



सत्यमेव जयते

Government of India
MINISTRY OF IRRIGATION AND POWER
CENTRAL ELECTRICITY AUTHORITY

PUBLIC ELECTRICITY SUPPLY
ALL INDIA STATISTICS
1969-70

GENERAL REVIEW

*by the Commercial Directorate, Central Water & Power Commission (Power Wing)
for and on behalf of the Central Electricity Authority]*

NEW DELHI

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**PUBLIC ELECTRICITY SUPPLY
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GENERAL REVIEW

FOREWORD

The salient features of the progress and development of electricity supply industry in the Indian Union during the year 1969-70 have been summarised and presented in this publication which also covers selected industries. The presentation generally follows the same pattern as in the last year except for the inclusion of details of Firm Generating Capacity in the States. This data have been included to the extent it was received from the various Undertakings and is shown in Table No. 44.

2. The Central Electricity Authority is grateful to the various Governments of the States and Union Territories, State Electricity Boards and other Electricity Supply Authorities—both in the Public and Private Sectors—for the supply of essential data without which the compilation of this publication would not have been possible. The Central Electricity Authority regrets the delay in the publication which was mainly due to late receipt of data from some Undertakings. In a few cases where the data have not been received at all, the Central Water and Power Commission (Power Wing) on behalf of the Authority either had to resort to estimation of the figures wherever possible, or to indicate 'Not Available'.

3. As the publication is intended to present, as far as possible, a correct picture of the progress achieved by the electricity supply industry in each State/Union Territory of the Union for a particular year, it is necessary that in order to enhance its utility it is brought out well in time. To this end the co-operation of all Electricity Supply Undertakings both in the Public and Private Sectors is solicited in ensuring that complete statistical and financial details regarding their undertakings are made available to this authority as expeditiously as possible.

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

5. The Authority records its appreciation for the work done by the Commercial Directorate of the Central Water and Power Commission/(Power Wing) on behalf of the Authority in the compilation and publication of this General Review.

September, 1971

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PUBLIC ELECTRICITY SUPPLY—ALL INDIA STATISTICS, 1969-70

GENERAL REVIEW

1. GENERAL POWER SUPPLY POSITION

The total installed plant capacity of the Utility Power Stations as at the end of the year under review was 14,102.45 MW, including 136.00 MW of plant in the Chola Power Station of the Central Railway, 600.00 MW of plant in the Neyveli Power Station, and 125.00 MW in Renukot Power Station (U.P.). The net addition to generating capacity of utilities was 1145.18 MW, which represents an increase of 8.1 per cent over the installed plant capacity in the previous year. The total power generated (gross) by all the utility undertakings was approximately 51,989.00 million kWh (net generation 49,239.4 million kWh) and the quantum of power purchased by them from self generating industries (non-utilities) was 102.10 million kWh. After meeting the energy consumption in the station auxiliaries, and the losses in transformation, transmission and distribution and the energy unaccounted for, the net energy sold by utilities to ultimate consumers, was approximately 410.62 million kWh. The increase in the sales to ultimate consumers during the year was approximately 3,710 million kWh equivalent to an increase of 9.9 per cent over the sales to ultimate consumers in the previous year.

The salient features of the Electric Power Supply Industry and of self-generating non-utilities in India for the years 1951, 1956, 1960-61, 1965-66, 1968-69 and 1969-70 are summarised in Table 1.

2. POWER GENERATION

2.1 Installed Generating Plant Capacity and Generation by Ownership and Type of Plant

Table 2 gives the installed plant capacity and generation by types of plant and ownership. This table also gives further details of installed plant capacity and generation expressed as percentage of the All India totals.

Table 3 gives the installed plant capacity and generation classified according to ownership of plant. It will be seen that 88.6 per cent of the installed plant was in the public sector and this generated (net) 85.6 per cent of the total generation (net). In the private sector, the installed plant capacity & generation (net) were 11.4% and 14.4% of all India respectively. The prime-mover wise position is given below:—

1	Public Sector		Private Sector		Total	
	Install- ed capa- city %	Genera- tion (Net) %	Install- ed capa- city %	Genera- tion (Net) %	Install- ed capa- city %	Genera- tion (Net) %
	2	3	4	5	6	7
Hydro.	41.6	44.2	1.9	2.4	43.5	46.6
Steam	41.8	38.4	9.2	11.9	51.0	50.3
Diesel	1.4	0.2	0.3	0.1	1.7	0.3
Gas Turbine	0.8	0.3	..	..	0.8	0.3
Nuclear	3.0	2.5	..	..	3.0	2.5
ALL INDIA	88.6	85.6	11.4	14.4	100.00	100.00

2.2 Installed Generating Plant Capacity and Generation

Table 4 gives the installed plant capacity and generation by Utilities in public and private sectors. The total installed plant capacity and the corresponding generation (net) in the public utility undertakings were 14,102.45 MW and 49,239.39 million kWh respectively at the end of the year as per details shown below :—

	Total Installed Capacity (MW)	Generation (Net) (Million kWh)
(1) State Electricity Board	8,544.47	29,572.68
(2) Government Undertakings, Electricity Departments/Damodar Valley Corporation	3,671.43	11,937.11
(3) Municipalities	267.32	655.22
(4) Companies	1,619.23	7074.38
TOTAL	14,102.45	49,239.39

Table 5 gives further details of installed plant capacity, aggregate maximum demand and generation by type of plant arranged statewise. Table 6 gives the statewise details of Auxiliaries and generation. Tables 7, 8, 9, and 10 give details of plant capacity and generation according to type of plant and ownership.

2.3 Jointly-owned Projects

Table 11 summarises the share of the participating States in the jointly owned power stations in India. This table gives the installed plant capacity, energy generated, energy used by station auxiliaries and the energy sent out to the participating states & common consumers. 2598.250 MW of plant capacity was under joint ownership. The energy sent out from these Projects was 9,316 million kWh.

2.4 Generation, Maximum Demand and Load Factor

The aggregate generation maximum demand of the public sector utility undertakings was 10595.50 MW and that of the private sector undertakings was 1350.68 MW. (The data on simultaneous maximum demands grid wise are not available). Table 12 gives the demand registered in the respective sectors, in each of the States.

The aggregate maximum demand, kWh generated per kWh of plant capacity, load factor and plant demand factor, for steam, gas turbine, diesel and hydro stations grouped separately on all India basis is given below :—

Type of power plant	Aggregate installed plant capacity (MW)	Energy generated (Million kWh) (Gross)	Aggregate Maximum Demand (MW)	kWh generated per kW of plant capacity	% load factor based on Cols. 3&4	% Plant demand factor (col. 4&2)
1	2	3	4	5	6	7
Hydro	6,134.77	23,046.05	5,788.48	3,757	45.4	94.3
Steam	7,196.39	27,296.87	5,601.18	3,793	55.6	72.6
Diesel	237.29	136.24	134.22	574	11.6	56.6
Gas Turbine	114.00	170.56	35.30	1,496	35.2	48.5
Nuclear	420.00	1,339.00	367.00	3,188	41.6	87.4
TOTAL	14,102.45	51,988.72	11,946.18	3,687	49.7	84.4

2.5 Additions to Generating Capacity

During the year 1210.35 MW of generating capacity was added which figure excludes 4.99 MW installed capacity deleted which is due to difference in reporting and 60.18 MW of plant capacity was withdrawn, resulting in a net increase of 1145.18 MW.

The installed plant capacity added in the different States was as follows : (The addition of installed capacity in jointly owned projects has been distributed among the participating states as per their shares).

State (1)	Hydro (MW) (2)	Steam (MW) (3)	Diesel (MW) (4)	Gas Tur- bine (MW) (5)	Nuclear (MW) (6)	Total (MW) (7)
Andhra Pradesh . . . . .	..	..	..	..	..	..
Assam . . . . .	..	..	..	..	..	..
Bihar	5.00	100.00	..	..	..	105.00
Gujarat . . . . .	..	..	..	..	210.00	210.00
Haryana . . . . .	..	..	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	..	..	..
Kerala . . . . .	..	..	..	..	..	..
Madhya Pradesh	21.50	37.50	..	..	..	58.90
Maharashtra . . . . .	..	..	..	..	210.00	210.00
Mysore	89.10	..	..	..	..	89.10
Nagaland . . . . .	..	..	..	..	..	..
Orissa . . . . .	..	62.50	..	..	..	62.50
Punjab . . . . .	..	..	..	..	..	..
Rajasthan	21.50	25.00	..	..	..	46.50
Tamil Nadu	60.00	290.00	..	..	..	350.00
Uttar Pradesh	28.25	50.00	..	..	..	78.25
West Bengal . . . . .	..	..	..	..	..	..
D.V.C. . . . .	..	..	..	..	..	..
<i>Union Territories</i>						
Delhi . . . . .	..	..	..	..	..	..
Rest . . . . .	..	..	..	..	..	..
TOTAL	225.35	565.00	..	..	420.00	1,210.35
Wrong reporting	(±)2.51	(-)2.95	(-)4.55	..	..	(-)4.99
Grand Total	227.86	562.05	(-)4.55	..	420.00	1025.36

NOTE:—Figures given in brackets indicate the additions due to wrong reporting (i.e. additions having taken place earlier but not reported.)

The plant additions under Hydro, Steam and Nuclear, as above constitute 18.6%, 46.7% & 35.70% of the total installed plant capacity added.

For further details about Steam, Nuclear, Gas Turbine and Hydro plants added during the years tables 13 and 14 may be referred to. The boilers commissioned during 1969-70 are given in Table 15.

2.6 Plants Withdrawn

The plant withdrawn during the year was as follows :—

Hydro	Nil
Steam	6.00 MW
Diesel	34.18 MW
Gas	20 MW
TOTAL	60.18 MW

2.7 Authorised Undertakings

Seven undertakings have been acquired by the State Electricity Boards. Details are given in Table 16. The Chola Power Station of Central Railway, Thermal Power Station of Neyveli Lignite Corporation Limited have been considered under public utilities. (Renukot in Uttar Pradesh being a sanction holder is included in Utilities).

The total number of undertakings engaged in the business of generation and supply of electric power as at the end of the year was 227 [treating electricity departments as separate undertakings]. Out of these 25 undertakings were generating and distributing; 68 undertakings generating purchasing and distributing and 134 undertakings were purchasing and distributing. The number of operating undertaking according to ownership is given below :—

Ownership	Generat- ing and distribu- ting	Genera- ting pur- chasing & distributing	Purchas- ing and dis- tributing	Total
1	2	3	4	5
(i) Public Sector				
(a) State Electricity Board/Electricity Dept./Govt. Undertaking	17	19	2	38
(b) Power Corporation . . . . .	..	1	..	1
(c) Municipality	1	12	30	43
SUB-TOTAL	18	32	32	82
(ii) Private Sector				
Company	7	36	102	145
TOTAL	25	68	134	227

The number of electricity supply undertakings classified according to ownership in different States along with the installed plant capacity and power generation is given in Table 4.

A large number of company-owned utility undertakings were operating in Maharashtra (36), Gujarat (22), West Bengal (24) and Uttar Pradesh (18). In other states, their number was less than (10) each in Andhra Pradesh, Jammu and Kashmir, Nagaland, Orissa and Union Territories (except Goa, Daman and Diu) there was no private utility undertakings.

2.8 Classification of Undertakings Owning Generating Stations According to the Range of Installed Capacity Generation and Maximum Demand

Table 19 gives the number of undertakings owning generating stations grouped according to the range of installed plant capacity. The aggregate plant capacity and generation under each group are also given.

Table 20 gives the classification of generating undertakings according to their aggregate generation for all undertakings, and, table 21 gives the classification of generating undertakings according to maximum demand, for State Electricity Boards/State Governments/Government Undertakings and Power Corporation, 34 undertakings whose generation exceeded 50 million kWh each accounted for 99.9 percent of the total energy generated by utilities in India.

2.9 Classification of Power Stations

2.9.1 *Hydro Power Stations*—Table 22 gives the classification of hydro stations according to the range of installed capacity.

Among 98 hydro stations 56 stations had capacities exceeding 10.00 MW each and accounted for 98.86% of total installed hydro plant capacity. These stations generated 98.77% of the total energy produced by all the hydro power stations in India.

The position for hydro stations is summarised below :

1	1968-69	1969-70	% increase over 1968-69
	2	3	4
Number of Hydro Stations	100	98	(—)2.0
Aggregate Plant Capacity (MW)	5,906.91	6,134.77	3.86
Total energy generated (Million kWh)	20,722.67	23,046.05	11.21
Average plant load factor (%)	40.05	42.88	7.07

2.9.2 *Steam Power Stations*—Table 23 gives the classification of steam power stations according to the range of installed plant capacity. This table also gives the steam raising capacity of boilers and the average plant load factor for each range of plant capacity. There were 63 stations, whose capacities exceeded 10.00MW each. Among these stations 35 stations exceeded 50.00 MW, only four stations had capacities upto 1.00 MW.

The 63 stations whose individual capacities exceeded 10 MW generated 99.0% of the total power produced by the steam power stations. Among these stations only 35 whose individual capacity exceeded 50.00 MW generated 92.50% of the total power produced by all steam power stations.

Table 23 also gives the aggregate steam raising capacity of boilers which was 31,096 tonnes per hour, which corresponds to 4.3 kg per hour per kW of generating plant capacity.

The data relating to steam power stations are summarised below as compared with the position in the previous year :—

1	1968-69 2	1969-70 3	% increase over 1968-69 a
No. of stations	95	96	1.1
Aggregate Installed Capacity (MW) at the end of the year	6,640.34	7,196.39	8.4
Total energy generated (Million kWh)	26,393.72	27,396.87	3.8
Capacity of boilers (tonnes per hour)	29,121	31,096	6.8
Average capacity of boilers per kW of generating plant capacity (kg/hour)	4.4	4.3	(—)2.3
Fuel consumed	16,559,864	17,105,693	3.3
(i) Coal, Liginte, Wood (Tonnes)			
(ii) Furnance Oil (kilo litres)	1,125,303	1,189,439	5.8
Overall Thermal efficiency (%)	24.2	25.14	3.9
Average plant load factor (%)	45.4	43.46	(—)4.3

2.9.3 *Efficiency of Thermal Stations*—The average overall efficiency of all the steam power stations was 25.14 per cent as compared with 24.2% for the year 1968-69. For details, table 23 may be seen where in the overall efficiency of thermal stations is given according to capacity grouping of power stations. In the case of stations of capacity above 100.00 MW each, the average overall efficiency was 27.41.

Table 24 shows the distribution of steam power stations according to their average overall efficiency. 34 power stations with aggregate installed capacity of 83.15% of the total steam plant installed, were working with efficiencies above 20% and generated 89.45% of the total energy. 14 stations worked at efficiencies between 25% to 30% and only 7 stations above 30% efficiency.

The maximum steam pressure and temperature adopted in the steam power stations was 179.3 kg per sq. cm and 571°C respectively.

2.9.4 *Nuclear Power Stations*—One Nuclear Power Station at Tarapur has come up. Details are given in Table 10.

2.9.5 *Gas Turbine and Diesel Power Stations*—Table 25 gives the classification of gas turbine and diesel power stations according to the range of installed plant capacity. There was no change in the number of the gas turbine power stations. The performance of the gas turbine power station during the year is given below :—

	1969-70
Number of generating stations	4
Aggregate installed capacity (MW)	114.00
Total energy generated (Million kWh)	170.51

The position for diesel plants is compared below with that of the previous years :

1	1968-69 ¹ 2'	1969-70 3:	% increase over 1968-69 4
(i) No. of Power Houses	N.A.	256	..
(ii) Aggregate installed capacity (MW)	276.02	237.3	(—)14.02
(iii) Total energy generated (Million kWh)	193.54	136.24	(—)29.61
(iv) Fuel consumed (kilolitres) (estimated)	67,949.00	44,173.00	(—)34.9
(v) Average fuel consumption per kWh generated (litres) (estimated)	0.35	0.32	(—) 8.5
(vi) Average plant load factor (%)	8.0	7.0	(—) 12.5

2.10 Installed Power Plant According to AC and DC Generation

Out of 455 power stations under review 447 stations generated alternating current, 1 both alternating and direct current and the remaining 7 generating only direct current. Table 26 shows the corresponding plant capacity and generation.

Table 27 gives the number of generating sets by type of prime-mover and ownership. This table also indicates AC and DC generating sets with their capacity.

Tables 28, 29 and 30 give the classification of plant according to the size of the sets for steam, gas turbine, diesel and hydro categories respectively, giving break-up by ownership and AC/DC. The information contained in these tables are summarised below for these stations where set-wise data were available:—

Sector & Installed capacity	AC Plant					DC Plant			Total
	Hydro	Steam	Nuclear	Gas Turbine	Diesel	Hydro	Steam	Diesel	
1	2	3	4	5	6	7	8	9	10
<i>Public Sector</i>									
Number of sets	309	251	2	7	811	..		13	13.93
Installed capacity (MW)	5,857.26	5,893.92	420	114.00	196.14	..	..	2.03	12,483.35
<i>Private Sector</i>									
Number of sets	24	94	..	..	116	..	3	13	250
Installed capacity (MW)	277.51	1,302.23	..	..	37.61	..	0.27	1.51	1,619.13
Total Number	333	345	2	7	927	..	3	26	1,643
Total Capacity (MW)	6,134.77	7,196.12	420	114.00	247.98	..	0.27	3.54	14 102.75

1.11 Voltage of Generation

Generation voltage in India ranged from 230 volts to 33,000 volts in the case of AC generating sets, while for the DC generating sets it ranged from 110 volts to 500 volts. A very popular voltage for AC generation from steam and Hydro sets is 11 kV. Classification of generating sets according to the voltage of generation is given in Table 31.

2.12 Fuel Consumption

The fuel consumed in the thermal power stations in the various states in the year 1969-70 are given in Table 32. The steam power stations consumed approximately 17,105,693 tonnes of coal, 2,739,000 tonnes of wood and about 1,189,430 kilolitres of furnace oil. The gas turbines consuming diesel oil, and the diesel stations, consumed about 44,826 kilolitres of diesel oil for power generation. The average heat-in-put per kWh generated in the steam plants (including reciprocating steam plants) was 3,433 kilocalories and the average diesel oil consumption by the gas turbine and diesel power stations was 0.32 litre per kWh.

3. ENERGY UTILISATION

3.1.1 Table 33 gives the summary of energy generated and power purchased from non-utilities, power sold to ultimate consumers, and the amount of power lost in transformation, transmission and distribution including unaccounted consumption. 5.3% of the total energy generated and purchased was utilised by the power station auxiliaries. 83.2% of the net energy available for supply was sold to ultimate consumers. Thus the losses and energy unaccounted for from all sources were 16.8% of the total energy available for supply.

Table 35 gives further details of energy generated, purchased, and utilised and losses in transmission, transformation and distribution in the different States by all the Public Electricity Supply Undertakings and Private Sector.

3.1.2 Table 36 gives details of energy generated, purchased and utilised by State Electricity Boards, Government Electricity Departments of Union Territories, Jammu and Kashmir and Nagaland and the D.V.C.

3.1.3 *Inter-State Transfer of Energy*.—Table 34 gives data about the energy transfer and aggregate maximum demand of such transfers. The aggregate of inter-State energy transfers from undertakings in one State to those in the other was 6,52 million kWh. This compared to the total sales to ultimate consumers works to 15.5%. For comparison, the aggregate of inter-State energy transfers both as quantity and percentage of net generation from 1960-61 onwards is given below :—

(Million kWh)

Year	Total net generation	Aggregate of inter-State transfer of energy	Column 3 as percentage of Col. 2
1	2	3	4
1960-61	16,215	921	5.7
1961-62	19,056	781	4.1
1962-63	21,452	3,282	15.3
1963-64	25,750	3,273	12.7
1964-65	28,259	3,446	12.2
1965-66	29,155	3,761	12.9
1966-67	34,583	4,479	13.0
1967-68	39,120	5,139	13.1
1968-69	44,901	5,476	12.2
1969-70	49,239	6,452	13.1

3.2 Energy Sales

Table 37 gives the sales of Utilities to Ultimate Consumers who are classified under eight broad categories. 8.6% of the total sales of Utilities was for domestic light and small power, 5.7% for commercial lighting, heating, and small power, 69.1% for industrial, 1.0% for public lighting, 3.5% for railways and tramways, 9.2% for agricultural (pumping) 2.1% for public water works and sewage pumping and 0.8% for miscellaneous (including free supply).

The percentage increase in power sold by utilities during the year over the previous year for the categories (i) domestic light and small power, (ii) industrial power, (iii) traction and (iv) agricultural (pumping) was 9.7, 9.6, 16.2 and 8.9 respectively. The net average increase in power sales by Utilities, to all classes of consumers was 9.9% over that in the previous year.

Table 38 gives the segregation of net energy sold in each State according to different categories of consumption. The industrial power supply is sub-divided into low and medium voltage, and high voltage categories.

Similar segregation of net power sold in each State by State Electricity Board is given in Table 39 and that by the Private Sector in Table 40.

3.3 Electricity Consumption Per Capita (Utilities Plus Non-utilities)

The average per capita consumption of electricity for the Indian Union is estimated at 83.5 kWh in 1969-70 as compared to 77.9 kWh for the year 1968-69. The per capita consumption thus increased by 7.9% over that in the previous year.

Table 41 gives the annual per capita consumption of electricity in public utilities under five classes of utilisation in the different States based on the estimated mid-financial year population figures (*i.e.*) for 30th September, 1969, the mid-point of 1969-70. This table also gives the contribution made by self-generating industrial establishments including Indian Railways to the per capita consumption in each of the States.

The per capita consumption as computed on this basis for the years 1951, 1956, 1960-61, 1965-66, 1968-69 and 1969-70 are given below :—

Year	Per capita consumption		
	Public Utilities (kWh)	From self-generation of Non-Utilities kWh	Total (kWh)
1	2	3	4
1969-70	76.01	7.51	83.52
1968-69	70.81	7.07	77.88
1965-66 (last year of III Plan)	53.66	7.23	60.89
1960-61	31.85	6.30	38.15
1956	20.70	5.70	26.40
1951	13.25	4.53	17.78

The Union Territories of Chandigarh and Delhi showed the highest overall per capita consumption of electricity of 315.3 & 255.4 kWh respectively.

