) Power Corporation	U: P	uer	_	••	••	• •	2]	
(d) Municipality	••	••	0:0	••	••	••	22	23	4
					Total	••	307	157	46
ii) Private Sector —									<u> </u>
Companies	••	••	450	••	••		161	130	29
				Grand	Total		468	287	75

During the period 1st January 1957 to 31st March 1958, 97 undertakings commenced operation of which 87 were in the public sector and 10 in the private sector. The names of the undertakings which commenced power supply are given below:—

- (a) Andhra State
 - Government hydro power station at Tungabhadra and diesel power stations at Burgampad Cumbum, Markarpur, Palvancha, Suryapet, Nirmal & Tandur, and company owned diesel power station at Wanaparthy & distribution schemes in West Godavari District.
- (b) Assam State
 - Government hydro power station at Umtru and diesel power stations at Doomdooma, Diphu, Dibrugarh (Assam Medical College) Hojai, Hailakhandi, Jorhat (Assam Agricultural College) Kokrajhar, Sibsagar, Titabar and Tura.
- (c) Bihar State
 - Government diesel power stations at Bairgonia, Katihar & Saharsa.
 - Distribution schemes at Aurangabad (Gaya), Bihar Sharif Division, Domchanch, Jamshedpur, Jamtara, Nawadah Noamundi, Ranchi and Sheikhpura.
- (d) Bombay State
 - (i) Electricity Board's diesel power stations at Bagasara Chotila, Deoulgaon Regi, Halwad, Jamkhambalia, Jodiya, Jamjodhpur, Keshod, Mahuva, Nakhtarana, Parli-Vaijnath, Jalgaon, Una, Rajaula & Nakhihara and company owned diesel stations at Dhond and Dwarka and distribution schemes at Jalgaon, Tasgaon, Talegaon (Pimpri) and Thangadh.
 - (ii) Municipal distribution schemes at Bhadran.
 - (iii) Company distribution scheme at Kurundwad.
- (e) Jammu & Kashmir State
 - Government diesel power station at Ramnagar.
- (f) Madhya Pradesh
- Electricity Board's diesel power station at Amarkantak, Ashoknagar, Bareli, Begamganj, Bhilai, Champa, Harsud Khajraho, Korba, Maheshwar, Sanchi and Sidhi and Municipal owned diesel station at Sendhwa and company owned diesel station at Bhikangaon.
- (g) Madras State
- Electricity Board's distribution scheme at Vellore. M/B2CWPC(PW)—

(h) Mysore State

Electricity Board's distribution scheme at Anigiri and Company's distribution scheme at Bidar and Rabkavi.

(1) Orissa State

Government diesel stations at Anandpur, Kuldiha, Khariar Road, Jaleswar and Titlagarh. Distribution schemes at Borigumma, Koraput, Nowrangpur, Nuapatna and Sundergaon.

(j) Rajasthan State

Company's diesel power station at Nathdwara and Nagaur in Rajasthan.

(k) West Bengal State

- (i) Electricity Board's diesel power stations at Changrabandha, Raiganj, Ghatal and Mathabhanga. Distribution scheme at Churulia and Damagoria.
- (ii) Hydro Power Station at Maithon, belonging to Damodar Valley Corporation put into commercial operation from October, 1957.

ACQUISITION OF ELECTRICITY SUPPLY UNDERTAKINGS

Seventeen undertakings were acquired by the State Governments during the year. The names of those undertakings with their ownership prior to acquisition and the State Governments who acquired them are given below:

Name of Un	dertakin						 Prior Ownersl	Name of Acquiring State	
A. GENERATING F	ower s	YSTEMS	:_						
Khagaria		••	••		••		 Company		Bihar
Chopda	••	••				٠.	 Company		Bombay
Kasargode		••				••	 Company		Kerala
Mhow	••	••	••				 Company		Madbya Pradesh
Guna	••	••	••	••	••		 Company	••	Madbya Pradesh
Vidisha	••	••	••	••			 Company		Madhya Pradesh
Bargarh .	••	••	• •	••	••		 Company		Orissa
Jharsuguda	••	••	••	••			 Company		Orissa.
Dalhousie	••	••	••	••		••	 Company		Punjab
B. DISTRIBUTING	POWER	SYSTEM	is—						
Tiruma(ai-Tiru	ıpati	••	••	••	••		 Company	••	Andhra Pradesh
Gauhati	••	••			••	• •	 Company		Assam
Arrah		••	••	••			 Company		Bihar
Jaisinghpur	••	••	••	••	••	••	 Company		Bombay
Cannanore Tel	licherry	••	••	••	••		 Company		Kerala
Cuddalore		••	••	••	4.6		 Company		Madras
Mandiphul		••		••			 Company	.,	Punjab

The total generating plant capacity in the aforesaid undertakings was $4,429~\mathrm{kW}$ at the time of acquisition, out of which $2,020~\mathrm{kW}$ represented standby plant in the distributing power systems.

UNDERTAKINGS CHANGED OVER TO BULK POWER SUPPLY

23 Undertakings are reported to have changed over to bulk power distribution; 14 of these bolonged to the State Governments and Boards and the remaining 9 to the companies. The names of these undertakings and source of bulk power supply are given below:-

Name of Undertaking		Type of Ownership		Name of State		Source of Supply
Anantapur*		Government	••	Andhra Pradesh		Tungabhadra Hydro Electricity System
Cuddapah*		Government		Andhra Pradesh		Tungabhadra Hydro Electricity System
Kakinada*		Government		Andhra Pradesh		Machkund Hydro Electricity System
Kurnool*		Government		Andhra Pradesh		Tungabhadra Hydro Electricity System
Dhoraji*		Board		Bombay		Shahpur Thermal Station
Gondal*		Board	٠.	Bombay		Rajkot Power House
Junagadh		Board		Bombay		Shahpur Thermal Station
Kotda Sangnì		Board		Bombay		Rajkot Power House
Manavadar*		Board	••	Bombay		Shahpur Thermal Station
Upleta		Board		Bombay		Shahpur Thermal Station
Bardoli*		Company		Bombay		South Gujrat Grid
Jambusar	••	Company		Bombay		South Gujrat Grid
Ujjain*		Board		Madhya Pradesh		Indore Power House
Bilaspur*		Company		Madhya Pradesh		Raipur Thermal Station
Jeypore		Government		Orissa		Machkund Power House
Ambala Canti*		Company		Punjab		Nangal Hydel Scheme
Kaithal*		Company		Punjab	, .	Nangal Hydel Scheme
Rewari		Company		Рипјав		Nangal Hydel Scheme
Rampur*		Government		Uttar Pradesh		Sarda Hydel
Barabanki		Company		Uttar Pradesh		U.P. Hydel
Shahjahanpur		Company		Uttar Pradesh		U. P. Hydel
Vishnupur		Company		West Bengal .	.	West Bengal State Electricity Board
Pondicherry*		Government		Union Territories .		Mettur Hydro Electric System.

^{*} The generating plants in these undertakings have been kept as standby.

PLANT INSTALLATIONS, WITHDRAWALS, ETC.

The generating plant capacity added during the period 1st January 1957 to 31st March 1958 was 327,669 kW. Out of this capacity 156,000 kW or about 47.5 per cent comprised steam plant; 19,321 kW or 6.2 per cent diesel plant and 152,348 kW or about 46.3 per cent hydro plant. The capacity added in the public sector, i.e., in state owned undertakings including the State Electricity Boards, Power Corporations and Municipalities, was 250,536 kW or about 76.5 per cent of the total capacity added during the year. The remaining 77,133 kW or about 23.5 per cent was installed by the company owned undertakings.

During the period 1st January 1957 to 31st March 1958, 19 turbo alternators of total capacity 156,000 kW and 23 hoilers of aggregate evaporating capacity of 721,676 Kilograms/hr. were added in some of the medium and large thermal stations. The number and capacity of the generating plants and boilers installed in the steam power stations are given below:—

STEAM TURBO ALTERNATORS

Installed at		State			•	Ownershi	No. of Units	Capacity of each unit in kW	
Ramagundam		Andhra Pradesh			Government			 3	12,500
Trombay		Bombay			Company			 1	62,500
Bhopal		Madhya Pradesh			Board			 1	2,500
Itarsi		Madhya Pradesh	••		Board	••		 2	1,500
Saugor		Madhya Pradesh		••	Company	••	• •	 2	1,250
Gorakhpur		Uttar Pradesh			Government			 2	5,000
Mainpuri		Uttar Pradesh		••	Government	••		 2	5,000
Mau	. ••	Uttar Pradesh			Government			 2	5,000
Sohwal		Uttar Pradesh			Government			 2	5,000
Agra	••	Uttar Pradesh			Company	••		 1	4,000
Allahabad	••	Uttar Pradesh		••	Company			 1	4,000
					l		Total		156,000

BOILERS

Installed at		State		Ownership	No. of	İ	Evaporat- ing capa- ctty of	Steam cor at stop va	
		·			boilers		each unit in Kilo- grams/hr.	Pressure in Kilo- grams Sq. cm.	Temp, °C
Ramagundam		Andhra Pradesh		Government		6	22,680	28	399
Trombay	• •	Bombay	••	Company		1	272,160	88	510
Bhopal	••	Madhya Pradesh		Board		2	6,804	24	415
Jubbulpore	٠.	Madhya Pradesh	••	Company		1	27,216	19	347
Saugor		Madhya Pradesh		Company		2	5,443	14	307
Gorakhpur		Uttar Pradesh		Government		2	24,948	28	399
Mainpuri		Uttar Pradesh		Government		3	24,948	28	399
Mau		Uttar Pradesh		Government		2	24,948	28	399
Sohwal		Uttar Pradesh		Government		3	19,958	28	399
Agra		Uttar Pradesh	٠.	Company		1	27,216	19	370
					Total		721,676		010

During the period 1st January 1957 to 31st March 1958, 15 water wheel alternator sets of total installed capacity of 152,348 kW were installed. The number and capacity of generating plants installed in some of the important hydro stations are given below:—

WATER WHEEL ALTERNATORS

	nstalled	1 at 					State		Owner- ship	No. of units	Capacity of each unit in kW
Tungabhadra	a (Righ	t Bank)	••	• •	••	••	Andhra Pradesh	ļ	Government	2	9,000
Tungabhadra	a (Han	ıpi)	• -	••	• •	••	Andhra Pradesh		Government	2	9,000
Poringalkuth	ıu	••		••	••		Kerala		Board	3	8,000
Umtru			••	••	••		Assam		Board	3	2,80
Hirakud			••	••	••	••	Orissa		Government	1	24,000
Maithon	••	•• .	••	• •	• •	• •	.West Bengal	;	Power Corporation	1	37,500 20,000
Mayurakshi	••	••	4.0	• •	• •	• •	West Bengal		Board	1	2,00

During the period 1st January 1957 to 31st March 1958, 101 diesel sets of total capacity of 19,321 kW were also installed. 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)

		Insta	illed at				State	Ownership	No. of Units	Capacity of each unit in kW;
Macherla	••	••	••			••	Andhra Pradesh	Government	. 1	500
Jamnagar				• •			Bombay	Board	1	1,00
Kolhapur	••			• •	• •		Bombay	Board	1	55
Porbandar		• •					Bombay	Board	2	50
Rajkot		••	••		••	.,	Bombay	Board	3	1,06
Veraval				••		••	Bombay	Board	1	50
Wadhwan		••		••	• •		Bombay	Company	2	50
Korba	••			••	••	••	Madhya Pradesh	Board	1	92
Udaipur			••		• •		Rajasthan	Board	2	68
Siliguri		••		••			West Bengal	Board	2	31
Aggregate o	apacity	of other	diesel pla	ants	••	••	••	••	••	8,67

The generating capacity withdrawn, during the period 1st January 1957 to 31st March 1958, from service aggregated to 7,385 kW out of which 1,160 kW was steam plant 6,155 kW diesel plant and 70 kW hydro plant.

Installed plant capacity figure as on 31st December 1956 of some of the undertakings was not correctly reported at the time of compilation of the last year's review. The data now received shows that the installed plant capacity has to be increased by 16,686 kW for the year 1956.

POWER PLANT CAPACITY AND ELECTRICITY PRODUCTION

The total installed capacity of generating plant as on 31st March 1958 amounted to 3,223 million kW. During the period 1st January 1957 to 31st March 1958, 336,970 kW of plant was added and the net increase over that of the calendar year 1956 was 11·7 per cent. Total electricity production for the 12 months' period ending 31st March 1958, was 11,369 million kWh and registered an increase of about 17·6 per cent over that in the year 1956.

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

			Installe	ed capacity of ger	nerators		Generation	
Type of I	lant		As on 31-8-1958	Percentage of Total	Increase in 1957/58 as compared with 1956	kWh generated in 1957/58	Percentage of total	Increase of 1957/58 as compared with 1956
	1		2	3	4	5	6	7
			kW	%	%	(Millions)	%	%
Steam	••		1,763,257	54.7	10.5	6,042·454	53· 2	17.
Oii	••	}	245,935	7.6	7.7	254·4 4 7	2.2	9.
Hydro	••		1,213,919	87 - 7	14.4	5,072 241	44.6	18-
	+ Total	••	8,228,111	100 · 0	11.7	11,369-142	100.0	17-

TABLE III-INSTALLED CAPACITY AND GENERATION BY TYPES OF PLANTS

The steam power plant capacity during the year increased by 10.5 per cent while the corresponding electricity production rose by 17.7 per cent over that in the previous year. In the hydro power plant, the capacity increased by 14.4 per cent and electricity production by 18.1 per cent.

The steam power plant constituted 54.7 per cent of the total installed power plant capacity, whereas the energy output was 53.2 per cent of the total production. The corresponding figures for hydro power plant were 37.7 per cent and 44.6 per cent respectively. The diesel plant represented 7.6 per cent of the total capacity and produced only 2.2 per cent of the total generation by all the undertakings.

CLASSIFICATION OF INSTALLED POWER PLANT ACCORDING TO TYPE OF GENERATION

Table IV gives separately further details of the installed generating capacity of steam, oil and hydro plant classified under Alternating current and Direct current plant.

TABLE IV—GENERATING PLANT—TYPE AND INSTALLED CAPACITY AS ON 31-3-1958 (ANALYSIS OF TYPES OF PRIME MOVERS AND GENERATING PLANTS INSTALLED)

İ		Total		<u></u>			D jv	ision of 3	Fotal				
	No. of	Aggregate capacity	Per- centage				Public	Sector				Pri	vate Sector
Type of Prime Mover and Gene-	sets ins- talled	of sets	of total plant instal-	Gov	ernment		Electricity oard	Power	Corpora- tion	Munic	ipality	Com	pany
rating Plant		!	Iostai- Ied	No. of sets	Aggregate capacity	No. of	Aggregate capacity	No. of sets	Aggregate capacity	No. of sets	Aggre- gate capacity	No. of	Aggregate capacity
1	2	3	4	5	6	7	8	9	10	11	12	13	14
(i) Steam Turbines		kW	%		kW		kW		kW		kW		kW
A.C. Generators	256	1,751,808	54 - 35	65	261,235	80	419,532	3	150,000	2	6,200	106	914,841
D.C. Generators	1	300	0.01	1	300			٠	.,		••	••	
Total Steam Turbo-Plant.	257	1,752,108	54.36	66	261,535	80	419,532	3	150,000	2	6,200	106	914,841
(ii) Reciprocating Steam Engines and													-
A.C. Generators	51	10,441	0.32	11	3,172	17	3,000					23	4,269
D.C. Generators	14	708	0.02	3	52	6	286		٠,	••		5	370
Total Recipro- casting Steam Plant.	65	11,149	0.34	14	3,224	23	3,286					28	4,639
(iii) Oil Engines and	•		· · · · · · · · · · · · · · · · · · ·										
A.C. Generators	1,440	220,080	6 · 83	369	62,582	473	69,402	'		69	9,857	529	78,239
D.C. Generators	344	25,855	0 · 80	61	5,028	128	7,614			7	208	148	13,005
Total Oil Engine Plant.	1,784	245,935	7 · 63	430	67,610	601	77,016		••	76	10,065	677	91,244
(iv) Water turbines													
A.C. Generators	190	1,213,734	37 · 66	77	443,312	65	463,922	3	24,000	21	7,860	24	274,640
D.C. Generators	5	185	0.01	5	185		••	٠.		••			
Total Hydro-Power Plant.	195	1,213,919	37 · 67	82	443,497	65	463,922	3	24,000	21	7,860	24	274,640
Grand Total													-
A.C. Generators	1,937	3,196,063	99-16	522	770,301	635	955,856	6	174,000	92	23,917	682	1,271,989
D.C. Generators	364	27,048	0 · 84	70	5,565	134	7,900		••	7	208	153	13,375
Total Number of Generators.	2,301	3,223,111	100-00	592	775,866	769	963,756	6	174,000	99	24,125	835	1,285,864

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As will be seen from the table IV there were 2,301 generating sets of aggregate capacity 3,223,111 kW working in the public electric utility power stations in India. Out of these, 257 were steam turbo-alternator sets, 65 reciprocating steam engine sets, 195 water wheels and 1,784 diesel engine sets. Among these, 364 sets generated direct current and the remaining 1,937 generated alternating current. The A.C. plant was 99·16 per cent of the total installed capacity.

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

			Installed	capacity of ge	enerators		Generation	
	Ownership	No. of undertakings owning generating stations	As on 31-3-58	Percentage of grand total	Increase in 1957/58 over 1956	kWh generat- ed in 1957 58	Percentage of grand total	Increase in 1957/58 over 1956
-	1	2	3	4	5	. в	7	8
			kW	%	%	(Millions)	%	%
(i)	Public Sector—		İ					
	State Government .	111	775,866	24·1	()34·4	1,770 524	15.6	(—) 51·2
	State Electricity Board .	172	963,756	29.9	198·7	4,107 · 096	36 ·1	256 · 2
	Power Corporation .	2	174,000	5.4	13.0	902 · 888	7.9	95.8
	Municipality	22	24,125	0.7	0.2	49 490	0.4	2·1
(ii) Private Sector –		١					
	Company	161	1,285,364	39.9	6·9	4,539 · 144	40.0	3.9
	Total .	468	3,223,111	100.0	11.7	11,369 · 142	100.0	17.2

The installed plant capacity in the public sector (Comprising Government, State Electricity Board, Power Corporation and Municipality), at the end of the year was 1,937,747 kW as compared to 1,285,364 kW of plant installed in the private sector. The percentage of capacity installed in the two sectors was accordingly 60·1 per cent and 39·9 per cent respectively. The rate of plant installation in the public sector during the past few years has been relatively faster than in the private sector. In the public sector installed capacity increased by 15·1 per cent over that in the previous year, as compared to 6·9 per cent in the private sector.

The public sector generated 6,830 million kWh or $60 \cdot 0$ per cent of the total production. In the private sector the production was 4,539 million kWh or $40 \cdot 0$ per cent of the total. The increase in production in the public sector was about $28 \cdot 0$ per cent and that in the private sector was $3 \cdot 9$ per cent over that in the previous year. The net increase in power production from both the sectors was $17 \cdot 2$ per cent over that in the previous year.

Table VI gives further details of the number of power stations, their installed plant capacity and generation classified according to the three main types of plant under each of the two sectors:—

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

							No. of undertakings	Installed gener	capacity of rators	Gen	eration .
	Types of Plant a	nd Ov	vners	hip	<u></u> _		owning generating stations	As on 31-3-58	Percentage of grand total	kWh generated	Percentage of grand total
	1						2	3	4	5	6
Steam- Public	 c Sector							kW	%	(Millions)	%
(b) (e)	Government State Electricity Board Power Corporation	:		:	:		11 19 1	264,759 422,818 150,000	8·2 13·1 4·7	387 · 067 1,634 · 288 886 · 354	3 · 4 14 · 4 7 · 8
	Municipality te Sector—	٠	٠	•	•	•	1	6,200	0.2	7 858	0.1
	npany		•				21	919,480	28.5	3,126 · 887	27 - 1
	T	otal f	or Ste	eam 1	Plant		53	1,763,257	54.7	6,042 · 454	53 · 2
Oil Public	: Sector]	
(b)	Government . State Electricity Boa Power Corporation	rd	:	•		:	82 144	67,610 77,016	2·1 2·4	41 · 063 67 · 803	0.4
	Municipality .	÷	:	:	÷	•	17	10,065	0.3	13.703	0·1
	e Sector — apany		•	•	•		138	91,244	2.8	131 878	1.1
		Tota	al for	Oil I	Plant	•	381	245,935	7.6	254 - 447	2.2
Hydro-											
(b) (c)	Government State Electricity Board Power Corporation Municipality	:		•	•		18 9 1 4	443,497 463,922 24,000 7,860	13·8 14·4 0·8 0·2	1,342·394 2,405·005 16·534 27·929	11 · 8 21 · 2 0 · 1 0 · 2
	e Sector — ipany				,		2	274,640	8.5	1,280 · 379	11.3
	т	otal f	or Hy	dro P	lant		34	1,213,919	87.7	5.072 241	44.6
	Grand Total (Ste	am. C	il an	d Hv	dro)	.	468	3,223,111	100 0	11,369 142	100.0

In power systems of the Government, State Electricity Board, Power Corporation and Municipality the installed plant capacity represented 8·2 per cent, 13·1 per cent, 4·7 per cent and 0·2 per cent respectively of the total all India capacity under Steam plant; 2·1 per cent, 2·4 per cent, 0·0 per cent and 0·3 per cent respectively under Oil Plant; 13·8 per cent 14·4 per cent, 0·8 per cent and 0·2 per cent respectively under Hydro Plant.

The capacity of steam plant in the public sector expressed as percentage of the All-India total decreased from 26·3 per cent in 1956 to 26·2 per cent in 1957/58. The percentage of hydro plant capacity increased from 27·3 per cent in 1956 to 29·2 per cent in 1957/58. In the company owned undertakings comprising the private sector, the steam plant capacity decreased from 29·0 per cent in 1956 to 28·5 per cent in 1957/58 and hydro plant decreased from 9·5 per cent in 1956 to 8·5 per cent in 1957/58. The apparent decrease in the private sector, is due to relatively faster rate of plant installation in the public sector.

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INSTALLED GENERATING PLANT AND POWER PRODUCTION IN DIFFERENT STATES OF INDIA

The installed plant capacity and power production of the States classified under ownership, i.e., public sector and private sector are given in the Tables VII and VIII without regard to the nature of generation.

TABLE VII—SUMMARY OF INSTALLED PLANT CAPACITY BY OWNERSHIP AS ON 31-3-58

(Kilowatt)

					Publ	ic Sector		Private Sector	
Serial No.	States & Union Terri			Government	State Electricity Board	Power Corporation	Municipality	Company	Total
1	2			3	4	5	6	7	8
1	Andhra Pradesh	••	••	205,626				165	205,79
2	Assam			11,060			.,	3,904	14,96
3	Bihar	••	••	16,002		154,000		33,075	
4	Bombay State				245,680	• •	2,598	595,848	1
5	Jammu and Kashmir			12,875		••		••	12.875
6	Kerala		••		113,777	••			113,777
7	Madhya Pradesh	••	• •		67,713	••	252	23,990	91,955
8	Madras State	• •	••		249,666	**]	••	249,666
9	Mysore State	••	••		186,102	٠.	84	4,488	190,624
10	Orissa .	••		93,505		,,		1,8 36	95,341
11	Punjab	••	••	157,480		••	10,155	6,936	174,521
12	Rajasthan	••			35,226	••	336	10,369	45,931
13	Uttar Pradesh	••		271,604			8,110	75,191	354,905
14 15	West Bengal Union Territories—	••			10,937*	20,000	2,640	529,487	563,064
	(a) Delhi State	••			54,655			75	54,730
	(b) Rest	••	•	7,764					7, 76
	Tot	al		775,866	963,756	174,000	24,125	1,285,364	8,223,111

^{*}Includes Mayurakshi Power Station of 4,000 kW capacity owned and operated by West Bengal Government.

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TABLE VIII—SUMMARY OF GENERATION BY OWNERSHIP

(Million kWh)

Serial No.	States d Union Terri			 	Publi	ic Sector		Private Sector	
				Government	State Electricity Board	Power Corporation	Municipa- lity	Company	Total
1	2			3	4	5	6	7	8
1	Andhra Pradesh			345 · 056					
2	Assam	••	••	8.881	••	•••	••	0.242	345 - 298
3	Bihar		• •	21 · 683	• •	894 · 715	•• (9 189	18∙070
4	Bombay State	••		· •	975 350	994.319	**	134 470	1,050 · 868
5	Jammu & Kashmir	••	••	36.332	9191890	••	3·591	2,407 · 472	8,386 • 413
6	Kerala		• •	1	444.206	••		,.	36.33
7	Madhya Pradesh		••	• •	441 · 396	••	•=	• •	441 896
8	Madras State	• • • • • • • • • • • • • • • • • • • •	• •	••	133 268	••	0.154	54.070	187 - 492
9	Mysore State		••	••	1,342 · 006	••	•: 1		1,342 000
10	Orissa	••	• • •	90.817	926 · 497	· · · · · ·	0.036	7 · 467	934 000
11 i	Punjab	• •	• •	632.046		••	:: .	2 · 403	93 - 226
12	Rajasthan		٠.	094.040		••	22.813	2.364	657 22
13	Uttar Pradesh		• • •	697.474	74 · 089		•• .	$22 \cdot 051$	96 14
14	West Bengal	• •	••	627 · 471	10.00	• • • • • • • • • • • • • • • • • • • •	15 · 863	$228 \cdot 674$	872 - 000
15	Union Territories –	••	• •	• • •	10 · 831	8 · 173	7.033	1,670-628	1,696 66
10	(a) Delhi State				000 050		i		,
- 1	(b) Rest	••	• • •	0.000	203 - 659			0 · 114	203 - 773
j	(%) 11050	••		8.238	••	٠٠	••	••	8 - 23
	T	otal		1,770 · 524	4,107 096	902 · 888	49 · 490	4,539 · 144	11,369 · 14

Tables IX, X and XI separately give the break-up of plant capacity under the categories Steam, Diese and Hydro installed in different states in the country by public and private sectors respectively.

TABLE IX-INSTALLED STEAM PLANT CAPACITY BY OWNERSHIP AS ON 31-3-1958.

(Killowatt)

Serial No.	States & Union	Territorie	s S		Pub	lic Sector		Private Sector	
				Govern- ment	State Electricity Board	Power Corpora- tion	Municipa- lity	Company	Total
1		2		3	4	5	6	7	8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Andhra Pradesh Assam Bihar Bombay State Jammu & Kashmir Kerala Madhya Pradesh Madras State Mysore State Orissa Punjab Rajasthan Uttar Pradesh West Bengal Union Territories— (a) Delhi State	.,		83,500 622 5,850 1,500 5,776 1,626 	207,300 54,318 84,000 24,750	 150,000	6,200	27,770 276,350 20,604 67,875 527,481	83,500 622 183,620 483,650 1,500 74,322 84,000 5,776 7,826 24,750 227,760 528,331
	(b) Rest	 Total	••	6,000 264,759	51,600 	150,000	6,200	919,480	51,600 6,000 1,763,257

TABLE X-INSTALLED OIL PLANT CAPACITY BY OWNERSHIP AS ON 31-3-1958

(Killowatt

Serial No.	States & Union T	'erritories			Public	e Sector		Private Sector	Total
ļ				Govern- ment	State Electricity Board	Power Corporation	Munici- pality	Company	20,,,
1	2			3	4	5	6	7	8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Andhra Pradesh Assain Bihar Bombay State Jammu & Kashmir Kerala Madhya Pradesh Madras State Mysore State Orissa Punjab Rajasthan Uttar Pradesh West Bengal Union Territories— (a) Delhi State (b) Rest	., ., ., ., ., ., ., ., ., ., ., ., ., .		20,126 2,038 10,152 769 2,224 11,564 19,479	32,556 4,277 13,395 516 7,902 10,476 4,839 3,055		2,598 252 34 2,205 336 3,960 680	165 3,354 5,305 45,408 3,986 4,488 1,836 6,936 10,369 7,316 2,006	20,291 5,392 15,457 80,562 769 4,277 17.636 12,424 4,060 20,705 21,181 30,755 7,525 3,130
	T	otal		67,610	77,016	••	10,065	91,244	1,258

TABLE XI--INSTALLED HYDRO PLANT CAPACITY BY OWNERSHIP AS ON 31-3-1958

(Killowatt)

Serial No.	States & Union T	'erritorie	s .		Public	Sector		Private Sector	Total
				Govern- ment	State Electricity Board	Power Corporation	Municipa- lity	Company	10001
1		2		3	4	5	6	7	8
1 2	Andhra Pradesh			102,000	• • • • • • • • • • • • • • • • • • • •				
3	Assam			8,400			1	550	102,000 8,950
4	Bihar Bombou Stote	• •	•••			4,000			4,000
5	Bombay State	• •	٠.		5,824		1	274,090	279,914
6	Jammu & Kashmir Kerala	• •		10,606		i			10,606
7	Madhya Pradesh	• •	• •		109,500			• •	109,500
8	Madras State	* *)		••	100,000
9	Mysore State	••	• •		165,150				165,150
10	Orissa	• •	• •	,,	178,200	1	٠. (•••	178,200
11	Punjab	••	• •	85,505	• • •				85,505
12	Rajasthan	••	• •	144,240	••		1,750		145,990
13	Uttar Pradesh	••	• • • •			<i></i>			- 10,000
14	West Bengal	••	••	92,240	** 040		4,150		96,390
15	Union Territories—	••	••	••	*5,248	20,000	1,960	••	27,208
	(a) Delhi State								
ı	(b) Rest	••		5 06	• •			• • • • • • • • • • • • • • • • • • • •	506
j	1	[otal	[443,497	463,922	24,000	7,860	274,640	1,213,919

^{*}Includes Mayurakshi Power Station of 4,000 kW capacity, owned and operated by West Bengal Government.

In West Bengal Bombay State, Uttar Pradesh, Bihar, Madras State, Andhra Pradesh, Madhya Pradesh and Delhi State, the aggregate steam plant capacity was 1,716,783 kW and accounted for about 97 per cent of the total installed steam plant capacity. The aggregate diesel plant capacity in the states of Bombay, Uttar Pradesh, Rajasthan, Punjab, Andhra Pradesh, Madhya Pradesh and Bihar was 206,584 kW representing about 84 per cent of the total oil plant capacity. The aggregate capacity of hydro plant in the states of Bombay, Mysore, Madras, Punjab, Kerala, Andhra Pradesh, Uttar Pradesh and Orissa was 1,162,649kW or about 96 per cent of the total hydro installation in the country.

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

TABLE XII—ELECTRICITY GENERATED BY STEAM PLANT DURING 1957/58 BY OWNERSHIP

(Million kWh)

							Pul	blic Sector		Private Sector	
Serial No.	State	es and 1	Union Ter	ritories		Govern- ment	State Electricity Board	Power Corpora- tion	Municipa- lity	Company	Total
1			2			3	4	5	6	7	8
1 ,	Andhra Pradesh					51 - 809					51 · 809
2	Assam			••	••				••		
3	Bihar			••		2.079		886 354	••	122 · 122	1,010 - 555
4	Bombay State	••	•	••			923 942	• •	• •	 1,071 · 510	1,995 · 452
5	Jammu & Kashn	air	•								
6	Kerala		•								
7	Madhya Pradesh		••	••			120 - 098		• •	46.542	166 · 640
8	Madras State		••.,	••]	321 - 509		••		321 - 509
9	Mysore State	••		••]]		[
10	Orissa		••	••		19 495				••	19 · 495
11	Punjal.					[]			7.858	••	7·858
12	Rajasthan				••		65 · 260				65 · 260
13	Uttar Pradesh		• •	• •		307 · 911	}			218 599	526 · 510
14	West Benagal	••								1,668 · 114	1,668 · 114
15	Union Territories	s					ļ	J		1	,
	(a) Delhi Scate	e					203 · 479		[203 · 479
	(b) Rest					5.773					5.773
			T	otal	• •	387 · 067	1,634 · 288	886 354	7 · 858	3,126 · 887	6,042 · 454

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TABLE XIII—ELECTRICITY GENERATED BY OIL PLANT DURING 1957/58 BY OWNERSHIP

(Million kWh)

				• ;		Pub i	c S ector		Private Sector	
Serial No.	States and Union	1 Territor	ies	ı	Govern- ment	State Electricity Board	Power Corporation	Municipa- lity	Com- pany	Total
1		2			3	4	5	6	7	8
1	Andhra Pradesh	••	••	••	4.026				0.242	4 · 26
2	Assam	••			1 · 121				5 · 631	6 · 75
3	Bihar	-	••	••	19-604			••	12.348	31 · 95
4	Bombay State	₩	#29	••	••	33 · 303		3·591	59 · 141	96 · 03
5	Jammu & Kashmir	••	••		0.075				.,	0.07
6	Kerala	••	••	••	••	0.170		••		0 · 17
7	Madhya Pradesh	**	••		••	13 · 170		0 · 154	7.528	20 · 85
8	Madras State	••		••	••	0.075		••		0.07
9	Mysore State	••	••	••		9·776	••	0.036	7 · 467	17 · 27
10	Orissa	-	••	••	1 · 321	••		••	2 · 403	3.72
11	Punjab	••	••	••	1 · 498	••	••	2.569	2·364	6.43
12	Rajasthan	••	••	••	••	8.829	ļ ļ	••	22.051	30 · 88
13	Uttar Pradesh		••	••	11-865	••		6·111	10.075	28 · 05
14	West Bengal	••	••	••	_ exe	2·300		1 · 242	2.514	6.05
15	Union Territories—									
	(a) Delhi State	**	••	••	••	0·180	ļ	••	0·114	0.29
	(b) Rest		••	••	1 · 553	••	 	** .		1.55
			Total		41 · 063	67 · 808		18.703	131 - 878	254 · 44

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TABLE XIV-ELECTRICITY GENERATED BY HYDRO PLANT DURING 1957/58 BY OWNERSHIP

(Million kWh)

Serial	States and	l Itaiou I	Territories			Publi	ie Sector		Private Sector	_
No.	States and	i Union	Territories		Govern- ment	State Electri- city Board	Power Corporation	Munici- pality	Company	Total
1		2			3	4	5	6	7	8
1	Andhra Pradesh	• •		••	289 · 221				,.	289 - 2
2	Assam		••	٠,	7 · 760			••	3 - 558	11:
3	Bihar	••	••	٠.		••	8 · 361	••		8.:
4	Bombay State	••	••	••	••	18·105		••	1,276 · 821	1,294
5	Jammu & Kashmir	••	••	••	36 · 257					36.
6	Kerala	••	••	••		441 · 226		•••		441 -:
7	Madhya Pradesh	••	••	••	· · ·		••			
8	Madras State	••	••	••	.,	1,020 · 422				1,020 ·
9	Mysore State	••	••	••	••	916-721	••			916 - 7
10	Orissa	••	••	••	70.001	 		••		70 - 0
11	Punjab	4.5	••	••	630 548			12.386		642 · 9
12	Rajasthan		••	••	••	,,		••		
13	Uttar Pradesh	••	••	••	807-695			9 · 752		817 · 4
14	West Bengal	••	••	• •	••	8 · 581	8 · 173	5 · 791		22 · 4
15	Union Territories-									
	(a) Delhi State	••	••	••		••	••	• •		
	(b) Rest	••	••		0.912			••		0 · 9:
			Total	••	1,342 · 394	2,405 · 005	16.534	27 · 929	1,280 · 379	5,072 2

Table XV gives the installed plant capacity and power generation on the basis of square Kilometre of area and population.

During the year under review, installed plant capacity per square Kilometre of area was 0.988 kW as against 0.878 kW in the previous year. The electrical energy generated per square Kilometre of area was 3,470 kWh as against 2,941 kWh in the previous year. The net increase in capacity per square Kilometre was 13.0 per cent and the net increase in production per square Kilometre was 18.1 per cent over the corresponding figure for the previous year.

The installed plant capacity per thousand of population was 8·194 kW as against 7·507 kW in the previous year whereas the power generated per thousand of population was 28,902 kWh as against 25,131 kWh.

TABLE XV—PAINT CAPACITY AND kWh GENERATED IN DIFFERENT STATES PER SQUARE KILOMETRE AND PER THOUSAND OF POPULATION

(Million kW Serial States and Union Popula-Агеа Generating Total kWh Total Generating kWh genekWh gene (Square Kilo-No. Territories tion installed plant insgenerated plant inrated per rated per (million) capacity kW stalled per (Million) square 1,000 of metre 1,000 of square kilo population kilometre population metre (kW) (kW)1 2 3 4 5 6 7 8 10 1 Andhra Pradesh $33 \cdot 995$ 273,763 205,791 6.054 0.752345 - 298 10,160 1,170 2 Assam 9.835 220,311 14,964 1.5220.068 18.070 1,837 82 Bihar 3 42 178 173,823 203.077 4.815 1.168 1,050 868 24,915 6,046 **Bombay State** 52 488 493,830 844.126 16.082 1.709 3.386 - 413 64,518 6,858 5 Jammu & Kashmir 4.796 222,380 12,875 2 685 0.058 36:332 7,575 92 6 Kerala 14.735 38,687 113,777 7.7222.941 441 - 396 29,956 11,409 7 Madhya Pradesh 28 - 353 ٠. 443,667 91,955 3.243 0.207187 - 492 6,613 423 8 **Madras State** 32.598 129,951 249,666 7 659 1.921 1 342 - 006 41,168 10.327 9 Mysore State 21 - 099 193,890 190,624 9.0350.983934 000 44,268 4,817 10 Orissa 15.928 156,047 95.341 5.986 0.611 $93 \cdot 220$ 5,853 597 11 Puniab **17** 547 121,891 174,521 9 946 1 432 657 223 37 455 5-374 12 Rajasthan 17 368 342,134 45,931 2.645 0.13496 140 5,535 281 13 Uttar Pradesh 68 - 747 293,765 354,905 5.162 1.208 872 - 008 12.684 2,968 West Bengal 28 - 603 87,762 563.064 19.685 6.416 1,696 - 665 59.318 19,261 15 Union Territories... (a) Delhi State 1.897 1.484 54,730 28 851 36 878 203 773 107,419 137,307 (b) Rest 3.195 69,489 7,764 2.430 0.112 8.238 2,578 119 Total 393 - 362 3,262,874 3,223,111 8 - 194 0.988 11,369.142 28,902 3,470

The plant capacity per square Kilometre was 36.9 kW in Delhi State (comprising mainly Delhi City), 6.4 kW in West Bengal, 2.9 kW in Kerala, 1.9 kW in Madras State, 1.7 kW in Bombay State, 1.4 kW in Punjab, 1.21 in Uttar Pradesh and 1.2 kW in Bihar respectively. Drop in installed capacity per square Kilometre in the case of Kerala, Bombay State, and Punjab is due to readjustment of area after the reorganisation of the states. In the other States the installed plant capacity per square kilometre was less than 1.0 kW.

Power generated per thousand of population was 107,419 kWh in Delhi State (comprising mainly Delhi City), 64,518 kWh in Bombay State, 59,318 kWh in West Bengal, 44,268 kWh in Mysore State, 41,168 kWh in Madras State, 37,455 kWh in Punjab, 29,956 kWh in Kerala and 24,915 kWh in Bihar. In the other states generation per thousand of population was less than 20,000 kWh. Drop in generation per thousand of population in the case of Bombay State, West Bengal and Mysore State is due to the reorganisation of the states.

On the basis of the square kilometre of the area the power produced was 137,307 kWh in the Delhi State (comprising mainly the Delhi City), 19,261 kWh in West Bengal, 11,409 kWh in Kerala, 10,327 kWh in Madras State, 6,858 kWh in Bombay State, 6,046 kWh in Bihar, 5,074 kWh in Punjab and 4,817 kWh in Mysore. In the other states power produced per square kilometre of area was below 3,000 kWh per annum. In Assam and Jammu and Kashmir, the power produced was less than 100 kWh per annum per square kilometre of area.

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—CLASSIFICATION OF GENERATING UNDERTAKINGS OWNED BY DIFFERENT STATE GOVERNMENTS AND STATE ELECTRICITY BOARDS IN TERMS OF TOTAL PLANT CAPACITY.

					Governmen	ts	Sta	te Electricity	Board
Installed !	Installed Plant Capacity (kW)				Aggregate Installed Capacity (kW)	Total kWh Generated by the Group (Millions)	No. of Under- takings owning Generating Stations	Aggregate Installed Capacity (kW)	Total kWh Generated by the Group (Millions)
	1			2	3	4	5	6	7
Upto250				60	4,789	4.743	100	10,602	9 · 129
251 500		••		18	7,088	10 · 579	26	11,011	16.895
501 - 750		• •		6	6,723	5 · 286	7	5,453	7.917
751 –1,000		·· .		5	6,483	8 · 647	8	8,501	8 · 851
1,001 2,500				4	10,804	1 · 564	5	13,017	13 · 496
2,501—5,000			••	3	20,479	45 · 686	7	27,437	55 · 248
5, 001 —10,000				2	32,730	29.660	5	33,760	98 · 402
10,001—25,000				4	82,749	109 · 134	5	82,765	215 · 003
25,001 — 50,000				4	165,845	314 · 998	2	77,716	462-800
50,001 - 100,000				3	213,000	542 · 442	4	290,826	1,106 · 328
Over 100,000		• •	••	2	225,176	697 · 785	3	402,668	2,113 · 027
		Total		111	775,866	1,770 · 524	172	963,756	4,107 · 096

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TABLE XVII—CLASSIFICATION OF GENERATING UNDERTAKINGS OWNED BY DIFFERENT MUNICIPALITIES AND POWER CORPORATION IN TERMS OF TOTAL PLANT CAPACITY.

					Municipali	ty	Po	wer Corporatio	מ	
Installed p	lant cap	acity		No. of Under- takings owning gene- rating stations	Aggre- gate installed capacity	Total kWh gene- rated by the group	No. of under- takings owning gene- rating stations	Aggre- gate installed capacity	Total kWh gene- rated by the group	
	kW				kW	(Millions)	Stations	k W	(Millions)	
	1				3	4	5	6	7	
Upto 250 251 to 500		••	!	10	876	0.440		••		
501 to 750		••	•••	2	614	0.705	,	}	••	
751 to 1.000	• • •	••	•••	4	2,655 809	3·654 1·317	••		• •	
1,001 to 2,500	••			1 1	1,216	2.017	••	• •	• •	
2,501 to 5,000			.,	2	6,300	21 984	• •	•••	• •	
5,001 to 10,000				2	11,655	19 373		**	• •	
10,001 to 25,000	• •	• •		••			1	20,000	8 · 173	
25,001 to 50,000	• •	••			,,					
50,001 to 100,000	• •	• •	}	••	}				• •	
Over 100,000	• •	• •	••	<u> </u>	••	•• •	1	154,000	894 · 715	
		Total		22	24,125	49 490	2	174,000	902 · 888	

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

		Public secto	r		Private secto	T		Total	
Installed plant Capacity	No. of under- takings owning gene- rating stations	Aggre- gate installed capacity	Total kWh gene- rated by the group	No. of under- takings owning gene- rating	Aggre- gate installed capacity	Total kWh gene- rated by the group	No. of under- takings owning gene- rating	Aggre- gate installed capacity	Total kWh gene- rated by the group
kW		kW	(Millions)	stations	kW	(Millions)	stations	k W	(Millions)
1	2	3	4	5	8	7	8	9	10
Upto 250	170	16,267	14 312	63	10,104	7.717	283	26,371	
251 to 500	46	18,713	28 179	35	16,945	18 302	203 81		22 029
501 to 750	17	14,831	16 857	17	12,870	14 026	34	35,658	46 481
751 to 1,000	14	15,793	18.815	5	7,459	8 552	19	27,701 23,252	30 883
1,001 to 2,500	10	25,037	17 . 077	21	36,816	69.619	31	61,853	27 . 367
2,501 to 5,000	12	54,216	122 918	7	29,195	67.773	19	83,411	86 · 696 190 · 691
5,001 to 10,000	9	78,145	147 - 435	i	13,575	43 296	10	91,720	190.731
10,001 to 25,000	10	185,514	332 310	8	115,150	403 · 102	18	300,664	785 412
25,001 to 50,000	6	243,561	777 - 798	1	45,000	133 · 090	7	288,561	910 888
50,001 to 100,000	7	503,826	1,648 770	^	10,000	100 000	7	503,826	1,648 770
Over 100,000	6	781,844	3,705 - 527	3	998,250	3,778 - 667	ģ	1,780,094	7,479 194
Total	307	1,937,747	6,829 998	161	1,285 · 364	4,539 · 144	468	3,223,111	11,369 142

In 247 undertakings the installed capacity was less than or equal to 1,000 kW each and these together constituted 3·4 per cent of the total plant capacity installed by the public sector; 31 undertakings had capacities each in the range from 1,001 to 10,000 kW and formed 8·1 per cent and only 29 undertakings each above 10,000 kW together represented 88·5 per cent of the total installed capacity in the public sector.

In 120 undertakings of the private sector in which the installed capacity was in the range upto 1,000 kW each together formed 3·7 per cent of the total installation in that sector, in the capacity range 1,001 to 10,000 kW, 20 undertakings together formed 6·2 per cent and only 12 undertakings each having installed capacity in the range above 10,000 kW together constituted 90·1 per cent of total installed plant capacity in the private sector.

The plant installed in 41 undertakings (29 in the public sector and 12 in the private sector) each of capacity in the range above 10,000 kW having an aggregate installed plant capacity of 2,873,145 kW constituted 89·1 per cent of the total installed capacity in the country. The corresponding generation by this group was 94·8 per cent of total generation by all electricity undertakings in the country. The rest of the undertakings produced less than 6 per cent of the total generation.

SIZES OF INDIVIDUAL GENERATING SETS

The largest capacity of steam, oil and hydro sets in existence are 62,500 kW, 1,064 kW and 37,500 kW respectively.

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

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

	J	Tot	al	ļ			Division	of total					
Size of generating set		1					Public :	sector					Private sect
	No.	Aggre-	Per-	Go	vernment		te Electri- ty Board	Co	Power erporation	Mu	nicipality]	Company
	gene- rating sets	capacity	age of total plant	No. of sets	Aggre- gate capacity	No, of sets	Aggre- gate capacity	No. of sets	Aggre- gate capacity	No. of sets	Aggre- gate capacity		f gate
1	2	8	4	5	6	7	8	9	10	11	12	13	14
(i) A.C. Plant	-	kW	kW		kW		kW		kW		k W	_	k W
Under 1,000 kW.	1,574	253,898	7*88	421	81,566	503	73,049			68	15,71	7 56	83,56
1,000 kW. but Under 2,000 kW.	78	98,340	8 · 05	25	32,860	19	22,857		••	4	8,200	0 28	34,92
2,000 kW. but under 5,000 kW.	87	265,075	8 · 22	27	79,075	30	84,500	2	4,000			28	97,50
5,000 kW, but under 10,000 kW.	83	534,900	18.60	24	149,900	41	269,250				••	18	115,75
10,000 kW. but under 15,000 kW.	60	674,600	20 · 93	12	149,400	32	335,700		•-]	}		18	189,500
15,000 kW. but under 20,000 kW.	25	402,000	12 · 47	6	96,000	10	171,000				••	9	135,000
20,000 kW, but under 30,000 kW.	18	394,750	12 · 25	6	144,000			1	20,000		••	11	230,750
0,000 kW. but under 50,000 kW.	s	247,500	7 · 68	1	87,500	.,					••	7	210,000
0,000 kW. and Over,	6	325,000	10.08					3	150,000	**		3	175,000
otal A.C. Plant	1,937	3,196,063	99 16	522	770,801	635	955,856	6	174,000	92	23,917	682	1,271,989
i) D.C. Plant under 100 kW.	260	9,766	0-30	48	1,855	105	3,496	• •	••	7	208	100	4,407
00 kW. but under 200 kW.	67	8,007	0 · 25	13	1,538	20	2,366					84	4,108
200 kW. but under 500 kW.	37	9,275	0 29	9	2,372	9	2,038					19	4,865
oo kw. and Over.		··-							}	}			
otal D.C. Plant	364	27,048	0.84	70	5,585	134	7,900			7	208	153	13,375
otal Generating	2,301	3,223,111	100.00	592	775,866	769	963,756	6	174,000	99	24,125	835	1,285,384

Of the total installed capacity all the 1,937 A.C. sets of aggregate capacity of 3,196,063 kW and 364 DC generating sets of aggregate capacity of 27,048 kW represented 99.16 per cent and 0.84 per cent respectively.

The table XIX also gives the distribution of generating sets according to capacity groups in respect of both the private and public sectors of the industry. In the public sector, there were 1,255 A.C. sets and 211 D.C. sets respectively. The corresponding numbers in the private sector were 682 A.C. sets and 153 D.C. sets.

A.C. AND D.C. GENERATION

Out of 468 generating undertakings, 371 had A.C. generating plants, 75 had only D.C. generating plants and the remaining 22 had both A.C. and D.C. generating plants. The A.C. generating sets together produced 99.72 per cent of the total generation.

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

TABLE XX--PLANT CAPACITY AND GENERATION BY A.C. & D.C.

System of generation adopted	No. of under- takings owning gene- rating station	Aggregate installed capacity of generating plants (kilowatts)	Percentage of Grand total	kWh gene- rated in (Millions)	Percentage of Grand total
Alternating current only	371	2,828,808	87·77	10,109-848	88.92
Alternating current and Direct current	22	∫ A.C. 367,255	11 · 39	$1.227 \cdot 064$	10.79
	1	D.C. 6,901	0.21	0 076	0.00
Direct current only	75	20,147	0.63	32 · 154	0.29
Total	468	A.C. 3,196,063	99 · 16	11,336 · 912	99 71
	_	D.C. 27,048	0.84	32 · 230	0.29
Grand Total	468	3,223,111	100.00	11.369 142	100.00

Classification of power stations according to their installed 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	g plant	capacity		Number of generating stations	Aggregate installed capacity kW	Total kWh generated by the group (Millions)	Capacity of boilers in 1,000 kilo- grammes for the group	Average capa- city of the boilers in kG hr kW it generating capacity
Upto 250				7	630	0 · 275	10	16.6
251 to 500	• •	• •		5	1,745	1 · 833	24	13.5
501 to 750	• •	• •		9	5,678	8 · 030	53	8.9
751 to 1,000				3	2,800	2.079	44	15.6
1,001 to 2,500	• •	• •		10	17,216	17 - 187	133	7.8
2,501 to 5,000	• •	• •	• •	12	45,308	124 - 088	321	7.1
5,001 to 10,000	• •	••		9	70,275	130 - 565	407	5.8
10,001 to 25,000		••		20	313,255	846 849	1,647	5.3
25,001 to 50,000		• •		7	263,500	836 - 603	1,108	4.2
Over 50,000	• •	••		10	1,037,850	4,074 - 945	5,521	5.3
		Total		92	1,758,257	6,042 454	9,268	5.3

There were 37 stations with installed plant capacity above 10,000 kW and among them 10 stations had capacity each above 50,0000 kW. A group of other 31 stations had installed capacity between 1,001 to 10,000 kW. The remaining 24 stations had capacity below 1,000 kW and among them 7 stations were of capacity less than or upto 250 kW each.

The 37 stations of capacity each above 10,000 kW produced 95·3 per cent of the total power generated by all the steam power stations. Out of this the 10 stations having a capacity above 50,000 kW each, produced by themselves 76·4 per cent of the total power produced by the steam power stations. Whereas 31 stations

in the installed capacity group of 1,001 kW to 10,000 together generated $4\cdot 5$ per cent, the remaining 24 power stations each of capacity less than 1,000 kW generated in all only $0\cdot 2$ per cent of the total power produced in all the steam stations in India.

In the last column of table XXI are given average steam capacity of boilers expressed in Kilogrammes per kW of the installed generating plant capacity. For stations of capacity upto 1,000 kW the boiler capacity ranged from 16.6 Kilogrammes to 8.9 Kilogrammes per kW of generating plant installed, the higher range of steam capacity per kW is ascribed to a number of small reciprocating steam engine sets installed in some of the old power stations. In the capacity range above, 1,000 kW the boiler capacity varies from 7.8 Kilogrammes to 4.2 Kilogrammes per kW of generating plant installed. The steam pressures adopted in the power stations in India range from 7 Kilogrammes per square centimetre to 88 Kilogrammes per square centimetre. It is only in one station and that too in the private sector of the industry that has adopted a pressure of 88 Kilogrammes per square centimetre, whereas the highest steam pressure adopted in the public sector is 63 Kilogrammes per square centimetre.

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

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

Installed Capacity kW							No. of generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Millions)
<u>.</u>			1 .	_			2	3	4
Upto 100	••	••	• •				149	6,040	9 09
101 to 250	• •						147	22,552	21 · 13
251 to 500	• •					{	119	41,488	39 61
501 to 750							54	33,904	29 · 74
751 to 1,000	• •		• •			٠	28	24,219	27 - 15
,001 to 2,500	• •	• •	• •				51	77,290	80.39
2,501 to 5,000	• •	• •	• •	• •	• •]	11	35,532	33 · 42
Above 5,000	• •	• •	• •	• •			1 [6,960	13.87
					Total		560	247,985	254 · 44

296 stations out of a total of 560 had each capacity less than or up to 250 kW and their aggregate cap city was 11.5 per cent of the total installed diesel plant capacity in India; 252 stations each of capacity in the range 250 to 2,500 kW and of aggregate capacity of 176,901 kW accounted for 71.3 per cent and 12 stations each of capacity above 2,500 kW together accounted for 17.2 per cent out of total installed diesel plant capacity.

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

TABLE XXIII--CLASSIFICATION OF HYDRO POWER STATIONS IN TERMS OF CAPACITY.

		I ns talled (kW	-	y 		No. of generating stations	Aggregate installed capacity (kW)	Total kWh generated by the group (Millions)	Average plant factor	
		1				2	3	4	5	
Upto 250		·		•••		11	947	0.986	11.9	
251 to 500		••				1	300	0.434	16.5	
501 to 750						2	1,150	7 · 257	72.0	
751 to 1,000						.,		.,		
1,001 to 2,500					\	7	9,372	34 340	41 8	
2,501 to 5,000	٠.					10	37,100	133 562	41.1	
5,001 to 10,000	٠.	• •				2	14,400	25 031	19.9	
10.001 to 25,000	٠.				}	9	165,300	418 441	28.8	
25,001 to 50,000						9	388,900	1,781 096	52.3	
Over 50,000	• •	• •	• • •			7	596,450	2,671 094	51·1	
				Total	[58	1,213,919	5,072 241	47.7	

There were only 7 stations each of capacity above 50,000 kW and of aggregate capacity 596,450 kW which accounted for 49·1 per cent of the total installed hydro plant capacity and produced 53·1 per cent of the total hydro generation. 18 stations in the range 10,001 to 50,000 kW and of aggregate capacity 554,200 kW accounted for 45·7 per cent of total capacity and produced 43·3 per cent of the total hydro generation. As many as 33 other stations each of capacity in the range 10,000 kW and below and of aggregate installed capacity 63,269 kW represented only 5·2 per cent of the total hydro plant capacity and produced 3·6 per cent of the total hydro power.

The average plant factor of the hydro stations varied between 11.9 per cent to 72 per cent. The lowest plant 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 1957/58 are given in table XXIV.

TABLE XXIV—FUEL CONSUMPTION

					Total Fuel c	onsumption	Total kWh	Average fuel consumption in kg/kWh generated	
	T	ype of St	ations		Coal (metric Tons)	Oil (metric Tons)	generated (Millions)		
	· · · ·	1		 	2	3	4	5	
Steam Power Stations				 • •	4,593,761 · 2*		6,042 · 454	 0.760	
Oil Power Stations				 	i	82,024 · 2	254 447	0.323	

^{*} Includes about 121,664 tons of furnace oil converted into equivalent quantity of coal.

4,593,761 metric tons of fuel (mostly coal) and 82,024 metric tons of diesel oil were consumed in the steam and diesel stations respectively. The quantity of coal consumed in the steam power stations increased by 12.9 per cent over the consumption in the previous year. Electricity generation, however, increased by 17.7 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 efficient power systems.

The average coal consumption per kW generated by steam plants (including reciprocating steam plants) was 0.76 Kilogramme as compared to 0.79 Kilogramme during 1956 which was equivalent to the national average heat rate of about 4,475 Kilo-Calories per kWh generated as compared to 4,750 Kilo-Calories per kWh in the previous year. The national average heat rate improved by 5.6 per cent during the year. The lowest coal consumption was 0.507 Kilogramme/kWh and lowest heat rate registered was 2,858 Kilo-Calories/kWh.

In the diesel stations, diesel oil consumption increased by $7 \cdot 6$ per cent and power production increased by $9 \cdot 0$ per cent. The national average oil consumption for the diesel power stations was $0 \cdot 323$ Kilogramme per kWh as compared with $0 \cdot 327$ Kilogramme/kWh in 1956. The improvement in the diesel oil consumption per kWh was $1 \cdot 25$ per cent.

THERMAL EFFICIENCY OF STEAM POWER STATIONS

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

TABLE XXV - CLASSIFICATION OF STEAM POWER STATIONS IN TERMS OF OVER-ALL THERMAL EFFICIENCY.

	Overall th	No. of stations	Aggregate capacity (kW)	kWh generated by the group (Millions)					
		1					2	3	4
Under 10%	•••						54	207,744	196 745
10% and under 12.5%							6	133,068	151 - 840
12.5% and under 15%							11	146,525	485 990
15% and under $17.5%$	• •	• •	• •				7	202,170	713 · 154
17 5% and under 20%	• •	• •		• •			3	267,750	911 · 865
20% and under $22.5%$		• •					8	413,500	1,724-616
22.5% and above	••	••	• •	••	••		3	387,500	1,858 · 244
					Total	[92	1,758,257	6,042 · 454

The average overall thermal efficiency of all the steam power stations was $19 \cdot 2$ per cent as compared with $18 \cdot 1$ per cent in the previous year. The improvement in fuel consumption per kWh was about $4 \cdot 1$ per cent over that in the previous year.

Out of 92 total steam stations, 54 stations operated with overall thermal efficiencies below 10 per cent but these stations together had only 11·8 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 11 large stations which had in aggregate 801,000 kW of plant capacity operated at thermal efficiencies above 20 per cent. The highest thermal efficiency registered was 30·2 per cent.

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

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

Generating					Aggregate installed capacity	Total kWh generated by the group	Average overall efficiency	Average plant oad factor
	1				3	4	5	6
	(kW	7)	,		(kW)	(Millions)	%	
U p to 250				7	630	0 · 275	1.3	5.0
251 to 500		• •		5	1,745	1 · 833	4.3	12.0
501 to 750	- •			9	5,678	8.030	3⋅7	16.
751 to 1,000	•			3	2,800	2 · 079	3.3	8.5
1,001 to 2,500				10	17,216	17 · 187	6.5	11.4
2,501 to 5,00 0				12	45,808	124 · 088	9.5	31 · 3
5, 001 to 10,000		• •		9	70,275	130 · 565	11.5	21 - 2
10,001 to 25.000	• •			20	313,255	846 849	14·1	30 · 9
25,001 to 50,000				7	263,500	836 · 603	19.8	36-2
Over 50,000				10	1,037,850	4,074·945	22·4	44 - 8
		Total		92	1,758,257	6,042 454	19.2	39 - 2

M/B2CWPC(PW)—6

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

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

Generating Plant Capacity		No. of generating stations	Aggregate installed capacity	Total kWh generated by the group	Fuel consumption in metric tons	Fuel consumption Kilogrammes kWh Generated	Average plaut factor	
(k	(W)			(kW)	(Milijons)		Generated	
Up to 100			149	6,040	9.096	3,919 9	0.48	17.2
101 to 250			147	22,552	21 · 135	7,848 · 4	0.37	10.7
251 to 500			119	41,488	39 - 617	15,141.9	0.38	10.9
5 01 t o 750			54	33,904	29 · 748	9,836.8	0.88	10.
751 to 1,000			28	24,219	27 · 152	8,475.0	0.81	12.1
,001 to 2,500		}	51	77,290	80 397	23,904.5	0 30	11
501 to 5,000			11	35,532	33 · 428	9,231 · 6	0·28	10
Above 5,000)	• •	•• [1	6,960	13.879	3,671 · 1	0.26	22 -
Tot	al	[560	247,985	254 · 447	82,024 · 2	0.32	11 -7

MAXIMUM DEMAND OF POWER SYSTEMS

The sum of the highest annual maximum demand on individual system of public electric utilities. amounted to 2,288,212 kW which was 70·7 per cent of the total plant capacity as against 68·9 per cent in the previous year. The aggregate demand in the public and private sectors were 71·9 and 68·9 per cent respectively of the installed capacity in each sector as against 66·8 per cent and 71·9 per cent respectively in the previous year.