3.4 Per Capita Installed Capacity (Utilities)

Table 42 gives the installed capacity in Utilities per sq. kilometre and per thousand of population for each of the state in India.

During the period under review, the All India aggregate installed plant capacity of Utilities was 4.31 kW/sq. kilometre and 26.11 kW per thousand of population against 3.96 and 24.56 respectively in the previous year. For this purpose the estimated population figures worked out by the Census Authorities have been used (except for Chandigarh which has been roughly estimated).

3.5 Progress of Electricity Supply Industry

Table 44 gives the All India progress of electricity in utilities with details of installed plant capacity, aggregate maximum demand, kilowatt hours generated per kW of capacity etc. from the year 1939 onwards.

Tables 45(1) to 45(20) give the installed capacity, generation, purchase and sale of power etc., for each State separately for the years 1951, 1956, 1960-61, 1965-66, 1968-69 and 1969-70.

Table 46 gives All India index numbers (taking 1951 as the base year) for some of the salient features of the electricity supply industry (utilities), like installed plant capacity, generation and sales etc.

4. TRANSMISSION AND DISTRIBUTION

4.1 Transmission and Distribution Lines

The length of transmission and distribution lines under different voltages is given below. The comparative position in the previous year may also be seen.

Voltage	1968-69		(Circuit kilometres) 1969-70		Increase % age
	O.H.	U.G.	O.H.	U.G.	
1	2	3	4	5	6
22 kV	24,163	549	25,926	593	7.31
33 kV	53,254	868	57,791	557	7.81
44/37.5 kV	3,615	..	5,320	..	47.16
78/66 kV	21,239	..	21,644	..	1.91
110/90 kV	11,122	..	11,830	..	6.37
132 kV	22,934	..	25,816	..	12.57
220/230 kV	10,225	..	10,683	..	4.48
	146,552	1,417	159,010	1,150	8.24

O.H.—Overhead line.

U.G.—Underground.

The length of the lines in different States is given in Table 47. The total length of transmission and distribution lines added during the year was 139,759 circuit kilometres.

Length of transmission lines 33 kV and above, commissioned during the year are given in Table 48.

4.2 Transformers

The number of transformers installed at the end of the year was 14,723 in the Public Electricity Supply Undertakings. Their aggregate capacity was 60,508.0 MVA as classified below :—

	Number	Aggregate Capacity (MVA)
Step-up transformers	1,037	14,695.8
Step-down transformers	5,396	31,583.6
Distribution transformers	208,290	14,228.6
TOTAL	214,723	60,508.0

All step-down transformers having a secondary voltage above 550 volts have been classified as step-down transformers and those having secondary voltage below 550 volts have been classified as distribution transformers. Further details are given in Table 49. Some of the large power transformers commissioned during the year are indicated in Table 50.

4.3 Consumer and Connected Load Data (Utilities)

The particulars relating to the consumers and their connected loads, as at the end of the year, presented in Tables 51 and 52, are summarised below :—

1	Number of consumers			Total connected load (MW)
	A.C.	D.C.	Total	
	2	3	4	5
Domestic light & small power	8,782,222	345,784	9,128,006	4,842.64
Commercial light & small power	2,077,511	37,668	2,115,179	2,657.82
Industrial Power				
(i) LV & MV	473,805	15,330	489,135	4,016.34
(ii) H.V.	10,406	..	10,406	6,234.07
Public lighting	53,827	85	53,912	159.61
Traction	53	..	53	226.93
Agricultural (Pumping) (Provisional).	1,338,085	2	1,338,087	5,359.18
Public Water Works & Sewage Pumping	9,688	6	9,694	278.35
Miscellaneous	19,343	116	19,459	463.48
	12,764,263	398,991	13,163,254	24,238.42

The number of consumers at the beginning of the year was approximately 11,935,624. During the year approximately 2,531,340 (new consumers were connected thus recording a rise of 23.97% in their number.

4.4 Towns and Villages Electrified

Tables 53-54 shows the State-wise distribution of towns and villages electrified by the end of the year. The total number of towns and villages electrified was 2,688 and 89,780 respectively as per 1961 census.

5. POWER GENERATED AND USED IN SELECTED INDUSTRIES (EXCLUDING RAILWAYS)

Statistical data from 1,068 industrial establishments were received and have been analysed. These establishments consumed 19,926 million kWh of energy. Out of this 16,418 million kWh were purchased from public electric utilities and 4,518 million kWh were generated in the power plants owned by 445 self generating non-utilities. It should be noted that while the coverage self of generating industries is enough but not complete, it is not possible to cover all the thousands of industrial establishments consuming electricity. The consumption mentioned above therefore represents the consumption of the establishments covered and do not represent the total consumption in the selected industry as a whole.

The generating plant capacity of the covered self-generating industries increased 95 MW (increase including error due to reporting). Reukot Power House in Uttar Pradesh has been treated as a licensee.

The industry-wise and State-wise data of generating plant capacity, maximum demand, energy, generation and purchase relating to selected industries are given in Tables 55 and 56 respectively.

The total installed plant capacity in the industrial power stations was 1372.29 MVA. This capacity was about 8.8% of the total installed plant capacity in the power stations owned by both the public utilities and industrial undertakings including the Indian Railways.

The cotton textiles, aluminium (Primary), iron and steel (Primary), fertilizers, chemicals, cement (Primary) and jute industries were large purchasers of power from electricity supply undertakings. Fertilizers oil and petroleum, sugar, paper, silk, cement (Primary), collieries, and copper (Primary), industries generated a large portion of their requirements in their own power stations.

The distribution of energy generation in industrial establishments according to range of plant capacity is given in Table 57. 30 Undertakings with plant capacity of 10·001 MW and above produced 74·48% of the total power generated in the industrial power stations. 153 industries with plant capacity in the range of 1·001 to 10·000 MW generated 23·94% of the total power and the remaining 262 industries generated only 1·58% of the total electricity production by all the industries.

Tables 58 and 59 give the installed generating plant capacity and consumption of energy in 26 classified industries and in the miscellaneous category in each State. The power consumption and load factor of a few important industries are summarised below :—

Name of Industry	Energy Consumption (Million kWh)	System Load Factor %
1	2	3
1. Aluminium (Primary)	2,654.3	89.62
2. Cement (Primary)	1,242.7	70.68
3. Chemicals	1,530.4	75.12
4. Collieries	615.6	44.64
5. Cotton textiles	3,103.3	62.96
6. Engineering	564.3	42.12
7. Fertilizers	2,972.2	86.45
8. Iron & Steel (Primary)	2,846.3	57.60
9. Jute	675.4	60.50
10. Paper	843.2	66.96
11. Silk	729.0	81.02
12. Sugar	398.8	27.57

6. RAILWAYS

Electricity statistics in respect of the Indian Railways is shown separately in Tables 60 and 61. This, however, does not include the Chola Power Station of the Central Railway which is covered under public utilities.

The salient features of the Railways Power Stations are summarised below :—

Aggregate installed plant capacity (MW)	45.14
Aggregate Maximum Demand (MW)	25.36
Generation (Million kWh)	36.65
Consumption in power station auxiliaries (Million kWh) }	3.60

The steam power stations of the Railways generated 31·6 million kWh and the Diesel Stations 49·66 million kWh.

7. ELECTRICAL ACCIDENTS

Table 26 gives a consolidated summary of the frequency of accidents in the various sections of the electricity supply undertakings as compared to the industrial undertakings. The data which are unfortunately, only partly received, are summarised below :—

Section	Number of Fatal Accidents	
	Electricity Supply Undertakings	Industrial Undertakings
Generation	94(1)*	30
Transmission	275(38)*	2
Distribution	857(324)*	41(7)*
TOTAL	1,226(363)*	73(7)*

* Accidents to animals.

The accidents in distribution systems are 16.8 times to those in generation premises in respect of electricity supply undertakings.

8. FINANCIAL DATA OF PUBLIC ELECTRICITY SUPPLY UNDERTAKINGS

This Section gives consolidated financial data viz. Capital Expenditure, Operating Revenue, Operating Expenses etc. of the Electricity Supply Undertakings as compiled from their Annual Statutory Accounts.

At the end of the year of report the electricity supply industry held assets worth Rs. 264,354 lakh as against Rs. 230,107 lakhs at the end of 1967-68 covering 12,190,454 Million kW of installed plant capacity and a sale of 35,030 MkWh. This takes into account the data received from 213 out of 234 undertakings owned and operated by the State Electricity Boards/Government Depts, Power Corporations, Municipalities and Private Licensees. Of the remaining undertakings, 6 companies, 6 municipality-owned undertakings, Electricity Depts. of the Jammu and Kashmir, Nagaland, Chandigarh, Dadra & Nagar Haveli, NEFA etc. covers only 6% of the total installed capacity. In case of some Union Territories, where 1968-69 figures were not available, older figures, as available, have been repeated in working out the tables. The break-up of the assets according to ownership is given below :—

	1967-68 (Rs. in lakhs)	1968-69 (Rs. in lakhs)
1. Government and Boards	1 94,647*	226 402*
2. Municipalities	9,341	10,461
3. Private Companies	26,119	27,491
TOTAL	230,107	264,354

*Including works-in-progress of Uttar Pradesh Board.

9. FINANCING

Under the existing provisions of the Electricity (Supply) Act, 1948, the assets of the State Electricity Boards are made up of the borrowings from the public as well as the State Governments. The private licensee's assets are financed from the share capital as well as debentures and secured loans raised from the public.

The capital account of the private companies for the year 1968-69 indicates that the equity and preference share capital as at the end of the year 1968-69 was Rs. 4,509 lakhs and Rs. 959 lakhs as against Rs. 4,490 lakhs and Rs. 969 lakhs respectively at the end of 1967-68 (Table-II).

10. REVENUE

10.1 The revenue realised by sale of electricity during the year indicates a general overall increase in all categories of service, as per details given below :—

I. Sale of Electricity	1967-68	1968-69
	(Rs. lakhs)	(Rs. lakhs)
(i) Domestic & Residential	6,378	7,168
(ii) Commercial	3,306	4,302
(iii) Industrial	18,466	21,454
(iv) Public Water Works and Sewage Pumping	762	724
(v) Traction	793	698
(vi) Public Lighting maintenance	713	943
(vii) Irrigation	2,793	4,214
(viii) Other revenue	10,032	11,805
TOTAL	43,243	51,308

10.2 The total revenue and operating expenses (ownership-wise) are given below :

A. Revenue	1967-68	%	1968-69%	
	(Rs. lakhs)		(Rs. lakhs)	
1. Government/State Electricity Boards/ Power Corporations.	29,815	68.95	36,424	70.99
2. Municipalities	3,083	7.13	3,488	6.80
3. Companies	10,345	23.92	11,396	22.21
TOTAL	43,243	100.00	51,308	100.00
B. Operating Expenses	1967-68	1968-69		
	(Rs. lakhs)	(Rs. lakhs)		
1. Government/State Electricity Boards/Power Corporations				
(i) Expenses	16,924		19,997	
(ii) Depreciation	4,981		6,012	
(iii) Interest Charges	8,774		12,156	
TOTAL	30,679		38,165	
2. Municipalities				
(i) Expenses	2,314		2,626	
(ii) Depreciation	141		227	
(iii) Interest Charges	258		330	
TOTAL	2,713		3,183	

	1967—68	1968—69
3. Companies	(Rs. lakhs)	(Rs. lakhs)
(i) Expenses	7,934	9,020
(ii) Depreciation	706	803
(iii) Interest Charges	456	483
TOTAL	9,096	10,306
TOTAL (1+2+3)	42,488	51,654

11. REVENUE PER kWh SOLD UNDER EACH CATEGORY

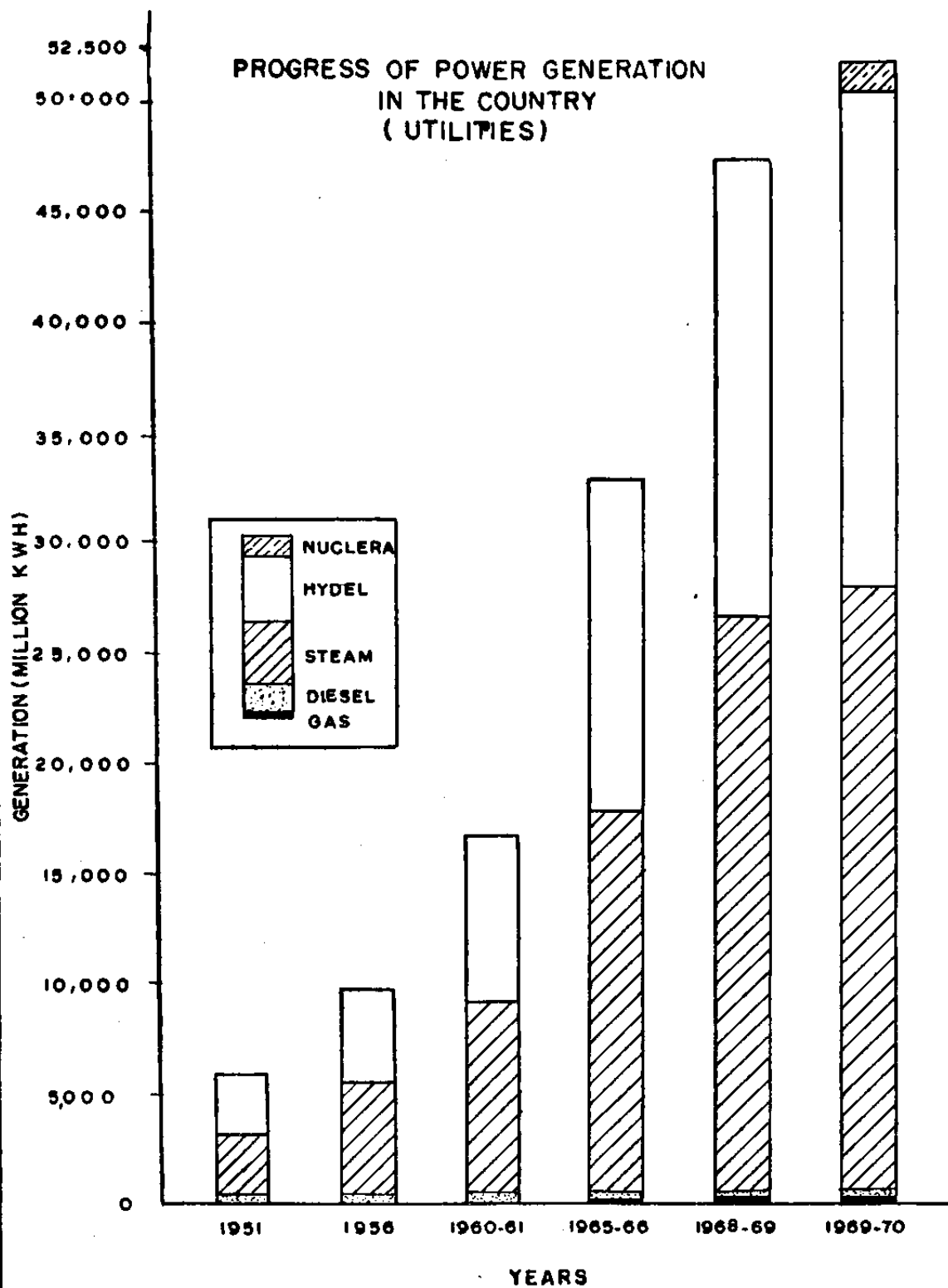
The average overall revenue by sale of electricity (excluding other revenue) for the year 1968-69, was 12.48 paise per unit. Table VI gives the revenue realised by each category of consumers for the electricity supply industry as a whole.

12. TENTATIVE FINANCIAL RESULTS OF THE STATE ELECTRICITY BOARDS, MUNICIPALITIES, COMPANIES, ETC. DURING 1969-70

A few broad particulars of the tentative financial results of operation of the State Electricity Boards, Municipalities, Companies, etc. for the year 1969-70 are detailed below:—

Particulars	State Electricity Boards/ Departments/ Power Corporations	Municipalities	Private Companies	Total
	(Rs. in lakha)			
1. Total Fixed assets	261,038	11,000	30,930	302,968
2. Gross revenue	42,707	3,835	12,595	59,137
3. Total operating expenses including depreciations and interest charges	43,287	3,515	11,320	58,122
4. Surplus/Deficit	(—) 580	(+) 320	(+) 1,275	(+) 1,015

PROGRESS OF POWER GENERATION IN THE COUNTRY (UTILITIES)



Tables—Section 1
TECHNICAL STATISTICS

TABLE 1—SALIENT FEATURERS OF THE ELECTRICITY SUPPLY INDUSTRY

Year	30-12-1950*	31-12-1955*	31-3-1961	31-3-1966	31-3-1969	31-3-1970
1	2	3	4	5	6	7
1. GENERATING CAPACITY (MW)						
<i>(a) Utilities</i>						
Hydro Plant	559.29	939.48	1,916.66	4,123.75	5,906.91	6,134.77
Steam Plant	1,004.43	1,546.81	2,436.26	4,417.11	6,640.34	7,196.39
Diesel Plant	148.80	208.53	300.14	352.16	276.02	237.29
Gas Turbine Plant . . . . .	..	..	..	134.00	134.00	114.00
Nuclear . . . . .	..	..	..	..	..	420.00
‡TOTAL	1,712.52	2,694.82	4,653.05	9,027.02	12,957.27	14,102.45
<i>(b) Non-Utilities</i>						
(i) Self-generating Industry	587.85	723.51	1,001.37	1,082.36	1,277.47	1,372.29
(ii) Railways . . . . .	..	..	..	63.64	61.93	45.14
‡TOTAL	587.85	723.51	1,001.37	1,146.00	1,339.40	1,417.43
ALL INDIA GRAND TOTAL	2,300.37	3,418.33	5,654.42	10,173.02	14,296.67	15,519.88
Year	1951	1956	1960-61	1965-66	1968-69	1969-70
2. GENERATION (GROSS) (MILLION KWH)						
<i>(a) Utilities</i>						
Hydro Plant	2,859.70	4,294.88	7,836.6	15,224.97	20,722.7	23,046.05
Steam Plant	2,779.06	5,133.90	8,732.4	17,372.18	26,393.7	27,296.87
Diesel	219.65	233.36	368.0	323.68	193.5	136.24
Gas Turbine Plant . . . . .	..	..	..	69.30	123.4	170.56
Nuclear . . . . .	..	..	..	..	..	1,339.00
‡TOTAL	5,858.40	9,662.13	16,937.0	32,990.13	47,433.3	51,986.72
<i>(b) Non-Utilities</i>						
(i) Self-generating Industry	1,655.57	2,209.51	3,186.10	3,733.19	4,136.1	4,518.06
(ii) Railways . . . . .	..	..	..	101.94	72.1	36.65
‡TOTAL	1,655.57	2,209.51	3,186.10	3,835.13	4,208.2	4,554.71
ALL INDIA GRAND TOTAL	7,513.97	11,871.64	20,123.10	36,825.25	51,641.5	56,543.43
3. ENERGY USED BY POWER STATION AUXILIARIES (MILLION KWH)						
	218.32	386.45	721.86	1,647.46	2,532.14	2,749.33
4. GENERATION (UTILITIES) (NET)						
	5,640.08	9,275.68	16,215.14	31,342.84	44,901.21	49,239.39
5. ENERGY PURCHASED FROM NON-ELECTRIC UTILITIES (MILLION) KWH						
	17.74	18.64	223.04	12.92	96.29	102.10

*Nearest dates to beginnings of First & Second Plans for which data available.

‡Totals may not tally due to rounding off.

TABLE 1—SALIENT FEATURES OF THE ELECTRICITY SUPPLY INDUSTRY—Contd.

Year	1951	1956	1960-61	1965-66	1968-69	1969-70
1	2	3	4	5	6	7
6. SALES (MILLION KWH)						
(a) Domestic light and small Power.	594.08	934.12	1,492.29	2,355.14	3,184.19	3,491.00
(b) Commercial light and small power.	330.02	545.85	847.74	1,650.07	2,125.74	2,333.33
(c) Industrial—						
(i) Upto 650 volts	575.26	931.84	1,641.12	2,709.81	3,452.50	3,540.56
(ii) Above 650 volts	2,483.63	4,391.59	8,055.28	16,166.08	22,438.77	24,838.10
(d) Public lighting	67.60	117.77	193.24	279.57	372.09	417.65
(e) Railways/Tramways	329.59	404.93	453.92	1,057.28	1,246.58	1,448.32
(f) Agricultural	203.05	316.18	832.92	1,891.84	3,465.54	3,774.11
(g) Public Water Works & Sewage Pumping.	210.12	317.08	436.19	625.16	837.17	880.04
(h) Miscellaneous	*	*	*	*	229.81	338.59
‡TOTAL	4,793.34	7,959.35	13,952.72	26,734.94	37,352.35	41,061.70
7. ENERGY LOST IN TRANSFORMATION TRANSMISSION AND DISTRIBUTION AND UNACCOUNTED FOR.	864.48	1,334.98	2,485.47	4,585.18	7,214.51	8,279.8
8. FUEL CONSUMPTION :						
(a) <i>In steam power stations—</i>						
(i) Coal (Tonnes)	2,478,200	4,067,350	6,699,590	10,273,634	13,807,758	13,948,693
(ii) Lignite (Tonnes) . . . . .	..	..	..	2,184,106	2730,000	3,135,000
(iii) Wood (Tonnes) . . . . .	..	..	..	14,196	22,106	22,100
(iv) Furnace Oil (kilo litres)	..	..	..	422,848	1,125,303	1,189,439
(b) <i>Diesel power stations—</i>						
(v) Diesel Oil (kilo litres)	85,181	83,124	122,052	185,878	68,677	44,826
9. AGGREGATE MAXIMUM DEMAND (MW)	1,205.19	1,989.77	3,545.93	7,306.23	10,872.06	11,946.18
10. TRANSMISSION AND DISTRIBUTION LINES KM (AT THE END OF YEAR).	†39,380.00	†50,000.00	†146,737.26	541,475.9	836,301	976,059
11. AUTHORISED UNDERTAKINGS* (AT THE END OF YEAR)						
(a) <i>Public Sector</i>						
(i) Generating & Distributing . . . . .	..	..	..	..	17	18
(ii) Generating, Purchasing & Distributing.	269	69	74	80	32	32
(iii) Purchasing & Distributing . . . . .	..	..	..	..	32	32
SUB TOTAL (a)	269	69	74	80	81	82

*The figures have been changed from 1965-66 & onwards by treating the State Electricity Board and Government Electricity Department in the same State as two separate undertakings.