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

TABLE XXVIII—CLASSIFICATION OF UNDERTAKINGS IN TERMS OF MAXIMUM DEMAND

•	į	,		Private Sector								
Washing days and an	Government					over oration Munic		cipality Co		mpany	Total	
Maximum demand on Generating Undertakings (kW)	Number of under- takings owning generat ing sta- tlons	Aggre- gate maxi- mum demand	Number of under- takings owning generat- ing sta- tions	Aggre- gate maxi- mum demand	Number of under- takings owning generat- ing sta- tions	Aggre- gate maxi- mum demand	Number of under- takings owning generat- ing sta- tions	Aggre- gate maxi- mum demand	Number of under-takings ewning generating stations	gate maxi- mum demand	Number of under- takings owning genert- ing sta- tions	Aggre- gate maximum demand
(1)	(2)	(8)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Upto 80 51 to 250 251 to 800 501 to 1,000	24 51 12 7	698 2,787 5,649 6,484	70 60 9	1,306 6,889 3,080 6,689		 	8 4 5	60 444 1,592	27 62 26	612 9,288 6,409	129 177 52	2,676 19,408 16,680
1,001 to 2,500 2,501 to 5,000 5,001 to 10,000 10,001 to 25,000	6 1 2	10,782 26,669 18,100 40,950	2 8 3	2,500 27,545 20,170	1	3,524	1 1 3	520 1,940 9,052	16 13 5 5	11,824 18,152 19,912 45,600	. 38 18 23 9	25,467 38,874 86,702 76,870
25,001 to 50,000 50,001 to 100,000 Over 100,000	3 3	115,870 212,622	2 3 4 2	29,480 187,804 800,960 268,849	:: :: :: ,		••	- · · ·	8 1	37,550 27,150	7 7 7	107,980 280,324 513,582
Total	111	485,561		804,822	<u>2</u>	145,000	28	18,608	181	709,200 885,697	468	1,123,149 2,388,312

358 undertakings or 76.8 per cent of the total 468 generating undertakings registered annual maximum demand each of 500 kW or less. The annual maximum demand in excess of 10,000 kW were in cident on only 27 undertakings (i.e. 20 in the public sector and 7 in the private sector) which together met about 88.8 per cent (54.9 per cent in public sector and 33.9 per cent in private sector) of the total demand for power in the country. Out of these 27 undertakings only 3 undertakings in the public sector and 3 in the private sector on which the incident demands were above 100,000 kW together met about 49.3 per cent of the total All-India demand for power.

CLASSIFICATION OF UNDERTAKINGS ACCORDING TO SCALE OF POWER GENERATION

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

TABLE—XXIX—CLASSIFICATION OF UNDERTAKINGS ACCORDING TO KWH GENERATED

				Publ	la Seeto	r			Pri	vate Sector		Total	
	Go	Government		Board		Power Corpora- tion		Municipality		Company			
Million kWh Generated	No. of under- tak- ings	Total kWh generated by the group	No of under- tak- ings	Total k W h generated by the group	No. of under- tak- ings	Total kWh generated by the group	No. of under- tak- ings	Total kWh generated by the group	No. of under- tak- ings		No. ci under- tak- ings	Total kWh generated by the group	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
		Millions		Millions		Millions		Millions		Millions		Millons	
Uрно 0-250	67	3 - 654	102	7 · 928			11	0.594	57	4 684	287	18.840	
0 · 251 to 0 · 500	9	3· 743	17	7· 456		••	••		24	8·9 76	50	20-175	
0.501 to 1.000	6	444 2	13	10 - 078			3	2 · 110	25	17 · 172	47	38 · 802	
1.001 to 2.500	14	25.417	11	22 536			4	5 429	19	32 · 292	48	85 · 604	
2.501 to 5.000	2	7.581	5	15 · 815		••		••	13	42-470	20	6 5 · 8 66	
5.001 to 10-000	4	28.720	2	24 · 899	1	8 · 173	2	14 - 895	6	39 · 422	15	116 - 109	
10.001 to 25.000	. 3	95 · 363	6	94 · 050			2	26 · 462	4	59:978	15	275 853	
25.001 to 50.000	2	83-950	4	200 · 483		••		.,	5	286 - 368	11	520·7 96	
50.001 to 100-000	1	69 - 990	1	91 - 631					3	192 - 754	5	354 - 375	
100·001 to 250·000	5	975·229	3	718 · 498			}		1	138-000	9	1,828 - 617	
250 · 001 to 500 - 000	1	472-435	3	805-615			}			••	4	1,278 - 050	
500-001 to 1,000-000			3	2,108 107	1	894 - 715			1	685 · 082	5	3,687 - 904	
1,000 · 000 and above					.				2	8,086 - 951	2	8,086 · 951	
Total	114	1,770 - 524	170	4,107 - 098		902 - 888	22	49 490	150	4,589 · 144	408	11,869 - 149	

Only 20 undertakings (4 in the private and 16 in the public sector) generated each in excess of 100 million kWh and together accounted for about 87.3 per cent of total electricity produced in the country. The remaining 448 undertakings generated 12.7 per cent of the total energy output.

M/B2CWPC(PW)—(a)

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 capa- city of gene- rating plant	kWh generated	Aggregate of maximum demands of individual generating stations	kWh generated per kW of plant capacity	Combined load factor based* on Col. (3) & (4)	Plant deman factor	
			(kW)	(Millions)	(kW)	(kWh)	%	%	
	(1)		(2)	(3)	(4)	(5)	(6)	(7)	
		.		· .				,	
Steam			1,763,257	6,042 · 454	1,184,229	3,427	58·2	67 2	
Oil	••		245,935	254 · 447	101,559	1,085	28.6	41 · 3	
Hydro	•		1,213,919	5,072 · 241	1,002,424	4,178	58.0	82 6	
	Total		3,223,111	11,369 142	2,288,212	3,527	56 · 7	71.0	

^{*}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 remained at 58.2 per cent as in the previous year and that for the hydro stations improved from 55.6 per cent in the previous year to 58.0 per cent in the current year. A few large steam stations, operated at load factors from 56 to 64 per cent whereas in hydro stations the average load factors ranged from 46 to 86 per cent.

The All India average annual output per kW of installed plant capacity of hydro-plant increased from 4,046 kWh in 1956 to 4,178 kWh during the year.

The All-India average plant demand factor in hydro stations was 82.6 per cent and continued to be higher than that in the steam stations. The plant demand factor in the steam stations improved from 63.1 per cent in 1956 to 67.2 in the current year.

VOLTAGE OF GENERATION

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

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

TABLE XXXI—CLASSIFICATION OF UNDERTAKINGS ACCORDING TO VOLTAGE OF CENEFATION

		(I—CLASSIFIC					lic Sect	or			Priv	vate Sector		
			Government		State Electri- city Board		Power Corpora-		Municipality		Company		Tota)	
Serial No.	A.C. or D.C.	Voltage of generation	Number of under- tak- ings own- ing gene- rating sta- tions	1 gate	Num- ber of under tak- ings own- ing gene- rating sta- tions	l gate -installed capacity kW	Number of under takings owning generating stations	gate installed capacity kW	Num- ber of under- tak- ings own- ing gene- rating sta- tlons	gate installed capacity	Num- ber of under- tak- ings own- ing gene- rat ing sta- tions	gate installed capacity kW	Number of under-tak-ings own-ing generating sta-tions	installed capacity kW
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
] 1	A.C. 3 phase	33 kV.				.				•••	1	280,000	1	280,000
2	A.C. 3 phase	11 kV,	17	461,425	17	685,608	2	174,000	••		4	412,500	40	1,688,533
3	A.C. 3 phase	8 to 8 8 kV.	11	188,510	7	87,748		. .	2	11,360	9	253 ,926	29	519,544
4	A.C. 3 phase	5 to 5-5 kV.	••	١	2	70,750	••				í	142,000	3	212,750
5	A.C. 3 phase	3 to 3.5 kV.	16	71,121	21	49,573			5	7,102	43	126,201	85	253,997
6	A.C. 3 phase	2 to 2 35 kV	4	6,700	6	63,674					3	5,689	18	76,068
7	A.C. 3 phase	500 V									2	471	2	471
8	A.C. 3 phase	400 to 460 V.	106	68,020	128	44,347			16	5,310	138	51,202	388	168,879
9	A.C. 1 phase	230 V	4	525	1	156			1	145		••	6	826
10	D.C. 8 wire	490 to 500 V.	8	1,871	4	1,830	••				2	637	9	3,838
11	D.C. 3 wire	440 to 480 V.	13	2,649	23	4,572			1	162	26	12,546	63	19,929
12	D.C. 2 wire	220 to 240 V.	4	1,470	28	1,468			2	46	5	183	34	3,167
13	D.C. 2 wire	110 to 115 V.	2	75	1	80					1	9	4	114
		Total	180 7	79,866	283 8	159,758		74,000	27	24,125	235 1	1,285,364	677	3,223,111

FREQUENCY OF A.C. POWER SUPPLY

About 98.2 per cent of the total A.C. plant installed in the country generated power at 50 cycles frequency. The remaining 1.8 per cent of plant (owned by two undertakings only) generated power ! at frequencies other than 50 cycles. In the Mohora power station of the Kashmir Government and Shiwasamudram and Shimshapura power stations of the Mysore Board power is generated at 25 cycles only.

CLASSIFICATION OF UNDERTAKINGS IN TERMS OF SYSTEM OF SUPPLY.

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

TABLE XXXII—CLASSIFICATION OF UNDERTAKINGS IN TERMS OF SYSTEM OF AC, & DC.

			Division of total					
Syste	am of supply	Number of undertakings	Public authority undertakings	Company undertakings				
A.C. only	·	••	•• ,	••		618	375	248
A.C. & D.C.	••	••	••			37	24	13
D.C. only	٠٠.	••	••	••		100	65	35
				Total		755	464	291
Standard frequency (50 c	ycles per second)	••		••		654	398	256
Non-Standard frequence	ies—							
(25 cycles per second)		<i>4</i>	• •	• •	• •	2	2	, ••
				Total		2	2	
			Grand	Total		656	400	256

Although the total number of A.C. undertakings are only 655 (618 plus 37), there is an increase of one number due to the fact hat Mysore State has been counted twice as it had two different frequencies of supply.

-	
SECTION 2	
TOWNS AND VILLA	GES ELECTRIF
33—34	
	FRANSMISSION LINI , TOWNS AND VILLA

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

TRANSFORMERS

Table XXXIII gives the number of transformers and their installed capacity in the different states. There were 781 step-up power Transformers of aggregate capacity 2,423,457 kVA, 1,458 Step-down power transformers of aggregate capacity of 4,443,808 kVA and 37,368 Distribution Transformers of aggregate capacity 2,253,072 kVA. The total transformer capacity installed in all the Power Systems in India amounted to 9.120 million kVA. Transformer capacity increased by 28.0 per cent over that in the previous year as compared to 11.7 per cent increase of generating plant capacity.

TABLE XXXIII—TRANSFORMER CAPACITY AS ON 31-8-1958

			ľ	•	Power Transi	formers		Distributing 1	ransformer
Serial No.	States & Union Te	rritories		Step-up	,	Step-	Down		
				Nos.	Aggregate capacity kVA	Nos.	Aggregate capacity kVA	Nos.	Aggregate capacity kVA
1	Andhra Pradesh	••		38	58,743	119	176,300	1,705	141,30
2	Assam	••	}	7	10,950	. 4	3,400	40	4,67
8	Bihar	••		50	353,075	94	595,700	2,128	66,14
4	Bombay State	• •	[156	737,640	803	1,014,307	2,160	491,85
5	Jammu and Kashmir	• ••		4	8,100	2	7,500	255	8,66
6	Kerala	••		15	133,280	64	100,817	2,302	136,94
7	Madhya Pradesh	••		47	26,132	20	13,475	662	48,12
8	Madras State	••		35	208,930	280	627,640	6,568	463,37
9	Mysore State	••		113	257,986	188	339,342	11,866	200,60
10	Orissa	••		22	148,750	25	246,450	128	17,54
11	Punjab	••	[45	173,012	89	182,854	2,620	227,01
12	Rajasthan	••		67	18,240	19	9,275	368	38,81
13	Uttar Pradesh	••		140	171,202	104	106,931	5,625	208,550
14	West Bengal	••		37	112,740	132	965,917	622	94,98
15	Union Territories—		ĺ			1	J		
- }	(a) Andaman & N	icobar Is	lands	2	500			9	500
	(b) Delhi State	• •		••		18	53,500	251	99,088
1	(c) Himachal Prad	lesh			. ·· [9	260
	(d) Manipur	••		1	127			7	278
	(e) Pondicherry	••		2	4,050	2	400	48	4,850
	To	ial		781	2,423,457	1,458	4,443,808	37,368	2,253,072

IMPORTANT POWER TRANSFORMERS COMMISSIONED DURING THE YEAR ENDING 31-3-1958

ASSAM

- $1 \times 10{,}000$ kVA, $3 \cdot 3/33$ kV at Umtru.
- $1 \times 2{,}000$ kVA, 33/11 kV at Umtru.
- $1 \times 1,000$ kVA, 33/11 kV at Umtru.

BOMBAY

- $1 \times 2,000$ kVA, 33/11 kV transformer at Kolhapur.
- $1 \times 3,000$ kVA, 66/11 kV at Nadiad.
- $2 \times 4,000$ kVA, 66/33 kV at Anand.
- $2 \times 4,000$ kVA, 33/11 kV at Petlad.
- $1 \times 1,000$ kVA, 0.4/11 kV at Porbander.
- $2\,\times\,16{,}600$ kVA, 100/23/11 kV at Poona.
- $2\,\times\,30{,}000$ kVA, 5/100 kV at Bhivpuri.

KERALA

 $3 \times 10{,}000$ kVA, 11/66/110 kV at Pallivasal, Sengulam & Poringalkuthu generating stations.

MADRAS

- $2 \times 1,000$ kVA, 33/11 kV in place of 2,500 kVA replaced at Chingleput.
- 2 \times 1,000 kVA, 33/11 kV transformer in place of 2 \times 500 kVA replaced at Wallajabad.
- $1\,\times\,3,\!000$ kVA, 33/11 kV at Tondiarpet sub-station.
- $2 \times 3,000$ kVA, 33/11 kV at Mount Road sub-station.
- $1 \times 1,500$ kVA, 33/11 kV at Kothambathur.
- $1\,\times\,1,\!500$ kVA, 33/11 kV at Kodambakham.

$UTTAR\ PRADESH$

- $2\times3,000$ kVA, and $1\times1,500$ kVA $6\cdot6/33$ kV at Mau.
- $1\,\times\,1,\!500$ kVA, 33/II kV at Rasha sub station.
- $1\,\times\,1,\!500$ kVA, 33/11 kV at Ballia sub station.
- $2 \times 5{,}000$ kVA, $1 \times 3{,}000$ kVA, $1 \times 1{,}500$ kVA and 2×750 kVA $6 \cdot 6/37 \cdot 5$ kV at Mainpuri.

WEST BENGAL

- $1 \times 7,500$ kVA, 33/11 kV in place of $1 \times 3,000$ kVA replaced at Dishergarh.
- $1 \times 7{,}500$ kVA, 33/11 kV at Kumardhubi sub station.

TRANSMISSION LINES

Table XXXIV gives the total circuit kilometers of transmission lines grouped under various voltages between 2·2 kV and 132 kV as on 31st March, 1958.

TABLE XXXIV—TRANSMISSION LINES

37

2 Assam 13-2 10-9						<u>, </u>	Length of	Transmissi.	on Lines i	n Circui	t Kilometr	45 AL QB	81-8-1958	į.		=
Lories O.H. U.G. O.H. U.G. O.H. U.G. O.H. U.G. O.H. U.G. O.H. U.G.	١	States	4	В	elow 11 l	kV							- -			
Andars Local Loc	1		3.	2/8 - 8 kV	5	6-8 kV		11 kV	'	82 kV	∫ 8	8 kV				
Pradeth 13-2 10-9 28-5 5.5 1,749-1 0-6 8-0 103-0 28-5 29-0 .		tories	J.0.E	I.). O.H	ι. υ.σ	i. 0.1	. V.G	. 0.1	a. D	.G. O.E	i. v.	/		NV	kV
2 Assam 13.2 10.9 26.6 26.6 29.0 29.0 29.0 29.0	1			8 14	0 206	6 185	6 4,186	.4 5.	5		. 1,740	1 0.	6 8.0) 108.0		1,587
S Bibar 77.7 24.5 250.8 50.8 3.692.8 38.3	2	Assam	18	2 10	9		26	. 5		-	1				1	1,001
Size Size	8	Bihar	77	7 24.	5 250	8 50	J	·]	.	- (٠, ١,			••	
5 Jammu	4		586 ·	0 806	2 297	_	J -	1] ''	_ }	- 1	_ ''		J		1,724
Mir	5	Jammu		5 O·	8 28.	δ					}			1	1,858 - 5	
7 Madhya 166 2 158 3 111 5 22 2 488 2 20 6 22 5 267 6 261 8 364 3 265 8 8 Madras 49 4 218 7 183 2 208 8 8,376 1 178 6 4,052 2 6 8 1,124 4 18 0 2,430 9 1,340 3 9 Mysore 1,065 5 18 5,113 9 182 8 5,173 4 50 5 74 0 44 1 568 5 1,486 1 1,684 7 10 0 crissa 107 6 8 0 52 0 24 1 287 0 15 3 99 1 128 7 128 7 110 0 crissa 107 6 8 0 52 0 24 1 287 0 15 3 99 1 128 7 128 7 128 7 128 7 128 7 128 7 128 7 128 7 128 7 128 7 128 7 128 7 120 6			}				Ì					٠٠. ا	•	112-6		
7 Madhya 166.2 158.3 111.5 22.2 488.2 20.6 22.5 267.6 96.5	_	1		_		6 11.	8 3,904	6 7 - 2	182	o	41 - 1	3	1	1 240 . 0	n=-	
8 Madras 49-4 218-7 163-2 208-8 8,376-1 178-8 4,052-2 6-8 1,124-4 18-0 2,480-9 1,340-3 9 Mysore 1,065-5 1-8 5,113-9 189-8 5,173-4 50-5 74-0 44-1 568-5 1,488-1 1,684-7 10 Orissa 107-5 8-0 52-0 24-1 287-0 15-8 99-1 1,390-1 128-7 170-6 1,7	7		166.	2 158	8 111.	5 22.	2 488	2 20 - 6	23.	5	1		1	1		
9 Mysore 1,065.5 1.8 5,113.9 182.8 5,173.4 50.5 74.0 44.1 568.5 1,488.1 1,684.7 10 Orissa 107.6 8.0 52.0 24.1 287.0 18.3 99.1 128.7 128.7 12 Rajas- 280.8 81.7 286.8 17.1 279.8 2.1 75.6 170.6 170.6 13 Uttar Pradesh 69.8 56.6 165.6 1,237.3 1,086.8 55.5 61.8 958.3 361.2 75.6 167.3 165.2 249.4 110.7 108.7 61.8 958.3 361.2 75.6 167.3 108.2 249.4 110.7 108.7 108.7 108.2 24.1 108.7 108.2 24.1 108.7 108.2 24.1 108.7 108.7 108.2 24.1 108.7 108.7 108.2 24.1 108.7 108.7 108.2 24.1 108.7 108	8		49-	218	7 163-:	2 208 4	8 8,376	1 178.6	4,052 2	8 6.	8 1,124 · 4			1		••
10 Orissa 107.6 8.0 52.0 24.1 287.0 15.8 99.1 128.7 128.7 1 128.7 1 128.7 1 128.7 1 128.7 1 128.7 1 128.7 1 128.7 1 128.7 1 128.7 1 128.7 1 129.8 12.1 1 1 1390.1 170.6 170.6 170.6 128.7 1 170.6 128.7 1 129.8 12.1 1 170.8 170.8 13 Uttar Pradesh 205.2 291.0 276.7 310.9 11,221.3 48.0 62.8 0.2 925.2 1,886.7 1,488.4 14 West Bengal 89.8 56.6 165.6 1,237.3 1,036.8 55.5 61.8 958.3 861.2 75.6 167.3 15 Union Territorites (a) An	9	Mysore State	1,065 - 5	1.8	5,118 - 9	182 - 8	5,178 - 4	50.5	74.	0 44.	568-1	,		1,488-1		,.
11 Panjab 57.3 39.7 8.9 7.4 7,180.0 21.2 1,390.1 170.6 12.7 1 170.6 1 170.6 1 170.6 1 170.6	10		107 - 6	8-0	52 ·0	24 · 1	287 (15.8	1		99.1					, ,-
12 Rajas 280-8 81-7 286-8 17-1 279-8 2-1 75-6 170-6		i	57 - 8	39.7	'	7.4	7,160 · 0	21.2	1	-		-	}] " "		418-3
13 Uttar Pradesh 205-2 291-0 278-7 310-9 11,221-3 48-0 62-8 0-2 925-2 1,886-7 1,488-4 14 West Bengal 69-8 56-6 165-6 1,287-3 1,036-8 55-5 61-8 958-3 361-2 75-6 167-3 15 Union Territorics (a) Andaman 6. Nicobar (b) Delhi State (c) High 106-2 249-4 110-7 108-7 40-4	[2		280 · 8	81.7	286-8	17-1	279 - 8	3 2.1		.	, '		J	170.6	••	2,057 · 1
14 West Henga! 69.8 56.6 165.6 1,237.3 1,036.8 55.5 61.8 958.3 361.2 75.6 167.3 15 Union Territories (a) Andaman & Nicobar (b) Delhi State (c) Himachal Pradesh (d) Mannipur (e) Pondicherry 9.5 0.2 1.0 1.0 73.7	18		205 - 8	291.0	276 · 7	310 · 9	11,221	3 48·0	62.8					,		
15 Union Territories	4		69.8	56.6	165-6	1,287 · 8	1,086 - 1	55.5		61 · 8	958-8	861 · 2	75.6			841 · 1
daman & Niso-bar (b) Delhi State (c) Hi-machai Pradesh (d) Manipur (e) Pondicherry 9-5 0-2 1-0 73-7	5	Territo-														400 7
State		daman & Nico-			7.2									 		
(c) Hi-machai Pradesh (d) Ma-nipur (e) Pon-dicherry 9.5 0.2 1.0 73.7			••		106 - 2	249-4	110.7	100 · 7			40-4					
nipur (e) Pon-dicherry 9.5 0.2 1.0 73.7	1	machai	••		· ·		88.8		24.1						1	.,
(e) Pondicherry 9.5 0.2			••		25 · 7										,	
		e) Pon- dicherry	9.5	0.3	••]	1.0		78 · 7				1			••
Total 3,048 5 1,218 2 7,049 5 3,057 5 48,106 5 1,306 9 4,975 6 428 0 9,547 5 379 8 2,087 6 8,405 6 4,687 8 6.6	,	Fotal 8,	048 - 5	1,218 - 2	7,048 · 5	3,057 · 5	49,106.5	1,306.9	- 4,975 · 6	498.0	Q 547. E	970.0	9.007			

At the end of the year 1957-58 there were 10,098 kilometres of overhead transmission lines operating on voltages below 11 kV, 49,107 kilometres of 11 kV, 4,976 kilometres of 22 kV, 9,548 kilometres of 33 kV and 21,753 kilometres above 33 kV, and upto 132 kV. The length of underground cables were 4,271 kilometres below 11 kV, 1,307 kilometres of 11 kV, 423 kilometres of 22 kV and 380 kilometres of 33 kV.

IMPORTANT TRANSMISSION LINES COMMISSIONED DURING THE YEAR 1957-58

ASSAM

29 kilometres of 33 kV line and 27 kilometres of 11 kV line at Gauhati.

RIHAR

- 21 kilometres of 11 kV line and 40 kilometres of 33 kV line at Bihar Shariff.
- 10 kilometres of 11 kV line at Deoghar.
- 61 kilometres of 11 kV line at Jamshedpur.
- 14 kilometres of 11 kV line from Mirganj to Gopalganj.
- 13 kilometres of 11 kV line near Sheikhpura.
- 11 kilometres of 11 kV line at Sijua.

BOMBAY

- 32 kilometres of 33 kV line and 127 kilometres of 11 kV line at Kolhapur.
- 35 kilometres of 66 kV line from Utran to Navsari and 53 kilometres of 11 kV line at Utran.
- 24 kilometres of 11 kV line at Manayadar.
- 10 kilometres of 11 kV line at Morvi.
- 14 kilometres of 11 kV line at Nakhtrana.
- 56 kilometres of 33 kV line and 18 kilometres of 11 kV line at Anand.
- 130 kilometres of 11 kV line at Nadiad.
- 37 kilometres of 11 kV line at Palitana.
- 16 kilometres of 11 kV line at Poona.
- 10 kilometres of 11 kV line from Nesdi to Chalala.
- 43 kilometres of 11 kV line from Pimpri to Malavali.
- 159 kilometres of 22 kV underground cable and
- 217 kilometres of 22 kV Overhead line of Tata Hydro Electric Company.
- 16 kilometres of 33 kV line from Anand to Petlad.
- 21 kilometres of 11 kV line from Bulser to Dharampur.
- 29 kilometres of 11 kV line at Keshod.

KERALA

101 kilometres of 66 kV line and 505 kilometres of 11 kV line.

MADRAS

32 kilometres of 11 kV line at Vellore by Vellore Electric Supply Company Ltd.

MADHYA PRADESH

- 42 knometres of 33 kV line from Bhopal to Bavragarh and to Schore.
- 32 kilometres of 11 kV line at Champa.
- 58 kilometres of 11 kV line at Piparia.

ORISSA

14 kilometres of 11 kV line from Chhattarpur to Humme.

PUNJAB

- 146 kilometres of 33 kV line in Uhl River Hydro electric scheme.
- 232 kilometres of 33 kV line in Nangal Power Project.
- 506 kilometres of 11 kV line in Uhl River Hydro Electric schemes.
- 1,353 kilometres of all 11 kV line in Nangal Power Project.

UTTAR PRADESH

- 266 kilometres of 11 kV line at Mau.
- 106 kilometres of 37.5 kV and 34 kilometres of 11 kV line at Mainpuri.
- 100 kilometres of 33 kV line at Sohwal.

UNION TERRITORIES

- 35 kilometres of 11 kV Overhead line at Delhi.
- 21 kilometres of 33 kV line at Pondicherry.

TOWNS AND VILLAGES ELECTRIFIED

Electricity supply was continued mostly within the Municipal limits of the cities, towns and townships in case of 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 State, Punjah, Andhra Pradesh, Bombay State, Mysore State and Bihar.

The number of towns and villages electrified are arranged in Table XXXV. There were in all 12,554 towns and villages electrified at the end of the year.

TABLE XXXV—NUMBER OF TOWNS AND VILLAGES ELECTRIFIED

Serial No.		Popu	dation R	nnge			Number of Towns or Villages in each group	Number of Towns and Villages with Public Electricity Supply	Percentage of Town and Villages with Public Electricity Supply to total
1			2				8	4	5
1	Over 100,000	••	••	••			78	78	100.00
. 2	50,000 to 100,000		••	••	••	•.	112	112	100.00
ž	10,000 to 5 0,000		••	••	••	••	1,257	912	72.76
4	Below 10,000	••	••			••	559,666	11,467	2.05
							561,108	13,554	2 · 24

CONSUMER AND CONNECTED LOAD

The total number of consumers and their connected load as on 31-3-1958 in the various states are given in Table XXXVI and Table XXXVII respectively.