†Excludes L.T. Lines upto 500 volts.

‡Totals may not tally due to rounding off.

TABLE 1—SALIENT FEATURES OF THE ELECTRICITY SUPPLY INDUSTRY—contd.

Year	1951	1956	1960-61	1965-66	1968-69	1969-70
1	2	3	4	5	6	7
(b) Private Sector						
(i) Generating & Distributing . . .	..	..	..	..	9	7
(ii) Generating, Purchasing & Distributing . . .	316	301	263	180	35	36
(iii) Purchasing & Distributing . . .	..	..	..	..	109	102
SUB TOTAL (b) . . .	316	301	263	180	153	145
GRAND TOTAL . . .	585	370	337	260	234	227
Year	31-12-50†	31-12-55†	31-3-61	31-3-66	31-3-69	1969-70
12. NO. OF CONSUMERS—						
(a) Domestic Light and Small Power	1,157,016	1,929,432	3,666,889	6,379,240	8,388,113	9,127,839
(b) Commercial Light and Small Power.	259,016	430,123	672,554	1,408,958	1,930,516	2,115,179
(c) (i) Industrial Power upto 650 volts including Public Water Works and Sewage Pumping.	..	..	..	..	461,304	498,329
(ii) Industrial Power above 650 volts including Railways.	63,043§	99,317§	178,692§	330,300§	9,678	10,459
(d) Public Lighting	2,214	3,082	15,126	51,181	52,124	53,912
(e) Agricultural (Pumping) . . .	19,316	46,626	195,902	508,372	1,077,902	1,338,087
(f) Miscellaneous	*	*	*	*	15,982	19,459
‡TOTAL	1,500,605	2,508,580	4,729,163	8,678,051	11,935,624	13,163,254
13. CONNECTED LOAD (MW)						
(a) Domestic light & small power	733.86	1,225.68	2,234.79	3,689.45	4,803.08	4,842.64
(b) Commercial Light & Small Power.	401.30	365.68	526.07	1,022.75	1,975.16	2,657.82
(c) (i) Industrial Power upto 650 volts including Public Water Works and Sewage Pumping.	..	..	..	..	3,944.99	4,294.69
(ii) Industrial power—above 650 volts including Railways.	1,561.68§	2,455.39§	4,561.92§	6,749.09§	6,421.64	6,461.00
(d) Public lighting	20.67	33.26	76.16	104.52	146.26	159.61
(e) Agricultural (Pumping) . . .	117.56	242.60	826.53	2,037.35	4,219.56	5,359.18
(f) Miscellaneous . . . . .	..	..	..	..	549.46	463.48
‡TOTAL	2,835.06	4,322.60	8,225.46	13,603.15	22,060.15	24,238.42

†Nearest available data for beginning of First and Second Plan.

§Includes figures for item 11 (c) (i).

*Included in Commercial.

‡Totals may not tally due to rounding off.

§Includes figures for item 12 (c) (i).

TABLE 1—SALIENT FEATURES OF THE ELECTRICITY SUPPLY INDUSTRY—*concl.*

Year	30-12-1950	31-12-1956†	31-3-1961	31-3-1966	31-3-1969	31-3-197..
1	2	3	4	5	6	7
14. ELECTRIFIED TOWNS AND VILLAGES	4,051	8,751	23,969	54,816	74,087	92,468
15. PER CAPITA GENERATION (MID-YEAR) (UTILITIES & NON-UTILITIES)	20.8	30.9	43.9	73.81	97.82	104.70
16. PER CAPITA CONSUMPTION (MID-YEAR) (UTILITIES AND NON-UTILITIES)	17.8	26.4	39.2	61.33	77.88	83.52

†Nearest available data for beginning of First and Second Plans.

TABLE 2—INSTALLED PLANT CAPACITY (AS ON 31-3-70) AND GENERATION BY TYPE OF PLANT AND OWNERSHIP

Sl. No.	Type of Plant and Ownership	Installed Plant Capacity (MW)	Percentage of total	Generation (Million kWh)		Percentage of Net Generation
				Gross	Net	
1	2	3	4	5	6	7
I.	HYDRO					
	<i>Public Sector</i>					
	(a) State Electricity Boards	4,863.16	34.5	18,252.32	18,188.13	36.9
	(b) Electricity Departments/Govt. Undertakings/D.V.C.	986.24	7.0	3,585.15	3,570.55	7.3
	(c) Municipalities	7.86	0.1	20.44	20.09	0.04
	SUB-TOTAL	5,857.26	41.6	21,857.91	21,778.77	44.24
	<i>Private Sector</i>					
	Companies	277.51	1.9	1,188.14	1,180.58	2.4
	TOTAL (I)	6,134.77	43.5	23,046.60	22,959.35	46.69
	II.	STEAM				
<i>Public Sector</i>						
(a) State Electricity Boards		3,415.79	24.2	12,349.78	11,154.88	22.7
(b) Electricity Departments/Govt. Undertakings/D.V.C.		2,247.10	15.9	7,965.34	7,013.80	14.4
(c) Municipalities		231.00	1.7	697.15	627.39	1.3
SUB-TOTAL		5,893.89	41.8	21,012.27	18,896.07	38.4
<i>Private Sector</i>						
Companies		1,302.50	9.2	6,284.60	5,860.20	11.9
TOTAL (II)		7,196.39	51.0	27,296.87	24,756.27	50.3
III.		DIESEL				
	<i>Public Sector</i>					
	(a) State Electricity Boards	151.62	1.1	67.23	63.71	0.1
	(b) Electricity Departments / Govt. Undertakings /D.V.C.	18.09	0.1	25.47	29.94	0.1
	(c) Municipalities	28.46	0.2	8.05	16.63	Neg.
	SUB-TOTAL	198.17	1.4	100.75	110.28	0.2
	<i>Private Sector</i>					
	Companies	39.12	0.3	35.49	33.60	0.1
	TOTAL (III)	237.29	1.7	136.24	143.88	0.3

TABLE 2—INSTALLED PLANT CAPACITY (AS ON 31-3-70) AND GENERATION BY TYPE OF PLANT AND OWNERSHIP—*Concl.*

Sl. No.	Type of Plant and ownership	Installed Plant Capacity (MW)	Percentage of total	Generation (Million kWh)		Percentage of Net Generation
				Gross	Net	
1	2	3	4	5	6	7
IV.	GAS TURBINE					
	<i>Public Sector</i>					
	(a) State Electricity Boards	114.00	0.8	170.56	165.96	0.3
	(b) Electricity Departments/Govt. Undertakings/D.V.C.	..	..	..	..	..
	(c) Municipalities . . . . .	..	..	..	..	..
	SUB-TOTAL	114.00	0.8	170.56	165.96	0.3
	<i>Private Sector</i>					
Companies . . . . .	..	..	..	..	..
TOTAL (IV)	114.00	0.8	170.56	165.96	0.3	
V.	NUCLEAR					
	<i>Public Sector</i>					
	(a) State Electricity Boards . . . . .	..	..	..	..	..
	(b) Govt. Undertakings/Elect. Deptt./D.V.C.	420.00	3.0	1,339.00	1,228.50	2.5
	(c) Municipalities . . . . .	..	..	..	..	..
	SUB-TOTAL	420.00	3.0	1,339.00	1,228.50	2.5
	<i>Private Sector</i>					
Companies . . . . .	..	..	..	..	..
TOTAL (V)	420.00	3.00	1,339.00	1,228.50	2.5	
GRAND TOTAL (I+II+III+IV+V)	14,102.45	100.00	51,988.72	49,239.39	100.00	

TABLE 3—INSTALLED PLANT CAPACITY AND GENERATION BY OWNERSHIP AND INCREASE OVER PREVIOUS YEAR (UTILITIES)

Ownership	No. of Undertakings	Installed plant capacity			Generation		
		As on 31-3-70	Percentage of total	Increase over 31-3-69 %	Energy Generated 1969-70 (Million k W)	Percentage of generation gross	Increase of Generation (Gross) in 1969-70 over 1968-69 %
1	2	3	4	5	6	7	8
1. Public Sector							
(a) State Electricity Boards	15	8,544.47	60.59	8.2	30,839.89	59.32	10.05
(b) Government departments	19	1,168.93	8.27	(—)9.0	3,796.28	7.38	7.2
(c) Government undertaking	4	1,441.00	10.24	75.5	5,003.70	9.55	35.2
(d) D.V.C.	1	1,061.50	7.52	Nil	4,114.98	7.92	(—)8.39
(e) Municipalities	43	267.32	1.90	(—)1.4	725.64	1.39	14.45
SUB-TOTAL	82	12,483.22	88.52	10.1	44,480.49	85.56	10.12
2. Private Sector							
(a) Companies	145	1,619.23	11.48	(—)0.2	7,508.23	14.44	6.61
TOTAL	227	14,102.45	100.00	8.8	51,988.72	100.00	9.61

TABLE 4—STATEWISE INSTALLED CAPACITY GENERATION AND NO. OF UNDERTAKINGS
(UTILITIES) SECTOR-WISE

Sl. No.	State	Public Sector			
		State Electricity Boards			
		No. of Undertakings	Installed Plant Capacity† (MW)	Energy Generated Gross† (Million kWh)	Energy Generated Net (Million kWh)
1	2	3	4	5	6
1	Andhra Pradesh	1	475.09	1,844.94	1,732.46
2	Assam	1	155.00	309.50	303.37
3	Bihar	1	308.15	987.24	872.87
4	Gujarat	1	408.74	1,890.55	1,726.56
5	Haryana	1	504.31	1,912.54	1,887.61
6	Jammu & Kashmir . . . . .	..	..	..	..
7	Kerala	1	548.10	2,027.57	2,019.28
8	Madhya Pradesh	1	743.20	2,177.82	1,995.51
9	Maharashtra	1	866.27	4,280.14	4,139.63
10	Mysore	1	206.26	1,191.01	1,185.20
11	Nagaland . . . . .	..	..	..	..
12	Orissa	1	279.93	811.25	806.48
13	Punjab	1	670.26	2,728.94	2,721.27
14	Rajasthan	1	537.09	1,445.49	1,411.47
15	Tamil Nadu	1	1,220.50	3,133.91	3,087.09
16	Uttar Pradesh	1	1,216.79	4,700.37	4,400.12
17	West Bengal	1	404.78	1,398.62	1,283.76
18	D.V.C. . . . .	..	..	..	..
<i>Union Territories—</i>					
	(a) Delhi . . . . .	..	..	..	..
	(b) Andaman & Nicobar Islands* . . . . .	..	..	..	..
	(c) Chandigarh . . . . .	..	..	..	..
	(d) Dadra & Nagar Haveli . . . . .	..	..	..	..
	(e) Goa, Daman & Diu . . . . .	..	..	..	..
	(f) Himachal Pradesh . . . . .	..	..	..	..
	(g) Laccadive, Minicoy & Amindive Islands . . . . .	..	..	..	..
	(h) Manipur . . . . .	..	..	..	..
	(i) N.E.F.A.	DATA NOT AVAILABLE			
	(j) Pondicherry . . . . .	..	..	..	..
	(k) Tripura . . . . .	..	..	..	..
	ALL INDIA	15	8,544.47	30,839.89	29,572.68

TABLE 4—STATEWISE INSTALLED CAPACITY GENERATION AND NO. OF UNDERTAKINGS
(UTILITIES) SECTOR-WISE—Contd.

Sl. No.	State	Public Sector			
		Electricity Deptt./Govt. Undertakings/Corpn.			
		No. of Undertakings	Installed Plant Capacity† (MW)	Energy Generated Gross‡ (Million kWh)	Energy Generated Net (Million kWh)
1	2	7	8	9	10
1	Andhra Pradesh	2	137.93	834.65	832.42
2	Assam . . . . .	..	..	..	..
3	Bihar	1	5.00	0.23	0.23
4	Gujarat . . . . .	..	210.00	669.50	614.25
5	Haryana . . . . .	..	..	..	..
6	Jammu & Kashmir	1	40.36	173.76	167.35
7	Kerala . . . . .	..	..	..	..
8	Madhya Pradesh . . . . .	..	..	..	..
9	Maharashtra	2	346.00	927.86	841.41
10	Mysore	1	671.30	2,098.20	2,091.42
11	Nagaland	1	2.00	1.59	1.53
12	Orissa	1	284.42	652.15	598.48
13	Punjab	1	10.00	N.A.	N.A.
14	Rajasthan . . . . .	..	..	..	..
15	Tamil Nadu	1	600.00	2,520.21	2,249.30
16	Uttar Pradesh . . . . .	..	..	..	..
17	West Bengal	2	289.00	899.27	799.19
18	D.V.C.	1	1,061.50	4,114.98	3,719.57
<i>Union Territories—</i>					
	(a) Delhi . . . . .	..	..	..	..
	(b) Andaman & Nicobar Islands*	1	1.76	3.50	3.20
	(c) Chandigarh	1	2.58	0.05	0.04
	(d) Dadra & Nagar Haveli	1	..	..	..
	(e) Goa, Daman & Diu	1	**	0.72	0.70
	(f) Himachal Pradesh	1	2.42	3.86	3.81
	(g) Laccadive Minicoy & Amindive Islands	1	0.41	0.27	0.26
	(h) Manipur	1	3.46	6.23	6.14
	(i) N.E.F.A.		DATA NOT AVAILABLE		
	(j) Pondicherry	1	..	..	..
	(k) Tripura	1	3.29	7.93	7.81
	ALL INDIA	24	3,671.43	12,914.96	11,937.11

TABLE 4—STATEWISE INSTALLED CAPACITY GENERATION AND NO. OF UNDERTAKINGS
(UTILITIES) SECTOR-WISE—Contd.

Sl.No.	State	Public Sector			
		Municipalities			
		No. of Un- dertakings	Installed Plant Capacity† (MW)	Energy Gen- erated Gross† (Million kWh)	Energy Gene- rated Net (Million kWh)
1	2	11	12	13	14
1	Andhra Pradesh . . . . .	..	..	..	..
2	Assam . . . . .	..	..	..	..
3	Bihar . . . . .	..	..	..	..
4	Gujarat	10	1.50	4.37	4.20
5	Haryana . . . . .	..	..	..	..
6	Jammu & Kashmir . . . . .	..	..	..	..
7	Kerala	1	..	..	..
8	Madhya Pradesh . . . . .	..	..	..	..
9	Maharashtra	7	0.05	0.01	0.01
10	Mysore . . . . .	..	..	..	..
11	Nagaland . . . . .	..	..	..	..
12	Orissa . . . . .	..	..	..	..
13	Punjab	1	..	..	..
14	Rajasthan	1	0.37	N.A.	N.A.
15	Tamil Nadu	5	..	..	..
16	Uttar Pradesh	13	7.37	10.26	10.13
17	West Bengal	1	3.10	2.94	2.93
18	D.V.C. . . . .	..	..	..	..
<i>Union Territories—</i>					
	(a) Delhi	2	251.82	699.07	629.27
	(b) Andaman & Nicobar Islands* . . . . .	..	..	..	..
	(c) Chandigarh . . . . .	..	..	..	..
	(d) Dadra & Nagar Haveli . . . . .	..	..	..	..
	(e) Goa, Daman & Diu	1	..	..	..
	(f) Himachal Pradesh	1	3.11	8.99	8.68
	(g) Laccadive Minicoy & Amindive Islands . . . . .	..	..	..	..
	(h) Manipur . . . . .	..	..	..	..
	(i) N.E.F.A. . . . .	..	..	..	..
	(j) Pondicherry . . . . .	..	..	..	..
	(k) Tripura . . . . .	..	..	..	..
	ALL INDIA	43	267.32	725.64	655.22

DATA NOT AVAILABLE

TABLE 4—STATEWISE INSTALLED CAPACITY GENERATION AND NO. OF UNDERTAKINGS
(UTILITIES) SECTOR-WISE—Contd.

Sl. No.	State	Private Sector			
		Companies			
		No of Under- takings (MW)	Installed Plant Capacity† (MW)	Energy Gen- erated Gross† (Million kWh)	Energy Gen- erated Net (Million kWh)
1	2	15	16	17	18
1	Andhra Pradesh . . . . .	..	..	..	..
2	Assam	3	3.45	12.63	12.25
3	Bihar	10	30.84	101.36	93.70
4	Gujarat	22	241.80	1,143.60	1,076.98
5	Haryana	1	0.10	..	..
6	Jammu & Kashmir . . . . .	..	..	..	..
7	Kerala	4	..	..	..
8	Madhya Pradesh	5	17.70	10.12	8.68
9	Maharashtra	36	625.17	3,193.40	3,053.21
10	Mysore	9	0.59	..	..
11	Nagaland . . . . .	..	..	..	..
12	Orissa . . . . .	..	..	..	..
13	Punjab	1	..	..	..
14	Rajasthan	4	9.85	3.42	3.23
15	Tamil Nadu	7	..	..	..
16	Uttar Pradesh	18	175.34	1,188.87	1,094.99
17	West Bengal	24	512.35	1,850.15	1,726.77
18	D.V.C. . . . .	..	..	..	..
	<i>Union Territories—</i>				
	(a) Delhi . . . . .	..	..	..	..
	(b) Andaman & Nicobar Islands* . . . . .	..	..	..	..
	(c) Chandigarh . . . . .	..	..	..	..
	(d) Dadra & Nagar Haveli . . . . .	..	..	..	..
	(e) Goa, Daman & Diu	1	2.04	4.68	4.57
	(f) Himachal Pradesh . . . . .	..	..	..	..
	(g) Laccadive, Minicoy & Amindive Islands . . . . .	..	..	..	..
	(h) Manipur . . . . .	..	..	..	..
	(i) N.E.F.A.	DATA	NOT	AVAILABLE	..
	(j) Pondicherry . . . . .	..	..	..	..
	(k) Tripura . . . . .	..	..	..	..
	ALL INDIA	145	1,619.23	7,508.23	7,074.38

TABLE 4—STATEWISE INSTALLED CAPACITY GENERATION AND NO. OF UNDERTAKINGS
(UTILITIES) SECTOR-WISE—Concl'd.

Sl.No.	State	Total			
		No. of undertakings	Installed Plant Capacity† (MW)	Energy Generated Gross† (Million kWh)	Energy Generated Net (Million kWh)
1	2	19	20	21	22
1	Andhra Pradesh	3	618.02	2,679.59	2,564.88
2	Assam	4	158.45	322.13	315.62
3	Bihar	12	343.99	1,088.83	966.80
4	Gujarat	33	862.04	3,708.02	3,421.99
5	Haryana	2	504.41	1,912.54	1,887.61
6	Jammu & Kashmir	1	40.36	173.76	167.35
7	Kerala	6	548.10	2,027.57	2,019.28
8	Madhya Pradesh	6	760.90	2,187.94	2,004.19
9	Maharashtra	46	1,837.49	8,401.41	8,034.26
10	Mysore	11	878.15	3,289.21	3,276.62
11	Nagaland	1	2.00	1.59	1.53
12	Orissa	2	564.35	1,463.40	1,404.96
13	Punjab	4	680.26	2,728.94	2,721.27
14	Rajasthan	6	547.31	1,448.91	1,414.70
15	Tamil Nadu	14	1,820.50	5,654.12	5,36.39
16	Uttar Pradesh	32	1,399.50	5,899.50	5,505.24
17	West Bengal	28	1,209.23	4,150.98	3,812.65
18	D.V.C.	1	1,061.50	4,114.98	3,719.57
<i>Union Territories—</i>					
	(a) Delhi	2	251.82	699.07	629.27
	(b) Andaman & Nicobar Islands*	1	1.76	3.50	3.20
	(c) Chandigarh	1	2.58	0.05	0.04
	(d) Dadra & Nagar Haveli	1	..	..	..
	(e) Goa, Daman & Diu	3	2.04	5.40	5.27
	(f) Himachal Pradesh	2	5.53	12.85	12.49
	(g) Laccadive, Minicoy & Amindive Islands	1	0.41	0.27	0.26
	(h) Manipur	1	3.46	6.23	6.14
	(i) N.E.F.A.		DATA NOT AVAILABLE		
	(j) Pondicherry	1	..	..	..
	(k) Tripura	1	3.29	7.93	7.81
	ALL INDIA	228	14,102.45	51,988.72	49,239.39

*Data for Andaman & Nicobar Islands repeated as no data has been received.

†The installed capacity and generation of jointly owned projects has been shown divided between the partner states as per their shares.

**Installed capacity of the Govt. of Goa, Daman & Diu has been taken nil as all the power houses have been closed down as per information received from their Department.

TABLE 5—INSTALLED PLANT CAPACITY† (31-3-70) AGGREGATE MAXIMUM DEMAND AND ENERGY GENERATED BY TYPE OF PLANT

Sl.No.	State/Power Corporation	Hydro			
		Installed Plant Capacity† (MW)	Maximum Demand (Aggregate) (MW)	Generation† (Million kWh)	
				Gross	Net
1	2	3	4	5	6
1	Andhra Pradesh	321.75	340.50	1,828.09	1,824.10
2	Assam	48.71	35.57	133.16	132.49
3	Bihar	5.00	N.A.	0.23	0.23
4	Gujarat . . . . .	..	..	..	..
5	Haryana . . . . .	..	..	..	..
6	Jammu & Kashmir	26.92	26.92	138.35	135.58
7	Kerala	546.50	498.40	2,027.57	2,019.28
8	Madhya Pradesh	287.00	290.00	757.82	756.32
9	Maharashtra	844.32	902.19	4,158.79	4,137.80
10	Mysore	863.10	081.0	3,226.75	3,214.31
11	Nagaland . . . . .	..	..	..	..
12	Orissa	270.00	1,878.8	810.14	805.45
13	Punjab	1,252.50	1,055.00	5,172.43	5,158.34
14	Rajasthan . . . . .	..	..	..	..
15	Tamil Nadu	1,029.00	1,033.40	2,869.25	2,860.30
16	Uttar Pradesh	506.04	488.83	1,620.27	1,615.14
17	West Bengal	25.51	15.70	44.42	43.59
18	D.V.C.	104.00	108.00	244.21	242.21
	<i>Union Territories—</i>				
	(a) Delhi . . . . .	..	..	..	..
	(b) Andaman & Nicobar Islands* . . . . .	..	..	..	..
	(c) Chandigarh . . . . .	..	..	..	..
	(d) Dadra & Nagar Haveli . . . . .	..	..	..	..
	(e) Goa, Daman & Diu . . . . .	..	..	..	..
	(f) Himachal Pradesh	3.82	3.82	12.70	12.35
	(g) Laccadive, Minicoy & Amindive Islands . . . . .	..	..	..	..
	(h) Manipur	0.60	0.55	1.87	1.86
	(i) N.E.F.A.	DATA NOT AVAILABLE	DATA NOT AVAILABLE	DATA NOT AVAILABLE	DATA NOT AVAILABLE
	(j) Pondicherry . . . . .	..	..	..	..
	(k) Tripura . . . . .	..	..	..	..
	ALL INDIA TOTAL	6,134.77	5,788.48	23,046.05	22,959.35

TABLE 5—INSTALLED PLANT CAPACITY† (31-3-70) AGGREGATE MAXIMUM DEMAND AND ENERGY GENERATED† BY TYPE OF PLANT—Contd.

Sl.No.	State/Power Corporation	Steam			
		Installed Plant Capacity† (MW)	Maximum Demand (Aggregate) (MW)	Generation† (Million kWh)	
				Gross	Net
1	2	7	8	9	10
1	Andhra Pradesh	320.00	317.70	1,163.44	1,051.90
2	Assam . . . . .	..	..	..	..
3	Bihar	322.77	253.35	1,074.77	953.33
4	Gujarat	619.60	563.30	3,020.22	2,790.41
5	Haryana	28.10	14.50	11.89	10.28
6	Jammu & Kashmir	7.50	7.50	26.41	23.58
7	Kerala . . . . .	..	..	..	..
8	Madhya Pradesh	735.70	418.10	2,094.32	1,882.10
9	Maharashtra	771.00	667.55	3,560.23	3,269.97
10	Mysore . . . . .	..	..	..	..
11	Nagaland . . . . .	..	..	..	..
12	Orissa	258.25	113.46	401.66	348.63
13	Punjab	15.00	4.40	3.03	2.98
14	Rajasthan	46.15	30.00	10.24	9.24
15	Tamil Nadu	791.50	566.81	2,784.87	2,476.09
16	Uttar Pradesh	857.28	810.19	4,276.39	3,887.46
17	West Bengal	1,171.44	774.85	4,089.01	3,752.10
18	D.V.C.	957.50	808.00	3,870.77	3,477.36
<i>Union Territories—</i>					
	(a) Delhi	293.50	251.00	907.62	819.04
	(b) Andaman & Nicobar Islands*	1.10	0.47	2.00	1.80
	(c) Chandigarh . . . . .	..	..	..	..
	(d) Dadra & Nagar Haveli . . . . .	..	..	..	..
	(e) Goa, Daman & Diu . . . . .	..	..	..	..
	(f) Himachal Pradesh . . . . .	..	..	..	..
	(g) Laccadive, Minicoy & Amindive Islands . . . . .	..	..	..	..
	(h) Manipur . . . . .	..	..	..	..
	(i) N.E.F.A. . . . .	..	..	..	..
	(j) Pondicherry . . . . .	..	..	..	..
	(k) Tripura . . . . .	..	..	..	..
		DATA NOT AVAILABLE			
	ALL INDIA TOTAL	7,196.39	5,601.18	27,296.87	24,756.27

TABLE 5—INSTALLED PLANT CAPACITY† (31-3-70) AGGREGATE MAXIMUM DEMAND AND ENERGY GENERATED† BY TYPE OF PLANT—Contd.

Sl.No.	State/Power Corporation	Diesel			
		Installed Plant Capacity† (MW)	Maximum Demand (Aggregate)(MW)	Generation† (Million kWh)	
				Gross	Net
1	2	11	12	13	14
1	Andhra Pradesh	0.09	0.05	0.02	0.02
2	Assam	28.24	11.60	19.57	18.33
3	Bihar	16.22	9.65	13.83	13.24
4	Gujarat	32.44	25.79	18.30	17.33
5	Haryana	5.34	1.55	0.16	0.16
6	Jammu & Kashmir	5.94	5.00	9.00	8.19
7	Kerala	1.60	..	..	..
8	Madhya Pradesh	6.70	0.70	0.31	0.27
9	Maharashtra	12.17	11.39	12.89	12.24
10	Mysore	0.65	0.02	0.03	0.03
11	Nagaland	2.00	1.10	1.59	1.53
12	Orissa	1.68	0.52	0.91	0.86
13	Punjab	4.56	2.95	1.99	1.95
14	Rajasthan	49.33	26.00	15.67	14.48
15	Tamil Nadu . . . . .	..	..	..	..
16	Uttar Pradesh	23.68	9.15	2.84	2.64
17	West Bengal	12.28	8.08	17.55	16.96
18	D.V.G. . . . .	..	..	..	..
	<i>Union Territories</i>				
	(a) Delhi	20.82	12.50	1.92	1.88
	(b) Andaman & Nicobar Islands*	0.66	0.26	1.50	1.40
	(c) Chandigarh	2.58	1.25	0.05	0.04
	(d) Dadra & Nagar Haveli . . . . .	..	..	..	..
	(e) Goa, Daman & Diu	2.04**	1.99	5.40	5.27
	(f) Himachal Pradesh	1.71	0.08	0.15	0.14
	(g) Laccadive, Minicoy & Amindive Islands	0.41	0.14	0.27	0.26
	(h) Manipur	2.86	1.75	4.36	4.28
	(i) N.E.F.A.	DATA.	NOT	AVAILABLE	
	(j) Pondicherry . . . . .	..	..	..	..
	(k) Tripura	3.29	2.10	7.93	7.81
	ALL INDIA TOTAL	237.29	134.22	136.24	129.31

TABLE 5—INSTALLED PLANT CAPACITY† (31-3-70) AGGREGATE MAXIMUM DEMAND AND ENERGY GENERATED† BY TYPE OF PLANT—Contd.

Sl.No.	State/Power Corporation	Gas			
		Installed Plant Capacity† (MW)	Maximum Demand (Aggregate) (MW)	Generation† (Million kWh)	
				Gross	Net
1	2	15	16	17	18
1	Andhra Pradesh	20.00	23.20	1.16	1.16
2	Assam	81.50	32.10	169.40	164.80
3	Bihar . . . . .	..	..	..	..
4	Gujarat . . . . .	..	..	..	..
5	Haryana . . . . .	..	..	..	..
6	Jammu & Kashmir . . . . .	..	..	..	..
7	Kerala . . . . .	..	..	..	..
8	Madhya Pradesh . . . . .	..	..	..	..
9	Maharashtra . . . . .	..	..	..	..
10	Mysore . . . . .	..	..	..	..
11	Nagaland . . . . .	..	..	..	..
12	Orissa . . . . .	..	..	..	..
13	Punjab . . . . .	..	..	..	..
14	Rajasthan . . . . .	..	..	..	..
15	Tamil Nadu . . . . .	..	..	..	..
16	Uttar Pradesh	12.50	..	..	..
17	West Bengal . . . . .	..	..	..	..
18	D.V.C. . . . .	..	..	..	..
	<i>Union Territories—</i>				
	(a) Delhi . . . . .	..	..	..	..
	(b) Andaman & Nicobar Islands* . . . . .	..	..	..	..
	(c) Chandigarh . . . . .	..	..	..	..
	(d) Dadra & Nagar Haveli . . . . .	..	..	..	..
	(e) Goa, Daman & Diu . . . . .	..	..	..	..
	(f) Himachal Pradesh . . . . .	..	..	..	..
	(g) Laccadive, Minicoy & Amindive Islands . . . . .	..	..	..	..
	(h) Manipur . . . . .	..	..	..	..
	(i) N.E.F.A. . . . .	..	..	..	..
	(j) Pondicherry . . . . .	..	..	..	..
	(k) Tripura . . . . .	..	..	..	..
	ALL INDIA TOTAL	114.00	55.30	170.56	165.96

TABLE 5—INSTALLED PLANT CAPACITY† (31-3-70) AGGREGATE MAXIMUM DEMAND AND ENERGY GENERATED† BY TYPE OF PLANT—Contd.

Sl. No.	State/Power Corporation	Nuclear			
		Installed Plant Capacity† (MW)	Maximum Demand (Aggregate) (MW)	Generation (Million† kWh)	
				Gross	Net
1	2	19	20	21	22
1	Andhra Pradesh . . . . .	..	..	..	..
2	Assam . . . . .	..	..	..	..
3	Bihar . . . . .	..	..	..	..
4	Gujarat . . . . .	..	..	..	..
5	Haryana . . . . .	..	..	..	..
6	Jammu & Kashmir . . . . .	..	..	..	..
7	Kerala . . . . .	..	..	..	..
8	Madhya Pradesh . . . . .	..	..	..	..
9	Maharashtra	420.00	367.00	1,339.00	1,228.50
10	Mysore . . . . .	..	..	..	..
11	Nagaland . . . . .	..	..	..	..
12	Orissa . . . . .	..	..	..	..
13	Punjab . . . . .	..	..	..	..
14	Rajasthan . . . . .	..	..	..	..
15	Tamil Nadu . . . . .	..	..	..	..
16	Uttar Pradesh . . . . .	..	..	..	..
17	West Bengal . . . . .	..	..	..	..
18	D.V.C. . . . .	..	..	..	..
	<i>Union Territories—</i>				
	(a) Delhi . . . . .	..	..	..	..
	(b) Andaman & Nicobar Islands* . . . . .	..	..	..	..
	(c) Chandigarh . . . . .	..	..	..	..
	(d) Dadra & Nagar Haveli . . . . .	..	..	..	..
	(e) Goa, Daman & Diu . . . . .	..	..	..	..
	(f) Himachal Pradesh . . . . .	..	..	..	..
	(g) Laccadive, Minicoy & Amindive Islands . . . . .	..	..	..	..
	(h) Manipur . . . . .	..	..	..	..
	(i) N.E.F.A. . . . .	..	..	..	..
	(j) Pondicherry . . . . .	..	..	..	..
	(k) Tripura . . . . .	..	..	..	..
	ALL INDIA TOTAL	420.00	367.00	1,339.00	1,228.50

TABLE 5—INSTALLED PLANT CAPACITY† (31-3-70) AGGREGATE MAXIMUM DEMAND AND ENERGY GENERATED† BY TYPE OF PLANT—*Concl'd.*

Sl.No.	State/Power Corporation	Total			
		Installed Plant Capacity† (MW)	Maximum Demand (Aggregate) (MW)	Generation† (Million kWh).	
				Gross	Net
1	2	23	24	25	26
1	Andhra Pradesh	661.84	681.45	2,992.71	2,877.18
2	Assam	158.45	79.27	322.13	315.62
3	Bihar	343.99	263.00	1,088.83	966.80
4	Gujarat	652.04	589.09	3,038.52	2,807.74
5	Haryana	33.44	16.05	12.05	10.44
6	Jammu & Kashmir	40.36	39.42	173.76	167.35
7	Kerala	548.10	498.40	2,027.57	2,019.28
8	Madhya Pradesh	1,029.40	708.80	2,852.45	2,638.69
9	Maharashtra	2,047.49	1,948.13	9,070.91	8,648.51
10	Mysore	863.75	801.82	3,226.78	3,214.34
11	Nagaland	2.00	1.10	1.59	1.53
12	Orissa	529.93	301.78	1,212.71	1,154.94
13	Punjab	1,272.06	1,062.35	5,177.45	5,163.27
14	Rajasthan	95.48	56.00	25.91	23.72
15	Tamil Nadu	1,820.50	1,600.21	5,654.12	5,336.39
16	Uttar Pradesh	1,399.50	1,308.17	5,899.50	5,505.24
17	West Bengal	1,209.23	798.63	4,150.98	3,812.65
18	D.V.G.	1,061.50	916.00	4,114.98	3,719.57
	<i>Union Territories—</i>				
	(a) Delhi	314.32	263.50	909.54	820.92
	(b) Andaman & Nicobar Islands*	1.76	0.73	3.50	3.20
	(c) Chandigarh	2.58	1.25	0.05	0.04
	(d) Dadra & Nagar Haveli . . . . .	..	..	..	..
	(e) Goa, Daman & Diu	2.04	1.99	5.40	5.27
	(f) Himachal Pradesh	5.53	4.50	12.85	12.49
	(g) Laccadive, Minicoy & Amindive Islands	0.41	0.14	0.27	0.26
	(h) Manipur	3.46	2.30	6.23	6.14
	(i) N.E.F.A.				
	(j) Pondicherry				
	(k) Tripura	3.29	2.10	7.93	7.81
	ALL INDIA TOTAL	14,102.45	11,946.18	51,988.72	49,239.39

†For the purpose of this table installed plant capacity and generation of jointly owned projects have been shown against the State having maximum share since the maximum demand of such stations cannot be split and the maximum demand is desired to be compared with the installed capacity.

*Data for the year 1968-69 repeated as data for 1969-70 is not received.

† Estimated.

**Installed capacity of the Govt. of Goa, Daman & Diu has been taken nil as all the power houses have been closed down as per information received from the Department.

TABLE 6— STATEWISE GROSS GENERATION† AND AUXILIARY CONSUMPTION† BY TYPE OF PLANT

Sl.No.	State/Power Corporation	Hydro		
		Energy generated † (Gross) (M. kWh.)	Energy used by power station auxiliaries (M.kWh).	Auxiliary consumption as percentage of generation
1	2	3	4	5
1	Andhra Pradesh	1,828.09	3.99	0.22
2	Assam	133.16	0.67	0.50
3	Bihar	0.23	Neg.	..
4	Gujarat . . . . .	..	..	..
5	Haryana . . . . .	..	..	..
6	Jammu & Kashmir	138.35	2.77	2.00
7	Kerala	2,027.57	8.29	0.41
8	Madhya Pradesh	757.82	1.50	0.20
9	Maharashtra	4,158.79	20.99	0.51
10	Mysore	3,226.75	12.44	0.39
11	Nagaland . . . . .	..	..	..
12	Orissa	810.14	4.69	0.58
13	Punjab	5,172.43	14.09	0.27
14	Rajasthan . . . . .	..	..	..
15	Tamil Nadu	2,869.25	8.95	0.31
16	Uttar Pradesh	1,620.27	5.13	0.32
17	West Bengal	44.42	0.83	1.87
18	D.V.C.	244.21	2.00	0.82
<i>Union Territories—</i>				
	(a) Delhi . . . . .	..	..	..
	(b) Andaman & Nicobar Islands‡ . . . . .	..	..	..
	(c) Chandigarh . . . . .	..	..	..
	(d) Dadra & Nagar Haveli . . . . .	..	..	..
	(e) Goa, Daman & Diu . . . . .	..	..	..
	(f) Himachal Pradesh . . . . .	..	..	..
	(g) Laccadive, Minicoy & Amindive Islands	12.70	0.35	2.76
	(h) Manipur	1.87	0.01	0.58
	(i) N.E.F.A.	DATA	NOT AVAILABLE	..
	(j) Pondicherry . . . . .	..	..	..
	(k) Tripura . . . . .	..	..	..
ALL INDIA TOTAL*		23,046.05	86.70	0.38

TABLE 6—STATEWISE GROSS GENERATION† AND AUXILIARY CONSUMPTION† BY TYPE OF PLANT—contd.

Sl.No.	State/Power Corporation	Steam		
		Energy generated (Gross) (Million kWh)	Energy used by power station auxiliaries (Million kWh)	Auxiliary consumption as percentage of generation
1	2	6	7	8
1	Andhra Pradesh	1,163.44	111.54	9.58
2	Assam . . . . .	..	..	..
3	Bihar	1,074.77	121.44	11.30
4	Gujarat	3,020.22	229.81	7.61
5	Haryana	11.89	1.61	13.54
6	Jammu & Kashmir	26.41	2.83	10.72
7	Kerala . . . . .	..	..	..
8	Madhya Pradesh	2,094.32	212.22	10.13
9	Maharashtra	3,560.23	290.26	8.15
10	Mysore . . . . .	..	..	..
11	Nagaland . . . . .	..	..	..
12	Orissa	401.66	53.03	13.20
13	Punjab	3.03	0.05	1.65
14	Rajasthan	10.24	1.00	9.77
15	Tamil Nadu	2,784.87	308.78	11.09
16	Uttar Pradesh	4,276.39	388.93	9.10
17	West Bengal	4,089.01	336.91	8.24
18	D.V.C.	3,870.77	393.41	10.16
<i>Union Territories—</i>				
	(a) Delhi	907.62	88.58	9.76
	(b) Andaman & Nicobar Islands‡	2.00	0.20	10.00
	(c) Chandigarh . . . . .	..	..	..
	(d) Dadra & Nagar Haveli . . . . .	..	..	..
	(e) Goa, Daman & Diu . . . . .	..	..	..
	(f) Himachal Pradesh . . . . .	..	..	..
	(g) Laccadive, Minicoy & Amindive Islands . . . . .	..	..	..
	(h) Manipur . . . . .	..	..	..
	(i) N.E.F.A.	DATA NOT AVAILABLE		
	(j) Pondicherry . . . . .	..	..	..
	(k) Tripura . . . . .	..	..	..
	ALL INDIA TOTAL*	27,296.87	2,540.60	9.31

TABLE 6—STATEWISE GROSS GENERATION† AND AUXILIARY CONSUMPTION† BY TYPE OF PLANT—contd.

Sl. No.	State/Power Corporation	Diesel		
		Energy generated (Gross) (Million kWh)	Energy used by power station auxiliaries (Million kWh)	Auxiliary consumption as percentage of generation
1	2	9	10	11
1	Andhra Pradesh	0.02	Neg.	..
2	Assam	19.57	1.24	6.34
3	Bihar	13.83	0.59	4.27
4	Gujarat	18.30	0.97	5.30
5	Haryana	0.16	Neg.	..
6	Jammu & Kashmir	9.00	0.81	9.00
7	Kerala . . . . .	..	..	..
8	Madhya Pradesh	0.31	0.04	12.90
9	Maharashtra	12.89	0.65	5.04
10	Mysore	0.03	..	..
11	Nagaland	1.59	0.06	3.77
12	Orissa	0.91	0.05	5.49
13	Punjab	1.99	0.04	2.01
14	Rajasthan	15.67	1.19	7.59
15	Tamil Nadu . . . . .	..	..	..
16	Uttar Pradesh	2.84	0.20	7.04
17	West Bengal	17.55	0.59	3.36
18	D.V.C. . . . .	..	..	..
	<i>Union Territories—</i>			
	(a) Delhi	1.92	0.04	2.08
	(b) Andaman & Nicobar Islands‡	1.50	0.10	6.67
	(c) Chandigarh	0.05	0.01	20.00
	(d) Dadra & Nagar Haveli . . . . .	..	..	..
	(e) Goa, Daman & Diu	5.40	0.13	2.41
	(f) Himachal Pradesh	0.15	0.01	13.33
	(g) Laccadive, Minicoy & Amindive Islands	0.27	0.01	3.70
	(h) Manipur	4.36	0.08	1.83
	(i) N.E.F.A.	DATA	NOT AVAILABLE	..
	(j) Pondicherry	7.93	0.12	1.51
	(k) Tripura . . . . .	..	..	..
	ALL INDIA TOTAL*	136.24	6.93	5.09

TABLE 6—STATEWISE GROSS GENERATION† AND AUXILIARY CONSUMPTION† BY TYPE OF PLANT—contd.

Sl. No.	State/Power Corporation	Gas			Nuclear		
		Energy generated (Gross M. kWh)	Energy used by power station auxiliaries (M.kWh)	Auxiliary consumption as percentage of generation	Energy generated (Gross M.kWh)	Energy used by power station auxiliaries (M. kWh)	Auxiliary consumption as percentage of generation
1	2	12	13	14	15	16	17
1	Andhra Pradesh	1.16	Neg.	..	..	..	..
2	Assam	169.40	4.60	2.70	..	..	..
3	Bihar	..	..	..	..	..	..
4	Gujarat	..	..	..	..	..	..
5	Haryana	..	..	..	..	..	..
6	Jammu & Kashmir	..	..	..	..	..	..
7	Kerala	..	..	..	..	..	..
8	Madhya Pradesh	..	..	..	..	..	..
9	Maharashtra	..	..	..	1,339.00	110.50	8.25
10	Mysore	..	..	..	..	..	..
11	Nagaland	..	..	..	..	..	..
12	Orissa	..	..	..	..	..	..
13	Punjab	..	..	..	..	..	..
14	Rajasthan	..	..	..	..	..	..
15	Tamil Nadu	..	..	..	..	..	..
16	Uttar Pradesh	..	..	..	..	..	..
17	West Bengal	..	..	..	..	..	..
18	D.V.C.	..	..	..	..	..	..
	<i>Union Territories—</i>						
	(a) Delhi	..	..	..	..	..	..
	(b) Andaman & Nicobar Islands†	..	..	..	..	..	..
	(c) Chandigarh	..	..	..	..	..	..
	(d) Dadra & Nagar Haveli	..	..	..	..	..	..
	(e) Goa, Daman & Diu	..	..	..	..	..	..
	(f) Himachal Pradesh	..	..	..	..	..	..
	(g) Laccadive, Minicoy & Amindive Islands	..	..	..	..	..	..
	(h) Manipur	..	..	..	..	..	..
	(i) N.E.F.A.	..	..	..	..	..	..
	(j) Pondicherry	..	..	..	..	..	..
	(k) Tripura	..	..	..	..	..	..
			DATA	NOT	AVAILABLE		
	ALL INDIA TOTAL*	170.56	4.60	2.70	1,339.00	110.50	8.25

TABLE 6—STATEWISE GROSS GENERATION† AND AUXILIARY CONSUMPTION‡ BY TYPE OF PLANT—concl'd.