TABLE XXXVI-CLASSIFICATION OF CONSUMERS AS ON \$1-8-1958

40

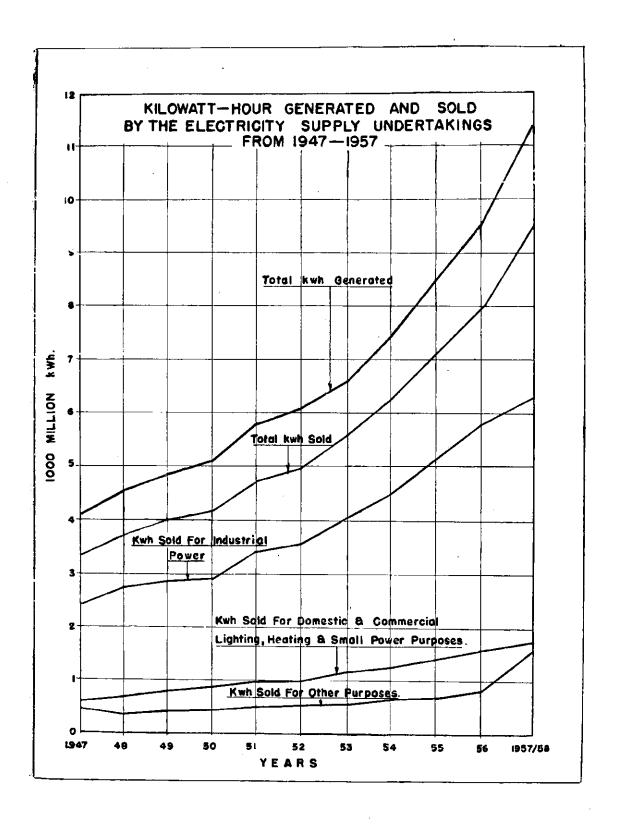
						Segrega	tion of nu	mber of co	D#####	78				
Beris! Mo.	States & Union Territories	dentis	ile & Resi- il light & Il power	Light	merciaj : & small ower	includ tractio	irial Power ing electric n & Pub- sier Works	Ligi	olle hting	Irriga	ation		umber of sumers	Grand Total
	-	AC	DC	AC	DÇ	AC	DC	AG	DC	AC	DC	AC	DC	
1	Andhra Pradesh	165,38	5	22,113		5,108	• • •	777		7,829		201,21	8	201,21
2	Assam	7,050	2,885	846	1,655	92	78	14	4			8,00	3, 97	2 11.974
3	Bibar	60,529	6,714	4,592	1,750	3,363	197	58		-		1	-,	1 -
4	Bombay State	516,757	80,788	145,948	10,892	30,648	1,890	618	58		71	[
5	Jammu and Kashmir	86,802		4,760		535		2	•••	40		42,189		42,189
6	Kerala State	79,000	16	19,838		3,687		308		925		103,758	1	103,774
7	Madhya Pradesh	62,028 	7,661	17,681	1,157	8,713	226	118	27	624	17	84,114	9,081	93,202
8	Madras State	848,814	11,824	56,936	8,674	15,504	184	1,614	5	52,526		474,894	15,18	490,081
9	Mysore State	230,784	1,789	14,202	815	11,971	20	315	5	11,377	2	268,599	2,381	270,980
10	Orissa	6,412	8,489	1,785	605	179	167	26	6		.,	8,402	4,217	12,619
1	Punjab	200,457	5,224	90,583	5,826	9,771	442	189	8	7,207		808,207	11,495	
2	Rajast han	61,384	2,123	13,729	1,046	3,250	83	62	7	862	14	79,227	8,278	1
3	Uttar Pradesh	122,967	48,658	81,051	19,083	10,906	1,884	104	11	818	27	165,846	69,608	-
4	West Bengai	124,776	207,548	13,078	887	7,913	8,723	126	13	5		145,898	217,171	363,089
5	Union Territor- ies—	,												
	(a) An- damans & Nico- bar	1,091		13		13		5	**		••	1,122		1,122
	(b) Delbi State	80,620	84,048	19,859	11,207	4,285	201	71		13	••	104,298	45,451	149,749
	(c) Hima- chal Pradesh	607	484	390	864	209	8	7	2			1,218	808	2,031
	(d) Madi- pur	1,014	ļ			59		1	}			1,074	,,	1,074
	(e) Pon- dicherry State	5,714		548		133		10		452	••	6,852	••	6,852
	(f) Tri- pura	403		358	• .	27		1				789	••	789
1	Fotal :	2,111,994	382,036	457,755	58,111	111,811	14,108					,		
<u> </u>		<u> </u>	<u> </u>		^		**,144	4,409	140	87,515	184	2,772,984	484,524	3,207,50

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TABLE XXXVII-CLASSIFICATION OF CONNECTED LOAD AS ON 31-8-1958

						Segre	gation of c							_
Serla) No.	States & Union Territories	deni an	stic & Res ital Light d smai(power	Li	nmercial ght and all power	inei inei elestric Public	ustrial ower uding traction s Water Works		iblie hting	Irri	gation		otal	Gran Total
		AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	_
1	Andhra Pradesh	87,184		40,258		129,262		6,239		29,580		292,467	-	292,44
2	Assam	4,983	1,369	1,028	1,025	3,547	772	225	69					
8	Blhar	36,002	8,454	6,252	1,295	168,180	1,789	-		1	4	8,783	, .,	,
4	Bombay	815,598	15,652	448.00						, ,,,,,,		217,756	6,587	224,29
5	State Jammu &	3,174	,	,	"," "	• • • • • • • • • • • • • • • • • • •	1	7,078	405	19,225	288	1,292,349	50,668	1,348,0
	Kashmir	J,274		978		3,150		92		283		7,672	.,	7,67
6	Keraja	35,918	12	10,333		96,697		1,480		14,104		158,532	12	450.54
7	Madhya Pradesh	80,790	8,813	11,817	808	56,938	1,421	1,172	176	1,728	128	101,940	6,140	108,08
8	Madras State	188,912	5,880	61,828	5,189	828,828	2,000	6,467	7	207,748		787,778	13,076	800.85
9	Mysore State	103,270	363	12,914	295	284,229	120	7,653	47	49,123	7	4 57,189	832	458,02
10	Orissa	2,848	2,217	1,489	616	8,515	554	140	83	ĺ		7,942	8,470	4
1	Punjab	84,238	5,522	49,387	5,874	131,478	2,666	2,019	204	41,928		809,045	13,766	11,41
2	Rajasthan	34,854	1,055	10,826	450	29,188	627	2,191	99	4,164	58	81,218	2,289	822,811 88,507
8	Uttar Pradesh	64,789	80,795	28,488	20,822	178,944	12,259	2,240	687	47,872	282	821,833	64,825	386,658
4	West Bengal	114,519	260,833	8,095	498	546,792	54,905	2,543	2,645	1,866		678,815	318,881	992,696
5	Union Territories (a) Anda- mans & Nicobar	482	••	29	••	500		9		••		1,030		1,020
	(b) Delhi State	52,124	19,485	27,944	12,102	89,759	8,842	1,487	155	2,205		123,519	35,064	158,583
ļ	(c) Hima- shal Pradesh	611	241	264	120	242	85	17	12			1,184	408	1,542
	(d) Mani- pur	870			••	882		9			.,	761		761
	(e) Pondi- cherry State	8,371	••	270		5,585		229		2,508		11,914	}	11,914
	(f) Tripura	815	.,	219		119		12	}					
Ì	Total 1	,159,847	359,47i	 .	56,724		195,688].				665]	665
						-34 44300	14v,400	61,906	4,614	428,492	756	4,857,332	519,198	5,876,530

The total number of consumers as on 31-3-1958 was about 3.208 million as compared to 2.826 million in the previous year. The number of new connections during the year was 381,706 showing an increase of 13.5 per cent over the number of consumers as at the beginning of the year. The corresponding connected load increased from 4.724 million kW to 5.377 million kW or 13.8 per cent during the year.



DISPOSAL OF ENERGY GENERATED AND PURCHASED

Table XXXVIII 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 XXXVIII-TOTAL ENERGY GENERATED, PURCHASED AND SOLD

erial No.	Item.					kWh (Millions)	Percentage of total gross supply
1	kWh Generated			••		11,369 · 142	.99-1
2	kWh purchased from non-utilities		• •			40.398	0.4
3	Gross kWh for public supply	• •	••			11,409.540	100 · (
4	kWh used in power station auxiliaries	••		••		455 · 538	4.
5	Net kWh for public supply	••	••			10,954 · 002	96 - (
6	Total kWh sold to ultimate consumers	••	••			9,430 · 097	32 ·
7	kWh lost in transmission, distribution and un-accoun	nted for		••		1,523 905	13.

TABLE XXXIX—ENERGY SALES BY CLASS OF UTILIZATION

Serial No.	Cla	tilization			kWh sold (millions) 1957/58	Percentage of total sales in 1957/58	kWh sold (millions) 1956	Net percentage increase over 1956	
1	Domestic or Reside	ntial li	ghts and s	mall power	. ,.	1,094 · 564	11 · 6	934 · 122	17.2
2	Commercial light a	nd sma	il power	• •		611 · 512	6.5	545·851	12.0
3	Industrial Power	• •		• •		6,229 · 259	66.0	5,323 · 424	17.0
4	Traction	• •	• •	4.		421 - 894	4.5	404 · 925	4.2
5	Public Lighting	• •	••			141 · 402	1.5	117 · 767	20 · 1
6	Irrigation	• •		• •		565·81 7	6.0	316 · 180	79.0
7	Water Works	••		••	••	365 · 649	8.9	317 · 076	15.8
			,	· Total		9,430 · 097	100.0	7,959 · 345	18.5

^{11.6} per cent of total energy was sold to domestic consumers for residential light and power purposes 6.5 per cent to commercial lighting, heating and other small power purposes, 66 per cent to industrial power consumers, 17.0 per cent to traction, public lighting, irrigation and water works. The percentage increase in sales during the year was 17.2, 12.0 and 17.0 for domestic light and power, commercial light and power and for industrial power respectively. The net increase in sales for all classes of utilisation was 18.5 per cent over the sales in the previous year.

MB2CWPC(PW)—8(a)

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

TABLE XL—ELECTRICITY GENERATED AND SOLD IN STATES DURING THE YEAR 1957/58

			kWh i	purchased lions)		kWb sold	within the st	tate (Millions		kWh so		kWh losi
Séria No.	States & Union	Total kWh Generat-	From Non-	From elect- ric	Ву	undertaking own genera	ge with tion			elec- tric	kWh used for	in trans mission and dis
	Territories	ed (Millions)	electric		Direct to own consu- mers	To distri- buting licensees	Total	tributing licensees to consumers	Total kWh sold to uttimate consumer	e joining s states		tribution and un- accounte for (Millions)
1	2	3	4	5	· 6	7	9	9	10	11	12	18
' 1	l Andhra Pradesh	345 · 298	3 · 709	24-435	97 · 395	220 001	317 · 396	177-032	-	- - - -	7.094	91.343
2	Assam	18.070			10.787	7.000	17-787	5.080	15.867		0.503	1 · 700
3	Bihar	1,050 · 868	28 · 844		338 · 856	607-099	945 · 955	116.759	455,615	422 · 231	62 · 950	138-916
4	Bombay State	3,386 · 413	5 · 523		2,066 · 218	955 - 337	3,021 · 555	854 · 414	2,920 632	18-297	139 · 766	313 · 241
5	Jammu and Kashmir	36.332		11.044	39 · 234		39 · 234		39 234		0.506	7 · 636
6	Kerala	441-396		35 · 038	316 · 884	38-836	355 · 720	25.500	342 · 384	19 998	12-935	101-117
7	Madhya Pradesh	187 · 492	0.116	18 · 297	157 · 669	9.932	167-601	15 · 858	173 · 527		18 · 854	13.524
8	Madras State	1,342.006		20 · 576	738 · 722	331 967	1,070 - 689	286 · 227	1,024 949	56 - 939	30 · 041	250·653
9	Mysore State	934-000			786 · 323	15 · 387	801 · 710	3 226	789 - 549	9 927	7.180	127 · 344
10	Orisșa	93 · 220	1.368		54 · 451	30 · 320	84 · 771	8 846	63 297		1.716	29 ¹ 575
11	Punjab	657 · 223			313 657	92 · 143	495-803	38 · 099	351 - 756	136 - 360	5.912	163 · 195
12	Rajasthan	96 · 140	0 · 176		68 - 789		68 · 789	0 · 173	68-962		9 398	17 · 956
13	Uttar Pradesh	872-008	0.662		657 · 668	106.366	784 - 034	95 - 567	753 - 235	ļ ! · · ·	41 - 237	78 · 198
14	West Bengal	1,696 665	••	422 · 231	1,772 073	46 - 913	1,818 · 986	106 - 563	1,878 636		100 · 986	139 - 274
15	Union Territories—											
1	(a) Deihi State	208 · 773		124 - 907	172-908	118-722	291 630	92 · 729	265 · 637		14.515	48 - 528
	(b) Rest	8 · 238		7-802	3 · 255	••	3 · 255	9 · 135	12.390	[1 · 945	1.705
	Total 1	1,369 · 142	40-398	364·330	7,594 · 889	2,580 · 023	10,174 · 912	1,885 208	9,480 · 097	664 330 4	55 - 538	1,523 905

^{*}Includes 22 · 029 millions kWh sold to Pakistan.

The total kWh purchased from the non-electric utilities aggregated to $40\cdot 4$ million kWh and represented only $0\cdot 35$ per cent of the total energy produced by the public electric utility undertakings.

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

TABLE XLI—SEGREGATION OF SALES IN STATES

						Segrega	tion of Tot	alkWh solo	l in Millio	95			
Serial No.	States & Union Territories	Total sold 10 ultimate consumers (kWh) Millions	Domes-	Domes- tic light and fans	Commercial heat and small power	Commer- clal light and fans	Indus- trial power at low and medium voltage	Indus- tiral power at high voltage	Public	Electric traction	Irriga- tion	Public Water works and sewage pumping	kWh generated (Millions)
1	2	3	4	5	6	7	8	9	10	11	12	18	14
1	Andhra Pradesh	274 427	8 · 850	38 · 463	19 152	24 · 929	48 948	93 · 554	12 · 331		19-116	9.084	345 · 298
2	Assam	15 867	1 · 1-06	7 · 523	0.583	2.059	1 · 342	1.304	1 · 701		0.070	0 · 179	18-076
3	Bihar	455-615	2 · 458	32 - 930	1-319	12 - 409	37 · 283	345 · 513	2.642		9.784	11-277	1,050 · 868
4	Bombay State	2,920 · 632	66-016	173 - 532	37 · 678	131 · 094	336 - 651	1,712 672	26 - 401	854 · 748	25 · 997	55 · 848	3,386·418
5	Jammu & Kashmir	39 · 234	0.986	17.786	0 · 181	0.087	10.824	5 · 250	0 · 822		0 · 426	2.942	36 · 332
. 6	Kerala	342 384	3.654	27 · 582	1-415	8 · 011	 36 · 762	246 · 186	4 · 253	l	12 · 216	7 · 805	441·396
7	Madhya Pradesh	173 · 527	2 205	25-556	3 · 821	10 - 353	27.542	76 654	5.717		0.886	20.793	187 - 492
8	Madras State	1,024·949	31 · 250	99.094	37 · 270	35 · 695	111-469	426 - 277	25 - 692	15-947	230 266	11.989	1,342 · 006
9	Mysore State	789 549	17 656	44-173	8 · 626	10 · 651	63.034	545 - 208	14 - 759		21 · 008	64 434	934 000
10	Orissa	63 · 297	1 · 475	10 · 714	1 · 348	3 · 644	4.281	40 · 390	0.714	٠.		0.731	93 · 220
- 11	Punjab	351-756	5 · 733	33 - 270	9 · 563	3 3·6 40	123 - 375	98 · 628	7 · 483		31-131	8 . 933	657 · 223
12	Rajasthan	68 - 962	1.007	13 - 157	2.630	8 · 889	18 - 556	8 · 534	3.814		1.982	15.393	98-140
13	Uttar Pradesh	753 · 2 35	3 · 984	76 · 202	19-900	43 · 839	181 · 751	218 - 851	9.749		203 · 765	4 5 · 194	872-008
14	West Bengal	1,878,636	53-870	226 994	21 - 471	67 - 248	114 - 725	1,249 · 530	17 · 583	50 · 841	0.563	75-811	1,690-685
15	Union Territories—)					1,000 000
	(a) Delhi State	265 · 637	15·398	48-877	18·068	40 · 392	44 · 185	50·408	7 · 141	0.363	5 · 636	35 869	203 · 773
j	(b) Rest	12.390	0.211	8 102	0 · 157	0 · 410	1 · 596	2 · 976	0 · 600		2 · 971	0.367	8 · 238
	Total	9,430.097	215 · 809	878 - 755	183 162	428 · 350	1,112 324	5,116 935	141 · 402	421.894	565·817	365 649	11,369 · 142

PER CAPITA CONSUMPTION

The average per capita consumption of electricity for the Indian Union was 23.97 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 29.00 kWh, with the corresponding per capita generation of 34.97 kWh.

Table XLII gives the annual per capita consumption of electricity as on 31.3-1958 under five classes of utilisation in the various states based on the estimated population figures. The rate of growth of population is assumed to be 1.25 per cent per annum during the decade 1951 to 1960.

Based on the above rate of growth of population, the per capita figures for the previous years were as follows:—

1957/58		$23 \cdot 97 \text{ kWh}$	1953	15.09 kWh
1956		$20 \cdot 70 \text{ kWh}$	1952	13.66 kWh
1955		18.72 kWh	1951	13·25 kWh
1954	1	16.65 kWh.		20 20 R 11 2

The Delhi State showed the highest overall per capita consumption of electricity of 140 kWh followed by West Bengal, Bombay, Mysore and Madras States.

TABLE XLII—ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY
(1957:58)

Serial No.	States & Union	1 Territorie	· ·	Population (Million)	Domestic light & small power per capita kWh	Commercial light & 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
1		2		3	4	5	6	7	8	9
1	Andhra Pradesh	•••		33 · 995	1 . 39	1.30	4 · 46	0.36	0.56	8 · 07
2	Assam	• •	••	9.835	0.88	0.27	0.28	0-17	0.01	1.61
8	Bihar		• •	42 - 178	0.84	0.33	9 84	0.06	0.23	10.80
4	Bombay State			52 · 488	4.56	3.22	46 · 87	0.50	0 · 49	55 · 64
5	Jammu & Kashmi	r	••	4.796	3.90	0.05	3.97	0.17	0.09	8-18
6	Kerala			14.735	2.12	0.30	19.70	0.29	0.83	23 · 24
7	Madhya Pradesh	••		28 · 353	0.98	0.50	4 · 41	0.20	0.03	6.12
8	Madras State			32.598	4.00	2.24	17.35	0.79	7.06	31 · 44
.9	Mysore State	••	••	21.099	2.93	0.91	31 · 88	0.70	1.00	23 42
10	Orissa	• •	••	15 - 928	0.77	0:31	2.85	0.04		3.97
11	Punjab		••	17 · 547	2.22	2.46	13 · 16	0 · 43	1.78	20.05
12	Rajasthan		••	17 · 368	0.82	0.66	2 · 16	0.22	0.11	3.97
13	Uttar Pradesh	•;	••	68 · 747	1 · 17	0.98	5.76	0.14	2.96	10.96
14	West Bengal			28 · 603	9.82	3.10	52 · 12	0.62	0.02	65 · 68
15	Union Territories-	- '		i					;	
	(a) Delhi State	••		1 · 897	33 · 78	30 · 82	68 · 70	3.76	2.97	140 · 03
ĺ	(b) Rest	••		3 · 195	1.04	0.18	1.54	0·19	0.93	3.88
		All India		893 - 362	2.78	1.55	17 · 84	0.36	1 · 44	23.97

TABLE XLIII—AVREAGE PRICE OF ELECTRICITY

Serial No.	Category of sales	kWh* sold in 1957/58 (Millions)	Revenue realised in Rs. (Lakhs)	Revenue realised in Naya Paisa per kWh sold
1	2	3	4	5
1 2 3 4	Residential and Commercial premises for lighting, heating and small power etc. Industries and traction	1,279 5,534 394 7,107	20,79 27,11 2,67 50,57	16·25 4·90 6·78 7·12

The XLIII gives an idea of the average price level of electrical energy during 1957/58 derived from the data collected from the major public utility undertakings covering about 75 per cent of the total power sold to ultimate consumers.

${\bf PROGRESS\ OF\ ELECTRICITY\ SUPPLY\ INDUSTRY\ AND\ INDEX\ OF\ FIGURES}$

The progress of electricity supply and index numbers for the sailent features of the industry are given in table XLIV and XLV respectively.

TABLE XLIV—PROGRESS OF ELECTRICITY SUPPLY

	Installed ca	apacity of ge end of the	enerating pla year	nt at the	Aggregate of M.D. on indiviuadal	kWh	kWh generated per kW of	kWh	Average load factor	Average demand
Year	Steam	Diesel	Hydro	Total	systems during the year	generated	average capacity	sold	based on columns (6) & (7)	factor based on co lumns (5) & (6)
(1)	(2)	(8)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1939 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957/58	kW 540,760 757,457 788,393 852,630 1,004,434 1,097,567 1,176,317 1,393,717 1,491,043 1,546,805 1,596,412 1,763,257	kW 86,790 97,679 107,019 125,468 148,796 162,680 170,259 180,294 209,607 208,529 228,288 245,935	kW 442,169 508,129 515,554 559,079 559,285 575,179 715,179 781,179 793,346 939,483 1,061,441 1,213,919	kW 1,069,719 1,363,265 1,410,966 1,537,186 1,712,515 1,835,426 2,061,755 2,305,190 2,493,996 2,694,817 2,886,141 3,223,111	kW 575,801 882,853 965,780 1,008,000 1,098,314 1,205,194 1,310,651 1,416,350 1,625,123 1,849,672 1,989,774 2,288,212	(Million) 2,442 415 4,073 318 4,575 466 4,909 289 5,106 700 5,858 403 6,120 347 6,697 187 7,521 777 8,592 451 9,662 133 11,369 142	2,283 2,988 3,243 3,194 2,981 3,192 2,969 2,905 3,016 3,189 3,348 3,527	(Million) 2,034 · 636 3,358 · 794 3,721 · 464 4,004 · 716 4,156 · 657 4,793 · 344 5,005 · 682 5,597 · 083 6,252 · 501 7,111 · 011 7,959,345 9,430 · 097	48 · 42 52 · 67 51 · 08 55 · 60 53 · 08 55 · 49 53 · 31 53 · 98 52 · 84 53 · 03 55 · 43 56 · 72	%53.8 64.8 68.4 65.6 64.1 65.7 63.6 61.4 65.2 68.6 68.9 71.0

TABLE XLV—INDEX NUMBERS OF ELECTRICITY SUPPLY

Installed Generating Plant Capacity— (a) Steam Plant				1	1954	1955	1956	1957/58
		100	107 · 3	127.0	185 · 8	140.9	145 · 4	400
(b) Oil Plant	••	100	104.7	110.9	128.9	128.2	140.4	160
(c) Hydro Plant	••	100	124.4	127 · 1	138.0	163 4	184 6	151
Total	}				 -		104.0	211
10(41	•• [100	112.3	125 · 6	135 · 8	146.8	157 · 2	175 ·
(Wh Generated—								
(a) Steam Plant	}	100	111 · 6	128 · 6	146.0	400.0		J
(b) Oil Plant		100	99.5	95.8	103.5	166.2	184-8	217
(c) Hydro Plant		100	97.9	101 9	113.1	105.3	106 · 2	115.
	}-			101-3	110.1	130 · 8	150 · 1	177 -
Total	••	100	104 · 4	114.3	128 · 4	146.7	164.9	194
oal Consumption								
real oil Concumption	••	100	107 9	123 5	133 · 8	148 5	161 · 6	182 ·
granagara Marinaum Darka - J	••	100	97.0	95 · 7	101 9	103.2	102.6	110·
iggregate maximum Demand	• •	100	108.7	117.5	134.8	153 5	165.0	189
Wh sold—		ļ					105-0	199.
Domestic Lights & Small Power	\	100	405 5	440.4			Ì	
Commercial Lights & Small Power	: ::	100	105·7 101·5	119.1	127 · 6	142.9	157 · 1	184
Industrial		100	104.9	120 · 4	134 5	155 · 1	164.6	184
Traction	::	100	98.5	118·3 108·7	133-4	153.8	174.3	203
Irrigation		100	105.9	108.7	114.8	122 4	122 · 4	128
Public Lighting		100	108 9	119.9	113.9	125 5	155 · 7	278
Water works		100	103.8		138.3	155 5	173 · 4	208
	-			113.6	126 · 4	134 · 5	149.9	172
Total		100	104-4	115.9	130 · 4	148 - 4	196 · 7	196

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MB2CWPC(PW) 9

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 1957/58 are given in table XLVI.

TABLE RLVI—ELECTRICITY PRODUCTION AND CONSUMPTION IN SELECTED INDUSTRIES DURING THE YEAR 1957/58

Serial			Total	i Installed	Maximum k\	Demand V	Kilo	owatt-hours (Millions)		Load
No.	Industry		number of factories covered	generating plant capacity as at 31-3-58	Generated in own power stations	Purchased from public utility electricity under- takings	Generated in own power stations	Purchased from public utility electricity under- takings	Used in industry	Sold to outside agencies	factor based on cols. (5&6) and (7&8)
1	2		3	(kW)	<u>_</u>	6	7	8	9		
	·						-	8	y	10	11
1	Aluminium (Primary)	••	5	16,482	9,554	15,720	70 · 385	127 - 450	197 - 787	0.048	89-4
2	Aluminium (Secondary)	••	8	234	47	3,425	0-118	18 811	18 929	,	62·2
3	Cement (Primary)	••	27	112,380.	87,870	36,697	422 - 763	203 · 587	620 - 614	5 · 736	57 · 4
4	Cement (Secondary)		25	649	105	4,128	0 · 152	11.980	12-112		32.7
5	Chemicals	٠.	31	19,235	11,199	13,633	80 - 687	78 · 922	158 · 934	0 · 675	73 4
. 6	Colliery	/	155	58,071	29,530	70,302	137 - 588	260 - 279	390 · 157	7.710	45 · 5
7	Copper (Primary)		1	9,875	1,280	5,493	8 · 367	28 · 618	36 - 985		62 · 3
8	Copper (Secondary)		ſ	••		676	٠.	1 · 984	1 · 984		33 · 5
9	Cotton Textiles		827	119,817	76,875	311,310	307,890	1,500 · 449	1,791 - 957	16-382	53 · 2
10	Fertilizers		4	80,160	56,160	7,354	298 · 804	46 878	329 · 763	15 919	62 · 1
11	Gold		1	4,725	24	19,080	0.070	114 - 278	114 · 203		68.3
12	Iron and Steel (Primary)		5	172,450	78,268	127,788	490 · 331	438 479	813 - 933	114-877	81 · 5
13	Iron and Steel (Secondary)		20	480	150	24,243	0 · 146	90 - 518	90 - 684	[42.4
14	Jule		83	33,529	19,787	119,657	83 - 463	400 901	483 941	0 · 423	39 · 6
15	Paper		21	73,535	57,119	21,270	291 · 078	99 · 459	374 - 576	15 961	56 - 9
16	Siik		27	1,480	1,480	23,892	6 · 833	85 · 453	92 · 286	• ,	41 · 5
17	Soap		14	366		5,289	٠.	23 · 813	23 · 813		51 4
18	Sugar		81	60,421	30,378	6,867	85·912	14.817	99-187	1.242	30 8
19	Tanneries		8	297	8	812	0.018	1 · 445	1 · 458		20 · 3
20	Waal		18	5,253	1,340	10,322	3 · 690	58 636	62 · 203	0 · 023	60 · 9
	Total		857	769,439	481,174	827,956	2,288 · 290	3,606 · 362	5,715 656	178 · 996	50.5

The total amount of electricity purchased by all the industrial establishments from the electric utilities during the year was about 6,229 million kWh of which 3,606 million kVh was accounted for by only the large and medium sized industrial establishments included in the table.

Among the 857 industrial undertakings, 341 undertakings supplemented their power requirements by 2,228 million kWh from their own generating plants. In all, these industries consumed 5,716 million kWh of power of which about 63 per cent was purchased from different electric utilities in the country. The total energy used by these industries increased by 6 per cent as compared with the previous year. The plant capacity increased during 1957/58 by only 1·3 per cent.

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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 and Chemical Industries, however, generated the major portion of their power requirements in their own power stations.

The table XLVII gives the Electricity Production and Consumption in selected major industries during 1957/58 in various states of the Indian Union.

TABLE XLVII—ELECTRICITY PRODUCTION & CONSUMPTION IN SELECTED INDUSTRIES ON STATEWISE BASIS DURING THE YEAR 1957/58.

		}		Maximur k	n Demand W	K	ilowatt-hou	rs (Millions)	ı
Serial No.	States and Union Territories	Total number of factories covered	Installed generating plant capacity (kW) as at 31-3-1958	Generated in own power station	Purchased from public utility electricity under- takings	in own power stations	Purchased from publi utility electricity under- takings	e in industry	Sold to outside agencies
1	2	3	4	5	6	7	8	9	10
						· · · · · · · · · · · · · · · · · · ·	-	-	
1	Andhra Pradesh	15	50,831	25,413	10,993	138 · 903	42.775	162 · 043	19 685
2	Assam	••		٠-					
3	Bihar	102	288,194	174,914	71,851	939 - 858	291 - 877	1,109 - 814	121 · 921
4	Bombay State	243	110,417	59,504	262,232	286 · 231	1,258 · 562	1,535 · 492	9:301
5	Jammu and Kashmir	1			25		0.040	 0.040	•
6	Kerala	11	1,661	623	25,056	1.789	178 - 311	180 · 100	
7	Madhya Pradesh	41	84,075	33,083	11,442	128 · 338	42 · 486	163·951	6.878
8	Madras State	76	25,145	13,944	5 7,76 3	34.065	284 · 855	318 920	
9	Mysore State	26	12,875	4,454	100,899	18-014	446 · 644	464 - 658	
10	Orissa	5	15,850	10,300	8,244	67·119	31 · 528	98-647	
11	Punjab	16	19,508	11,572	10,431	73,080	45 · 903	118 · 423	0.560
12	Rajasthan	21	31,264	22,427	1,808	99 452	1.219	100 - 661	0.010
18	Uttar Pradesh	78	40,930	20,275	85,071	85 · 478	144.780	228 · 106	2.152
14	West Bengal	215	127,380	72,652	227,460	338 · 995		1,127 · 832	18.544
15	Union Territories		}			1			ĺ
	(a) Delhi State	в	10,779	11,728	5,031	75 · 849	29 · 490	105 - 339	,
	(b) Rest	1	535	340	150	1.119	0.511	1.630	
	Total	857	769,439	461,174	827,956	2,288 · 290	3,606 · 362	5,715 · 656	178-996

ANALYSIS OF GENERATING PLANT CAPACITY OF INDUSTRIAL ESTABLISHMENTS Table XLVIII gives the distribution of Plant capacity in the Industries power stations.

TABLE XLVIII—ANALYSIS OF INDUSTRIAL PLANT CAPACITY OF INDUSTRIAL ESTABLISHMENTS FOR THE YEAR 1957/58

Installed o	Aggregate industrial establishments Aggregate capacity kW				Percentage of total capacity	kWh generated (Millions)	Percentage of total kWh	
	ì			2	3	4	5	6
Under 1,000	• •	••	••	239	89,407	11-6	144 · 071	6.2
1,0015,000		• •		71	158,462	20.6	396 · 093	17 · 4
5,001—10,000	••	••		17	129,310	16.8	450 · 464	19.7
10,001—25,000	••	••	••	11	145,560	18.9	498 - 649	21 · 8
Over 25,000		••		3	246,700	32·1	799 · 013	34.9
		Total		841	769,439	100.00	2,288 · 290	100 · 00

Table XLIX gives further break up of the installed capacity of generating plant in industrial esta-TABLE XLIX INSTALLED GENERATING PLANT CAPACITY OF SELECTED MAJOR INDUSTRIES ON A STATE

, 			,		LANI VALI						
Se isl No.	States and Union Territories	Alumi- nium (primary)	Alumi- nium (secondary)	Cement (primary)	Cement (secondary)	Chemi- cals	Colliery	Copper (primary)	Copper (Second- ary)	Cotton Textiles	Fertili- zers
	2	3	4	5	6	7	8	9	10	11	12
1	Andhra Pradesh			••	•••	• •	23,145		•••	5,080	
2	Assam	• •	••	••		••					
3	Bihar	1,182		28,540		-,	22,840	9,875	••		80,000
4	Bombay State	••	225	27,900	172	13,500		٠,		53,457	
5	Jammu & Kashmir	.,	• •	••	••	. ••					
6	Kerala					••		• •	• •	1,181	
7	Madhya Pradesh		.••	12,500		••	6,076	••	• •	14,695	
8	Madras State]]	2,295	••	.,			• •	19,473	
	Mysore State	••	••	1,500	••		••			2,600	
10	Orissa			100			3,000	[2,000	
11	Punjab			10,555					••	2,605	••'
12	Rajasthan		9	21,790	175					8,491	160
ļ	Uttar Pradesh			7,200		200	••		••	2,222	••
14	West Bengal	15,300			302	80	3,010			2,154	
15	Union Territories—				į.	ĺ					
	(a) Delhi State					5,455				5,324	
İ	(b) Rest					}		}		535	
	, -									300	••
	Total	16,482	234	112,380	649	19,235	58,071	9,875		119,817	80,160

blishments, state industry wise.