Sl. No.	State/Power Corporation	TOTAL*		
		Energy generated (Gross) (Million kWh)	Energy used by power station auxiliaries (Million kWh)	Auxiliary consumption as percentage of generation
1	2	18	19	20
1	Andhra Pradesh	2,992.71	115.53	3.86
2	Assam	322.13	6.51	2.02
3	Bihar	1,088.83	122.03	11.21
4	Gujarat	3,038.52	230.78	7.70
5	Haryana	12.05	1.61	13.36
6	Jammu & Kashmir	173.76	6.41	3.69
7	Kerala	2,027.57	8.29	0.41
8	Madhya Pradesh	2,852.45	213.76	7.49
9	Maharashtra	9,070.91	422.40	4.66
10	Mysore	3,226.78	12.44	0.39
11	Nagaland	1.59	0.06	3.77
12	Orissa	1,212.71	57.77	4.76
13	Punjab	5,177.45	14.18	0.27
14	Rajasthan	25.91	2.19	8.45
15	Tamil Nadu	5,654.12	317.73	5.62
16	Uttar Pradesh	5,899.50	394.26	6.68
17	West Bengal	4,150.98	338.33	8.15
18	D.V.C.	4,114.98	395.41	9.61
<i>Union Territories—</i>				
	(a) Delhi	909.54	88.62	9.74
	(b) Andaman & Nicobar Islands†	3.50	0.30	8.57
	(c) Chandigarh	0.05	0.01	20.00
	(d) Dadra & Nagar Haveli . . . . .	..	..	..
	(e) Goa, Daman & Diu	5.40	0.13	2.41
	(f) Himachal Pradesh	12.85	0.36	2.88
	(g) Laccadive, Minicoy & Amindive Islands	0.27	0.01	3.70
	(h) Manipur	6.23	0.09	1.44
	(i) N.E.F.A.	DATA	NOT AVAILABLE	..
	(j) Pondicherry . . . . .	..	..	..
	(k) Tripura	7.93	0.12	1.51
	ALL INDIA TOTAL	51,988.72	2,749.33	5.27

*Totals may not tally due to rounding off.

†Generation for jointly owned projects has been taken against those states which have maximum share. Since it was considered better to keep the auxiliary consumption of power house intact. Please note that these figures are different from the generation figures shown sharewise elsewhere.

‡Data repeated from 1968-69 figures for non-availability of 1969-70 data.

TABLE 7—INSTALLED HYDRO PLANT CAPACITY AND GROSS GENERATION BY OWNERSHIP
(UTILITIES)

Sl. No.	State/Power Corporation	PUBLIC SECTOR			
		State Electricity Board		Electricity Department/ Govt. Undertakings/ Corporation	
		Installed plant capacity (MW)	Energy generated (Million kWh)	Installed plant capacity (MW)	Energy generated (Million kWh)
1	2	3	4	5	6
1	Andhra Pradesh†	135.00	680.32	137.93	834.65
2	Assam	47.20	126.10	..	..
3	Bihar†	..	..	5.00	0.23
4	Gujarat	..	..	..	..
5	Haryana †	408.47	1,690.02	..	..
6	Jammu & Kashmir	..	..	26.92	138.35
7	Kerala	546.50	2,027.57	..	..
8	Madhya Pradesh†	143.50	378.91	..	..
9	Maharashtra	568.32	2,977.71	..	..
10	Mysore†	206.20	1,190.98	671.30	2,098.20
11	Nagaland	..	..	..	..
12	Orissa†	270.00	810.14	34.42	250.69
13	Punjab†	660.70	2,723.92	..	..
14	Rajasthan†	326.83	1,137.40	..	..
15	Tamil Nadu	1,029.00	2,869.25	..	..
16	Uttar Pradesh	501.89	1,610.77	..	..
17	West Bengal	19.55	29.23	4.00	13.14
18	D. V. C.	..	..	104.00	244.21
<i>Union Territories—</i>					
	(a) Delhi	..	..	..	..
	(b) Andaman & Nicobar Islands	..	..	..	..
	(c) Chandigarh	..	..	..	..
	(d) Dadra & Nagar Haveli	..	..	..	..
	(e) Goa, Daman & Diu	..	..	..	..
	(f) Himachal Pradesh	..	..	..	..
	(g) Laccadive, Minicoy & Amindive Islands	..	..	2.07	3.81
	(h) Manipur	..	..	..	..
	(i) N.E.F.A.	..	..	0.60	1.87
	(j) Pondicherry	..	..	..	..
	(k) Tripura	..	..	..	..
ALL INDIA TOTAL*		4,863.16	18,252.32	986.24	3,585.15

TABLE 7—INSTALLED HYDRO PLANT CAPACITY AND GROSS GENERATION BY OWNERSHIP
(UTILITIES)—*contd.*

Sl. No.	State/Power Corporation	PUBLIC SECTOR		PRIVATE SECTOR	
		Municipalities		Companies	
		Installed plant capacity (MW)	Energy generated (Million kWh)	Installed plant Capacity (MW)	Energy generated (Million kWh)
1	2	7	8	9	10
1	Andhra Pradesh†	..	..	..	..
2	Assam	..	..	1.51	7.06
3	Bihar†	..	..	..	..
4	Gujarat	..	..	..	..
5	Haryana†	..	..	..	..
6	Jammu & Kashmir	..	..	..	..
7	Kerala	..	..	..	..
8	Madhya Pradesh†	..	..	..	..
9	Maharashtra†	..	..	276.00	1,181.08
10	Mysore†	..	..	..	..
11	Nagaland	..	..	..	..
12	Orissa†	..	..	..	..
13	Punjab†	..	..	..	..
14	Rajasthan†	..	..	..	..
15	Tamil Nadu	..	..	..	..
16	Uttar Pradesh	4.15	9.50	..	..
17	West Bengal	1.96	2.05	..	..
18	D.V.C.	..	..	..	..
	<i>Union Territories—</i>				
	(a) Delhi	..	..	..	..
	(b) Andaman & Nicobar Islands	..	..	..	..
	(c) Chandigarh	..	..	..	..
	(d) Dadra & Nagar Haveli	..	..	..	..
	(e) Goa, Daman & Diu	..	..	..	..
	(f) Himachal Pradesh	1.75	8.89	..	..
	(g) Laccadive, Minicoy & Amindive Islands	..	..	..	..
	(h) Manipur	..	..	..	..
	(i) N.E.F.A.	..	..	..	..
	(j) Pondicherry	..	..	..	..
	(k) Tripura	..	..	..	..
	ALL INDIA TOTAL*	7.86	20.44	277.51	1,188.14

* Totals may not tally with the break up due to rounding off.

† The installed capacity and generation from jointly owned projects have been shown against the owning states in the ratio of shares of the respective states.

TABLE 7—INSTALLED HYDRO PLANT CAPACITY AND GROSS GENERATION BY OWNERSHIP
(UTILITIES)—*concl.*

Sl. No.	State/Power Corporation	TOTAL*	
		Installed plant capacity (MW)	Energy generated (Million kWh)
1	2	11	12
1	Andhra Pradesh	272.93	1,514.97
2	Assam	48.71	133.16
3	Bihar†	5.00	0.23
4	Gujarat	..	..
5	Haryana†	408.47	1,690.02
6	Jammu & Kashmir	26.92	138.35
7	Kerala	546.50	2,027.57
8	Madhya Pradesh	143.50	378.91
9	Maharashtra	844.32	4,158.79
10	Mysore†	877.50	3,289.18
11	Nagaland	..	..
12	Orissa†	304.42	1060.83
13	Punjab†	660.70	2,723.92
14	Rajasthan†	326.83	1,137.40
15	Tamil Nadu	1,029.00	2,869.25
16	Uttar Pradesh	506.04	1,620.27
17	West Bengal	25.51	44.42
18	D.V.C.	104.00	244.21
<i>Union Territories—</i>			
	(a) Delhi	..	..
	(b) Andaman & Nicobar Islands	..	..
	(c) Chandigarh	..	..
	(d) Dadra & Nagar Haveli	..	..
	(e) Goa, Daman & Diu	..	..
	(f) Himachal Pradesh	..	..
	(g) Laccadive, Minicoy & Amindive Islands	3.82	12.70
	(h) Manipur	0.60	1.87
	(i) N.E.F.A.	..	..
	(j) Pondicherry	..	..
	(k) Tripura	..	..
ALL INDIA TOTAL		6,134.17	23,046.05

† The installed capacity and generation from jointly owned projects have been shown against the owning states in the ratio of shares of the respective states.

* Totals may not tally with the break up due to rounding off.

TABLE 8—INSTALLED STEAM PLANT CAPACITY† AND GROSS GENERATION† BY OWNERSHIP (UTILITIES)

Sl. No.	State/Power Corporation	PUBLIC SECTOR			
		State Electricity Board		Electricity Department/Govt. Undertakings / Corporation	
		Installed plant capacity † (MW)	Energy generated † (Million kWh)	Installed plant capacity † (MW)	Energy generated † (Million kWh)
1	2	3	4	5	6
1	Andhra Pradesh†	320.00	1,163.44	..	..
2	Assam	..	..	..	..
3	Bihar‡	295.00	978.71	..	..
4	Gujarat	384.50	1,878.25	..	..
5	Haryana†	90.60	222.36	..	..
6	Jammu & Kashmir	..	..	7.50	26.41
7	Kerala	..	..	..	..
8	Madhya Pradesh†	593.20	1,798.60	..	..
9	Maharashtra	297.50	1,301.68	136.00	258.36
10	Mysore†	..	..	..	..
11	Nagaland	..	..	..	..
12	Orissa†	8.25	0.20	250.00	401.46
13	Punjab	5.00	3.03	10.00	N.A.
14	Rajasthan	171.15	295.84	..	..
15	Tamil Nadu	191.50	264.66	600.00	2,520.21
16	Uttar Pradesh **	683.53	3,087.80	..	..
17	West Bengal‡	375.56	1,355.21	285.00	886.13
18	D.V.C.‡	..	..	957.50	3,870.77
	<i>Union Territories—</i>				
	(a) Delhi	..	..	..	..
	(b) Andaman & Nicobar Islands§	..	..	1.10	2.00
	(c) Chandigarh.	..	..	..	..
	(d) Dadra & Nagar Haveli	..	..	..	..
	(e) Goa, Daman & Diu	..	..	..	..
	(f) Himachal Pradesh	..	..	..	..
	(g) Laccadive, Minicoy & Amindive Islands	..	..	..	..
	(h) Manipur	..	..	..	..
	(i) N.E.F.A.	..	..	..	..
	(j) Pondicherry	..	..	..	..
	(k) Tripura	..	..	..	..
	ALL INDIA TOTAL*	3,415.79	12,349.78	2,247.10	7,965.34

TABLE 8—INSTALLED STEAM PLANT CAPACITY† AND GROSS GENERATION† BY OWNERSHIP (UTILITIES)—*contd.*

PRIVATE SECTOR				TOTAL*	
Municipalities		Companies		Installed plant capacity†(MW)	Energy generated† (Million kWh)
Installed plant capacity (MW)	Energy generated (million kWh)	Installed plant capacity (MW)	Energy generated (Million kWh)		
7	8	9	10	11	12
..	320.00	1,163.44
..
..	..	27.77	96.06	322.77	1,074.77
..	..	235.10	1,141.97	619.60	3,020.22
..	90.60	222.36
..	7.50	26.41
..
..	..	17.50	10.12	610.70	1,808.72
..	..	337.50	2,000.19	771.00	3,560.23
..
..
..	258.25	401.66
..	15.00	3.03
..	171.15	295.84
..	791.50	2,784.87
..	..	173.75	1,188.59	857.28	4,276.39
..	..	510.88	1,847.67	1,171.44	4,089.01
..	957.50	3,870.77
231.00	697.15	231.00	697.15
..	1.10	2.00
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231.00	697.15	1,302.50	6,284.60	7,196.39	27,296.87

‡ D.V.C. given separately.

† The installed capacity and generation of jointly owned projects has been shown distributed against the states as per this share.

* Totals may not tally due to rounding off.

** Renukot (which is a Company) has been taken as licensee.

‡ Data for 1969-70 have not been received. 1968-69 figures repeated.

TABLE 9—INSTALLED GAS TURBINE AND DIESEL PLANT CAPACITY AND GROSS GENERATION BY OWNERSHIP

Sl. No.	State/Power Corporation	PUBLIC SECTOR					
		State Electricity Board		Electricity Department Government Under taking/Power Corporation		Municipalities	
		Installed plant capacity (MW)	Energy generated (Million kWh)	Installed plant capacity (MW)	Energy generated (Million kWh)	Installed plant capacity (MW)	Energy generated (Million kWh)
1	2	3	4	5	6	7	8
1	Andhra Pradesh	20.09†	1.18†	..	..	..	..
2	Assam	107.80‡	183.40‡	..	..	..	..
3	Bihar	13.15	8.53	..	..	..	..
4	Gujarat	24.24	12.30	..	..	1.50	4.37
5	Haryana	5.34	0.16	..	..	..	..
6	Jammu & Kashmir	..	..	5.94	9.00	..	..
7	Kerala	1.60	..	..	..	..	..
8	Madhya Pradesh	6.50	0.31	..	..	..	..
9	Maharashtra	0.45	0.75	..	..	0.05	0.01
10	Mysore	0.06	0.03	..	..	..	..
11	Nagaland	..	..	2.00	1.59	..	..
12	Orissa	1.68	0.91	..	..	..	..
13	Punjab	4.56	1.99	..	..	..	..
14	Rajasthan	39.11	12.25	..	..	0.37	N.A.
15	Tamil Nadu	..	..	..	..	..	..
16	Uttar Pradesh	31.97††	1.80††	..	..	3.22	0.76
17	West Bengal	9.67	14.18	..	..	1.14	0.89
18	D.V.C.	..	..	..	..	..	..
	<i>Union Territories—</i>						
	(a) Delhi	..	..	..	..	20.82	1.92
	(b) Andaman & Nicobar Islands	..	..	0.66	1.50	..	..
	(c) Chandigarh	..	..	2.38	0.05	..	..
	(d) Dadra & Nagar Haveli	..	..	..	..	..	..
	(e) Goa, Daman & Diu*	..	..	..	0.72	..	..
	(f) Himachal Pradesh	..	..	0.35	0.05	1.36	0.10
	(g) Laccadive, Minicoy & Amudive Islands	..	..	0.41	0.27	..	..
	(h) Manipur	..	..	2.86	4.36	..	..
	(i) N.B.F.A.	..	..	DATA NOT AVAILABLE			
	(j) Pondicherry	..	..	..	..	..	..
	(k) Tripura	..	..	3.29	7.93	..	..
	ALL INDIA TOTAL**	265.62	237.79	18.09	25.47	28.46	8.03

* Installed capacity of the Govt. of Goa, Daman & Diu have been shown as NIL as all the power houses have been closed during 1969—70 vide their letter No. CEE/Tech-2/4275 dated 30th July, 1971.

** Totals may not tally with break up due to rounding off.

TABLE 9—INSTALLED GAS TURBINE AND DIESEL PLANT CAPACITY AND GROSS GENERATION BY OWNERSHIP—Contd.

Sl. No.	State/Power Corporation	PRIVATE SECTOR		TOTAL	
		Companies		Installed plant capacity (MW)	Energy generated (Million kWh)
		Installed plant capacity (MW)	Energy generated (Million kWh)		
1	2	9	10	11	12
1	Andhra Pradesh	..	..	20.09†	1.18†
2	Assam	1.94	5.57	109.74†	188.97†
3	Bihar	3.07	5.30	16.22	13.83
4	Gujarat	6.70	1.63	32.44	18.30
5	Haryana	..	..	5.34	0.16
6	Jammu & Kashmir	..	..	5.94	9.00
7	Kerala	..	..	1.60	..
8	Madhya Pradesh	0.20	Neg.	6.70	0.31
9	Maharashtra	11.67	12.13	12.17	12.89
10	Mysore	0.59	..	0.65	0.03
11	Nagaland	..	..	2.00	1.59
12	Orissa	..	..	1.68	0.91
13	Punjab	..	..	4.56	1.99
14	Rajasthan	9.85	3.42	49.33	15.67
15	Tamil Nadu	..	..	..	..
16	Uttar Pradesh	1.59	0.28	36.18††	2.84††
17	West Bengal	1.47	2.48	12.28	17.55
18	D.V.C.	..	..	..	..
<i>Union Territories—</i>					
	(a) Delhi	..	..	20.82	1.92
	(b) Andaman & Nicobar Islands	..	..	0.66	1.50
	(c) Chandigarh	..	..	2.58	0.05
	(d) Dadra & Nagar Haveli	..	..	..	..
	(e) Goa, Daman & Diu	2.04	4.68	2.04	5.40
	(f) Himachal Pradesh	..	..	1.71	0.15
	(g) Laccadive, Minicoy and Amindive Islands	..	..	0.41	0.27
	(h) Manipur	..	..	2.86	4.36
	(i) N.E.F.A.	DATA	NOT AVAILABLE	..	..
	(j) Pondicherry	..	..	3.29	7.93
	(k) Tripura	..	..	..	..
	ALL INDIA TOTAL	39.12	35.49	351.29	306.80

† Includes 20.00 MW of gas turbine and 1.16 million kWh generation there from respectively.

* Includes 81.50 MW of gas turbine & 169.40 M.kWh generation therefrom respectively.

†† Includes 12.50 MW of gas turbine & Nil generation therefrom respectively.

TABLE 10—INSTALLED CAPACITY (AS ON 31-3-1970) MAXIMUM DEMAND AND GENERATION OF ATOMIC POWER HOUSE

Name of the Station & State	Installed Plant Cap. (MW)	Maximum Demand (MW)	Generation (Gross) (M kWh)	Generation (Net) (M. kWh)
1	2	3	4	5
Tarapore* (Maharashtra)	210.00	183.50	669.50	614.25
Tarapore* (Gujarat)	210.00	183.50	669.50	614.25
TOTAL .	420.00	367.00	1,339.00	1,228.50

*Share of Maharashtra & Gujarat in Tarapore Power Station is 50% each.

TABLE 11—SHARES OF PARTICIPATING STATES IN JOINTLY OWNED POWER STATIONS

Sl. No	Name of the Power Station	Installed Plant Capacity (MW)	Energy Generated (Million kWh)		Names of the Participating States	Shares of the Participating States		Energy Sent out Statewise (Million kWh)
			Gross	Net		Percentage share	Installed capacity (MW)	
1	2	3	4	5	6	7	8	9
1	Machkund (Hydro)	114.75	835.64	833.40	Andhra Pradesh . Orissa . . .	70 30	80.33 34.42	555.20 278.20
2	Tungabhadra Right Bank & Hampi (Hydro)	72.00	312.13	311.32	Mysore . . . Andhra Pradesh .	20 80	14.40 57.60	77.10 234.22
3	Chambal Projects (Hydro)							
	(a) Gandhi Sagar .	115.00	361.14	360.24	Madhya Pradesh Rajasthan . . .	50 50	57.50 57.50	586.70†
	(b) Rana Pratap Sagar	192.00	396.68	396.08	Madhya Pradesh	50	86.00	
4	Satpura (Thermal)	312.50	714.01	640.85	Rajasthan . . Madhya Pradesh Rajasthan . .	50 60 40	86.00 187.50 125.00	810.47
5	Bhakra Nangal (Hydro)	1,204.50	4,983.53	4,970.28	Punjab . . . Haryana . . . Rajasthan . . . Common Pool Consumers. (a) Nangal Fertilizer. (b) Himachal Pradesh. (c) Jammu and Kashmir. (d) D.E.S.U. . (e) Chandigarh .	84.78×60% 84.78×40% 15.22%	612.70 408.47 189.83	1,524.33 1,035.86 410.15 1,394.33 71.87 44.41 415.32 74.16
6	Indraprastha Extension (Thermal)	187.50	631.41	574.95	Delhi . . . Haryana . . .	66.67 33.33	125.00 62.50	502.07‡ 91.38
7	Tarapur Atomic . . .	420.00	1,339.00	1,228.50	Maharashtra . Gujarat . . .	50.00 50.00	210.00 210.00	633.40 595.10

† Offtake of Rajasthan as given here includes supply from Chambal & Satpura. The balance is shown against M.P.

‡ Figures for Delhi arrived by subtracting Haryana's off take from the net generation of Indraprastha.