INDUSTRY-WISE BASIS AS ON 31-3-1958

(killowatta)

Gold	Iron and Steel (primary)	Iron and Steel (secondary)	Jute	Paper	Silk	Soap	Sugar	Tanneries	Wool	Tota
13	14	15	16	17	18	19	20	21	22	23
			240	17,200		••	5,166			50,83
• •				••			, ,		••	
••	120,700		3,060	13,200		••	8,797	••		288,19
	••			••	1,480	166	12,224	•••	1,298	110,41
••	* 1			••					••	
		- -		280		200	••		4.6	1,66
••				500			304	••.	••	31,07
••	.,	••		1,080		••	2,000	297	••	25,14
4,725	500			••			3,150	••	400	12,87
	••			10,750			• • •		••	15,85
••			••.	3,500			1,788		1,110	19,50
••	••	180					459		·•	81,26
••			792	2,000			26,066		2,450	40,98
••	51,250	300	29,437	25, 02 5		, ,	522	•.•	•	127,88
		-								
	••									10,77
				••.						58
4,725	172,450	480	33,529	73,585	1,480	366	60,421	297	5,253	769,43

Table L shows the consumption of energy in selected major industries in several states during the period TABLE L—ENERGY CONSUMED IN SELECTED MAJOR INDUSTRIES ON A STATE-INDUSTRY-WISE BASIS DURING

Serial No.	States and Union Territories	1	Alumi- nium (Primary)	Alumi - nium (Secon- dary)	Cement (Primary)	Cement (Secon- dary)	Chemi- cals	Calliery	Copper (Primary)	Copper (Secon- dary)
1	2		3	4	5	6	7	8	9	10
1	Andhra Pradesh	• •			23 · 708	••		45.950		••
2	Assam	••	•••	••		••				••
8	Bihar	٠.	6 · 639	0 · 123	104-494	••	2.822	190-077	36 · 985	•
4	Bombay State	••		0.967	146 · 202	3·254	52 · 859		••	1.984
5	Jammu & Kashmir	٠.		••		•• •			••	
6	Kerala		127 · 450	3 · 127	6 · 679	••	<u> </u>		••	
7	Madhya Pradesh			••	48 · 131	2.837		28 - 473		
8	Madras State			••	90 · 725		20 · 639	••		
9	Mysore State	••			7 · 573	0.056	0 · 597		-•	
10	Orissa			••	25 · 013	••	••	6 · 535		
11	Punjab			••	51 · 275		0.021			
12	Rajasthan		}		87 · 002	0-146	••			••
13	Uttar Pradesh				29 · 812		1.238		.,	••
14	West Bengal		63 - 698	14.712		5.717	29.000	119 · 122		
15	Union Territories—									
	(a) Delhi State]		0.102	51 · 7 58			••
}	(b) Rest]	•	••.				.,
	Total .		197 - 787	18 · 929	620 · 614	19.440	450.00			
			101.101	10.978	020.014	12 · 112	158-934	390 · 157	36.985	1 · 984

1st April 1957 to 31st March 1958.

1957/58 (ENERGY CONSUMPTION IN MILLION kWh)

Cotton Textiles	Ferti- lizers	Gold	Iron and (Steel Pri- mary)	Iron and steel (Secon- dary)	Jute	Paper	Silk	Soap	Sugar	Твппету	Wool	Tota
11	12	13	14	15	16	17	18	19	20	21	22	23
17 · 738					6.577	56-437	••		11 -633			162.0
••			•••								• • •	
2 · 190	282 · 766	••	401 · 810		10 · 829	57 - 778			13 · 301		••	1,109 · 8
,1 4 6 · 223		••		24 · 655		8 · 796	86 · 450	17.664	18 · 260		33 · 178	1,585 · 4
• •							0.040		••			0.04
7 · 331	24-918					8 · 374		2 · 221		••	••	180 · 10
80 · 876						8.010			0.624	••		163 · 9
197 - 919				2.578	•••				6.513	0.546	٠.	318-9
34 · 673	21 · 957	114 · 278	246 · 720	1.060		11 · 025	0.608	0.138	8.374	0.093	17·511	464-6
12·391						54 · 708	••				••	98-64
22 · 761						31 · 067	3.857	••	2.974	• •	6 · 468	118-4
12 · 973	0 · 122			0.116			••		0 · 302		••	100 - 66
114 · 232		,		10· 9 54	11 · 121	15 · 087	••		40 ·780	0 · 632	4 · 250	228 · 10
87 · 568	••		165 · 403	51 · 301	455 · 414	128 · 294	1 · 304	8 · 790	1 · 526	0·187	0· 79 6	1,127 ·81
53· 4 52		••		••			0 · 027				••	105 · 33
1 · 630	••	••				• •						1 · 63
91 · 957	329 · 763	114 · 278	813-933	90 · 664	483 - 941	874·576	92 · 286	23 · 813	99 · 287	1.458	62 · 203	5,715 · 65

	SEC	TION 5	
FATAL	ELECTRICAL ACCID	ENTS IN ELECTE	RICITY SUPPLY
	AND INDUSTRIA	T. LINDERTAKIN	IGS

Fatal Electrical Accidents in the electricity supply and industrial undertakings.

Table LI gives the fatal electrical accidents in electricity supply and industrial undertakings for the year 1956-57.

TABLE LI—STATEMENT SHOWING THE NUMBER OF FATAL AND NON-FATAL ELECTRICAL ACCIDENTS DURING 1956-57

	Public Electric	eity Supply	Industria) Uu	dertakings	Total		
ITEM	Fatal	Non-Fatal	Fatal	Non-Fatal	Fatal	Non-Fatal	
Generating & Sub-Station	16	44	4	62	20	106	
Transmission	66	106	• •	4	66	110	
Distribution	138	259	14	131	152	390	
Total	220	409	18	197	238	606	

STATEMENT OF CAPITAL OUTLAY (i.e.) ORIGINAL COST OF PLANT, EQUIPMENT ETC. ON ELECTRICITY SUPPLY SYSTEMS & UNDERTAKINGS, OWNED & OPERATED BY STATE GOVERNMENT DEPARTMENTS, STATEEL ECTRICITY BOARDS, POWER CORPORATION AND LOCAL AUTHORITIES IN THE PUBLIC SECTOR AND COMPANIES, PARTNERSHIPS ETC. IN THE PRIVATE SECTOR AS ON THE 31ST MARCH, 1957—GROUPED STATEWISE.

TABLE LII—CAPITAL EXPENDITURE

(Figs. represent Rs. in Lakhs)

Serial No.	States & Union	Tarritarios		Year -	State O	wned .	(Private) Companies	Total
		rear -	Government & Boards	Municipalities	Companies			
1	Andhra Pradesh			1956-57	3,906	9	19	3,934
2	Assam	••		1956-57	33	••	71	104
3	Bihar			1956-57	6,167*	••	353	6,520
. 4	Bombay State			1956-57	1,672	2,008	5,393	9,073
5	Jammu & Kashmir		•	1956-57	63			63
6	Kerala	••		1956-57	2,150	12	76	2,238
7	Madhya Pradesh		٠	1956-57	1,634	2	164	1,800
8	Madras State			1956-57	5,992	70	422	6,484
9	Mysore State	••		1956-57	2,990	1	75	3,066
10	Orissa			1956-57	795		60	855
11	Punjab	• •		1956-57	4,617	82	. 77	4,776
12	Rajasthan	• •		1956-57	305		121	426
13	Uttar Pradesh	••		1956-57	5,304	153	892	- 6,349
14	West-Bengal		• •	1956-57	479	19	4,558	5,056
15	UNION TERRITOR	ES—						
	(a) Delhi State			1956-57	725	153	9	887
	(b) Others			1956-57	55		3	58
		Total		1956-57	36,887	2,509	12,293	51,6 8 9

Note—Due to the re- organisation of the States and the introduction of a uniform accounting year during 1956, comparative figures of previous year have been omitted.

* Includes Damodar Valley Corporation.

TABLE LIII

- (a)—Consolidated Capital Account 1956-57
- (b)—Consolidated Revenue Account 1956-57
- (c)—Consolidated Net Revenue and Appropriation Account 1956-57
- (d)—Consolidated Balance Sheet 1956-57

PUBLIC ELECTRICITY SUPPLY INDUSTRY-CONSOLIDATED ANNUAL TABLE LIII (a) -

••q				Government & Boards	Municipalities	Companies	TOTAL
1. TO GENERATION ASSETS	·	_	-				,
(a) Steam Power Stations (i) Land			es.	220		101. 11.1168	289
(ii) Buildings	• • •	• •		558		gn'as: 712	1,270
(iii) Boilers, Turbines etc.	• •	••	1	5,830		b 3,036	8,86
(iv) Other Equipments			.,	8		54	6
			٠.				·
	Grou	p Totals	• •	6,616	•• [. 3,870	10,48
(b) OIL POWER STATIONS							
(i) Land				15		13	ο.
(ii) Buildings	• • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	119	·· ₇	79	20 20
(iii) Engines, Generators etc.	• • •	•••		1,030	. 25	441	1,49
(iv) Other Equipments				2,000		3	1,70
()							
	Group	Totals	• • •	1,164	32	536	1,73
(c) HYDRO POWER STATIONS							
(i) Land				249	1	72	322
(ii) Buildings			.,	324	4	69	397
(iii) Hydraulic Power Plant				6,392	13	257	6,66
(iv) Civil Works				4,671	60	996	5,72
	C=0.11	Totale	ŀ	44.000			
	Group	Totals		11,636	78	1,894	13,10
Sub Total (Generation Assets)	• •	••	•	19,416	100	5,800	25,326
2. TO TRANSMISSION ASSETS	•			4,326	2	1,146	5,474
s. TO DISTRIBUTION ASSETS			.				·
(a) Cables and Mains				6.528	613	2,249	0.000
(b) Sub Stations, Transformers	• •	• • • • • • • • • • • • • • • • • • • •		2,256	295	838	9,390 3,389
(c) Service Lines	••			959	185	882	1,976
(d) Public Lighting				392	23	135	55(
(e) Meters, Testing Instruments etc.		• •	• •	1,108	215	610	1,933
	Group	Totals		11,243	1,281	4,714	17,238
TO GENERAL ASSETS			-				·
(a) Special Structures tools etc.				783	72	241	1.096
(b) Office Equipment, furniture etc.				421	46	105	572
(c) Motor Cars, Vans, Cycles etc.		• •		205	6	109	320
	Groun	Totals		1,409	124	455	1,988
			-				1,980
. INTANGIBLE ASSETS:				[اء		
(a) Good will (b) Preliminary Expenses	• • •	• •	••	أخند	9	13	22
(c) Expenses Capitalised	• •	••		160 333	1	45	206
(o) Expenses captumized	••	••			1	120	454
	Group	Totals		493	11	178	682
, TO SPECIAL ITEMS (Tramways in	the cas	se of Bom	bay)		981	•	981
	Group	Totals			981		981
Total carried to General Balance She	at t		-	36,887	2,509	12,293	51,689

ACCOUNT FOR THE PERIOD ENDED 31st MARCH, 1957. CAPITAL ACCOUNT—1956-57.

(Figs. represent Rs. in Lakhs)

			Government & Boards	Municipalities	Companies	TOTAL
1. BY CAPITAL RAISED (a) Invested by States (i) Government Undertakings (ii) Municipal Undertakings (iii) Other Grants and Advances			37,096 1,681	1,402 98		. ,
(III) Other Grants and Advances	••	••				
			38,777	1,500		40.277
 (b) Invested by private Sector (i) Ordinary share capital (ii) Preference share capital (iii) Debenture and other secured 				:.	3,933 645	0.440
(III) Depenture and other secured	Ioan capital	••		•• ;	1,540	6.118
2. BY CAPITAL RESERVE	••		378	11	150	539
		•				
3. BY CONSUMERS CONTRIBUTIO	N FOR SERVICE	elin es	105	· 22	461	588
			ļ			
					-	
				,		
					İ	
·					ł	
·						
•						
					 -	
						•
				1,533	6.729	47,52
			39,260	1,033	0.129	11,02

TABLE LIII (b)-

					Government & Boards	Municipalities	Companies	TOTAL
To Operating Expenses—		`	-					
(1) Generation								
(a) (i) Coal	• •		••		467	••	625	1,092
(ii) Oil	••	•••	••		54	9	127	. 190
(iii) Consumable Store	s	••	4.0		25	2	23	50
(b) Salaries and Wages	• •			• •	149	7	122	278
(c) Repairs and Maintena	uce ,	••		••	154	5	103	262
(d) Purchase of energy:—								*
(i) From other utilities	••	••		•	115	209	477	801
(ii) From Non-utilities		• • •	••	·	9	••	3	12
(2) Transmission					•			
(a) Salaries and Wages	. • •	••	•••		21	••	13	34
(b) Repairs nd Maintenand	88	••	* * -	••	12	••	4	16
3) Distribution								
(a) Salaries and Wages	••	••		••	141	34	166	341
(b) Repairs and Maintenan	ce		••	••	110	26	. 94	230
(e) Public lighting (Attenda	ance Re	pairs and	renewal	s)	18	7	27	52
4) Consumers Servicing—							'	
(a) Salaries & Wages (billing	ng accou	nting, etc	c.).	••	88	26	114	228
(b) Other expenses	••	• •		••	18	9	35	62
5) Management Expenses	•	• •	••		152	60	315	527
8) Depreciation	••	••	••		538	54	318	910
otal operating expenses	••		, ···		2,071	448	2,566	5,085
o Balance Carried over	** ,	•• ,	• •	.	316	196	730	,242
					0.00	21/	<u> </u>	
				ļ	2,387	644	3,296	6,327

	Government & Boards	Municipalities	Companies	TOTAL
By Operating Revenues—				
(1) Sales of electricity—	1			
(i) Domestic and Commercial	710	373	1,325	2,408
(ii) Industrial	938	200	1,549	2,682
(iii) Irrigation	143	2	20	. 165
(iv) Public Lighting	84	22	76	182
(v) Distributing licensees	857	2	219	578
(2) Meter and other Rentals	81	20	53	104
(3) Income from Public lighting Maintenance	1	1	9	11
(4) Miscellaneous Receipts	128	24	45	197
		`		
•		!	,	
		• •	• 	<u> </u>
		4 p		
		·		
-	·			
·			<u> </u>	<u> </u>
•	2,387	644	3,296	6,327

TABLE LIII(e) NET REVENUE

	Government & Boards	Municipalities	Companies	TOTAL
To Appropriations (applicable to Local Authority Licensee only)—				
(a) Interest on Loan Capital	••	30		30
(b) Instalment of redemption of loan capital		32	••	32
(c) General Rates		37		37
To Taxes on income and Profits	4	/	90	94
To instalment of write down in respect of intangible assets		15	7	22
To contribution towards contingencies Reserve	15	3	40	58
To appropriation to tariffs and dividends control reserves			24	24
Fo appropriation to Consumers Rebate Reserve			26	26
Fo other appropriations	118	70	206	394
Fo appropriations towards Interest paid and accrued and Dividends paid and payable—				
a) Interest on Debentures and other secured loans	1,050		71	1,12
b) Interest on consumers security deposits		2	10	1
c) Interest on unsecured loans, advances, deposits, bank over-drafts, etc.			25	2
d) Dividends on Preference Share Capital			39	
(e) Dividends on Ordinary Share Capital			231	23:
To Balance of loss carried over from previous year		8	79	. 8
To Balance carried over to General Balance Sheet		44	70	114
	1,187	. 241	918	2,34

(Figs. represent Rs. in Lakhs)

	Government & Boards	Municipalities	Companies	TOTAL
By Balance brought forward from the revenue account	316	196	730	1,242
By interest on securities and investments	22	10	15	47
By other receipts (Non-operating) e.g. Rents less outgoings not otherwise provided for transfer fee etc	58	3	23	. 84
By surplus incidental business (tramways and omnibuses of Bombay Municipality)		4		4
By Balance of Profit carried over from previous year	605	28	150	783
By Balance carried over to General Balance Sheet	186			186
•				
			-	i e
				•
	1,187	241	918	2,34

TABLE LIII(d) GENERAL BALANCE SHEET

**	Government & Boards	Municipalities	Companies	TOTAL
Fixed capital raised and appropriated as per the capital account	39,260	1,533	6,729	47,52
Capital Redemption Reserve		615	149	7 6 4
RESERVE AND SURPLUS				
Non-statutory Reserve	· 2,216 ;	365	1,352	3,933
Contingencies Reserve Fund	· 272 ·	15	237	524
Tariffs and Dividends Control Reserve		••	64	. 64
Consumers' Rebate Reserve		••	70	70
Balance of net revenues and appropriations account .		44	70	114
URRENT LIABILITIES AND PROVISIONS				
reditors on open accounts	5,494	134	485	6,113
Consumers' security Deposits	2,453	57	392	2,902
Accounts Payable		82	774	856
emporary accommodations, Bank over drafts and other Finances	1,286	46	1,063	2,395
	50,981	2,891	11,385	65,257

			. 1			
			Government & Boards	Municipalities	Companies	TOTAL
Capital Expenditure on works as per the capital	l account	S	36,887	2,509	12,293	51,68 9
Accumulated Provisions for Depreciation			2,614	686	3,648	6,948
NET BLOCK			34,273	1,823	8,645	44,741
CURRENT ASSETS						
Capital works in progress	••	.,	2,907	14	663	3,584
Stores and materials in hand :—					į	
(a) Fuel Coal and or oil etc. at cost	• •	••	565	2	56	623
(b) General stores at or below cost	••		4,852	223	584	5,659
Sundry debtors for electricity supplied	••		966	71	397	1,434
Other debtors	••		839	14	189	1,042
Accounts receivable	••		1,498	73	57	1,628
Investments in statutory Securities at cost—				,		•
(a) Contingencies Reserve Fund investment (Ma closing date)	rket value	on 	••	· 4	188	192
(b) Other investments (Market value on closing	ig date)		3,524	408	172	4,104
Special Deposits—				·		
(a) In respect of taxation	••		• •		66	66
(b) Others		• •	442	3	25	. 470
Balance at Bank—		٠	·			
(a) Deposit account	••	••	174	204	26	404
(b) Current account and at call	••		623	30	280	933
Cash in hand			57	19	25	. 101
Debit Balances :						
Deferred payments	••		75	3	12	90
Debit Balance of net revenue and appropriation	is account		186	• •		186
			50.981	2,891	11,385	65,257

MB2CWPCPW-12(a)

Some Important financial features for the year 1952 to 1957 are given in Table LIV.

TABLE LIV -FINANCIAL DATA OF THE PUBLIC ELECTRICITY SUPPLY INDUSTRY 1952—57.

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•	Unit	1952	1953	1954	1955	1956-57
A. Installed Capacity	kW.	2,061,755	2,305,190	2,493,996	2,694,817	2,886,141
Average Capital Outlay per kW installed—						<u></u>
(a) Generation	Rs.	460	436	518	589	878
(b) Transmission, distribution etc.	Rs.	461	460	540	603	879
		921	896	1,058	1,192	1,757
B. Number of Consumers	No.	1,843,473	1,995,543	2,164,782	2,508,580	2,825,802
Average Capital Outlay per consumer		,				
(a) Generation	Rs.	515	503	597	632	896
(b) Transmission, distribution, etc.	Rs.	515	530	622	648	898
		1,030	1,033	1,219	1,280	1,794
C. Maximum Demand	kW.	1,310,651	1,416,350	1,625,123	1,849,672	1,989,774
Average Capital Outlay on transmis- sion, distribution etc. per kW of maximum demand. D. Total Capital Outlay	Rs.	725	748	828	879	1,276
(a) On Electrical Works	Rs. Crores)	190	206	264	321	50 7
(b) Non-Electrical Works like tramways and Omnibus.	59	4	4	4	. 5	10
		194	210	268	326	

	-	19	952	1953		1954		1955		1956-57	
·		Outlay	Per cent of Total	Outlay	Per cent of Total	Outlay	Per cent of Total	Outlay	Per cent of Total	Outlay	Per cent of Total
SEGREGATION	-				-	— 			·		
Public Sector		101 · 13	52	111-80	53	161 - 25	60	211 · 93	65	393-96	76
Private Sector		92 · 37	48	98-69	47	107 · 01	40	114 · 28	35	122 93	24
•	ĺ	193 · 50	100	210 · 49	100	268 · 26	100	326 21	100	516 89	100
Additions during the year SEGREGATION	••	24.45		16.99	•••	57.77		57 - 95		190 68	
Public Sector		18.90	77	10 67	63	49 · 45	86	50.68	87	145-35	76
Private Sector		5 · 55	23	6 · 32	37	8 · 32	14	7.27	13	45.33	24
	-	24 · 45	100	16-99	100	5 7 · 77	100	57 · 95	100	190 68	100

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

9---80

			Sy	estem of Supply	
Serial No.	Name of undertaking	ame of undertaking Address of Undertaking		A.C. & D.C. Phases frequency etc.	
(1)	(2)	(3)	(4)	(5)	
		ANDHRA PRADESH	1		
1	Annakapalle	The Annakapalle Electric Supply Corporation Ltd. M/A. Andhra Engineering Co. Private Ltd., 24/342, Danavaspeta, Rajahmundry.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
2	Anantapur District	The Superintending, Engineer (Operation), Anantapur.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
3	Azamabad	The Superintending Engineer, Construction & Operation (Telangana), Andhra Pradesh Electricity Department, Hyderabad (Deccan).	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
4	Bobbili	Messrs Motor & General Stores, (Private) Ltd. Bobbili.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
5	Burgampad	The Superintending Engineer, Construction & Operation (Telangana) Andhra Pradesh Electricity Department, Hyderabad (Deccan).	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
6	Chittoor	The Chittoor Electric Supply Corporation Ltd., M'A. M/S. Chandrie & Co. P.B. No. 156, Madras-1.	11,000 400 230	3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
7	Chittoor District *	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.	
8	Ceded District	The Superintending Engineer (Operation), Anantapur.	11,000 400 230	3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
9	Cumbum	The Superintending Engineer (Operation), Anantapur.	$\frac{400}{230}$	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
10	Cuddapah District	The Superintending Engineer (Operation), Anantapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
11	East Godavari District	The Superintending Engineer (Operation), Vijayawada-2.	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.	
12	Elluru	The Elluru Electric Supply Co. 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.	
13	Giddalur	The Superintending Engineer (Operation), Anantapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
14	Guntur District	The Superintending Engineer (Operation), Vijayawada-2.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
15	Hyderabad	The Superintending Engineer, Hyderabad City Circle, Electricity Department, Hyderabad (Deccan).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	

				Sy	stem of Supply
Serial No.	Name of Undertaking		Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.
(1)	(2)		(3)	(4)	(5)
			ANDHRA PRADESH—con/d.		·
16	Khammameth	٠.٠	The Superintending Engineer, Construction & Operation (Telangana), Andhra Pradesh Electricity Department, Hyderabad (Deccan).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
17	Krishna District		The Superintending Engineer (Operation), Vijayawada.	11,000 6,600 3,300 400 230	3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
18	Kurnool District	••	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.
19	Machkund	••	The Assistant Engineer, Operation Machkund Hydro Power House, Annakadalli Post.	132,000 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.
20	Madanapalle		The Superintending Engineer (Operation), Anantapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
21	Mahboobnagar		The Mahboobnagar Electricity, Consumer's Co-perative Society, Ltd., Mahboobnagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
22	Mancherial		The Additional Chief Engineer, (Electrical) Andhra Pradesh Electricity Department, G-3/945, Amritpet, Hyderabad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
23	Markarpur		The Superintending Engineer, (Operation), Anantapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
24	Masulipatham		The Commissioner, Masulipatnam Municipality, Masulipatnam.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
25	Mulug		The Additional Chief Engineer, (Electrical) Andhra Pradesh Electricity Department, G-3/945, Amritpet, Hyderabad.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
26	Narayanpet	••	The Superintending Engineer, Construction & Operation (Telangana), Andhra Pradesh, Electricity Department, Hyderabad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
27	Nellore District		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	Nizamabad		The Superintending Engineer, Construction & Operation (Telangana), Andhra Pradesh Electricity Department, Hyderabad.	400 230	3 .ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
29	Nizamsagar		The Additional Chief Engineer, (Electricity), Andhra Pradesh Electricity Department, G-3/945, Amirpet, Hyderabad.	400 230	1 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
30	Nirmal		The Superintending Engineer, Construction & Operation (Telangana), Andhra Pradesh, Electricity Department, Hyderabad.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.

		,	System of Supply			
Serial No.	Name of Undertaking	Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.		
(1)	(2)	(3)	(4)	(5)		
		ANDHRA PRADESH—contd.				
31	Palvancha	The Superintending Engineer, Construction & Operation (Telangana), Andhra Pradesh Electricity Department, Hyderabad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
32	Peddapalle	The Additional Chief Engineer (Electricity), Andhra Pradesh Electricity Department, G-3/945, Amirpet, Hyderabad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
33	Ramagundam	The Superintending Engineer, Construction & Operation (Telangana), Andhra Pradesh Electricity Department, Hyderabad.	400 230	3 ph A.C. 50 cy. 1 ph. A.C. 50 cy.		
34	Ranigunta	The Assistant Engineer (Electrical), Ranigunta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
35	Srikakulam District	The Superintending Engineer (Operation), Vijayawada.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
36	Suryapet	The Superintending Engineer, Construction & Operation (Telangana), Andhra Pradesh Electricity Department, Hyderabad.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 cy.		
37	Tandur	The Superintending Engineer, Construction & Operation (Telangana), Andhra Pradesh Electricity Department, Hyderabad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
38	Tirumalai Tirupati	The Divisional Electrical Engineer (Operation), Tirupati.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
39	Tungabhadra	The Secretary, Tungabhadhra Board, (Via Hospet), Bollary District.	66,000	3 ph. A.C. 50 cy.		
40	Vikarabad	The Superintending Engineer, Construction & Operation (Telangana), Andhra Pradesh Electricity Department, Hyderabad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
41	Vijayawada	The Commissioner, Vijayawada Municipality, Vijayawada.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
42	Viskhapatnam District	The Superintending Engineer (Operation), Vijayawada.	11,000 400 230	3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.		
43	Wanaparthy	Messrs. Power Supply and Industrial Co., P. O. Wanaparthy, District Mahboobnagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
44	Warangal	The Additional Chief Engineer (Electrical), Andhra Pradesb Electricity Department, G-3/945, Amirpet, Hyderabad.	6,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
45	West Godavari District	The Superintending Engineer (Operation), Vijayawada.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
46	Yellandu	The Superintending Engineer, Construction & Operation (Telangana), Andhra Pradesh Electricity Department, Hyderabad.	2,200 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		

M/B2CWPC(PW)—13

S:-1	Name of Undertaking		مداداته		System of Supply		
Serial No.			raking	Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.	
(1)		(2)		. (3)	(4)	(5)	
	•			ASSAM			
1	Assam Med Dibrugarh.		College,	The Sub-Divisional Officer (Electrical), Town & Village Electrification Sub-Division, Dibrugarh.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
2	Assam College, Jo		cultural	The Sub-Divisional Officer (Electrical), Town & Village Electrification Sub-Division, Jorhat.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
3	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.	
4	Dhubri	••	••	The National Power Supply Corporation Ltd. (Dhubri Branch), M/A. M/S. K.K. Sen & Sons, 23-B, Allenby Road, Calcutta-20.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
5	Dibrugarh	••	••	The Dibrugarh Electric Supply Co. Ltd., P. O. Rehabari, Dibrugarh.	440 220	D.C. 3 Wire. D.C. 2 Wire.	
6	Domdooma			The Sub-Divisional Officer (Electrical), Town & Village Electrification Sub-Division, Dibrugarh.	440 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
7	Diphu	••	••	The Sub-Divisional Officer (Electrical), Assam State Electricity Board, Sub-Division, Nowgong.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
8	Dergaon	••	••	The Sub-Divisional Officer (Electrical), Town & Village Electrification Sub-Division, Golaghat.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
9	Gauhati [*]	••		The Executive Engineer (Electrical), Central Stores & Sale (Commercial) Division, Gauhati.	11,000 3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
10	Golaghat	••		The Sub-Divisional Officer (Electrical), Town & Village Electrification Sub-Division, Golaghat.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
11	Goalpara	••	••	The Sub-Divisional Officer (Electrical), Town & Village Electrification Sub-Division, Goalpara.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
12	Hojai	••	••	The Sub-Divisional Officer (Electrical), Assam State Electricity Board Sub-Division, Nowgong.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
13	Hailakandi			The Sub-Divisional Officer (Electrical), Town & Village Electrification Sub-Division, Karimganj.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
14	Jorhat		••	The Sub-Divisional Officer (Electrical), Assam State Electricity Board, Electrification Sub-Division, Jorhat.	440 220	D.C. 3 Wire. D.C. 2 Wire.	
15	Karimganj		•••	The Sub-Divisional Officer, (Electrical), Town & Village Electrification Sub-Division, Karimganj.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
16	Kokrajhar			The Sub-Divisional Officer (Electrical), Town & Village Electrification Sub-Division, Goalpara.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
17	Mangaldai			The Sub-Divisional Officer (Electrical), Assam State Electricity Board, Town & Village Electrification Maintenance Sub-Division, Gauhati.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	

erial	Name of Undertaking		Indertaking Address of Undertaking	System of Supply		
No.				Voltage	A.C. or D.C. Phases frequency etc.	
(1)	(2)		(3)	(4)	(5)	
			ASSAM - contd.			
18	Nalbari		The Sub-Divisional Officer (Electrical), Assam State Electricity Board, Town & Village Electrification Maintenance Sub-Division, Gauhati.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
19	Nowgong	***	The Sub-Divisional Officer (Electrical), Assam State Electricity Board, Sub-Division, Nowgong.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
20	Sualkuchi	••	The Sub-Divisional Officer (Electrical), Assam State Electricity Board, Town & Village Electrification Maintenance Sub-Division, Gauhati.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
21	Sibsagar	••	The Sub-Divisional Officer (Electrical), Sibsagar Sub-Division, Sibsagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
22	Shillong	• • •	The Snillong Hydro Electric Ltd., M/A. Development of Industries, (India) Private Ltd., 135, Princep Street, Calcutta.13.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
23	Silchar	••	The Silchar Electric Supply Ltd., M/A. M/S. Sarada Charan Barda Kanta Roy, Silchar.	440 220	D.C. 3 Wire. D.C. 2 Wire.	
24	Tezpur		The Electrical Engineer (Member), Assam State Electricity Board, Shillong.	220	D.C. 3 Wire.	
25	Titabar	• • •	The Sub-Divisional Officer (Electrical), Town & Village Electrification Sub-Division, Golaghat.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
26	Tura	••	The Sub-Divisional Officer (Flectrical), Town & Village Electrification Sub-Division, Goalpara.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
27	Umtru	••	The Executive Engineer (Electrical), Untru Hydro Electric Maintenance Division, Burnihat.	6,600 400 230	3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 1 ph. A.C. 50 cy.	
		×	BIHAR			
1	Arrah	•••	The Sub-Divisional Officer, Arrah Electric Supply Sub-Division, Arrah.	400 230	3 ph. A.C. 50 ey, 1 ph. A.C. 50 ey.	
2	Aurangabad (G	aya)	The Electrical Executive Engineer, Electric Supply Division, Aurangal ad (Gaya).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
3	Arrah		The Sub-Divisional Officer, Arrah Electric Supply Sub-Division, Arrah.	460 230	D.C. 3 Wire. D.C. 2 Wire.	
4	Begusarai .		The Electrical Executive Engineer, Tube Well & Electric Pilot Station Division, (Begusarai Electricity Department), Katihar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
5	Bettiah	• ••	The Electrical Executive Engineer, Bettiah Electric Supply Division, Bettiah.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
6	Barigania .		The Electrical Executive Engineer, Bettiah Electric Supply Division, Bettiah.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	

o -1.1	N CTT-domain		System of Supply		
Serial No.	Name of Undertaking	Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.	
(1)	(2)	(3)	(4)	(5)	
		BIHAR—contd.			
7	Behar Shariff	The Electrical Fxecutive Engineer, Flectric Supply Division, Behar Shariff.	400 230	3 ph. A.C. 50 cy, 1 ph. A.C. 50 cy,	
8	Behar Shariff Sub Division	The Electrical Executive Engineer, Electric Supply Division, Behar Shariff.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
9	Buxar	The Sub-Divisional Officer, Arrah Electric Supply Sub-Division, Arrah.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
10	Bhagalpur	The Bhagalpur Electric Supply Co. Ltd. M/S. Octavious Steel & Co. Ltd., 14, Old Court House Street, Calcutta-I.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
11	Chaibassa	The Chaibassa Electric Supply Co. C/O. M/S. Madan Gopal, Chaibassa.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
12	Chirkunda	The Chirkunda Electric Supply Co. Ltd., P. O. Barakar, Distt. Burdwan.	400 2 30	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
13	Chakia,	The Electrical Executive Engineer, Bettiah Electric Supply Division, Bettiah.	400 230	4 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
14	Chapra	The Electrical Executive Engineer, Muzaffarpur Electric Supply Division, Muzaffarpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
15	Doomehaneh	The Electrical Executive Engineer, Aica Mines Area Electrification Division, Jhumritelaiya.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
16	Dehri-on-Sone	The Electrical Executive Engineer, Dehri-on-Sone Electric Supply Sub-Division, Dehri-on-Sone.	3,300 400 230	3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
17	Digwadih	The Assistant Electrical Engineer, Digwadih Electrical Sub-Division, P. O. Bhaga.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
18	Dhanbad	The Assistant Electrical Engineer, Dhanbad Electric Supply Sub-Division, Dhan ad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
19	Daltonganj	The Assistant Electrical Engineer, State Electric Supply Sub-Division, Daltonganj.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
20	Dumka	The Electrical Executive Engineer, Deogarh Electric Supply Sub-Division, Deogarh.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
21	Darbhanga Laheriasarai	The Resident & Chief Engineer, The Darbhanga Laheriasarai Electric Supply Corporation Ltd., M/A. M/S. Baroliya Brothers, Darbhanga.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
22	Damodar Valley Corporation.	The Commercial Engineer, Damodar Valley Corporation, Anderson House, Alipore, Calcutta-27.	33,000 11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	

Serial	Name of Undertaking	Address of Undertaking	System of Supply		
No.	Tame of Ondertaking	Address of Charles and	Voltage	A.C. or D.C. Phases frequency etc.	
(1)	(2)	(3)	(4)	(5)	
		BIHAR—contd.	·		
· 23	Gaya	The Executive Engineer (Electrical), Gaya Electric Supply Division, Government of Bihar, Gaya.	2,200 400 230 440 220	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.	
24	Ganeshpur (Kharkhare	The Assistant Electrical Engineer, Ganeshpur Sub- Division, P.O. Mohuda.	11,000 400 230	3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
25	Ganwan	. The Electrical Executive Engineer, Mica-Mines Area Electrification Division, Jhumritelaiya.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
26-	Giridih	The Electrical Executive Engineer, Ranchi Electric Supply Division, Ranchi.	400 230	3 ph. A.C. 50 ey. I ph. A.C. 50 ey.	
27	Hajipur	. The Electrical Executive Engineer, Muzaffarpur Electric Supply Division, Muzaffarpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
28	Hazaribagh	The Electrical Executive Engineer, Hazaribagh Electric Supply Division, Hazaribagh.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
29	Jharia Coal Field .	The Jinaria 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.	
3 0	Jugsalai	The Jugsalai Electric Supply Co., C/O M/S. Mangilal Rungta, Jugsalai (Tatanagar) B. N. Rly.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
31	Jamtra	The Electrical Executive Engineer, Deogarh Electric Supply Sub-Division, Deogarh.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
32	Jamshedpur	The Assistant Electrical Engineer, Jamshedpur Electric Supply Sub-Division, Tatanagar.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
33	Katihar	. The Superintendent, Government Power House, Katihar.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
34	Khagaria	The Resident Engineer, Electric Power House, P. O. Khagaria, Distt. Monghyr.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
35	Lakhisarai	The Assistant Electrical Engineer, Electric Supply Sub-Division, Monghyr.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
36	Kodarma	. The Electrical Executive Engineer, Mica-Mines Area Electrification Division, Jhumritelaiya.	11,000 400 2 3 0	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
37	Madhupur Deogarh	The Electrical Executive Engineer, Deogarh Electric Supply Sub-Division, Deogarh.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	

Seria					System of Supply
No.		ertaking	Address of Undertaking	Voltage	A.C. or D.C. Phase frequency etc.
(1)	(2)		(3)	(4)	(5)
			BIHAR - contd.		
38	Mohuda		M/A. M/S. Associated Power Co. Ltd., Mohuda Power Station, Mohuda P. O. Distt. Manbhum.	3,3 00 550 44 0 23 0	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy.
39	Mirganj	•	The Electrical Executive Engineer, Muzaffarpur Electrical Supply Division, Muzaffarpur.	11,000 400 230	
40	Monghyr		The Electrical Executive Engineer, Monghyr Electric Supply Division, 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.
41	Muzaffarpur	•	The Muzaffarpur Electric Supply Co. Ltd., M/S. Octavious Steel & Co. Ltd., 14, Old Court House Street, Calcutta-1.	3,300 400 230 440 220	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
42	Nawadah	••	The Sub-Divisional Officer, Arrah Electric Supply Sub-Division, Arrah.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
43	Netarhat	•	The Electrical Section Officer, Bihar State Electricity Board, Netarhat.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
44	Nirsachatti	••	The Assistant Electrical Engineer, Nirsa Electrical 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.
15	Noamandi		The Assistant Electrical Engineer, Noamandi Electric Supply Sub-Division, Noamandi.	400 230	3 ph. A.C. 50 cy. I ph. A.C. 50 cy.
16 j	Patna	}	The Patna Electric Supply Co. Ltd., M/S. Octavious Steel & Co. Ltd., 14 Old Court House Street, Calcutta-1.	230 440	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
7 1	Patna Barh		The Sub-Divisional Officer, Patna Barh Electric Supply Sub-Division, Patna.	400 230	3 ph. A.C. 50 cy. I ph. A.C. 50 cy.
8 I	Pusa]	The Electrical Executive Engineer, Muzaffarpur Elect ic Supply Division, Muzaffarpur.		3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
9 1	Ramgarh		The Assistant Electrical Engineer, Ramgarh Electric Supply Sub-Division, Ramgarh.		3 ph. A.C. 50 cy. I ph. A.C. 50 cy.
O F	Ranchi Rural		The Assistant Electrical Engineer, Ranchi Electric Supply Sub-Division, Ranchi.	400 230	3 ph. A.C. 50 cy. I ph. A.C. 50 cy.
R	tanchi	~~	The Ranchi Electric Supply Co. Ltd., M/A. M/S. Budhia Brothers (Private) Ltd., Main Road, Ranchi.	400 3	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. ph. A.C. 50 cy.

Serial	Name of Undertaking		me of Undertaking Address of Undertaking	System of Supply		
No.				Voltage	A.C. or D.C. Phase frequency etc.	
(1)	(2)		(3)	(4)	(5)	
			BIHAR—contd.	'	ı	
52	Sijua Jhariah	••	The Chief Engineer & Manager, The Sijua (Jhariah) Electric Supply Co. Ltd., M/A. M/S. Bird & Co. (Private) Ltd., P.O. Bansjora, (Distt. Dhanbad).	10,500 6,300 550	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy.	
53	Saharsa	••	The Electrical Executive Engineer, Tubewell & Electric Pilot Station Division, No. 3, Katihar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
54	Sahebgunge	••	The Electrical Executive Engineer, Leogarh Electric Supply Sub-Division, Deogarh.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
55	Samastipur	••	The Electrical Executive Engineer, Muzaffarpur Electric Supply Division, Muzaffarpur.	460 230	D. C. 3 Wire. D. C. 2 Wire.	
56	Sakri		The Electrical Executive Engineer, Bettiah Electric Supply Division, Bettiah.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
57	Sheikhpura	••	The Assistant Electrical Engineer, Electric Supply Sub-Division Sheikhpura.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
			$\mathbf{BO} \mathbb{Z} \mathbf{BAA}$			
1	Ahmedabad	••	The Ahmedabad Electricity Co. (Private) Ltd., M/A. M/S. Killick Industries Ltd., Electricity House, Lal Darwaja, Ahmedabad-1.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
2	Ahmednagar	••	The Ahmednagar Electric Supply Co. Private Ltd., M/A.M/S. Noriman Sons Private Ltd., Power House, Station Road, Ahmednagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
3	Akola Company	••	The Akola Electric Supply Co. Private Ltd., Akola.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
4	Akola	••	The Executive Engineer, Bombay State Electricity Board, Akola Division, Akola.			
5	Akalkot .		The 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 Executive Engineer, Bombay Electric Division, P.W.D. Office, Veer Nariman Road, Bombay-1.	6,600 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
8	Amreli	••	The Amreli Electricity Co. Ltd., M/A. M/S. Mehta Patel & Seth Co., Amreli.	440 220	D.C. 3 Wire. D.C. 2 Wire.	
9	Amarnagar		The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	460 230	D.C. 3 Wire. D.C. 2 Wire.	
10	Anjar		Messrs. Shah Spinning & Weaving Mills, Anjar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
11	Anand		The Anand Electric Supply Co. Ltd., M/S. Sonawala Co. Ltd., Sonawala Buildings, 59, Apollo Street, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy, 1 ph. A.C. 50 cy.	

				System of Supply		
Serial No.	Name of Undertaking		Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.	
(1)	(2)		(3)	(4)	(5)	
. —— (BOMBAY—contd.			
12	Arvi		The Electrical Undertakings Ltd., Arvi, M/A. M/S. The Indian Engineering Syndicate, Mehta House, Apollo Street, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
13	Aurangabad		The Executive Engineer (Electrical), Bombay State Electricity Board, Marathawada Division, Aurangabad.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
14	Aundh		The Light & Power Suppliers Ltd., M/A. Industrial Service Ltd., Gumaste Buildings, 180, Budhawar Peth, Laxmi Road, Poona-2.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
15	Bagasara	••	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
16	Bajana		Shri Babulal Valji Prop. Bajana Power House, Bajana, <i>Via</i> Patri.	230	D.C. 2 Wire.	
17	Baramati	••	The Baramati Electric Supply Co. (Private) Ltd., M/A. M/S. Poonawala & Co. 182, Raviwar Peth, Poona.	460 230	D.C. 3 Wire. D.C. 2 Wire.	
18	Bardoli	••	Shree Sardar Kheti Sahayak, Vidya Mandal Ltd., Bardoli, (Distt. Surat).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
19	Barsi	••	The Central Engineering Corpn. Ltd., Barsi Electric Supply Co. 70, Forbes Street, Temple, Bazar Buildings, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
20	Baria	,.	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
21	Bassein	•	The Bassein Electric Supply Co. Ltd., M/A. M/S. J.B. Maneckji and Co. Ltd., Mehta House, Apollo	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
22	Belapur Town	••	Street, Fort, Bombay. The Engineer-in-Charge, The Belapur and Kopergaon Electric Supply Co. Ltd., Belapur Town, Distt. Ahmednagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
23	Belapur Road	••	The Engineer-in-Charge, The Belapur Kopergaon Electric Supply Co. Ltd., Shirampur, District Ahmednagar.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
	Kopergaon	••	The Engineer-in-Charge, The Belapur Kopergaon, Electric Supply Co. Ltd., Belapur Town, Distt. Ahmednagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
24	Baroda	• •	The Electrical Engineer, Department of Electricity Baroda Municipality, Post Box No. 17, Baroda-1.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
25	Bhiwandi		The Amalgamated Electricity, Supply Co. Ltd., M/A. M/S. N.C. Javeri & Co. Post Box No. 879, 17-B, Horniman Circle, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
26	Bhavnagar		The Bhavnagar Electricity Co. Ltd., P.O. Box No. 45, Bhavnagar.	11,000 3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	

Serial	Name of Undertaking			System of Supply		
No.			Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.	
(1)	(2)		(3)	(4)	(5)	
·		,	BOMBAY-contd.	, ,		
27	Bhatgar 🖒		The Secretary, 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.	
28	Bhusawal	••	The Amalgamated Electricity Supply Co Ltd., M/A. M/S. N.C. Javeri & Co. P.B. No. 879, 17-B, Horniman Circle, Fort, Bombay.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
29	Bhadran		The President, Bhadran Municipality, Bhadran.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
30	Bhor	••	The Bhor Electric Supply Co. M/S. Thopte Patel and Co. Nana Bhawan, 1194/20, Ghole Road, Poona-4.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
31	Bhuj 9		The Executive Engineer, Bombay State Electricity Board, Kutch Electrical Division, Bhuj.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
32	Bilkha		Messrs. Unity Power House, Bilkha.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
33	Bilimora	•••	The Bilimora Electric Supply Co. Bilimora.	460 230	D.C. 3 Wire. D.C. 2 Wire.	
34	Botad .10		The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay 1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
35	Bombay City [{	••	The Bombay Electricity Supply and Transport Und Itaking, (Municipal Corporation), 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.	
36	Bombay Sub.		The Central Administration Department, M/S. Killick Industries Ltd., 5, Graham Road, (4th Floor), Ballard Estate, (P.O. Box No. 109), Bombay-I.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
37	Broach		The Broach Electric Supply and Development Corporation Ltd., M/A. The Rajputana Textile (Agencies) Private Ltd., Esplanade Mansions, 144-146, Mahatma Gandhi Road, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
38	Bulsar	•••	The Amalgamated Electricity Co. Ltd., M/A. M/S. N.C. Jav ri & Co. P.B. No. 879, 17-B, Horniman Circle, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
39	Bulsar Rural []	- •·	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
40	Buldana ;	3 ••	The Executive Engineer, Bombay State Electricity Board, Akola Division, Akola.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
41	Cambay	••	The Cambay Electric Supply and Industrial Co. Ltd., M/A. M/S. A.A. Meeyajee & Co. (Private) Ltd., Power House, Cambay.	400 230 460 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.	

M/B2CWPC(PW)—14

	Name of Hadastaking				System of Supply		
Serial No.	Name of Und	ertaking	3	Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.	
(1)	(:	2)		(3)	(4)	(5)	
		•		BOMBAY-contd.			
42	Chalisgaon	••	••	The Amalgamated Electricity Co. Ltd., M/A. M/S. Javeri & Co. P.B. No. 879, 17-B, Horniman Circle, Fort, Bombay.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
43	Chanda	• •		The Chanda Electric Supply Co. (Private), Ltd., M/A. M/S. K.S. Guzder and Co. Alli Chambers 4, BC. Dean Lane, Fort, Bombay.1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
44	Chiplun	(સ		The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
45	Chola	15		The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	95,000	3 ph. A.C. 50 cy.	
46	Chopda	17		The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
47	Chhota Udepu	ir 18		The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
48	Chotila .	19		The Executive Engineer, Bombay State Electricity Board, (Surendernagar Division), Panikh Kutir, Joravernagar.	. 400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
49	Dabhoi .	•		The Dabhoi Electric Supply Co., C/O Seth Girdhari Lal Moti Lal Contractor, Dabhoi (Baroda Distt.).	440 220	D.C. 3 Wire. D.C. 2 Wire.	
50	Dakor Umreth	ı		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.	
51	Dawarka .	•		The Dawarka Electric Supply and Industries, Dawarka.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
52	Dharangaon .	. 20		The Executive Engineer (Electrical), Bombay State Electricity Board, Marathwada Division, Aurangabad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
53	Dharangadhra	2-1		The Executive Engineer, Bombay State Electricity Board, (Surendernagar Division), Parikh Kutir, Joravernagar.	460 230	D.C. 3 Wire. D.C. 2 Wire.	
54	Dhanera .	•		The Dhanera Electric Supply Co. M/A. M/S. M.A. Master and Sons, Station Road, Planapur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
55	Dhanu Road .	•		Dhanu Road, People's Cooperative Electric Supply Society Ltd., Dhanu Road, District Thana.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
56	Dhari .	•		The Dhari Electric Supply Co. Dhari.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
57	Dhond .			The Dhond Electric Supply Co. Dhond.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
58	Dhoraji .	. 22		The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	440 250	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
59	Deolgaon Regi	1	۱٠٠٠	The Executive Engineer, Bombay State Electricity Board, Akola Division, Akola.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	

Serial	Name of l	Undertaking	. Address of Undertaking	Syst	em of Supply
No.			Address of Chuertaking	Voltage	A.C. or D.C. Phase frequency etc.
(1)	(2)	(3)	(4)	(5)
			BOMBAY—contd.		
60	Deesa .	··	The Secretary, 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	Dhrol	55	The Executive Engineer, Bombay State Electricity Board, (Jamnagar Division), Jamnagar Power House, Bhidbhanjan Road, Jamnagar.	230	D.C. 2 Wire.
62	Dhulia		The Dhalia Electric Supply Co. Private Ltd., M/A. God'ola Kana & Co. P.B. N., 36, Dhulia.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
63	Dohad	•• ••	The Amalgamated Electricty Co. Ltd., M/A. M/S. N.C. Javri & Co. P.B. No. 879, 17-B, Horniman Circle, Fort, Bombay-1.	400 320	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
64	Gadhada	26	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 cy.
65	Godhra		The Godhra Electric Co. Ltd., M/A. M/S. Udayan and Co. Power House, Godhra.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
66	Gondal	27	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
67	Gondia	••	The Gondia Electric Supply Co. Ltd., M/S. Sugni Chand, Chaman Das Jotwani & Co. Gondia.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
68	Gandhidham		The Sindhu Resettlement Corporation. Ltd., Power Supply Department, Adipur.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph .A.C. 50 cy.
69	Halwad	58	The Executive Engineer, Bombay State Electricity Board, (Surendernagar Division), Parikh Kutir, Joravernagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
70	Ichalkaranji	••	The Ichalkaranji Electric Supply Co. Ichalkaranji, Distt. Satara.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
71	Igatpuri	••	The Igatpuri Electric Supply Co. M/A. M/S. Pandit and Co. 15, Forbes Street, Fort, Bombay 1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
72	Jalgaon	29	The Executive Engineer, Bombay State Electricity Board, Akola Division, Akola.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. fi50 cy.
73	Jalgaon (Com	ıpany)	The Amalgamated Electricity Co. Ltd., M/A. M/S. N.C. Javri & Co. P.B. No. 879, 17-B, Horniman Circle, Fort, Bombay 1.	11,000 400 230	3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
74	Jaisinghpur	·· '30 ··	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
75	Jamjodhpur	31 ···	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 cy.
76	Jalna	••	The Jalna Electric syndicate Private Ltd., Jalna.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
77	Jambusar		The Jambusar Electric Supply Co. Ltd., Sarodi Bhagal, Jambusar (Distt. Broach).	406 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

		·		
Serial No.	Name of Undertaking	Address of Undertaking	· <u> </u>	System of Supply
No.		·	Voltage	A.C. or D.C. Phases frequency etc.
(1)	(2)	(2)	(4)	(5)
	·	BOMBAY—contd.	ı - -	
78	Jamkhambalia 32 ··	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay 1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
79	Jamnagar 35	The Executive En ineer, Bombay State Electricity Board, (Jamnagar Division), Jamnagar Power House, Bhidbhanjan Road, Jamnagar.	11,000 400 230 460 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
80	Janjira Murud 34	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	230	D.C. 2 Wire.
81	Jasdan 3,	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	460 230	D.C. 3 Wire. D.C. 2 Wire.
82	Jawhar . 36 :	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
83	Jetpur	The Jetpur Electricity Supply Co. Ltd., M/A. M/S. Talakshi Manekchand & Co. Jetpur.	460 230	D.C. 3 Wire. D.C. 2 Wire.
84	Jhalawar (Surendranagar)	The Jhalawar Electric Power Supply Co. Ltd., M/A. M/S. N. D. Mehta and Co. Surendranagar (Wadhawan).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
85	Jodiya 37	The Executive Engineer, Bombay State Electricity Board, (Jamnagar Division), Jamnagar Power House, Bhidbhanjan Road, Jamnagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
86	Junnar	The Junnar Electric & Water Supply Co. M/S. Thopte Patel and Co. Nana Bhawan, 1194/20, Ghole Road, Poona-4.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
87	Junagadh 36	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
88	Kadi	The Kadi New Electric Supply Co. Ltd., M/A. Parikh and Co. Kadi.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
89	Kalol	The Kalol Electric Supply & Industrial Co. Ltd., Power House, Kalol.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
90	Karad	The Karad Electric Supply Co. Private Ltd., Karad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
91	Kalyan	The Kalyan Electric Supply Co. Ltd., M/A., M/S. K. R. K. Manse, Murbad Road, Kalyan.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
92	Kapadwanj	The Kapadwanj Town Co-operative Electricity Association Ltd., Sardar Baug, Kapadwanj.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
93	Keshod 39	The Secretary, 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	Khaparkheda $\mathcal{L}_{t}z$	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	66,000 11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

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.		
95	Khamgaon	The Khamgaon Electric Supply Co. Private Ltd., Court House (4th Floor), (opp. St. Xavrs High School) Cornac Road, Dhobi Talao, Bombay-2.	400 230	
96	Kholvad	The Kholvad Electric Supply Corporation, Kholvad, (Distt. Surat).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
97	Khopolli Village	The Tata Hydro Electric Agencies, Ltd., Bombay House, 24, Bruce Street, Fort, Bombay.	66,000 400 230	
98	Karjan	The President, Karjan Municipality, Karjan.	400 230	
99	Kolhapur	The Manager, Kolhapur Electric Supply Co. Kolhapur city.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
100	Kolhapur Sub.	The Secretary, 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.
101	Koregaon	The Allied Electric Agencies Private Ltd., Power House Koregaon (North Satara).	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
102	Kotda Sangni 42	The Secretary, Bombay State Electricity Board, Mercantil Bank Building, Fort, Bombay 1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
103	Kurundwad	The Kurundwad Electric Supply Co. Ltd., Kurundwad (Dist. Kolhapur).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
104	Lakhtar 43	The Executive Engineer, Bombay State Electricity Board, (Surendranagar Division) Parikh Kutir, Joravarnagar.	230	D.C. 2 Wire.
105	Lathi 44	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
106	Limbdi	The Limbdi Electric Supply Co. M/S. Amulakh Amichand & Co. Limbdi.	460 230	D.C. 3 Wire, D.C. 2 Wire.
107	Lonavalla-Khandalla	The Lonavalla-Khandalla Electric Supply Co. Ltd., Lonavalla.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
108	Lunawada	Shree Lunawada Industries & Electricity Co. Lunawada (Via Godhra).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
109	Madhavnagar-Budhgaon	The Budhgaon & Madhavnagar Electric Supply Co. Ltd., M/A. M/S. Bloosam Agencies Ltd., Satara.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
110	Mahableshwar	The Mahableshwar Electric Supply Co. Messrs Panchagani Electric Supply Co. Ltd., 96, Ducann Road, Byculla, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
111	Mahad	The Mahad Electric Supply Co. Ltd., M/A. M/S. Oka Bros. & Thopte Co. Mahad, Distt. Kolaba.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
112	Mahuva 45.	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Seria No.	Name of	Name of Undertaking		ame of Undertaking Address of Undertaking		System of Supply
					Voltage	A.C. or D.C. Phases frequency etc.
(1)		(2)		(3)	(4)	(5)
				BOMBAY—contd.		
113	Malkapur	.46	••	The Executive Engineer, Bombay State Electricity Board, Akola Division, Akola.	440 230	D.C. 3 Wire. D.C. 2 Wire.
114	Malegaon	••	••	The Amalgamated Electricity Co. Ltd., M/A. M/S. N. C. Javeri & Co. P.B. No. 879, 17-B, Horniman Circle, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
115	Malvan	41	••	The Secretary, Bombay State Electricity Board, Malcantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
116	Manavdar	48	••	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 2 3 0	3 ph. A.C. 50 cy. 2 ph. A.C. 50 cy.
117	Mandvi	49	••	The Executive Engineer, Bombay State Electricity Board, Kutch Electrical Division, Bhuj.	400 230 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 2 Wire,
118	Mangrol	5 6		The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
119	Manmad	••		The Manmad Electric Supply Co. Ltd., M/A. M/S. Pandit and Co., 15, Forbes Street, Fort, Bombay.	2,200 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
120	Matheran			The Matheran Electric Supply Co. Ltd., M/A. M/S. Anderson Engineering Co. Ltd., Mehta House, Apollo Street, Fort, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
121	Mehsana	••		The Mehsana Electric Supply Co. Ltd., New Model Talkies, 1758/1, Gandhi Road, Ahmedabad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
122	Miraj	• •		The Miraj Electric Supply Co. Ltd., Miraj (South Satara)	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
123	Morvi	••		The Morvi Electricity Works Ltd., M/A. M/S. P.B. Ganpule & Co. Morvi.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
124	Mundra	·· \$ 1		The Executive Engineer, Bombay State Electricity Board, Kutch Electrical Division, Bhuj.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
125	Nadiad	•		The Nadiad Electric Supply Co. Ltd., C/O. M/S. Sonawala Co. Ltd., Sonawala Buildings, 59, Apollo Street, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
126	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. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire,
127	Nakhtarana	52		The Executive Engineer, Bombay State Electricity Board, Kutch Electrical Division, Bhuj.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
128	Nakihara	>>		The Executive Engineer, Bombay State Electricity Board, Kutch Electrical Division, Bhuj.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial	Name of Undertaking	g Address of Undertaking	System of Supply	
No.		- I o nativaling	Voltage	A.C. or D.C. Phases frequency etc.
(1)	(2)	(3)	(4)	(5)
		BOMBAYcontd.		
129	Nanded 37	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	6,600 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
130	Nandurbar	The Nandurbar Electric Supply Co. (Private) Ltd., M/S. K. S. Guzder & Co. Ali Chamber, 4, B.C. Doan Lane, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
131	Nasarapur	The Nasarapur Electric Supply Co. Prop. N. S. Chakke, 649, Shanwar, Peth, Poona-2.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
132	Nasik-Deolali	The Nasik-Deolali Electric Supply Co. Ltd., M/A. The Rajputana Textile (Agencies) Private Ltd., Esplanade Mansions, 144—146, Mahatma Gandhi Road, Fort, Bombay.	6,600 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
133	Navsari	The Navsari Electric Supply Co. Ltd., M/A. M/S. Ardesher Modi & Co. Navsari.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
134	Nira-Lonand	The Nira Lonand Electric Supply Co. M/S. Thopte Patel and Co. Nanabhawan 1194/20, Ghole Road, Poona-4.	400 23 0	3 ph. A.C. 50 cy. I ph. A.C. 50 cy.
135	North Gujerat Grid	The Secretary, 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. I ph. A.C. 50 cy.
136	Muli	The President, Muli Municipality Muli.	230	D.C. 2 Wire.
137	Pachora	The Pachora Electric Supply Co. Ltd., Power House, Pachora (East Khandesh).	400 230	3 ph. A.C. 50 cy. I ph. A.C. 50 cy.
138	Palghar Navli	Light and Power suppliers Ltd. M/S. Industrial Service Ltd., Gumaste Buildings, 180, Budhawarpeth, Laxmi Road, Poona-2.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
139	Panchgani	The Panchgani Electric Supply Co. Ltd., M/S. Panchgani Electric Supply Co. Ltd., 96, Duncan Road, Byculla, Bombay.	460 230	D.C. 3 Wire. D.C. 2 Wire.
140	Palitana 56	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	480 240	D.C. 3 Wire. D.C. 2 Wire.
141	Pandharpur	The Pandharpur Electric Supply Co. Pandharpur.	460 230	D.C. 3 Wire. D.C. 2 Wire,
	Panvel Taluka	The Panval Taluka Electric Development Co. Ltd., M/A. M/s. Banthia Bros., Keshar Baug, Panvel.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
143	Palanpur (Iqbal)	The Electrical Engineer and Manager, The Iqbal Electric Supply, (Municianl Power House), Palanpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
144	Patan 57	The Electrical Engineer, The Patan Municipality, Patan (Distt. Mehsana).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
145	Parli-Vaijnath 58 ··	The Executive Engineer, (Electrical), Bombay State Electricity Board, Marathawada Division, Aurangabad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Seria	.			i	System of Supply
No.	-	Undertakin	Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.
(1)	(2)	(3)	(4)	(5)
			BOMBAY—contd.		
146	Petlad	••	The Electrical Engineer, Petlad Municipality, Petlad.	400 230	, . <u></u>
147	Poons	••	The Poona Electric Supply Co. Ltd., M/A. The Rajputana Textile (Agencies) (Private) Ltd., Esplanade Mansions, 144-146 Mahatma Gandhi Road, Fort, Bombay-1.	11,000 3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy.
148	Porhander	٠٠ ١٢	The Secretary, 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.
149	Port-Okha	60	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230 230	3 ph. A.C. 50 ey. 1 ph. A. C. 50 ey. D.C. 2 Wire.
150	Radhanpur	·•61	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Port, Bombay-1.	440 220	D.C. 3 Wire. D.C. 2 Wire.
151	Rajpipla	62 .	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Port, Bombay-1.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
152	Rajkot	63.	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Port, Bombay-1.	400 230 460 230	3 ph. A.C. 50 cy. I ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
153	Rander		The Rander Electric Supply Co. Ltd., M/A. M/S. Sundrarao Moreshwar Co., Lal Bang, Rander.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
154	Ratnagiri	·· 64.	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bo nhay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
155	Sanad		The Sanad Electric Supply Co. (Private) Ltd., M/A. M/S. Ranchodlal Chandulal & Co. Station Road, Sanad.	400 230	3 ph. A.C. 50 cy. I ph. A.C. 50 cy.
156	Sangamner	••	(D) . (1)	460 230	D.C. 3 Wire. D.C. 2 Wire.
157	Sangli	••	The Jublee Electric Works, Electric Power House, Sangli.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
158	Sankheda.	••	The Sankheda Municipal Electric Power House, Sankheda.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
159	Satara	••	The Satara Electric Supply Co. (Private) Ltd., 217, Paratapganj Peth, Satara City.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
60	Satara-Rural	·· 65 ··	The Secretary, 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	Santrampur	Š	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.		3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
52	Savarkundla .	• • •	The Savarkundla Electricity Supply Co. Ltd., M/A. M/S. Shah Electrical Agencies, Savarkundla.		3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Serial	Nonco of Undentaleine	A11 CY 1	Syst	tem of Supply
No.	Name of Ondertaking	e of Undertaking Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.
(1)	(2)	(3)	(4)	(5)
	· ·	BOMBAY—contd.		
163	Savda-Faizpur	The Savda Faizpur Electric Supply Co. Ltd., M/A., M/S. Bandale and Sons, 386, Vithalbhai Patel Road, Bom ay-4.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
164	Sawantwadi	The Power and Light Distributing Corporation, Sawantwadi Electric Supply, Prop. Mr. H. M. Jamadar, Sawantwadi (Distt. Ratnagiri).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
165	Sayla 67	The Executive Engineer, Bombay State Electricity Board, Surendernagar Livision Parkhkutir, Jora anagar.	230	D:C. 2 wire,
166	Sikka (.5	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bo may-1.	11,000	3 ph. A.C. 50 ey.
167	Rajula 64	The Secretary, Bombay State Electricity Board, Mcrcantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
168	Shahpura 76	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bom ay-1.	6,600	3 ph. A.C. 50 ey.
169	Shirpur	The Shirpur Electric Supply Co. Ltd., Shirpur (West Khandesh).	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
170	Sholapur	The Sholapur Spinning and Weaving Co. Ltd., Town Electric Department, Station Road, Sholapur.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 cy.
171	Shirwal	The Shirwal Electric Supply Co. M/S. Thopte Patel and Co., Nanabhawan, 1194/20, Ghole Road, Poona-4	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
172	Sidhpur	The Sidhpur Electric Industrial Co. Ltd., Near Station, Sidhpur, (Distt. Mehsana).	440 220	D.C. 3 Wire. D.C. 2 Wire.
173	Sihor	The Sihor Electric Works Ltd., Sihor.	400 2 3 0	3 ph A.C. 50 cy. 1 ph. A.C. 50 cy.
174	Sinnar	The Sinnar Electric Supply Co. Ltd., M/A. M/S. Deshpande and Co. Sinnar (Distt. Nask).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
175	Surat	The Surat Electric Supply Co. Ltd., Central Administration Department, M/S. Killick Industries Ltd., 5, Ghraham Road, 4th Floor Ballared Estate, Post Box No. 109, Bombay.	3,3 00 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
176	Talegaon Pimpri	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bomlay-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
177	Tapi	The Tapi Electric Supply and Industries Ltd., Kathor (via Sayan).	400 230	3 ph. A.C. 50 cy- 1 ph. A.C. 50 cy.
178	Tasgaon	Th Tasgaon Electric General Co-operative Society Ltd., Tasgaon (Distt. Satara).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
179	Tata-Hydro	The Tata Hydro Electric Agencies Ltd., Bombay House, 24, Bruce Street, Fort, Bombay.	110,000 22,000 6,600	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy.