TABLE 12—STATEWISE AGGREGATE GENERATING

Sl. No.	State/Power Corporation	State Electricity Board	Government Department	Government Undertaking
1	2	3	4	5
1	Andhra Pradesh	488.95	192.50	..
2	Assam	76.40	..	..
3	Bihar	241.03	N.A.	..
4	Gujarat	377.46	..	..
5	Haryana	16.05	..	..
6	Jammu & Kashmir . . . . .	..	39.42	..
7	Kerala	498.40	..	..
8	Madhya Pradesh	702.50	..	..
9	Maharashtra	883.76	..	447.10
10	Mysore	149.82	652.00	..
11	Nagaland . . . . .	..	1.10	..
12	Orissa	189.78	112.00	..
13	Punjab	1,062.35	..	..
14	Rajasthan	52.00	..	..
15	Tamil Nadu	1,086.21	..	514.00
16	Uttar Pradesh	1,142.58	..	..
17	West Bengal	300.33	4.45	168.00
18	D.V.C. . . . .	..	..	..
	<i>Union Territories—</i>			
	(a) Delhi . . . . .	..	..	..
	(b) Andaman & Nicobar Islands . . . . .	..	0.73	..
	(c) Chandigarh . . . . .	..	1.25	..
	(d) Dadra & Nagar Haveli . . . . .	..	..	..
	(e) Goa, Daman & Diu . . . . .	..	0.80	..
	(f) Himachal Pradesh . . . . .	..	2.50	..
	(g) Laccadive Minicoy Islands . . . . .	..	0.14	..
	(h) Manipur . . . . .	..	2.30	..
	(i) N.E.F.A.	DATA	NOT	AVAILABLE
	(j) Pondicherry . . . . .	..	..	..
	(k) Tripura . . . . .	..	2.10	..
	ALL INDIA TOTAL	7,267.62	1,011.29	1,129.10

MAXIMUM DEMAND† BY OWNERSHIP (MW)

Corporation	Municipalities	Companies	Total
6	7	8	9
..	..	..	681.45
..	..	2.87	79.27
..	..	21.97	263.00
..	0.52	211.11	589.09
..	..	..	16.05
..	..	..	39.42
..	..	..	498.40
..	..	6.30	708.80
..	..	617.27	1,948.12
..	..	..	301.82
..	..	..	1.10
..	..	..	301.78
..	..	..	1,062.35
..	..	4.00	56.00
..	..	..	1,600.21
..	3.29	162.30	1,308.17
..	2.18	323.67	798.63
916.00	..	..	916.00
..	263.50	..	263.50
..	..	..	0.73
..	..	..	1.25
..
..	..	1.19	2.00
..	2.00	..	4.50
..	..	..	0.14
..	..	..	2.30
..	DATA	NOT	AVAILABLE
..
..	..	..	2.10
916.00	271.49	1,350.68	11,946.18

† Maximum demand of joint owned projects has been shown against the State having maximum share,

TABLE 13—MAJOR HYDRO GENERATING UNITS COMMISSIONED DURING 1969-70

Installed at	State/Govt. Deptt./Union Territory	No. of Sets	Capacity of each Set (MW)	Total Capacity (MW)
1	2	3	4	5
Kosi	Bihar	1	5.00	5.00
Sharavathi	Mysore	1	89.10	89.10
Rana Pratap Sagar	Rajasthan	1	43.00	43.00
Aliyar	Tamil Nadu	1	60.00	60.00
Dhalipur (Yamuna Stage-I)	Uttar Pradesh	1	17.00	17.00
Dhakarani (Yamuna Stage-II)	Uttar Pradesh	1	11.25	11.25
Nogli	Himachal Pradesh	1	1.00	1.00

TABLE 14—STEAM AND NUCLEAR GENERATING UNITS COMMISSIONED DURING 1969-70

Installed at	State	No. of Sets	Capacity of each Set (MW)	Total Capacity (MW)
1	2	3	4	5
1. Patratu	Bihar	1	50.00	50.00
2. Barauni	Bihar	1	50.00	50.00
3. Satpura	Madhya Pradesh	1	62.50	62.50
4. Tarapore	Maharashtra	2	210.00	420.00
5. Talcher	Orissa	1	62.50	62.50
6. Bassin Bridge	Tamil Nadu	1	30.00	30.00
7. Ennore	Tamil Nadu	1	60.00	60.00
8. Neyveli	Tamil Nadu	2	100.00	200.00
9. Obra	Uttar Pradesh	1	50.00	50.00

TABLE 15—BOILERS COMMISSIONED DURING 1969-70

Installed at	State	No. of Boilers	Evaporating Capacity of Each Unit in 1000 kg/hr.	Steam Conditions at the Stop Value	
				Pressure in kg/cm ²	Temperature in C°
1	2	3	4	5	6
Patratu	Bihar	1	220.00	90.0	535
Barauni	Bihar	1	59.00	59.0	500
Satpura	Madhya Pradesh	1	272.70	102.6	515
Talcher	Orissa	1	272.70	87.9	510
Bassin Bridge	Tamil Nadu	N.A.	N.A.	N.A.	N.A.
Ennore	Tamil Nadu	N.A.	N.A.	N.A.	N.A.
Neyveli	Tamil Nadu	2	220.00	90.00	535
Obra	Uttar Pradesh	1	222.00	90.00	535

TABLE 16—ACQUISITION OF ELECTRICITY SUPPLY UNDERTAKINGS

Name of the Undertakings	Prior Ownership	Date & Year of Acquisition	By whom Acquired
1	2	3	4
GENERATING & DISTRIBUTING . . . . .	..	..	..
GENERATING PURCHASING & DISTRIBUTING			
1. Visnagar	Municipality	31-3-70	Gujarat State Electricity Board.
PURCHASING & DISTRIBUTING			
1. Kadi	Company	31-12-69	Gujarat State Electricity Board.
2. Kalol	Company	31-10-69	Gujarat State Electricity Board.
3. Sarod	Company	18-3-70	Gujarat State Electricity Board.
4. Palghar Navli	Company	21-12-69	Maharashtra State Electricity Board.
5. Shirwal	Company	21-1-70	Maharashtra State Electricity Board.
6. Barabanki	Company	21-7-69	U.P. State Electricity Board.

TABLE 17—DISTRIBUTION OF LICENSEE UNDERTAKINGS INTO (i) GENERATING (ii) GENERATING & PURCHASING (iii) PURCHASING & DISTRIBUTING—STATEWISE

Sl. No.	State	Number of Companies			
		Generating & distributing	Generating, purchasing & distributing	Purchasing and distributing	Total
1	2	3	4	5	6
1	Andhra Pradesh . . . . .	..	..	..	..
2	Assam . . . . .	..	3	..	3
3	Bihar . . . . .	..	4	6	10
4	Gujarat	1	8	13	22
5	Haryana . . . . .	..	1	..	1
6	Jammu & Kashmir . . . . .	..	..	..	..
7	Kerala . . . . .	..	..	4	4
8	Madhya Pradesh . . . . .	..	2	3	5
9	Maharashtra . . . . .	..	6	30	36
10	Mysore . . . . .	..	1	8	9
11	Nagaland . . . . .	..	..	..	..
12	Orissa . . . . .	..	..	..	..
13	Punjab . . . . .	..	..	1	1
14	Rajasthan	2	2	..	4
15	Tamil Nadu . . . . .	..	..	7	7
16	Uttar Pradesh	2	5	11	18
17	West Bengal	1	4	19	24
	<i>Union Territories—</i>				
	(a) Delhi . . . . .	..	..	..	..
	(b) Andaman & Nicobar Islands . . . . .	..	..	..	..
	(c) Chandigarh . . . . .	..	..	..	..
	(d) Goa, Daman & Diu	1	..	..	1
	(e) Dadra & Nagar Haveli . . . . .	..	..	..	..
	(f) Himachal Pradesh . . . . .	..	..	..	..
	(g) Laccadive, Minicoy & Amindive Islands . . . . .	..	..	..	..
	(h) Manipur . . . . .	..	..	..	..
	(i) N.E.F.A. . . . .	..	..	..	..
	(j) Pondicherry . . . . .	..	..	..	..
	(k) Tripura . . . . .	..	..	..	..
	TOTAL	7	36	102	145

TABLE 18—DISTRIBUTION OF MUNICIPAL UNDERTAKINGS

Sl. No.	State	Number of Municipalities			
		Generating & distributing	Generating, purchasing and distributing	Purchasing and distributing	Total
1	2	3	4	5	6
1	Andhra Pradesh . . . . .	..	..	..	..
2	Assam . . . . .	..	..	..	..
3	Bihar . . . . .	..	..	..	..
4	Gujarat . . . . .	..	3	7	10
5	Haryana . . . . .	..	..	..	..
6	Jammu & Kashmir . . . . .	..	..	..	..
7	Kerala . . . . .	..	..	1	1
8	Madhya Pradesh . . . . .	..	..	..	..
9	Maharashtra . . . . .	..	1	6	7
10	Mysore . . . . .	..	..	..	..
11	Nagaland . . . . .	..	..	..	..
12	Orissa . . . . .	..	..	..	..
13	Punjab . . . . .	..	..	1	1
14	Rajasthan	1	..	..	1
15	Tamil Nadu . . . . .	..	..	5	5
16	Uttar Pradesh . . . . .	..	5	8	13
17	West Bengal . . . . .	..	1	..	1
	<i>Union Territories—</i>				
	(a) Delhi . . . . .	..	1	1	2
	(b) Andaman & Nicobar Islands . . . . .	..	..	..	..
	(c) Chandigarh . . . . .	..	..	..	..
	(d) Goa, Daman & Diu . . . . .	..	..	1	1
	(e) Dadra & Nagar Haveli . . . . .	..	..	..	..
	(f) Himachal Pradesh . . . . .	..	1	..	1
	(g) Laccadive, Minicoy & Amindive Islands . . . . .	..	..	..	..
	(h) Manipur . . . . .	..	..	..	..
	(i) N.E.F.A. . . . .	..	..	..	..
	(j) Pondicherry . . . . .	..	..	..	..
	(k) Tripura . . . . .	..	..	..	..
	TOTAL	1	12	30	43

Range of Installed Capacity(MW)	State Electricity Board			Government Department Electricity/Department			Government Undertaking			Power Corporation		
	No. of undertakings	Aggregate installed capacity of the group (MW)	Total energy generated by the group (Million kWh)	No. of undertakings	Aggregate installed capacity of the group (MW)	Total energy generated by the group (Million kWh)	No. of undertakings	Aggregate installed capacity of the Group	Total energy generated by the group (Million kWh)	No. of undertakings	Aggregate installed capacity (MW)	Total energy generated by the group (Million kWh)
1	2	3	4	5	6	7	8	9	10	11	12	13
Upto 1·000 .	..	..	..	2	0·41	0·99	..	..	..	..	..	..
1·001 to 5·000 .	..	..	..	8	24·51	36·53	..	..	..	..	..	..
5·001 to 10·000 .	..	..	..	1	10·00	N.A.	..	..	..	..	..	..
10·001 to 25·000·	..	..	..	..	..	..	..	..	..	..	..	..
25·001 to 50·000.	..	..	..	1	40·36	173·76	..	..	..	..	..	..
50·001 to 100·000	..	..	..	1	72·00	312·13	..	..	..	..	..	..
Over 100·000 .	15	8,544·47	30,839·89	3	1,021·65	3,272·87	4	1,441·00	5,003·70	1	1,061·50	4,114·98
TOTAL	15	8,544·47	30,839·89	16	1,168·93	3,796·28	4	1,441·00	5,003·70	1	1,061·50	4,114·98

Range of Installed Capacity (MW)	Municipality			Companies			TOTAL		
	No. of under- takings	Aggregate installed capacity (MW)	Total energy generated by the group (Million kWh)	No. of under- takings	Aggregate installed capacity (MW)	Total energy generated by the group (Million kWh)	No. of under- takings	Aggregate installed capacity of the group (MW)	Total energy generated by the group (M.kWh)
1	14	15	16	17	18	19	20	21	22
Upto 1·000 . . .	4	1·92	4·38	13	5·59	7·08	19	7·92	12·45
1·001 to 5·000 . .	3	7·36	15·03	14	31·64	49·63	25	63·51	101·19
5·001 to 10·000 . .	1	6·22	7·16	3	20·65	34·83	5	36·87	41·99
10·001 to 25·000 . .	..	..	..	6	91·10	262·63	6	91·10	262·63
25·001 to 50·000 . .	..	..	..	1	29·75	113·02	2	70·11	286·78
50·001 to 100·000 . .	..	..	..	..	..	..	1	72·00	312·13
Over 100·000 . . .	1	251·82	699·07	4	1,440·50	7,041·04	28	13,760·94	50,971·55
TOTAL	9	267·32	725·64	41	1,619·23	7,508·23	86	14,102·45	51,988·72

Range of Generation (M.kWh)	State Electricity Board		Government Department		Government Undertaking		Power Corporation	
	No. of under- takings	Total energy generated by the group (Million kWh)	No. of undertakings	Total energy generated by the group (Million kWh)	No. of under- takings	Total energy generated by the group (Million kWh)	No. of under- takings	Total energy generated by the group (Million kWh)
1	2	3	4	5	6	7	8	9
Under 1·000	..	..	5	1·27	..	..	..	..
1·001 to 10·000	..	..	5	25·11	..	..	..	..
10·001 to 25·000	..	..	1	13·14	..	..	..	..
25·001 to 50·000	..	..	..	..	..	..	..	..
50·001 to 100·000	..	..	..	..	..	..	..	..
100·001 to 250·000	..	..	1	173·76	..	..	..	..
250·001 to 500·000	1	309·50	2	713·59	1	258·36	..	..
500·001 to 1000·000	2	1,798·49	1	835·64	1	886·13	..	..
Above 1000·000	12	28,731·90	1	2,035·77	2	3,859·21	1	4,114·98
TOTAL	15	30,839·89	16	3,796·28	4	5,003·70	1	4,114·98

Range of Generation (M. kWh)	Municipalities		Companies		Total	
	No. of Under- takings	Total Energy generated by the group (Million kWh)	No. of Under- takings	Total Energy generated by the group (Million kWh)	No. of undertakings	Total energy gener- ated by the group (Million kWh)
1	10	11	12	13	14	15
Under 1·000	3	0·01	17	3·73	25	5·01
1·001 to 10·000	5	26·56	11	39·41	21	89·08
10·001 to 25·000 . . . . .	..	..	2	28·89	3	42·13
25·001 to 50·000 . . . . .	..	..	3	110·90	3	110·90
50·001 to 100·000 . . . . .	..	..	3	171·14	3	171·14
100·001 to 250·000 . . . . .	..	..	3	113·02	2	286·78
250·001 to 500·000 . . . . .	..	..	..	..	4	1,281·45
500·001 to 1000·000	1	699·07	..	..	5	4,219·33
Above 1000·000 . . . . .	..	..	4	7,041·04	20	45,782·90
TOTAL	9	725·64	41	7,508·13	86	51,988·72

Range of Maximum Demand (MW)	PUBLIC SECTOR					
	State Electricity Board		Government Departments		Government Undertakings	
	No. of under- takings	Aggregate maximum demand of the group	No. of undertakings	Aggregate Maximum Demand of the group	No. of under- takings	Aggregate maximum demand of the group
1	2	3	4	5	6	7
Upto 0·500 . . . . .	..	..	1	0·14	..	..
0·501 to 1·000 . . . . .	..	..	2	1·53	..	..
1·001 to 2·500 . . . . .	..	..	4	9·25	..	..
2·501 to 10·000 . . . . .	..	..	1	4·45	..	..
10·001 to 25·000	1	16·05	..	..	..	..
25·001 to 50·000 . . . . .	..	..	1	39·42	..	..
50·001 to 100·000	2	128·40	1	63·50	..	..
Over 100·000	12	7,123·17	3	893·00	4	1 129·10
TOTAL	15	7,267·62	13	1,011·29	4	1,129·10

NOTE.— Maximum demand of Pong Thermal Station and Kosi Gandak Project were not available and therefore not included under Govt. Department.

Range of Maximum Demand (MW)	PUBLIC SECTOR				PRIVATE SECTOR		TOTAL	
	Power Corporation		Municipalities		Companies		No. of the under- takings	Aggregate maximum demand of the group
	No. of under- takings	Aggregate maximum demand of the group	No. of under- takings	Aggregate max. demand of the group	No. of the under- takings	Aggregate maximum demand of the group		
1	8	9	10	11	12	13	14	15
Upto 0.500 . . . . .	..	..	8	0.50	12	1.28	21	1.92
0.501 to 1.000 . . . . .	..	..	1	0.52	8	6.32	11	8.37
1.001 to 2.500 . . . . .	..	..	2	4.18	7	11.07	14	24.50
2.501 to 10.000 . . . . .	..	..	1	2.79	9	51.71	11	58.95
10.001 to 25.000 . . . . .	..	..	..	..	3	43.80	4	59.85
25.001 to 50.000 . . . . .	..	..	..	..	..	..	1	39.42
50.001 to 100.000 . . . . .	..	..	..	..	..	..	3	191.90
Over 100.000	1	916.00	1	263.50	4	1,236.50	25	11,561.27
TOTAL	1	916.00	13	271.49	43	1,350.68	90	11,946.18

NOTE.—Maximum demand of Pong Thermal Station and Kosi Gandak Project were not available and therefore not included under Govt. Department.

TABLE 22 — CLASSIFICATION OF HYDRO POWER STATIONS ACCORDING TO THE RANGE OF INSTALLED PLANT CAPACITY

Range of Installed Plant Capacity (MW)	No. of Generating Stations	Installed Plant Capacity		Energy Gene- rated by the Group (Million kWh)	Average Plant Load Factor %
		Group Total (MW)	Percentage of Total		
1	2	3	4	5	6
Upto 1·000	23	5·63	0·09	22·89	46·41
1·001 to 10·000	19	64·04	1·05	259·88	46·33
10·001 to 50·000	29	919·15	14·98	3,414·90	42·41
50·001 to 100·000	10	653·50	10·65	2,492·15	43·53
Over 100·000	17	4,492·45	73·23	16,856·23	42·83
TOTAL	98	6,134·77	100·00	23,046·05	42·88

TABLE 23—CLASSIFICATION OF STEAM POWER STATIONS ACCORDING TO THE RANGE OF INSTALLED PLANT CAPACITY

Range of Installed Plant Capacity	No. of Generating Stations	Installed Plant Capacity		Generation (Million kWh)	Total Capacity of Boilers (Tonnes per hour)	Average Capacity of Boilers kg/hr/kW of Generating Capacity	Average Overall Thermal Efficiency	Average Plant Load Factor %
		Group total (MW)	Percentage of total					
1	2	3	4	5	6	7	8	9
Upto 1,000 kW .	4	2.57	0.04	0.63	13.6	5.29	2.85	2.8
1,001 to 10,000 kW .	29	174.22	2.42	267.08	1,056.4	6.06	13.13	17.5
10,001 to 50,000 kW .	28	586.10	8.14	1,738.71	3,111.6	5.31	15.20	33.87
50,001 to 100,000 kW	12	943.50	13.71	3,663.23	4,168.4	4.42	22.76	44.32
Above 100,000 kW .	23	5,490.00	76.29	21,727.22	22,746.2	4.14	27.41	45.17
TOTAL .	96	7,196.39	100.00	27,396.87	31,096.2	4.32	25.14	43.46

TABLE 24—DISTRIBUTION OF STEAM POWER STATIONS ACCORDING TO OVER ALL THERMAL EFFICIENCY*

Overall Thermal Efficiency	No. of Generating Stations	Aggregate Installed Capacity (MW)	Energy Generated by the Group (Million kWh)
1	2	3	4
Under 10%	18	169.68	178.28
Above 10% & upto 15%	19	451.56	1,120.07
Above 15% & upto 20%	13	471.10	1,580.45
Above 20% & upto 25%	13	1,374.75	5,152.61
Above 25% & upto 30%	14	2,658.10	11,050.22
Above 30%	7	1,952.50	8,215.24
TOTAL	84	7,077.69	27,296.87

*Power stations with aggregate capacity of 118.70 MW not taken in the above analysis due to either no generation or want of complete data.

TABLE 25—CLASSIFICATION OF GAS TURBINE POWER STATIONS ACCORDING TO RANGE OF INSTALLED PLANT CAPACITY

Range of Installed Plant Capacity (MW)	No. of Generating Stations	Installed Plant Capacity		Energy Generated by the Group (Million kWh)	Fuel Consumption (K.Litres)	Fuel Consumption in Lit/kWh Generated	Average Plant Load Factor %	Remarks
		Group total (MW)	Percentage of total					
1	2	3	4	5	6	7	8	9
Gas Turbine Power Station								
Upto 10.000 . . . . .	..	..	..	..	..	..	..	..
10.001 to 25.000	3	45.00	39.50	1.16	655	0.57	0.3	..
25.001 to 50.000 . . . . .	..	..	..	..	..	..	..	..
50.001 to 100.000	1	69.50	60.00	169.40	109.55 × 10 ⁶ Cub. met.	0.65 (Cub.met./kWh)	28.0	(Natural Gas Turbine)
TOTAL	4	114.00	100.00	170.56	655 kl-Diesel & 109.55 × 10⁶ cub metre gas.	0.57	17.1	

TABLE—26 PLANT CAPACITY AND GENERATION BY A.C. & D.C.

System of Generation	No. of Generating Stations	Installed Capacity		Generation (Million kWh)
		Aggregate capacity	Percentage of total	
(1)	(2)	(3)	(4)	(5)
Alternating Current only	447*	14,098.08	99.97	51,984.70
Alternating and Direct Current	1	0.50	0.003	} N.A.
		0.10	0.007	
Direct Current	7	3.77	0.026	4.02
TOTAL	455	14,102.45	100.000	51,988.72

*This does not include details of Diesel Stations of U.P.State Electricity Board for want of details.

TABLE 27—ANALYSIS OF GENERATING SETS ACCORDING TO TYPE OF PRIME MOVER AND OWNERSHIP

Sl. No.	Type of Prime Mover	PUBLIC SECTOR			
		State Electricity Board		Govt. Departments	
		No. of sets	Aggregate capacity (MW)	No. of sets	Aggregate capacity (MW)
1	2	3	4	5	6
1	Water Turbine—				
	A.C. Generator	220	4,863.16	62	882.24
	D.C. Generator . . . . .	..	..	..	..
	SUB-TOTAL	220	4,863.16	62	882.24
2	Steam Turbine—				
	A.C. Generator	189	3,412.01	8	268.60
	D.C. Generator . . . . .	..	..	..	..
	SUB-TOTAL	189	3,412.01	8	268.60
3	Reciprocating Steam Engines—				
	A.C. Generator	5	3.78	..	..
	D.C. Generator . . . . .	..	..	..	..
	SUB-TOTAL	5	3.78	..	..
4	Diesel Engines—				
	A. C. Generator	558*	131.07*	135	18.09
	D.C. Generator	10*	1.68*	..	..
	SUB-TOTAL	568*	132.75*	135	18.09
5	Gas Turbines—				
	A.C. Generator	7	114.00	..	..
	D.C. Generator . . . . .	..	..	..	..
	SUB-TOTAL	7	114.00	..	..
6	Nuclear Turbine—				
	A.C. Generator . . . . .	..	..	..	..
	D.C. Generator . . . . .	..	..	..	..
	SUB-TOTAL . . . . .	..	..	..	..
7	Total—				
	A.C. Generator	979	8,524.02	205	1,168.93
	D.C. Generator	10	1.68	..	..
	GRAND TOTAL	989	8,525.70	205	1,168.93

* This does not include details of Diesel capacity of U.P.S.E. Board (18.87MW) for want of details.

TABLE 27— ANALYSIS OF GENERATION SETS ACCORDING TO TYPE OF PRIME MOVER AND OWNERSHIP—(contd.)