M/B2CWPC(PW)—15

rial	Name of Undertaking		Address of Undertaking	System of Supply		
No.			Address of Chickeaning	Voltage	A.C. or D.C. Phases frequency etc.	
(1)	(2)		(3)	(4)	(5)	
			BOMBAY—contd	•		
180	Thana		The Thana 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.	
181	Thanagadh		The Parshuram Pottery Works Co. Ltd., Power House, Thana Pottery, Thanagadh.	400 220	3 ph. A.C. 50 ey.	
182	Udwada		The Udwada Vapi Electric Supply Co. Ltd., M/A. M/S. Raiyomand Engineering Co. Electric House, Gamchalla Post (Vapi), (Distt. Surat).	400 230	3 ph. A.C. 50 ey.	
183	Ulhasnagar	72 ·	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230		
184	Umarkhed	72	The Executive Engineer, Bombay State Electricity Board, Akola Division, Akola.	400 230		
185	Una) r	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
186	Upleta	75	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1	400 2 3 0		
187	Utran	7(The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay1.	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. 3 ph. A.C. 50 cy.	
188	 Vadia	رکي	The Secretary, Rombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	260 230	1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.	
189	Vadnagar	·58 ··	The Chief Officer, Electricity Department, Vadnagar Municipality, Vadnagar (North Gujrat).	400 230	ł	
190	Vallabh-Vida	ıyanagar	M/S. Charotar Gramodhar Sahakari Mandal. Ltd., Vallabh-Vidayanagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
191	Vallabhipur	***	Shree Vallabhipur Garmyikas Electric Power House, Vividh Karya Karni Sahkari Society Ltd., Vallabhipur (via Dhola Junction) Thai.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
192	Vapi		The Udwada Vapi Electric Supply Co. Ltd., M/A. M/S. Raiyomand Engineering Co. Electric House, Gamehalla, Po t, Vapi, (Distt. Surat).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
193	Vasai	••	The Vasai Electric Supply Co. Ltd., M/A. M/S. R. Shukla and Co. Vasai-Debhla, Taluka Bijapur, Distt. Mehsana.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
194	Vengurla	₂₄	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
195	Veraval	ço	The Secretary, Bombay State Electricity Board, Mercantile Bank Building, Fort, Bombay-1.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
196	Viramgam	••	The Viramgam Electric Supply Co. Ltd., M/A. M/S. Saifee and Co. Mandal Road, Viramgam.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	

Serial	Name of Undertaking		Name of Undertaking - Address of Undertaking -		S.	System of Supply	
No.			_	, and the same	Voltage	A.C. or D.C. Phases frequency etc.	
(1)		(2)		(3)	(4)	(5)	
				BOMBAY—contd			
197	 Visnagar			The Chief Officer, Visnagar Municipality, Visnagar	. 400 230		
198	Virupur	: दृ1	••	The Secretary Bombay State Electricity Mercantile Bank Building, Fort, Bombay-1.	rd, 230		
199	Vita	••	, ••	The Co-operative Electric Supply Society Ltd., V (South Satara).	ita 406 236		
200	Vyara-Kanj	pura		The Vyara Kanpura Electric Co-operative Sup Society Ltd., Vyara (Distt. Surat).	ply 400 230	3 ph. A.C. 50 ev.	
201	Wardha		••	The Nagpur Electric Light and Power Co. L (Wardha Branch) Civil Lines, Post Box No. 2, Nag	td., 400 pur. 230	3 ph. A.C. 50 ev.	
202	Wai	67,	٠.	The Secretary, Bombay State Electricity Boa Mercantile Bank Building, Fort, Bombay 1.	rd, 400 230		
203	Wankaner		••	The Wankaner Electric Supply Co. Ltd., M/A. M Sarvauja and Co. Wankane :	7/8. 460 230		
204	Yeola	·· 5/5	••	The Engineer, Yeola Municipal Power House, Yeo	a. 460 230		
205	Yeotmal		٠.	The Manager, The Yeotmal Electric Supply Co. L Yeotmal.	id., 400 230		
				JAMMU AND KASHMIR	,	1	
1	Bandipur	••	••	The Electrical Engineer, Projects & Planni Srinagar.	ng, 400 230		
2	Ganderbal		• •	The Electrical Engineer, Projects & Planni Srinagar.	ng, 400 230	_	
3	Jammu		••	The Electrical Engineer, Projects & Planni Srinagar.		3 ph. A.C. 50 cy.	
4	Mohora	• •	••	The Electrical Engineer, Projects & Plannin Srinagar.	2,000/ 2,300 200/220	3 ph. A.C. 25 ey. 3 ph. A.C. 25 er	
5	Muzaffaraba	d	••	The Electrical Engineer, Projects & Plannis Stinagar.	200/220	1 ph. A.C. 25 cy. 3 ph. A.C. 50 cy.	
6	Poonch	- +	••	The Electrical Engineer, Projects & Planning	1	1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.	
7	Pahalgam	••	••	The Electrical Engineer, Projects & Planni Srinagar.	1	3 ph.A. C. 50 am	
8	Ramnagar	••		The Electrical Engineer, Projects & Plannis Srinagar.	1	1 ph.A. C. 50 cy. 3 ph. A.C. 50 cy. ph. A.C. 50 cy.	

Serial No	1 - TOTAL OF CHANGE HE	Address of Undertaking		System of Supply
No	,		Voltag	A.C. or D.C. Phase frequency etc.
(1)	(2)	(3)	(4)	(5)
		KERALA	•	
1	Calicut (Kozhikode) '	The West Coast Electric Supply Corporation Ltd., (Calicut Branch) M/S. Chandrie & Co. (Private) Ltd., P.B. No. 156, National Insurance Building, Esplanade, Madras-1.	40	00 3 ph. A.C. 50 ey. 00 3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
2	Cannananore-Tellicherry	The Chief Engineer, Kerala State Electricity Board P.B. No. 65, Trivandrum-1.	11,000 400 230	3 ph. A.C. 50 cy.
3	Ernakulam ,.	The Cochin State Power & Light Corporation Ltd., M/A. Chandrie & Co. (Private) Ltd., P.B. 156, Madras.	11,000 6,600 400 230	3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey.
4	Kottayam	The Kottayam Electric Supply Agency C/O M/S. A. Narayan Moos, Kottayam.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
5	Kannan Devan (Munnar)	The Kannan Devan Hills Produce Co. Ltd., Headquarters Office, Munnar.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
6	Mattencherry	The Resident Engineer, The Cochin Electric Co. Private Ltd., Mattencherry, Cochin-2.	3,300 400 230	3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
7	Port Cochin	The Electrical Engineer, Electricity Department, Port of Cochin, P.O. Willigdon Islands.	400 230 440 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
8	Kerala State Electricity Board.	The Chief Engineer, Kerala State Electricity Board, P.B. No. 65, Trivandrum-1.	66,000 22,000 11,000 3,300 400 230	3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
9	Trichu	The Commissioner, Trichur Municipality, Trichur.	11,000 400 230	3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 1 ph. A.C. 50 cy.
		MADHYA PRADESH		
1	Ajaigarh	The Divisional Engineer (Commercial) Madhya Pradesh Electricity Board, P.O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
2	Alirajpur	The Alirajpur Electric Supply Co., Alirajpur.	460 230	D.C. 3 Wire, D.C. 2 Wire.
3	Amarkantak	The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P.O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
4	Ambikapur	The Divisional Engineer (Commercial), Madhya Pradesh El et icity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.

Serial	Nome of the loc	4-1-1		Syste	m of Supply
No.	Name of Undertaking		Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.
(1)	(2)		(3)	(4)	(5)
,		,	MADHYA PRADESH-contd.		
5	Ashoknagar	••	The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
6	Baikunthpur		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
7	Bareli	••	The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
. 8	Barnagar		The Barnagar Electric Supply and Industrial Co. Ltd., Barnagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
9	Barwani	••	The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	Begamganj		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
11	Bhílai		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
12	Bhind		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C, 50 cy.
13	Bhikangaon		Th` Mohan Talkies, Bhikangaon, District Nimar-Khongaon.	230	D.C. 3 wire
14	Bhopal	••	The Divisional Engineer (Commercial) Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	3,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
15	Bijawar		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	220	D.C. 2 Wire.
16	Bilaspur	••	The Central India Electric Supply Co. Ltd., P.B. No. 9, Saharanpur (U.P.)	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
17	Bina		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 134, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
18	Burhanpur		The Burhanpur Electric Supply & Trading Co. C/OThe Kohinoor Traders Ltd., Kalbadevi Road, Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
19	Champa	••	The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

	Name of Undertaking			System of Supply		
Serial No.			Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.	
(1)	(2)		(3)	(4)	(5)	
	? 		MADHYA PRADESH—contd.	-1	. ,	
20	Chandni ·		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	6,600 400 230	3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
21	Chattarpur	.,	The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
22	Chhindwara		The Chhindwara Electric Supply Co. Narsinghpur Road, Chhindwara.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
23	Chhinkadam		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	220	D.C. 2 wire.	
24	Damoh		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
25	Datia	••	The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	460 230	D.C. 2 wire. D.C. 2 Wire.	
26	Dewas (Junior)		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
27	Dewas (Senior)		The Dewas Senior Electric Co.Ltd., Dewas Senior.	· 400 320	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
28	Dharamjaigarh		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur	460 230	D.C. 2 Wire. D.C. 2 Wire.	
29	Dhar		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P.O. Box No. 34, Jabalpur.	460 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
30	Guna		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
31	Gwalior	••	The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230 440 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.	
32	Harda		The Harda Electric Supply Co. Private Ltd., M/A. M/S. Bomanjee Eduljee, Cossinath 17-19, Baston Road, Fort Bombay.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
33	Harsud		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	

G1))			S.	System of Supply		
Serial No.	Name of U	ndertakin	Address of Undertaking	Voltage	A.C. or D.C. phase frequency etc.		
(1)	(2))	(3)	(4)	(5)		
	· · · · · · · · ·		MADHYA PRADESH—contd.	- 			
34	Indore		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	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.		
3 5	Itarsi	• •	The Divisional Engineer (Commercial), Madhya Pradesh Elèctricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
36	Jagdalpur	••	The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	440 220	D.C. 3 Wire. D.C. 2 Wire.		
37	Јаога		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box. No. 34 Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
38	Jashpur	••	The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box. No. 34 Jabalpur.	440 220	D.C. 3 Wire. D.C. 2 Wire.		
39	Jhabua	••	The Manager, Jhabua Power House C/O. Madhya Bharat Oil Trading Corporation, Budhwaria Bazar, Ujjain.		Power House Closed.		
40	Jubbulpore Di	istrict	The Superintending Engineer, Jubbulpore Circle, Madhya Pradesh Electricity Board, P. O. Box No. 34 (Rampur), Jabalpur.	11,000 400 230	3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey, 1 ph. A.C. 50 ey.		
41	Jubbulpore	••	The Jubbulpore Electric Supply Co. Ltd., M/s. Martin Burn Ltd., Electricity Supply Co. 12, Mission Row, Calcutta-1.	3,300 400 1230	3 ph. A.C. 50 cy, 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
42	Kanker	••	The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O Box No. 34, Jabalpur:	440 220	D.C. 3 Wire. D.C. 2 Wire.		
43	Kareli	···	The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
44	Katni		The Central India Electric Supply Co. Ltd., P. O. Box No. 9, Saharanpur (U.P.)	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.		
4 5	Khairgarh	•• -	The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box. No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
46	Khandwa .		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		

erial	Name of Un	nderta	iking	Address of Undertaking	Sys	stem of Supply
No.			ļ	•	Voltage	A.C. or D.C. phase: frequency etc.
(1)	(2))	<u></u>	(3)	(4)	(5)
				MADHYA PRADESH—contd.	_	
47	Khargone	••	••	The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
48	Khajraho	•••		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	230	1 ph. A.C. 50 cy.
49	Khilchipur		••	The Manager Khilchipur Power House Khilchipur Distt. Rajgarh.	230	D.C. 2 wire.
50	Korba		••	The Divisional Engineer, (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabatpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
51	Kurwai	••		The Divisional Engineer (Commecial), Madhya Pradesh Electricity Board, P. O. Box No. 34 , Jabalpur.	230	D.C. 2 Wire,
52	Maheshwar	••		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
53	Maihar	••		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	220	D.C. 2 Wire.
54	Mandla			The Divisional Engineer, (Commercial), Madhyo Pradesh Electricity Board, P. O. Box No. 34, Jabaipur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
55	Mandsaur			The Mandsaur Electric Supply Co. Ltd., Mandsaur	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
56	Mehidpur	••		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.		3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
57	Mhow	••		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	460 230	D.C. 3 Wire. D.C. 2 Wire.
58	Morena		••	The Divisional Engineer (Commercial), Madhys Pradesh Electricity Board, P. O. Box No. 34 Jabalpur.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
59	Nagod	••	••	The Divisional Engineer (Commercial), Madhy: Pradesh Electricity Board, P. O. Box No. 34 Jabalpur.		D.C. 2 Wire.
6 0	Narsingarh	••	••	The Divisional Engineer (Commercial), Madhy Pradesh Electricity Board, P. O. Box No. 34 Jabalpur.	440 220	D.C. 3 Wire. D.C. 2 Wire.
61	Neemuch			The Gwalior and Malwa Industries Electric Suppl Co. Ltd., Neemuch.	y 400 230	1

Serial	Name of U	Inderta	king	Address of Undertaking	System of supply		
No.			Ü	Transition of Criticaling	Voltage	A.C. or D.C. Phases frequency etc.	
(1)		(2)		(3)	(4)	(5)	
				MADHYA PRADESH—contd.			
62	Pachmarhi			The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
63	Panna -	••		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
64	Piparia	••		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
65	Raigarh	••		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	440 220	D.C. 3 Wire, D.C. 2 Wire.	
66	Raipur	••		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	$11,000\\400\\230$	3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
67	Rajgarh		••	The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	230	D.C. 2 Wire.	
68	Rajnandgao	n	•	The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	220	D.C. 2 Wire.	
6 9	Ratlam	••	••	The Ratlam Electric Supply and Weaving Mills Co. Ltd., Ratlam.	460 230	DC. 3 Wire, D.C. 2 Wire,	
70	Rewa	• •	••	The Divisional Engineer (Commercial), Machya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230 440 220	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.	
71	Sailana	••	• •	The Engineer, Sailana Electric Power House, Sailana.	230	D.C. 2 Wire.	
72	Sakti	• •	••	The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	220	D.C. 2 Wire.	
73	Sanawad	••	• •	The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	440 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
74	Sanchi	••	••	The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 ey. I ph. A.C. 50 ey.	
75	Seoni	••	••	The Seoni Electric Supply C/O M/S. Byramji D. Deongaji and Sons, Seoni.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
76	Sarangarlı	••	••	The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	220	D.C. 2 Wire.	

Seria		Undert	aking	Address of Undertaking	System of Supply		
l No	0.				Voltage	A.C. or D.C. Phases frequency etc.	
(1)		(2)		(3)	(4)	(5)	
				M. DHYA PRADESH—con d.		- 	
77	Satna	• •		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230		
78	Saugor	••		The Resident Engineer, Saugor Electricity Supply Co. Ltd., Saugor.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
79	Sehore		•	The Schore Electric Supply Co (Private) Ltd., Schore Cantt.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
80	Sdndhwa	• •	• •	The Sendhwa Municipal Electric Sulpply, Sendhwa	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
81	Shahdol		••	The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. I ph. A.C. 50 cy.	
82	Shajapur	••		The Chief Executive Engineer, Municipal Electric Water Works Section, Shajapur.	40 0 23 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
83	Shivpuri			The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
84	Shujalpur	••		The Divisional Engineer (Commercial), Madhyn Pradesh Electricity Board, P. O. Box No. 34, Jabalpur	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
85	Sidhi			The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
86	Sitamau	••	••	The Krishua Electric Suppliers, Sitamau	460 230	D.C. 3 Wire. D.C. 2. Wire.	
87	Tarana	• •		The Manager, The Tarana Electric Supply, Tarana	220	D.C. 2 Wire.	
88	Titkamgarh		••	The Divisional Engineer • (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
89	Vidisha			The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
90	Ujjain	••		The Divisional Engineer (Commercial), Madhya Pradesh Electricity Board, P. O. Box No. 34, Jabalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	

Serial	Name of Undertaking	Address of Undertaking	System of Supply		
No.	Name of Condectaking	Address of Undertaking	Voltage	A.C. or D.C. Phase frequency etc.	
(1)	(2)	(3)	(4)	(5)	
	1	MADRAS			
. 1	Bodinayakanur	The Superintending Engineer, Pykara Electricity System, Coimbatore.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
2	Coonoor	The Superintending Engineer, Pykara Electricity System, Coimbatore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
3	Coimbatore	The Commissioner, Coimbatore Municipality, Coimbatore.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
4	Dharapuram	The Superintending Engineer, Pykara Electricity System, Coimbatore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
5	Dindigul	The Superintending Engineer, Pykara Electricity System, Coimbatore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
6	Kodaikanal	The Superintending Engineer, Pykara Electricity System Coimbatore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
7	Karur	The Municipal Electrical Engineer, Karur Municipality, Karur Distt. Tiruchirapalli.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
8	Kumbakonam	The Kumbakonam Electric Supply Corporation Ltd., M/A. The India Co. Private Ltd., Oriental Buildings, Armenian Street, Madras-1.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
9	Mettur Electricity System	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. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
10	Madras Electricity System.	The Superintending Engineer, Madras Electricity System, 157, Mount Road, Madras-2.	11,000 5,000 400 230 450 225	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.	
11	Mathurai	The Commissioner, Mathurai Municipality, Mathurai	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
12	Mayawaram	The South Madras Electricity Supply Corporation Ltd., M/A. M/S. Seshasayce Bros. (Private) Ltd., Tiruchirapalli.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
13	Negapatam	The Negapatam 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.	
.14	Ootacamund	The Superintending Engineer, Pykara Electricity System, Coimbatore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
15	Palni	The Superintending Engineer, Pykara Electricity System, Coimbatore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	

Seria	Name of Underta	kina				System of Supply
No		eriik .	Address of Undertaking		ltage	A.C. or D.C. Phasitequency etc.
(1)	(2)		(3)	(4)		(5)
			MYSORE -contd.			
18	Mysore S Electricity Board.	itate	The Chief Engineer (Electricity), Mysore Stat Electricity Board, Post Bag No. 15, Bangalore-1.	66	,000 ,000 ,000	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 25 cy.
				13,	200	3 ph. A.C. 50 ey. 3 ph. A.C. 25 ey.
ļ				11,0	000	3 ph. A.C. 50 cy. 3 ph. A.C. 25 cy.
				3,3	00	3 ph. A.C. 25 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
19	Nipani	Т	he Nipani Electricity Co. (Private) Ltd., Nipani Distt. Belgaum.	4 2	00 3	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
20	Rabkavi	Т	he Rabkavi Electric Supply Cc. Ltd., Rabkavi, Dist. Bijapur.	40		3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
21	Ramdurg	T	he Madhav Pratap Electric Supply, Ramdurg.	40	0 3	ph. A.C. 50 cy. ph. A.C. 50 cy.
22	Ranebenur	T	he Rane ¹ enur Electric Supply, M/S. Manvi Brothers Station Road, Gadag.	, 40 23	0 3	ph. A.C. 50 cy. ph. A.C. 50 cy.
23	Savanur	T	he President, Savanur Municipality, Savanur.	230	ļ	.C. 2 Wire.
24	Sirsi	· Ti	ne Kanara Electric Supply Co. Ltd., Sirsi (North Kanara).	400 230		ph. A.C. 50 cy. ph. A.C. 50 cy.
5 1	Udipi & Karkala	The	ne Chief Engineer (Electricity), Mysore State Electricity Board, Post Bag No. 15, Bangalore-1.	400 230	$egin{pmatrix} egin{pmatrix} eta & eta \ eta & eta \end{bmatrix}$	ph. A.C. 50 cy.
	•		ORISSA			
A	Angul	. The	Executive Engineer, Hirakud Utilisation Division D. 1, New Capital, Bhubaneshwar.	400 230		h. A.C. 50 cy. h. A.C. 50 cy.
A A	nandpur	. The	Executive Engineer, Balasore Electrical Division, lasore.	400 230	3 pl	n, A.C. 50 ey.
A:	ska ,	. The Ber	Executive Engin er, Ganjam Electrical Division, rhampur.	400 230	3 ph	. A.C. 50 ey. . A.C. 50 ey.
At	thagarh	The Div	Executive Engineer, Hirakud Utilisation vision No. 1, New Capital, Bhubaneshwar.	400 230	3 ph	. A.C. 50 cy.
Ba	alasor e .	. The	Balasore Electric Supply Co. Ltd., Balasore.	400	3 ph.	A.C. 50 cy.
Be	rhampore Chatarpur	The Ber	Berhampur Electric Supply Corporation Ltd., hampur, Distt. Ganjam.	11,000	3 ph. 3 ph.	A.C. 50 cy. A.C. 50 cy. A.C. 50 cy.

Serial	Name of Undertaking	Address of Undertaking	System of Supply		
No.	Traile of Chaertaking	Address of Charlesing	Voltage	A.C. or D.C. Phases frequency etc.	
(1)	(2)	(3)	(4)	(5)	
		ORISSA—contd.	_		
7	Bhawani Patna	The Executive Engineer, General Electrical Division, Bolangir.	400 2 3 0	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
8	Baripada (Mayurbhanj)	The Executive Engineer, Balasore Electrical Division, Balasore.	440 220	D.C. 3 Wire. D.C. 2 Wire.	
9	Bargarh	The Executive Engineer, General Electrical Division, Bolangir.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
10	Bhubaneshwar (Old Town	The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneshwar.	400 230	3 ph. A.C. 50 cy. 1p h. A.C. 50 cy.	
11	Bhubaneshwar (New Town)	The Exec tive Engineer, Bhubaneshwar Electrical Division, Bhubaneshwar.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
12	Balakati	The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneshwar.	400 23 0	3 ph. A.C. 50 ey. 1 ph. A.C. 50 cy.	
13	Bhadrak	The Executive Engineer, Balasore Electrical Division, Balasore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
14	Balikuda	The Exec tive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneshwar.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
15	Bahugram	The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneshwar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
16	Borigumma	The Executive Engineer, Duduma Transmission Division, Jeypore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
17	Badbag	The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneshwar.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
18	Chhattarpur	The Executive Engineer, Ganjam Electrical Division, Berhampur.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
19	Choudhwar	The Executive Engineer (Electrical), Choudhwar Thermal Di ision, Choudhwar.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
20	Chandanpur	The Executive En ineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneshwar.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
21	Cuttack	The Cuttack Electric Supply Co. Ltd., M/A. M/S. Octavious Steel & Co. Ltd., 14, Old Court Street, Calcutta.	3,300 400 230 460 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.	
22	Deogarh Bamra	The Executive Engineer, General Electrical Division, Bolangir.	220	D.C. 2 Wire.	
23	Dhenkanal	The Executive Engineer, Hirakud Utilisation Division No-1, New Capital, Bhubaneshwar.	400 230	3 ph. A.C. 50 ev. 1 ph. A.C. 50 ev.	