Sl. No.	Type of Prime Mover	PUBLIC SECTORS					
		Government Under-taking		Power Corporation		Municipalities	
		No. of sets	Aggregate capacity (MW)	No. of sets	Aggregate capacity (MW)	No. of sets	Aggregate Capacity (M W)
1	2	7	8	9	10	11	12
1	Water Turbine—						
	A.C. Generator . . . . .	..	..	6	104.00	21	7.86
	D.C. Generator . . . . .	..	..	..	..	..	..
	SUB-TOTAL	..	..	6	104.00	21	7.86
2	Steam Turbine—						
	A.C. Generator	24	1,021.00	10	957.50	15	231.00
	D.C. Generator . . . . .	..	..	..	..	..	..
	SUB-TOTAL	24	1,021.00	10	957.50	15	231.00
3	Reciprocating Steam Engines—						
	A.C. Generator . . . . .	..	..	..	..	..	..
	D.C. Generator . . . . .	..	..	..	..	..	..
	SUB-TOTAL	..	..	..	..	..	..
4	Diesel Engines—						
	A.C. Generator . . . . .	..	..	..	..	43	28.46
	D.C. Generator . . . . .	..	..	..	..	..	..
	SUB-TOTAL	..	..	..	..	43	28.46
5	Gas Turbines—						
	A.C. Generator . . . . .	..	..	..	..	..	..
	D.C. Generator . . . . .	..	..	..	..	..	..
	SUB-TOTAL	..	..	..	..	..	..
6	Nuclear Turbine—						
	A.C. Generator	2	420.00	..	..	..	..
	D.C. Generator . . . . .	..	..	..	..	..	..
	SUB-TOTAL	2	420.00	..	..	..	..
7	Total—						
	A.C. Generator	26	1,441.00	16	1,061.50	79	267.32
	D.C. Generator . . . . .	..	..	..	..	..	..
	GRAND TOTAL	26	1,441.00	16	1,061.50	79	267.32

TABLE 27— ANALYSIS OF GENERATING SETS ACCORDING TO TYPE OF PRIME MOVER AND OWNERSHIP—(concl.)

Sl. No.	Type of Prime Mover	PRIVATE SECTOR		Total		
		Companies		No. of sets	Aggregate capacity (MW)	Percentage of total installed plant capacity
		No. of sets	Aggregate capacity (MW)			
1	2	13	14	15	16	17
1	Water Turbine—					
	A.C. Generator	24	277.51	333	6,134.77	43.56
	D.C. Generator . . . . .	..	..	..	..	..
	SUB-TOTAL	24	277.51	333	6,134.77	43.56
2	Steam Turbine—					
	A.C. Generator	88	1,300.83	334	7,190.94	51.06
	D.C. Generator . . . . .	..	..	..	..	..
	SUB-TOTAL	88	1,300.83	334	7,190.94	51.06
3	Reciprocating Steam Engines—					
	A.C. Generator	6	1.40	11	5.18	0.04
	D.C. Generator	3	0.27	3	0.27	..
	SUB-TOTAL	9	1.67	14	5.45	0.04
4	Diesel Engines—					
	A.C. Generator	100	37.60	836*	215.22*	1.53*
	D.C. Generator	13	1.52	23*	3.20*	0.02*
	SUB-TOTAL	113	39.12	859*	218.42*	1.55*
5	Gas Turbines—					
	A.C. Generator . . . . .	..	..	7	114.00	0.81
	D.C. Generator . . . . .	..	..	..	..	..
	SUB-TOTAL . . . . .	..	..	7	114.00	0.81
6	Nuclear Turbine—					
	A.C. Generator . . . . .	..	..	2	420.00	2.98
	D.C. Generator . . . . .	..	..	..	..	..
	SUB-TOTAL . . . . .	..	..	2	420.00	2.98
7	Total—					
	A.C. Generator	218	1,617.34	1,523	14,080.11	99.98
	D.C. Generator	16	1.79	26	3.47	0.02
	GRAND TOTAL	234	1,619.13	1,549	14,083.58	100.00

*This does not include details of diesel Capacity of U.P.S.E. Board (18.87 MW) for want of details.

Size of the Generating Sets	State Electricity Boards		Government Departments		Government Undertakings		Power Corporation		Municipa	
	No. of sets	Aggregate plant capacity (MW)	No. of sets	Aggregate plant capacity (MW)	No. of sets	Aggregate plant capacity (MW)	Number of sets	Aggregate plant capacity (MW)	Number of sets	Aggregate plant capacity (MW)
	2	3	4	5	6	7	8	9	10	11
1. <i>A.C. Plant</i>										
Under 1.000 MW	31	7.61	28	5.59	..	..	..	..	..	..
1.001 to 5.000 MW	29	84.30	10	35.00	..	..	2	4.00	21	7.86
5.001 to 10.000 MW	42	335.60	9	79.20	..	..	..	..	..	..
10.001 to 20.000 MW	44	639.15	5	75.00	..	..	3	60.00	..	..
20.001 to 30.000 MW	17	419.50	3	63.75	..	..	..	..	..	..
30.001 to 50.000 MW	34	1,487.00	..	..	..	..	..	40.00	..	..
Over 50.000 MW	23	1,890.00	7	623.70	..	..	..	..	..	..
SUB-TOTAL	220	4,863.16	62	882.24	..	..	5	104.00	21	7.86
2. <i>D.C. Plant</i> . . . . .	..	..	..	..	..	..	..	..	..	..
TOTAL	220	4,863.16	62	882.24	..	..	5	104.00	21	7.86

Size of the Generating Sets	PRIVATE SECTOR		TOTAL		PERCENTAGE
	No. of sets	Aggregate plant capacity	No. of sets	Aggregate plant capacity	Percentage of total hydro plant
	12	13	14	15	16
1. A.C. Plant					
Under 1·000 MW	6	1·51	86	22·57	0·97
1·001 to 5·000 MW . . . . .	..	..	41	123·30	2·01
5·001 to 10·000 MW . . . . .	..	..	51	414·80	6·76
10·001 to 20·000 MW	12	144·00	64	918·15	14·97
20·001 to 30·000 MW	6	132·00	26	615·25	10·03
30·001 to 50·000 MW . . . . .	..	..	36	1,527·00	24·89
Over 50·000 MW . . . . .	..	..	29	2,513·70	40·97
SUB-TOTAL	24	277·51	333	6,134·77	100·00
2. D.C. Plant					
TOTAL	24	277·51	333	6,134·77	100·00

Size of Generating Sets	State Electricity Board		Government Departments		Government Undertakings		Power Corporations		Municipalities	
	No. of sets	Aggregate plant capacity (MW)	No. of sets	Aggregate plant capacity (MW)	No. of sets	Aggregate plant capacity (MW)	No. of sets	Aggregate plant capacity (MW)	No. of sets	Aggregate plant capacity (MW)
1	2	3	4	5	6	7	8	9	10	11
1. A.C. Plant										
Upto 1·000 MW	16	11·95	2	1·10	..	..	..	..	..	..
1·001 to 5·000 MW	88	310·84	..	..	..	..	..	..	6	16·00
5·001 to 10·000 MW	16	138·75	2	17·50	4	40·00	..	..	5	38·40
10·001 to 20·000 MW	21	306·25	..	..	6	96·00	..	..	1	15·00
20·001 to 30·000 MW	15	450·00	..	..	2	60·00	..	..	..	..
30·001 to 50·000 MW	17	814·00	..	..	6	300·00	..	..	1	36·60
Over 50·000 MW	21	1,384·00	4	250·00	6	525·00	10	957·50	2	125·00
SUB-TOTAL	194	3,415·69	8	268·60	24	1,021·00	10	957·50	15	231·00
2. D.C. Plant										
Under 1·000 MW . . . . .	..	..	..	..	..	..	..	..	..	..
TOTAL	194	3,415·69	8	268·60	24	1,021·00	10	957·50	15	231·0

Size of Generating Sets	PRIVATE SECTOR		TOTAL		Percentage of Total Steam Plant
	Companies		No. of sets	Aggregate plant capacity (MW)	
	No. of sets	Aggregate plant capacity (MW)			
1	12	13	14	15	16
1. A.C. Plant					
Under 1·000 MW	10	4·90	28	17·95	0·25
1·001 to 5·000 MW	38	116·83	132	443·67	6·17
5·001 to 10·000 MW	13	95·50	40	330·15	4·58
10·001 to 20·000 MW	16	252·50	44	669·75	9·31
20·001 to 30·000 MW	9	270·00	26	780·00	10·84
30·001 to 50·000 MW	2	100·00	26	1,250·50	17·38
Over 50·000 MW	6	462·50	49	3,704·00	51·47
SUB-TOTAL	94	1,302·23	345	7,196·02	100·00
2. D.C. Plant					
Under 1·000 MW	3	0·27	3	0·27	Neg.
TOTAL	97	1,302·50	348	7,196·29	100·00

Neg.—Negligible.

Size of the Generating Sets	PUBLIC SECTOR								PRIVATE SECTOR				TOTAL		Per-centage of total Plant capacity
	State Electricity Board		Government Departments		Government Undertakings		Power Corporation		Municipalities		Companies		No. of sets	Agg gate capacity (MW)	
	No. of sets	Aggre-gate capacity (MW)	No. of sets	Aggre-gate capacity (MW)	No. of sets	Aggre-gate capacity (MW)	No. of sets	Aggre-gate capacity (MW)	No. of sets (MW)	Aggre-gate capacity	No. of sets	Aggre-gate capacity (MW)			
	2	3	4	5	6	7	8	9	10	11	12	13	14	15		16
<i>Gas Turbine Plant</i>															
<i>I. A. C. Plant—</i>															
Upto 10,000 MW.	2	20,000	..	..	..	..	..	..	..	..	..	..	2	20.00	17.5
Above 10,000 MW	5	94,000	..	..	..	..	..	..	..	..	..	..	5	94.00	82.5
<i>II. D.C. Plant . . .</i>	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
SUB-TOTAL	7	114,000	..	..	..	..	..	..	..	..	..	..	7	114.00	100.00

TABLE 31—CLASSIFICATION OF GENERATING SETS ACCORDING TO VOLTAGE OF GENERATION

Sl. No.	No. of Phases	Voltage of Generation	Type of Plant	PUBLIC SECTOR	
				State Electricity Board	
				No. of sets	Aggregate capacity (MW)
1	2	3	4	5	6
<i>Alternating Current</i>					
1	3	33 kV	H S	....	....
2	3	10.5 to 13.8 kV	H S G A	175 111 7 ..	4,761.15 2,955.25 114.00 ..
3	3	5 to 6.6 kV	H S	9 51	28.50 306.09
4	3	2 to 3.9 kV	H S	24 27	72.67 83.45
5	3	400 to 460 V	H S	12 5	0.84 8.50
6	1	230 Volts	H S	....	....
<i>Direct Current</i>					
7	3 Wire	400—500 V	H S	....	....
8	2 Wire	220 V	H S	....	....
SUB-TOTALS			H S G A	220 194 7 ..	4,863.16 3,353.29 114.00 ..

Legend :

H—Hydro.

S—Steam.

G— Gas.

A—Atomic.

TABLE 31—CLASSIFICATION OF GENERATING SETS ACCORDING TO VOLTAGE OF GENERATION—*contd.*

Sl. No.	No. of Phase	Voltage of Generation	Type of Plant	PUBLIC SECTOR					
				Government Departments*		Government undertakings		Power Corporation	
				No. of sets	Aggregate capacity (MW)	No. of sets	Aggregate capacity (MW)	No. of sets	Aggregate capacity (MW)
1	2	3	4	7	8	9	10	11	12
<i>Alternating Current</i>									
1	3	33 kV	H S	..	..	..	..	..	..
2	3	10.5 to 13.8 kV	H S G A	30 5	861.98 260.00 .. ..	.. 16 .. 2	.. .. .. 420.00	6 10	104.00 957.50
3	3	5 to 6.6 kV	H S	8 ..	16.64..	....	....	....	....
4	3	2 to 3.9 kV	H S	.. ..	.. ..	8 ..	124.00..	....	....
5	3	400 to 460 V	H S	24 2	3.62 1.10	....	....	....	....
6	1	230 Volts	H S	....	....	....	....	....	....
<i>Direct Current</i>									
7	3 Wire	400—500V	H S	....	....	....	....	....	....
8	2 Wire	220 V	H S	....	....	....	....	....	....
SUB-TOTALS			H S G A	62 7	882.24 261.10	8 16 .. 2	124.00 897.00 .. 420.00	6 10	104.00 957.50

*One Steam Set of 7.5 MW installed at Kalakot, J & K is not included here as its voltage of generation is not known.

TABLE 31—CLASSIFICATION OF GENERATING SETS ACCORDING TO VOLTAGE OF GENERATION—(concl'd.)

Sl. No.	No. of Phases	Voltage of Generation	Type of Plant	PUBLIC SECTOR		PRIVATE SECTOR		TOTAL	
				Municipalities		Companies		No. of sets	Aggregate capacity (MW)
				No. of sets	Aggregate capacity (MW)	No. of sets	Aggregate capacity (MW)		
1	2	3	4	13	14	15	16	17	18
<i>Alternating Current</i>									
1	3	33 kV . . .	H S	..	..	10	330.00	10	330.00
2	3	10.5 to 13.8 kV . .	H S G A	.. 6	.. 194.60	.. 27	.. 710.00	211 175	5,727.13 5,974.35
				..	..	..	..	7	114.00
				..	..	..	..	2	420.00
3	3	5 to 6.6 kV . . .	H S	2 9	1.00 36.40	18 22	276.00 192.00	37 82	322.14 534.49
4	3	2 to 3.9 kV . . .	H S	12	3.86	6	1.51	50	202.04
				..	..	35	70.23	62	153.68
5	3	400 to 460 V . . .	H S	7	3.00	..	..	43	7.46
				..	..	..	..	7	9.60
6	1	230 Volts . . .	H S	..	..	..	..	..	..
			
<i>Direct Current</i>									
7		3 Wire 400—500 V	H S	..	..	..	..	..	..
				..	..	3	0.27	3	0.27
8		2 Wire 220 V . . .	H S	..	..	..	..	..	..
			
SUB-TOTALS			H S G A	21 15	7.86 231.00	24 97	277.51 1,302.50	341 339	6,258.77 7,002.39
				..	..	..	..	7	114.00
				..	..	..	..	2	420.00

TABLE 32—FUEL CONSUMPTION

Sl. No.	State	Steam Power Stations			
		Coal (Tones)	Furnace Oil (K.L.)	Natural & other Gaseous Fuel cu. metres/ M. Ton	Heat in put (K. Cal. × 109)
1	2	3	4	5	6
1	Andhra Pradesh	805,896	8,655	..	3,547.962
2	Assam . . . . .	..	..	..	..
3	Bihar	562,825	96,255	..	3,972.031
4	Gujarat	524,538	611,812	180.441 (M. Cu. Met.)	11,283.064
5	Haryana	8,106	129	..	46.297
6	Jammu & Kashmir	N.A.	..	..	..
7	Kerala . . . . .	..	..	..	..
8	Madhya Pradesh	1,498,799	5,747	..	6,743.000
9	Maharashtra	1,570,133	377,810†	9,679 (M.T. Refinery Gas)	11,712.214
10	Mysore . . . . .	..	..	..	..
11	Nagaland . . . . .	..	..	..	..
12	Orissa	274,549	1,109	..	1,413.438
13	Punjab	3,828	..	..	21.265
14	Rajasthan	16,319	..	..	90.503
15	Tamil Nadu	3,367,022‡	8,709	..	8,781.206
16	Uttar Pradesh	3,198,078	19,539	..	16,992.709
17	West Bengal	2,609,996	23,106	9.415 (Million Cu. Met.)	14,997.422
18	D.V.C.	2,160,271	19,055	..	11,422.805
	<i>Union Territories—</i>				
	(a) Delhi	483,227	17,513	..	2,678.884
	(b) Andaman & Nicobar Islands*	22,106	..	..	27.633
	(c) Chandigarh . . . . .	..	..	..	..
	(d) Dadra & Nagar Haveli . . . . .	..	..	..	..
	(e) Goa, Daman & Diu . . . . .	..	..	..	..
	(f) Himachal Pradesh . . . . .	..	..	..	..
	(g) Laccadive, Minicoy & Amindive Islands . . . . .	..	..	..	..
	(h) N.E.F.A. . . . .	..	..	..	..
	(i) Manipur . . . . .	..	..	..	..
	(j) Pondicherry . . . . .	..	..	..	..
	(k) Tripura . . . . .	..	..	..	..
	ALL INDIA TOTAL	17,105,693	1,189,439	..	93,730.433

†Includes 369,122 M.T. Furnace Oil equivalent of low+high sulphur pitch.

‡Includes 31,35,000 M.T. Lignite.

* 1968-69 data repeated, due to non-availability of 1969-70 data.

TABLE 32—FUEL CONSUMPTION—(contd.)

Sl. No.	State	Gas Turbine & Diesel Power Stations				
		Generation (Million kWh)	Average heat input in (K. cal. kWh) on generation	Oil consumption (K.L.)	Generation (Million kWh)	Average Oil consumption lit/ kWh generated
1	2	7	8	9	10	11
1	Andhra Pradesh	1,163.44	3,050	673 ¹	1.18	0.57
2	Assam	..	..	6,786*†	188.97*	0.04
3	Bihar	1,074.77	3,696	4,892	13.83	0.35
4	Gujarat	3,020.22	3,736	5807*	18.30	0.32
5	Haryana	11.89	3,894	47	0.16	0.29
6	Jammu & Kashmir	26.41	..	N.A.	9.00	..
7	Kerala	..	..	..	..	..
8	Madhya Pradesh	2,094.32	3,220	135†	0.31	0.44
9	Maharashtra	3,560.23	3,290	4,270	12.89	0.33
10	Mysore	..	..	9	3.03	0.30
11	Nagaland	..	..	649	1.59	0.41
12	Orissa	401.66	3,519	453	0.91	0.50
13	Punjab	3.03	7,018	607†	1.99	0.31
14	Rajasthan	10.24	8,838	6,500†	15.67	0.41
15	Tamil Nadu	2,784.87	3,153	..	..	..
16	Uttar Pradesh	4,276.39	3,974	1,121†	2.84*	0.39
17	West Bengal	4,089.01	3,660	5,951	17.55	0.34
18	D.V.C.	3,870.77	2,951	..	..	..
<i>Union Territories</i>						
	(a) Delhi	907.62	2,952	589	1.92	0.31
	(b) Andaman & Nicobar Islands	2.00	13,817	507	1.50	0.34
	(c) Chandigarh	..	..	17	0.05	0.34
	(d) Dadra & Nagar Haveli	..	..	..	..	..
	(e) Goa, Daman & Diu	..	..	1,800†	5.40	0.33
	(f) Himachal Pradesh	..	..	80	0.15	0.53
	(g) Laccadive Minicoy & Amindive Islands	..	..	133	0.27	0.49
	(h) N.E.F.A.	DATA	NOT AVAILABLE	..	..	..
	(i) Manipur	..	..	1,420	4.36	0.33
	(j) Pondicherry	..	..	..	..	..
	(k) Tripura	..	..	2,380	7.93	0.30
	ALL INDIA TOTAL	27,296.87	3,433	44,826	306.80	0.15

¹ Includes 653 kilo litres of Diesel Oil consumed Gas Turbine plant.

* The gasturbines Naharkatia consume Natural Gas. The figure represents therefore, the diesel oil used by only the diesel engine stations.

† Includes 169.40 million kWh generated by the Gas Turbine at Naharkatia.

* Generation from Muradnagar Gas Station is nil.

* Fuel consumption for Patan Municipality estimated.

† Oil consumption for the power stations under Board, has been estimated as no data is received.

TABLE 33—UTILIZATION OF ELECTRICITY GENERATED, PURCHASED, SOLD & ENERGY LOSSES —
ALL INDIA UTILITIES 1969-70

Sl.No.	Item	Energy (Million kWh)	As Percentage of Item 5
1	2	3	4
1	Energy generated (gross) (Utilities)	51,988.7	105.4
2	Energy used by power station auxiliaries	2,749.3	5.6
3	Energy generated (Net)=(1)—(2)	49,239.4	99.8
4	Energy purchased from non-utilities	102.1	0.2
5	Energy available for supply=(3)+ (4)	49,341.5	100.00
6	Energy sold to ultimate consumers	41,061.7	83.2
7	Energy lost in transformation transmission & distribution, & unaccounted for (5)—(6)	8,279.8	16.8

TABLE 34—INTER-STATE TRANSFER OF POWER (REGION-WISE) (1969-70)

Sl. No.	Name of the Supplier	Name of the Purchaser	Maximum Demand	Units Transferred (Million kWh)-
(1)	(2)	(3)	(4)	(5)
<i>A. Northern Region :</i>				
1	Bhakra Management Board	Punjab State Elec. Board	272 MW	1,524.33
2	Bhakra Management Board	Haryana State Elec. Board	195 MW	1,035.86
3	Bhakra Management Board	Rajasthan State Elec. Board	66 MW	410.15
4	Bhakra Management Board	Delhi Electric Supply Undertaking	93.7 MW	415.32
5	Bhakra Management Board	Jammu & Kashmir	8 MW	44.41
6	Bhakra Management Board	Himachal Pradesh	15 MW	71.87
7	Bhakra Management Board	Chandigarh	14 MW	74.16
8	Bhakra Management Board	Nangal Fertilizer	163.4 MW	1,394.33
9	Haryana State Elec. Board	Rajasthan State Elec. Board	N.A.	1.40
10	Haryana State Elec. Board	Himachal Pradesh	N.A.	8.60
11	Punjab State Elec. Board	Himachal Pradesh	N.A.	46.73
12	Uttar Pradesh State Elec. Bd. . . .	Bihar State Elec. Board.	17 MVA	64.83
13	Uttar Pradesh State Elec. Bd. . . .	Madhya Pradesh State Elec. Board	4.45	4.83
14	Uttar Pradesh State Elec. Bd. . . .	Damodar Valley Corporation . . .	N.A.	1.93
15	Punjab State Elec. Board	Himachal Pradesh	N.A.	46.73
16	Delhi Electric Supply Undertaking . . .	Uttar Pradesh State Electricity Board	36.6	91.38
17	Delhi Electric Supply Undertaking . . .	Haryana State Elec. Board	14 MVA	72.88
18	Delhi Electric Supply Undertaking . . .	Punjab State Elec. Board.	N.A.	18.82
<i>B. Western Region :</i>				
19	Gujarat Electricity Board	Dadra & Nagar Haveli	0.412 MVA	0.91
20	Gujarat Electricity Board	Goa, Daman & Diu (a) Diu Areas (b) Daman Area	0.231 MVA 0.575 MVA	0.46 1.62
21	Madhya Pradesh State Elec. Bd. . . .	Maharashtra State Elec. Board	25.65 MVA	27.31
22	Maharashtra State Elec. Board	Madhya Pradesh State Elec. Board	4.32 MVA	6.10
23	Maharashtra State Elec. Board	Govt. of Goa, Daman & Diu	2.64 MVA	2.75
24	Maharashtra State Elec. Board	Mysore State Elec. Board	N.A.	0.24
<i>C. Southern Region :</i>				
25	Tamil Nadu State Elec. Board	Kerala State Elec. Board	N.A.	2.99
26	Tamil Nadu State Elec. Board	Govt. of Pondicherry	N.A.	84.71
27	Tamil Nadu State Elec. Board	Andhra Pradesh State Elec. Board .	15.05 MVA	10.87

TABLE 34—INTER-STATE TRANSFER OF POWER (REGION-WISE) (1969-70)—(contd.)