Seria)	Name of Undertal	rin <i>a</i>	A 3-3 6 TV - 3 >	S	ystem of Supply
No.	i i i i i i i i i i i i i i i i i i i	B	Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.
(1)	(2)		(3)	(4)	(5)
			ORISSA—contd.		
24	Hirakud	• •	The Superintending Engineer, Electrical Circle, Hirakud Dam Project, P.O. Hirakud Colony, Via Sambalpur.	11,000 400 230	3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
25	Jagatsinghpur	••	The Executive Engineer, Hirakud Utilisation Division, No. 1, New Capital Bhubaneshwar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
26	Jagatpur	••	The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneshwar.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
27	Jaleswar	••	The Executive Engineer, Balasore Electrical Division, Balasore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
28	Jeypore	••	The Executive Engineer, Duduma Transmission Division, Jeypore.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
29	Jharsuguda	••	The Executive Engineer, Hirakud Utilisation Division No. II, Rajgangpur.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
30	Keonjhargarh		The Executive Engineer, Balasore Electrical Division, Balasore.	440 220	D.C. 3 Wire. D.C. 2 Wire.
31	Khurda-Jatni		The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneshwar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
32	Kendupatna	••	The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneshwar.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
33 i	Kendrapara	••	The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneshwar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
34	Kalidiha		The Executive Engineer, Balasore Electrical Division, Balasore.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
35	Korapet		The Executive Engineer, Duduma Transmission Division, Jeypur.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
36	Nayagarh		The Executive Engineer, Bhubaneshwar Electrical Division, Bhubaneshwar.	220	D.C. 2 Wire.
37	Khariar Road		The Executive Engineer, General Electrical Division, Bolangir.	400 23 0	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
38	Nuapatna	••	The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneshwar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
39	Nowrangpur	[The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneshwar.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
40	Patna-Bolangir		The Executive Engineer, General Electrical Division, Bolangir.	220	D.C. 2 Wire.
41	Pipli		The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneshwar.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 cy.
42	Phulnakara .,		The Executive Engineer, Hirakud Utilisation Division No. 1, New Capital, Bhubaneshwar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

				System of Supply		
Serial No.	Name of Undertal	ring	Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.	
(1)	(2)		(3)	(4)	(5)	
			ORISSA—contd.			
43	Puri		The Puri Electric Supply Co. Ltd. M/A. M/S. B. Dass & Co. Chandni Chowk, Cuttack.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
44	Parlakimedi	• •	The Parlakimedi Electric Supply Corporation, Parlakimedi.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
45	Rourkella	••	The Executive Engineer, Hirakud Utilisation Division No. II, Rajgangpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
46	Rajgangpur		The Executive Engineer, Hirakud Utilisation Division, Rajgangpur.	$11,000 \\ 440 \\ 250$	3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
47	Sambalpur	٠	The Sambalpur Electric Supply Co. Ltd., Sambalpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
48	Sakhigopal	·• •	The Executive Engineer, Hirakud Utilisation Division No. I, New Capital, Bhubaneshwar.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
49	Sonepur	••	The Executive Engineer, General Electrical Division, No. II, Bolangir.	110	D.C. 2 Wire.	
50	Sundergarh	• •	The Executive Engineer, Hirakud Utilisation Division No. II, Rajgangpur.	440 220	D.C. 3 Wire. D.C. 2 Wire.	
51	Salepur	••	The Executive Engineer, Hirakud Utilisation Division No. I, New Capital, Bhubaneshwar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
52	Sundergaon	1919 .	The Executive Engineer, Hirakud Utilisation Division No. I, New Capital, Bhubaneshwar.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
53	Talchar	••	The Executive Engineer, Hirakud Utilisation Division No. I, New Capital, Bhubaneshwar.	400 230	3 ph. A. C. 50 cy. 1 ph. A. C. 50 cy.	
54	Titlagarh		The Executive Engineer, General Electrical Division, Bolangir, Distt. Belangir.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
			PUNJAB			
1	Ambala Cantt.	••	The Ambala Cantonment Electric Supply Corporation Ltd., M/A. M/S. L. Kidarnath Ltd., Ambala Cantt.	440 220	D.C. 3 Wire. D.C. 2 Wire.	
2	Ambala City	••	The Ambala Electric Supply Co. Ltd., Ambala City.	400 230	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.	
4	Bhatinda	·• ·•	The Modi Electric Supply Co. Ltd., Bhatinda.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
5	Bhiwani	**	The South Punjab Electricity Corporation (Private)	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	

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				Albert of IV Lord 11	Sys	stem of Supply
erial No.	Name of Undertaking		ıng	Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.
(1)		(2)		(3)	(4)	(5)
			· · · · ·	PUNJAB—con/d.		
6	Dalhousie	••	••	The Accounts Officer, Punjab P.W.D., Electricity Branch, Simla.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
7	Faridabad	••	••	The Executive Engineer, Electrical and Mechanical Division, Faridahad.	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.
8	Hissar	••		The South Punjab Electricity Corporation (Private) Ltd., Hissar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
9	Hansi	• •	••	The South Punjab Electricity Corporation (Private) Ltd., Hissar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	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.
11	Kandaghat	•••	••	The Sub-Divisional Officer, Local Distribution Sub Division, Punjab P.W.D., Electricity Branch, Kandaghat.	400 2 3 0	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
12	Kaithal			The Kaithal Electric Supply Co. Ltd., Kaithal, Distt. Karnal.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
13	Kasauli		••	The Kasauli Electric Supply Co. Ltd., Evelynn, Kasauli (Simla Hills).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
14	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.
15	Maler kotla	••		The Malerkotla Power Supply Co. Proprietor M/S. Bhagwan Dass & Sons, Malerkotla.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
16	Nilokhori	••	••	The Administrative Officer, Rehabilitation Colony, Nilokheri, Distt. Karnal.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
17	Nangal Hyo	lel Sche	eme	The Accounts Officer, Punjab P.W.D., Electricity Branch, Simla.	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.
18	Patiala	••	••	The Accounts Officer, Punjab P.W.D., Electricity Branch, Simla.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
19	Rewari	••	• •	The Rowari Electric Supply & General Industries Ltd., M/A. M/S. The Golvessons Ltd., Rewari.	3,300 400 230	3 ph. A.C. 50 cy.
20	Rohtak	••		The South Punjab Electricity Corporation (Private) Ltd., Hissar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
21	Sirsa	••	••	The Sirsa Electric Supply Co. C/O The Lal Chand Minda, Sirsa.	400 230	1 - *

			,	Sy	stem of Supply
Serial No.	Name of Undertaking	5	Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.
<u> </u>	. (2)				
(1)	(2)	_	(3)	(4)	(5)
	•		$\mathbf{PUNJAB} con/d.$		•
22	Simla	••	The Chief Electrical Engineer, Municipal Electricity Department, Simla-1.	2,200 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
23	Uhl River Scheme	••	The Accounts Officer, Punjab P.W.D., Electricity Branch, Simla.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
		1	RAJASTHAN		
1	Alwar	••	The Superintendent, Electrical and 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	Abu Mount		The Mount Abu Electric Supply Co. Lothian Power House, Mount Abu.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
3	Abu Road	••	The Abu Road (Sirohi State), Electricity and Industrial Co. Ltd., M/A. M/S. Acharya Yodha & Co., Abu Road.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
4	Ajmer	••	The Amalgamated Electricity Co. Ltd. (Ajmer Branch) M/A. N.C. Javeri & Co. 17-B. Harniman Circle, Fort, Bombay.	400 230 460 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
5	Bikanor	••	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.
6	Bharatpur		The Superintendent, Electrical and Mechanical Department, Bharatpur.	460 230	D.C. 3 Wire. D.C. 2 Wire.
7	Bhilwara	***	The Superintendent, Electrical and Mechanical Department, Bhilwara.	230	1 ph. A.C. 50 ey.
8	Banswara	••	The Banswara Electric Supply Co. (Prop. Haji Mulla Rasoolbhai Mulla Abdul Hussain and Brothors), Banswara.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
9	Beawar	•••	The Beawar Electric Supply Co. Ltd., Beawar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
10	Barmer	·• •	The Chairman, Municipal Board Power House, Barmer.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
11	Bhawani Mandi	18.18	The Bhawani Mandi Electric Supply & Development Co. Ltd., M/A. M/S. Loonkaram Madan Mohan Bankers & Merchants, Jivan Kuti, Ujjain.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
12	Bundi	.**	The Bundi Electric Supply Co. Ltd., M/A. The Rajputana Electric Works, Bundi.	400 230	3 ph. A.C. 50 ay. 1 ph. A.C. 50 ey.
13	Deeg	••	The Superintendent, Electrical and Mechanical Development, Bharatpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

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Serial			-		S	estem of Supply
No.	Name of Undertaking			Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.
(1)	(2)		(3)	(4)	(5)
				RAJASTHAN-con'd.		
14	Dholpur	••	• •	The Superintendent, Electrical and Mechanical Development, Dholpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
15	Dungarpur		••	The Superintendent, Electrical and Mechanical Department, Dungarpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
16	Ganganagar	••		The Superintendent, Electrical and Mechanical Department, Sri Ganganagar.	6,600 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
17	Hindaun	••		The Superintendent, Electrical and Mechanical Department, Hindaun.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
18	Han mangar	h .		The Executive Officer, Municipal Board, Power House, Hanumangarh.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
19	Jaipur	••		The Executive Engineer, Rajasthan State Electricity Board, Power House, Jaipur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
20	Jaisalmere	••		The Officer-in-Charge, Electrical and Mechanical Department, Jaisalmere.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
21	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.
22	Jodhpur	••		The Executive Engineer, Rajasthan State Electricity Board, Jodhpur.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
23	Karauli	••		The Superintendent, Electrical and Mochanical Department, Karauli.	440 220	D.C. 3 Wire. D.C. 2 Wire.
24	Kishangarh	∴		The Superintendent, Electrical and Mechanical Department, Kishangarh.	400 230 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 2 Wire.
25	Kotah	••		The Superintendent, Electrical and Mechanical Department, Kotah.	400 230	3 ph. A.C. 50 cy 1 ph. A.C. 50 cy.
26	Kuchaman	••	••	The Engineer-in-Charge, Kuchaman Power House, Kuchaman City.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
27	Ladnun	••	• •	The Ladnun Electric Supply Co. Ltd., Ladnun.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
28	Merta	••	••	The Chairman, Municipal Board, Power House, Merta City.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
29	Nasirabad	••	• •	The Cantonment Executive Officer, Power House, Nasirabad.	460 230	D.C. 3 Wire. D.C. 2 Wire.
30	Nagaur	••	••	The Nagaur Electric Supply Co., Nagaur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
31	Nathdwara	••	••	The Executive Officer, Shri Krishna Bhandar, Power House, Nathdwara.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

~	Name of The described				System of Supply		
Serial No.	Name of Undertaking			me of Undertaking Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.	
(1)		(2)		. (3)	(4)	(5)	
'				RAJASTHAN—contd.			
32	Nawalgarh	••		The Nawalgarh Electric Supply Co. Ltd., Nawalgarh	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
33	Newai-Town	••		The Superintendent, Electrical & Mechanical Department, Newai-Town.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
34	Pali	••		The Pali Electricity Co. Ltd., M/A. M/S. Marwar Industries Private Ltd., Kuchman House, Jodhpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
35	Partabgarh	••	•••	The Manager, Partabgarh Electric Power House, Partabgarh.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
36	Phalodi	••	•••	The Superintendent, Electrical & Mechanical Department, Phalodi.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
37	Pilani	••		The Manager, Pilani Industrial Corporation Ltd., Pilani.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
38	Rajgarh (Alv	var)		The Rajgarh Electric Supply Co. Proprietor, The Bharat Electrical & Industrial Corporation Ltd., Rajgarh (Alwar).	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
39	Segwara	••	••	The Superintendent, Electrical & Mechanical Department, Dungarpur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
40	Shahpura	••		The Officer-in-charge, Electrical & Mechanical Department, Shahpura.	230	D.C. 2 Wire.	
41	Sikar	••		The Superintendent, Electrical & Mechanical Department, Sikar.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
42	Suratgarh	••		The Chairman, Electrical & Mechanical Department, Suratgarh.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
43	Sambhar La	ke	- •	The Sambhar Lake Electric Supply Co. (Private) Ltd., Sambhar Lake.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
44	Sirohi	£ 1	• •	The Assistant. Engineer, Electrical & Mechanical Department, Sirohi.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
45	Tonk	••		The Superintendent, Electrical & Mechanical Department, Tonk.	400 230	3 ph. A.C. 50 cy, 1 ph. A.C. 50 cy.	
46	Udaipur	••		The Chief Engineer & Manager, The Maharana Bhopal Electric Supply Co. Ltd., Udaipur.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
				UTTAR PRADESH		•	
1	Almora	••		The President, Electrical & Water Works Engineer, Municipal Board, Almora.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
2	Azamgarh	••	••	The Sub-Divisional Officer, Hydel Sub-Division, Azamgarh.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	

	Name of Undertaking			System of Supply		
Serial No.			Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.	
(1)	(2)		(3)	(4)	(5)	
			UTTAR PRADESH—contd.			
3	Agra		The Agra Electric Supply Co. Ltd., M/A. M/S. Martin Burn Ltd. 12, Mission Row, Calcutta-1.	6,600 3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
4	Allahabad		The Allahabad Electric Supply Co. Ltd., M/A. M/S. Martin Burn Ltd., 12, Mission Row, Calcutta-1.	11,000 3,300 400 230 440 220	3 ph. A C, 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.	
5	Aligarh .	.	The Aligarh Electric Supply Co- Ltd., M/A. M/S. Jain & Co. Ltd., Udai Singh Jain Road, Mathura.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
6	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.	
7	Bahraich .		The Balrampur Raj Electric Supply Department, Balrampur.	400 230	3 ph A.C. 50 cy. 1 ph. A.C. 50 cy.	
.	Banaras .		The Banaras Electric Light & Power Co. Ltd., M/A. M/S. Martin Burn Ltd., 12, Mission Row, Calcutta-1.	33,000 11,000 6,600 3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
9	Barabanki .		The Barabanki Electric Supply Co. Ltd., M/A. The Progressive Industries, Barabanki.	400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy.	
10	Bareilly		The Bareilly Electric Supply Co. Ltd., M/A. M/S. Martin Burn Ltd., 12, Mission Row, Calcutta-1.	3,300 400 230 440 220	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D. C. 3 Wire D.C. 2 Wire.	
11	Budaun	• • •	The Kishore Electric Supply Corporation, C/O M/S. Kishore Chand Shivcharan Lall, Budaun.	400 230	3 ph. A.C. 50 cy. I ph. A.C. 50 cy.	
12	Banda		The Resident Engineer, The Banda Electric Supply Co. Ltd., Banda.	400 230	3 ph A.C. 50 cy. 1 ph. A.C. 50 cy.	
13	Bijnor-Moradab	oad	The Bijnor-M radabad 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.	
14	Charkhari		The Administrator, Ranipur Temple, Charkhari, Distt. Hamirpur.	440 220	D.C. 3 Wire. D.C. 2 Wire.	
15	Chopan	• ••	The Superintending Engineer, Rihand Hydel Generation Circle, Electricity Department, Elgin Road, Allahabad.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
16	Etah		M/S. Seth Ram Gopal & Partners, Electricity Suppliers, Etah.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	

	Name of Undertaking			System of Supply		
Serial No.			Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.	
(1)	(2)		(3)	(4)	(5)	
		•	UTTAR PRADESH—contd.			
17	Etawah		The Western United Provinces Electric & Power Supply Co. Ltd., M/A. M/S. Alopi Parshad & Sons Ltd., Kashmere Gate, Delhi.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
18	Farrukhabad	••	The Farrukhabad Electric Supply Co. Ltd., M/A. M/S. Radheshyam & Brothers, Fatehgarh.	11,000 400 230	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. The British Insulated Callenders Cables Ltd., 116, Station Road, Faizabad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
20	Ganga Grid	••	The Executive Engineer, Hydro Electric Commercial Division, Roorkee.	11,000 6,000 3,000 400 230 450 225	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. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.	
21	Gorakhpur	••	The Executive Engineer, Hydel Commercial Cum Distribution Division, Gorakhpur.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
22	Ghazipur	••	The Eastern United Provinces Electric Supply Co. Ltd., M/A. M/S. Seth Brothers, Kothi Shiv Sahaya, Ghazipur.	440 220	D.C. 3 Wire. D.C. 2 Wire.	
23	Gonda		The Balrampur Raj Electric Supply Department, Balrampur.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
24	Gorakhpur Company	• •	The Jhansi Electric Supply Co. Ltd., M/S. Moona Lall & Sons, Jhansi.	440 220	D.C. 3 Wire. D.C. 2 Wire.	
25	Haldwani	••	The Electrical & Mechanical Engineer, Municipal Board, Haldwani Cum Kathgudam, Haldwani.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
26	Hardwar		The Electrical & Water Works Engineer, Municipal Board Hardwar Union, Hardwar.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
27	Hardei	••	The Lakshmi Electric Supply Co. Proprietor The Lakshmi Sugar & Oil Mills Ltd., M/A. M/S. Bansidhar Sons & Co., Hardoi.	440 220	D.C. 3 Wire. D.C. 2 Wire.	
28	Hathras		The Lower Ganges Jamuna Electricity Distribution Co. Ltd., (In Liquidation), Shiv Bhawan Morris Road, Aligarh.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
29	Jaunpur		The Jaunpur Electric Licensee (1934), C O The British Insulated Callenders 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. M/S. Moona Lall & Sons, Jhansi.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	

a · ·	Name of Undertaking				System of Supply	
erial No.	Name of U	Jnderta	kking	Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.
(1)		(2)		(3)	(4)	(5)
				UTTAR PRADESH-contd.		
31	Kanpur		••	The Kanpur Electricity Supply Administration, Kesa House, Post Box No. 141, Kanpur.	6,600 400 230 450 225	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
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.
34	Kosi Kalan	••		The Kosi Electric Supply Co. Kosi Kalan, Distt. Mathura.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
35	Lucknow		••	The Luckn w Electric Supply Co. Ltd., M/A. M/S. Martin Burn Ltd., 12 Mission Row, Calcutta-1.	11,000 6,600 3,300 400 230 440 220	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.
36	Meerut	• •	••	The Resident Engineer, Meerut Municipal Electricity Supply, Krishna Cottage, Meerut.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
37	Muzaffarnag	ar		The Electrical Engineer, Municipal Board, Muzaffarnagar.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
38	Mussoorie	••	••	The President, Mussoorie Dehra Hydro Electric Undertaking, City Board, Mussoorie.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.
39	Mathura	••	••	The Resident Engineer, The Mathura Electric Supply Co. Ltd., Mathura.	3,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
40	Mirzapur	••	••	The Mirzapur Electric Supply Co. Ltd., M/S. Octavious Steel & Co. Ltd., 14, Old Court House Street, P.B. No. 55, Calcutta.	3,300 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
41	Nainital		••	The Electrical & Mechanical Engineer, Municipal Board, Nainital.	$\frac{380}{220}$	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
42	Pipri '	••	••	The Superintending Engineer, Rihand Hydel Generation Circle, Electricity Department, Elgin Road, Allahabad.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
43	Padrauna	• •	••	The Padrauna Electric Supply Undertaking, C/O. The Padrauna RajKrishna Sugar Works Ltd., Padrauna Distt., Gorakhpur.	440 220	D.C. 3 Wire. D.C. 2 Wire.
44	Pilibhit	••	••	The Pilibhit Electric Supply Co. (Private) Ltd., M/A. M/S. Manmohan Lal & Sons (Private), Ltd., Pilibhit.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.
45	Rampur		•-	The Resident Engineer, New Power House, Rampur.	6,600 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.

Seria	Name of Underta	king	Address of Undertaking	System of Supply		
No.				Voltage	A.C. or D.C. Phases frequency etc.	
(1)	(2)		(3)	(4)	(5)	
	,		UTTAR PRADESH—conid.		-:	
46	Robertsganj	,	The Superintending Engineer, Rihand Hydel Generation Circle, Electricity Department, Elgin Road, Allahabad.	40 0 23 0		
47	Roorkee	••	The President, Municipal, Boar I, Roorkee.	400 2 3 0		
48	Rishikesh	••	The President, Municipal Board, Rishikesh.	400 2 3 0	3 ph. A.C. 50 cy.	
49	Sohwal	••	The Resident Engineer, Government Steam Power Station Sohwal P.O. Raunahi, Distt. Faizabad.	6,600 400 230 460 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire,	
50	Sarda Grid	••	The Executive Engineer, Hydel Commercial Cum Distribution Division, Bareilly.		-	
51 !	Sitapur	••	The Executive Engineer, Commercial Cum Distribution Division, Electricity Department (Sitapur Power House), 72, Halwasiya Market, Lucknow.	440 220	P.C. 3 Wire, D.C. 2 Wire.	
52	Sultanpur	* •	The Executive Engineer, Hydro Electric Commercial Cum Distribution Division, Sultanpur.			
53	Sadabad	••	The Sadabad Electric Supply Co. C/O. M/S. M. N. Bhargawa & Bros., Sadabad.	400 230	3 ph. A.C. 50 cy, 1 ph. A.C. 50 cy,	
54	Saharanpur		The Saharanpur Electric Supply Co. Ltd., Ramnagar (Pathanpura Street), P.B. No. 16, Saharanpur.	400 230 440 220	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey. D.C. 3 Wire. D.C. 2 Wire.	
55	Shahjahanpur •		The Shahjahanpur Electric Supply .Co. Ltd., M.S. Octavicus Steel & Cc. Ltd., 14,0ld Court House Street, P.B. No. 55, Calcutta.	3,500 400 230	3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
56	Unnao	•	The Electrical & Water Works Engineer, Municipal Board, Unnao.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
	Upper Jamuna Valle	y .	The Upper Jamuna Valley Electric Supply Co. Ltd., M/A. M/S. Martin Burn Ltd., 12, Mission Row, Calcutta.1.	400 230 440 220	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey. D.C. 2 Wire. D.C. 2 Wire.	
58	Vrirdaban	• •	The General Engineering Co. Electricity Suppliers, Vrindaban.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
			WEST BENGAL		•	
1	Adra Purulia Grid	:	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), I Hasting Street, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
2	Andul Mourie	••	The National Power Supply Corporation M/S. K. K. Sen & Sons, 23-B, Allenby Road, Calcutta-20.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 cy.	

			System of Supply		
Serial No.	Name of Undertaking	Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.	
· (1)	(2)	(3)	(4)	(5)	
		WEST BENGAL-contd.			
3	Arambag	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1 Hasting Street, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
4	Asansol	The Asansol Electric Supply Co. Ltd., Messrs. Bengal Trust Ltd., Grand Trunk Road, Asansol.	$\begin{array}{c} 400 \\ 230 \end{array}$	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
5	Bankura	The Bankura Electric Supply Messrs. B. N. Elias & Co. Ltd., Norton Buildings, I & 2, Old Court House Corner, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
6	Balurghat Grid	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), 1 Hasting Street, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
7	Bansberia	The Electrical Engineer, The East India Electric Supply & Traction Co. Ltd., Messrs. Narsinghsahaya Mudungopal, 3 Jogendra Kaviraj Row, Calcutta-7.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
8	Barakar	The Barakar Electric Supply Co. Proprietor Babu Hari Ram Agarwalla, P.O. Barakar, District Burdwan.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
9	Barrackpore Barasat Grid.	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor), I Hasting Street, Calcutta.	400 230	3 ph. A.C. 50 cy: 1 ph. A.C. 50 cy.	
10	Berhampur	The Berhampur Electric Supply Co. Ltd., Managing Agent Messrs. S.C. Nag & Co. Berhampur.	400 230 440 220	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.	
11	Bhatpara	The Riverside (Bhatpara) Electric Supply Co.(Private) Ltd., (M/A. Development of Industries, (India), Ltd., 135, Prinsep Street, Calcutta-13.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
12	Bongaon	The Bongaon Electric Supply Co. Ltd., M/A. R. N. Chatterjee & Co. 135, Canning Street, Calcutta-1.	400 - 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
13	Burdwan Memari Grid	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings, (7th Floor) 1 Hasting Street, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
14	Calcutta	The Calcutta Electric Supply Corporation Ltd., Victoria House, Calcutta-I.	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.	
15	Canning	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1 Hasting Street, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	

erial	Name of Undertaking		Address of Undertaking	System of Supply		
No.	Name of Undertaking	5	Address of Undertaking		A.C. or D.C. Phases frequency etc.	
(1)	(2)		(3)	(4)	(5)	
'			WEST BENGAL-contd.	-		
16	Chandernagore	1	The Chandernagore Electric Supply Co. (Private) Ltd., Rue Carnot, Chandernagore.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
17	Chandrabandha Grid	7	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), I Hasting Street, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
18	Churulia Grid	1	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), l Hasting Street, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
19	Contai		The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1 Hasting Street, Calcutta.	400 230	3 ph. A.C. 50 cy. I ph. A.C. 50 cy.	
20	Cooch Behar Grid		The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Fkor), 1 Hasting Street, Calcutta.	400 230 440 220	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey. D. C. 3 Wire. D. C. 2 Wire.	
21	Damajoria Grid		The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1 Hasting Street, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
22	Darjeeling		The Chairman, Darjeeling Municipality, Electrical Department, Darjeeling.		3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. ph. C. 50 cy. C. 50 cy.	
23	Digha		The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1 Hasting Street, Calcutta.	400 230	(1, ph. A.C. 50 c. 1) (2, 50 cy.	
24	Dishergarh		The Chief Engineer, Dishergarh Power Supply Co. Ltd., Central Offices, Sanctoria, Dishergarh P.O. District Burdwan.	11,000 .3,300 550	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy.	
25	Durgapore Sonamukhi Grid	. '	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Sccretariat Buildings (7th Floor), 1 Hasting Street, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
26	Dhulian		The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1 Hasting Street, Calcutta.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
27	Ghatal	.	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1 Hasting Street, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
28	Gourepore		The Gourepore Electric Supply Co. Ltd., M/A. M/S. Macneill & Barry Ltd., 2, Fairlie Palace, Calcutta-1.	6,600 3,300 400 230	3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
29	Haldibari		The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1 Hasting Streets, Calcutta.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	

Seria	Name of Undertaking	ame of Undertaking Address of Undertaking	System of Supply		
No.		me of Undertaking Address of Undertaking		A.C. or D.C. Phases frequency etc.	
(1)	(2)	(3)	(4)	(5)	
		WEST BENGAL—contd.		•	
3 0	Harishchandrapur .	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1 Hasting Street, Calcutta.	400 230	F 11.0. 90 EV.	
. 31	Hooghly Chinsura .	The Electrical Engineer, The East India Electric Supply & Traction Co. Ltd., M/S. Nursingsahay Mudungopal, 3 Jogendra Kaviraj Row, Calcutta.	400 230		
3 2	Howrah Amta Grid .	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), I Hastings, Street, Calcutta.	400 230	1 - PH. 11.0. 00 CV.	
.33	Jalpaigur! /	The Jaipaiguri Electric Supply Co. Ltd., M/A. M/S. Indo Swiss Trading Co. Ltd., Kent House P-33, Mission Row Extension, Calcutta-13.	400 230		
34	Jamur a	The Jamuria Electric Supply Co. Ltd., Messrs Bengal Trust Ltd., Grand Trunk Road, Asansol.	40Ò 230	3 ph. A.C. 50 cy. I ph. A.C. 50 cy.	
3 5	Jhargram ,.	The Divisional Engineer (Commerical), West Bengal State Electricity Board, (7th Floor), 1 Hasting Street, New Secretariat Buildings, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
36	Joynagar Majilpur	The Joynagar Majilpur Electrict Supply Co. Ltd., 135, Canning Street, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
37	Kalimpong	The Kalimpong Electric Supply Co. Ltd., P-33, Mission Row Extension, 3rd Floor, Calcutta-1.	400 · 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
38	Karimpore	The Divisional Engineer (Commercial), West Bengal, State Electricity Board, New Secretariat Buildings (7th Floor) 1 Hasting Street, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
39	Kharagpur Midnapore Grid.	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1 Hasting Street, Calcutta.	400 230	3. ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
10	Krishanagar	Krishnagar 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. I ph. A.C. 50 cy.	
11	Kurseong Siliguri Grid	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1 Hasting Street, Calcutta.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
2	Maithon	The Commercial Engineer; Damodar Valley Corporation, Anderson House, Alipore, Calcutta-27.	400	3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
3	Mal	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1 Hasting Street, Calcutta.	400	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
4]	Malda	The Engineer-in-Charge, Malda Electric Supply, Malda.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	

Serial	Name of Undertaking	Address of IV-destables	System of Supply			
No.	Name of Olivertaking	Address of Undertaking	Voltage	A.C. or D.C. Phases frequency etc.		
(1)	(2)	(3)	(4)	(5)		
	-	WEST BENGAL—contd.				
45	Mathabhanga	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1 Hasting, Street Calcutta.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.		
46	Mayurakshi Grid	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1 Hasting Street, Calcutta.	33,000 11,000 400 230	3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.		
47	Midnapur	The Midnapur Electric Supply, Messrs B. N. Elias & Co. Ltd., Norton Building, 1 & 2, Old Court House Corner, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
48	Mogra Boinchee Grid	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1 Hasting Street, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
49	Næbadwip	The Nabadwip Electric Supply, Messrs B. N. Elias & Co. Ltd., Norton Building, 1 & 2, Old Court House Corner, Calcutta.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.		
50	Naihati	The Naihati Electric Supply Co. Ltd., M/S. Sanyal & Co., 309, Bowbazar Street, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
51	North Calcutta Grid	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), I. Hasting Street, Calcutta.	11,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy.		
52	Old Malda	The Divisional Engineer (Commercial), West Bengal. State Electricity Board, New Secretariat Buildings (7th Floor), 1 Hasting Street, Calcutta.	400 2 3 0	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
53	Purulia	The Purulia Electric Supply Corporation Ltd., M/S. The Purulia Trading Co. Ltd., Electrical Engineers & Contractors, Purulia.	400 2 3 0	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.		
54	Raigunj Section	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1 Hasting Street, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
55	Raneeganj	The Raneeganj Electric Supply Co. Ltd., Messrs Tre.edi & Bajpai, 40/1, Harrison Road, Calcutta-9.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
56	Singur Tarakeswar Grid	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1 Hasting Street, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		
57	Seebpore j 🏋	The Chief Engineer, The Dishergarh Power Supply Co. Ltd., Associated Power Co. Ltd., (Seebpore Power Station), Central Offices, Sanctoria Dishergarh P.O., District Burdwan.	11,000 3,300 550	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy.		
58	Sodepur Grid 🖖 🚬	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor) 4 Hasting Street, Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.		

			System of Supply		
Serial No.	Name of Undertaking	Address of Undertaking .	Voltage	A.C. or D.C. Phases frequency etc.	
(1)	(2)	(3)	(4)	(5)	
		WEST BENGAL—contd.			
59	South Calcutta Grid	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1 Hasting Street Calcutta.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
60	Tamluk	The Divisional Engineer (Commercial), West Bengal State Electricity Board, New Secretariat Buildings (7th Floor), 1 Hasting Street, Calcutta.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
61	Vishnupur	The Vishnupur Electric Supply and Industrial Development Co. Ltd., Vishnupur, District Bankura.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
		UNION TERRITORIES ANDAMANS AND NICOBAR ISLANDS		•	
1	Port Blair	The Assistant. Engineer (Electrical), Andamans and Nicobar Islands, Port Blair.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
		DELHI			
1	Delhi Electric Supply Undertaking.	The Assistant. Engineer, Delhi Electric Supply Undertaking (Municipal Corporation of Delhi), Central Power House, Rajghat, P.O. Box No. 589, New Delhi.	11,000 6,600 400 230 500 250	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.	
2	Delhi Shahdara	The Upper Jamuna Valley Electricity Supply Co. Ltd., M/S. Martin Burn Ltd., 12, Mission Row, Calcutta.	400 230	3 ph. A.C. 50 ey: 1 ph. A.C. 50 ey.	
3	New Delhi Municipal Committee.	The Assistant. Electrical Engineer, Electricity Department, New Delhi Municipal Committee, New Delhi.	6,600 400 230 440 220	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy. D.C. 3 Wire. D.C. 2 Wire.	
4	Narela	The National Electric Supply and Trading Corporation (Private) Ltd., (Ganpati Bhawan), Harblas Colony Power House, Narela.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
		HIMACHAL PRADESH			
1	Chamba	The Sub-Divisional Officer, Electrical Sub-Division, Chamba.	220	D.C. 2 Wire.	
2	Jubbal	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.	
3	Karsog	The Sub-Di isional Officer, Karsog Electrical Sub Division, Mandi.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
4	Mandi	The Sub-Divisional Officer, Electrical Sub Division, Mandi.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
5	Solan	The Sub-Divisional Officer, Electrical Sub Division, Solan.	460 230	D.C. 3 Wire. D.C. 2 Wire.	

Serial No.	Name of Undertaking			Address of Undertaking	System of Supply		
			king		Voltage	A.C. or D.C. Phases frequency etc.	
(1)	(2)			(3)	(4)	(5)	
,			-	HIVACHAL PRADESH-contd.			
6	Sundernagar	• •	}	The Sub, Divisional Officer, Electrical Sub Division, Bilaspur.	230	D.C. 2 Wire.	
7	Theog		[The Sub, Divisional Officer, Electrical Sub Division Jubbal, Theog.			
				MANIPUR			
1	Imphal	••		The Assistant. Engineer, Manipur Administration, Imphal Electricity Sub Division P.W.D., Manipur.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	
				PONDICHERRY			
1	Karaikal	••	••	The Karaikal Electric Supply Co. Ltd., M/A.M/S. A.S. Ahilandam, 13, West Bouleward Road, Tiruchirapalli.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
2	Mahe	••		The Resident Engineer, The West Coast Electric Supply Corporation Ltd., M/A. M/S. Chandrie & Co. (Private) Ltd., Mahe.	400 230	3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
3	Pondicherry	••		The Director of Electricity, Electricity Department, Pondicherry.	22,000 400 230	3 ph. A.C. 50 cy. 3 ph. A.C. 50 cy. 1 ph. A.C. 50 cy.	
				TRIPURA			
1	Agartala	••		The Resident Electrical Engineer, Agartala Electric Supply, Tripura Administration, Agartala.	400 230	3 ph. A.C. 50 ey. 1 ph. A.C. 50 ey.	