S1. No.	Name of Supplier	Name of the Purchaser	Maximum Demand	Units Transferred (Million kWh)
(1)	(2)	(3)	(4)	(5)
28	Mysore State Elec. Board	Andhra Pradesh State Electricity Bd.	10.5 MW	9.54
29	Mysore State Elec. Board	Kerala State Elec. Board	7.0 MW	21.65
30	Mysore State Elec. Board	Tamil Nadu State Elec. Board	220 MW	206.73
31	Kerala State Elec. Board	Ditto.	168 MW	306.76
<i>D. Eastern Region :</i>				
32	Bihar State Elec. Board (Patratu)	Damodar Valley Corporation	N.A.	153.12
33	West Bengal State Electricity Board (Bandel)	Ditto.	N.A.	11.07
34	Durgapur Project Ltd.	Ditto.	N.A.	58.88
35	Orissa State Elec. Board	Bihar State Elec. Board	N.A.	8.80
36	Damodar Valley Corporation†	Durgapur Project Limited	N.A.	31.73
37	Damodar Valley Corporation†	Uttar Pradesh State Elec. Bd.	100 MVA	267.39
38	Damodar Valley Corporation†	Bihar State Elec. Board	N.A.	102.37
39	Damodar Valley Corporation†	West Bengal State Elec. Board	N.A.	35.73
40	Damodar Valley Corporation†	Bihar State Elec. Bd. (in Bulk)	N.A.	975.38
41	Damodar Valley Corporation†	Sijua Jharria Co.	N.A.	162.71
42	Damodar Valley Corporation†	Dishergarh Co. Calcutta and Seebpur	N.A.	852.63
<i>E. North Eastern Region :</i>				
43	Assam State Elec. Board	Govt. of Nagaland	N.A.	4.66
44	Assam State Elec. Board	Tripura	N.A.	0.17
<i>F. Inter Regional Transfer of Power Western Region: Northern Region</i>				
45	Madhya Pradesh State Elec. Bd.	Rajasthan State Elec. Board	1.07 MVA	2.00
46	Madhya Pradesh State Elec. Bd.	Uttar Pradesh State Elec. Board	Nil.	Nil
47	Maharashtra State Elec. Board	Mysore	N.A.	0.24
48	Andhra Pradesh Elec. Board	Orissa State Elec. Board	Nil	Nil
<i>Southern Region :</i>				
49	Mysore State Elec. Board	Goa, Daman & Diu	13.5 MW (aggregate)	61.86
50	Mysore State Elec. Board	Maharashtra State Elec. Board	26.8 MW	26.67
<i>Eastern Region Western Region</i>				
51	Orissa State Elec. Board	Bihar State Elec. Board	N.A.	8.80

†DVG treated as a separate entity for the purpose of this table.

TABLE 35—STATEWISE ENERGY GENERATION, PURCHASE, UTILISATION (INCLUDING UTILISATION OUT OF SELF GENERATION OF NON-UTILITIES) & (LOSSES UTILITIES) 1969-70

Sl. No.	State	Energy Generated from Power Houses Other than jointly Owned (Net) (Million kWh)	Energy Received from (Million kWh)		
			Jointly owned projects including losses	Utilities outside the State as purchase	Self generating industries
1	2	3	4	5	6
1	Andhra Pradesh	1,732.46	789.42	20.41	..
2	Assam	315.62	..	..	..
3	Bihar	966.80	5.20*	1,314.18	2.06
4	Gujarat	3,807.74	595.10	..	78.63
5	Haryana	10.44	1,108.74†	..	..
6	Jammu & Kashmir	167.35	..	44.41	..
7	Kerala	2,019.28	..	24.64	..
8	Madhya Pradesh	1,241.52	8.10.47	10.93	..
9	Maharashtra	7,420.01	633.40	53.98	..
10	Mysore	3,214.34	77.10	0.24	..
11	Nagaland	0.45	..	4.66	..
12	Orissa	1,154.94	278.20	..	13.01
13	Punjab ‡	195.24	1,524.33	1,420.21	..
14	Rajasthan	23.72	996.85	3.40	..
15	Tamil Nadu	5,336.39	..	513.49	..
16	Uttar Pradesh	5,505.24	..	358.77	..
17	West Bengal	3,812.65	..	920.09	..
18	D.V.C.	3,719.56	..	215.00	8.40
<i>Union Territories—</i>					
	(a) Delhi	245.97	502.06	415.32	..
	(b) Andaman & Nicobar Islands	3.20	..	..	..
	(c) Chandigarh	0.04	..	74.16	..
	(d) Dadra & Nagar Haveli	Nil	..	0.91	..
	(e) Goa, Daman & Diu	5.27	..	66.71	..
	(f) Himachal Pradesh	12.49	..	127.20	..
	(g) Laccadive, Minicoy & Amindive Islands	0.26	..	..	..
	(h) Manipur	6.14	..	..	..
	(i) N.E.F.A.	DATA	NOT	AVAILABLE	..
	(j) Pondicherry . . . . .	..	..	84.71	..
	(k) Tripura	7.93	..	0.17	..

TABLE 35—STATEWISE ENERGY GENERATION, PURCHASE, UTILISATION (INCLUDING UTILISATION OUT OF SELF GENERATION OF NON-UTILITIES) & LOSSES (UTILITIES) 1969-70—(contd.)

Sl. No.	State	Energy Available for Distribution within the State and for Inter-state Sale (Million kWh)	Energy Dent Out to/Sold to (Million kWh)		
			Ultimate consumers	Other States	Total
1	2	7	8	9	10
1	Andhra Pradesh	2,542.29	1,921.43	..	1,921.43
2	Assam	315.62	253.74	4.83	258.57
3	Bihar	2,288.24	1,682.07	153.12	1,835.19
4	Gujarat	3,481.47	2,966.39	2.99	2,969.38
5	Haryana	1,119.18	788.59	10.00	793.59
6	Jammu & Kashmir	211.76	162.28	..	162.28
7	Kerala	2,043.92	1,415.90	306.76	1,722.66
8	Madhya pradesh	2,062.92	1,749.35	29.31	1,778.66
9	Maharashtra	8,107.39	7,079.27	9.09	7,088.36
10	Mysore	3,201.68	2,330.97	326.47	2,657.44
11	Nagaland	5.11	3.26	..	3.26
12	Orissa	1,446.15	1,323.36	8.80	1,332.16
13	Punjab‡	3,139.78	2,498.41	53.79‡	2,552.20
14	Rajasthan	1,023.97	779.37	..	779.37
15	Tamil Nadu	5,849.88	4,704.65	98.57	4,803.22
16	Uttar Pradesh	5,864.01	4,623.16	71.59	4,694.75
17	West Bengal	4,732.74	4,167.21	59.95	4,227.16
18	D.V.C.	3,942.96	1,364.69	2,438.45	3,803.14
<i>Union Territories—</i>					
	(a) Delhi	1,163.35	933.51	110.20	1,043.71
	(b) Andaman & Nicobar Islands	3.20	2.30	..	2.30
	(c) Chandigarh	74.20	59.91	..	59.91
	(d) Dadra, & Nagar Haveli	0.91	0.65	..	0.65
	(e) Goa, Daman & Diu	71.98	58.71	..	58.71
	(f) Himachal Pradesh	139.69	111.77	..	111.77
	(g) Laccadive, Minicoy & Amindive Islands	0.26	0.21	..	0.21
	(h) Manipur	6.14	4.05	..	4.05
	(i) N.E.F.A.	DATA	NOT	AVAILABLE	
	(j) Pondicherry	84.71	69.90	..	69.90
	(k) Tripura	8.10	6.60	..	6.60

TABLE 35—(contd.) STATEWISE ENERGY GENERATION, PURCHASE, UTILISATION (INCLUDING UTILISATION OUT OF SELF GENERATION OF NON- UTILITIES) & LOSSES (UTILITIES) 1969-70

Sl. No.	State	Transformation, Transmission distribution losses and energy un-accounted for	
		Million kWh (7-10)	%age of col. 7
(1)	(2)	(11)	(12)
1	Andhra Pradesh	620.86	24.42
2	Assam	57.05	12.05
3	Bihar	453.05	19.80
4	Gujarat	512.00	14.7
5	Haryana	320.59	28.65
6	Jammu & Kashmir	49.48	23.34
7	Kerala	321.26	15.72
8	Madhya Pradesh	284.26	13.78
9	Maharashtra	1,019.03	12.57
10	Mysore	634.24	19.26
11	Nagaland	1.85	36.20
12	Orissa	113.99	7.88
13	Punjab	587.58	18.71
14	Rajasthan	244.60	23.89
15	TamilNadu	1046.66	17.89
16	Uttar Pradesh	1,169.26	19.94
17	West Bengal	505.58	10.68
18	D.V.C.	139.82	3.55
	<i>Union Territories—</i>		
	(a) Delhi	119.64	10.29
	(b) Andman & Nicobar Islands	0.90	28.13
	(c) Chandigarh	13.29	19.31
	(d) Dadra, & Nagar Haveli	0.26	28.57
	(e) Goa, Daman & Diu	14.27	18.43
	(f) Himachal Pradesh	27.92	19.94
	(g) Laccadive, Minicoy & Amindive Islands	0.05	19.23
	(h) Manipur	2.09	34.04
	(i) N.E.F.A.	DATA NOT AVAILABLE	
	(j) Pondicherry	14.81	17.48
	(k) Tripura	1.50	18.52

†Receipt from DESU & BMB

††Nangal Fertilisers have been taken as a consumer of Punjab State and sales to Nangal Fertilisers and IB have been taken as purchase by Punjab State from utilities outside the State.

*5.28 Million kWh energy was taken from Gandak Project which is a jointly owned Projects of Nepal Govt and Bihar State.

TABLE 36—ENERGY GENERATION, PURCHASE, UTILISATION AND LOSSES BY THE STATE ELECTRICITY BOARDS/ELECTRICITY DEPARTMENTS OF UNION TERRITORIES, JAMMU & KASHMIR AND NAGALAND/DAMODAR VALLEY CORPORATION (1969-70)

(Energy in Million kWh)

Sl. No.	State Electricity Board/ Department	Energy generated from power Stations other than jointly owned (Net)	Energy available from		
			Utilities within the State & jointly owned projects	Utilities outside the State	Purchase from self generating industries
1	2	3	4	5	6
1	Andhra Pradesh	1,732.46	779.42	20.41	..
2	Assam	303.37	..	..	..
3	Bihar	872.87	5.20*	1,151.46	2.06
4	Gujarat	1,726.56	600.84	..	78.63
5	Haryana	10.44	1,108.74†	..	..
6	Jammu & Kashmir	167.35	..	44.41	..
7	Kerala	2,019.28	..	24.64	..
8	Madhya Pradesh	1,232.84	810.47	10.93	..
9	Maharashtra	4,139.63	889.41	58.98	..
10	Mysore	1,185.20	2,048.40	0.24	..
11	Nagaland (Deptt.)	0.45	..	4.66	..
12	Orissa	806.48	622.54	..	13.01
13	Punjab	192.99	1,526.58	18.82	..
14	Rajasthan	20.49	969.85	3.43	..
15	Tamil Nadu	3,087.09	1,952.41	513.49	..
16	Uttar Pradesh	4,400.12	2.83	358.77	..
17	West Bengal	1,283.76	530.10	38.73	..
18	D.V.C.	3,719.56	..	213.00	8.40
	<i>Union Territories</i>				
	(a) DESU	245.97	502.07	415.32	..
	(b) Andaman & Nicobar Islands	3.20	..	..	..
	(c) Chandigarh	0.04	..	74.16	..
	(d) Dadra & Nagar Haveli	Nil	..	0.91	..
	(e) Goa, Daman & Diu	5.27	..	66.71	..
	(f) Himachal Pradesh	3.80	..	137.20	..
	(g) Laccadive, Minicoy & Amindive Islands	0.26	..	..	..
	(h) Manipur	6.14	..	..	..
	(i) N.E.F.A.	DATA	NOT AVAILABLE	..	..
	(j) Pondicherry . . . . .	..	..	84.71	..
	(k) Tripura	7.93	..	0.17	..

TABLE 36 (contd.)—ENERGY GENERATION, PURCHASE, UTILISATION AND LOSSES BY THE STATE ELECTRICITY BOARDS/ELECTRICITY DEPARTMENTS OF UNION TERRITORIES, JAMMU & KASHMIR AND NAGALAND/DAMODAR VALLEY CORPORATION (1969-70)

Sl. No.	State Electricity Board/Department	Energy available for supply including sale* outside the State	Energy Sold*			
			Licencees/ Undertakings within the State	Other States	Ultimate consumers	Total
1	2	7	8	9	10	11
1	Andhra Pradesh	2,532.29	..	..	1,921.43	1,921.43
2	Assam	303.37	10.40	4.83	234.39	249.62
3	Bihar	2,051.59	125.42	153.12	1,335.53	1,614.07
4	Gujarat	2,406.03	370.00	2.99	1,643.15	2,016.14
5	Haryana	1,119.18	4.00	10.00	784.87	798.87
6	Jammu & Kashmir	211.76	..	..	162.28	162.28
7	Kerala	2,043.92	83.40	306.76	1,348.54	1,738.70
8	Madhya Pradesh	2,054.24	59.65	29.31	1,690.55	1,779.51
9	Maharashtra	5,083.02	2,107.52	9.09	2,325.72	4,442.33
10	Mysore	3,233.84	37.02	326.47	2,299.54	2,663.03
11	Nagaland (Deptt.)	5.11	..	..	3.26	3.26
12	Orissa	1,442.03	..	8.80	1,323.36	1,331.29
13	Punjab	1,738.39	80.83	46.73	1,031.19	1,158.75
14	Rajasthan	993.74	50.63	..	734.65	785.28
15	Tamil Nadu	5,552.99	446.51	98.57	4,028.97	4,574.05
16	Uttar Pradesh	4,761.72	341.05	71.59	3,292.79	3,705.43
17	West Bengal	1,849.59	682.04	1.07	1,008.40	1,691.51
18	D.V.C.	3,942.96	..	2,438.45	1,364.69	3,803.14
<i>Union Territories</i>						
	(a) DESU	1,163.36	227.94	110.20	718.61	1,056.75
	(b) Andaman & Nicobar Islands	3.20	..	..	2.30	2.30
	(c) Chandigarh	74.20	..	..	59.91	59.91
	(d) Dadra & Nagar Haveli	0.91	..	..	0.65	0.65
	(e) Goa, Daman & Diu	71.98	..	..	58.71	58.71
	(f) Himachal Pradesh	131.00	20.94	..	84.00	104.94
	(g) Laccadive, Minicoy & Amin- dive Islands.	0.26	..	..	0.21	0.21
	(h) Manipur	6.14	..	..	4.05	4.05
	(i) N.E.F.A.	DATA NOT AVAILABLE				
	(j) Pondicherry	84.71	..	..	69.90	69.90
	(k) Tripura	8.10	..	..	6.60	6.60

TABLE 36(contd.)—ENERGY GENERATION, PURCHASE, UTILISATION AND LOSSES BY THE STATE ELECTRICITY BOARDS/ELECTRICITY DEPARTMENTS OF UNION TERRITORIES, JAMMU & KASHMIR AND NAGALAND/DAMODAR VALLEY CORPORATION (1969-70)

Sl.No.	State Electricity Board/Department	Transformation, transmission and distribution and unaccounted for losses.	
		Million kWh (7—11)	%age
1	2	12	13
1	Andhra Pradesh	610.86	29.13
2	Assam	53.75	17.74
3	Bihar	417.52	20.54
4	Gujarat	389.89	16.20
5	Haryana	320.31	28.62
6	Jammu & Kashmir	49.48	23.33
7	Kerala	305.22	14.93
8	Madhya Pradesh	274.73	13.37
9	Maharashtra	640.69	12.60
10	Mysore	570.81	17.65
11	Nagaland (Deptt.)	1.85	36.20
12	Orissa	110.74	7.68
13	Punjab	579.64	33.35
14	Rajasthan	208.46	20.97
15	Tamil Nadu	978.94	17.63
16	Uttar Pradesh	1,056.29	22.18
17	West Bengal	158.08	8.55
18	D.V.C.	139.82	3.55
	<i>Union Territories</i>		
	(a) DESU	106.61	9.17
	(b) Andaman & Nicobar Islands	0.90	28.13
	(c) Chandigarh	14.29	19.31
	(d) Dadra & Nagar Haveli	0.26	28.57
	(e) Goa, Daman & Diu	13.27	18.43
	(f) Himachal Pradesh	26.06	19.89
	(g) Laccadive, Minicoy & Amindive Islands	0.05	19.23
	(h) Manipur	2.09	34.04
	(i) N.E.F.A.	14.00	DATA NOT AVAILABLE
	(j) Pondicherry	14.81	17.48
	(k) Tripura	1.50	18.52

†Off take from DESU and BMB and Indraprastha—Delhi Power House.

*5.28 million of energy was taken from Gandak Project which is a jointly owned project—Nepal Govt. & Bihar State.

TABLE 37—ENERGY SALES 1969-70 (CATEGORYWISE)

Sl. No.	Category	Energy sold in 1969-70 (Million kWh)	Percentage to total sales	Energy sold in 1968-69 (Million kWh)	Percentage increase every year 1968-69
1	2	3	4	5	6
1	Domestic	3,491.00	8.6	3,184.19	9.7
2	Commercial	2,333.33	5.7	2,125.74	9.7
3	Industrial Power	28,378.66	69.1	25,891.23	9.6
4	Public Lighting	417.65	1.0	372.09	12.2
5	Railways/Tramways	1,448.32	3.5	1,246.58	16.2
6	Agricultural	3,774.11	9.2	3,465.54	8.9
7	Public Water Works & Sewage Pumping	880.04	2.1	837.17	5.1
8	Miscellaneous	338.59	0.8	229.81	47.3
	TOTAL	41,061.70	100.00	37,352.35	9.9

ENERGY SALES IN 1969-70

COMMERCIAL LIGHT & SMALL
POWER 5.7 %
2333.33 MILLION Kwh.

DOMESTIC LIGHT & SMALL
POWER 8.6 %
3491.00 MILLION Kwh.

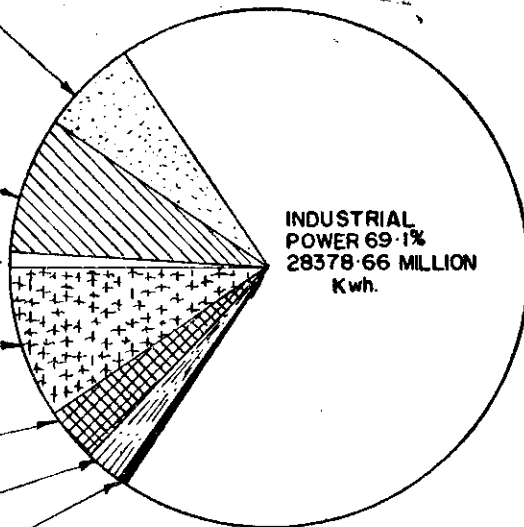
PUBLIC LIGHTING 1.0 %
417.65 MILLION Kwh.

AGRICULTURAL 0.2 %
3774.11 MILLION Kwh.

RAILWAYS / TRAMWAYS 3.5 %
1448.32 MILLION Kwh.

PUBLIC WATER WORKS &
SEWAGE PUMPING 2.1 %
860.04 MILLION Kwh.

MISCELLANEOUS 0.8 %
338.59 MILLION Kwh.



TOTAL SALES DURING THE YEAR
41061.70 MILLION Kwh.

TABLE 38—STATEWISE ENERGY SALES BY UTILITIES TO ULTIMATE CONSUMERS 1969-70

(Million kWh)

Sl. No.	State	Total sold to ultimate consumers	Domestic
1	2	3	4
1	Andhra Pradesh	1,921.43	141.53
2	Assam	253.74	33.50
3	Bihar †	2,503.54	86.27
4	Gujarat	2,966.39	214.80
5	Haryana	788.59	50.90
6	Jammu & Kashmir	162.28	66.53
7	Kerala	1,415.90	91.12
8	Madhya Pradesh*	1,749.35	132.15
9	Maharashtra	7,079.27	663.28
10	Mysore	2,330.97	205.99
11	Nagaland	3.26	1.45
12	Orissa	1,323.36	35.12
13	Punjab	2,498.41	132.44
14	Rajasthan	779.37	65.29
15	Tamil Nadu	4,704.65	302.15
16	Uttar Pradesh	4,623.16	326.23
17	West Bengal †	4,710.43	625.46
	<i>Union Territories</i>		
	(a) Delhi	933.51	263.25
	(b) Andaman & Nicobar Islands	2.30	1.24
	(c) Chandigarh	59.91	14.74
	(d) Dadra & Nagar Haveli	0.65	0.18
	(e) Goa, Daman & Diu	58.71	5.14
	(f) Himachal Pradesh	111.77	20.87
	(g) Laccadive, Minicoy & Amindive Islands	0.20	0.12
	(h) Manipur	4.05	\$2.75
	(i) N.E.F.A.	DATA NOT AVAILABLE	
	(j) Pondicherry	69.90	4.19
	(k) Tripura	6.60	4.31
	TOTAL	41,061.70	3,491.00

TABLE 38 (contd.)—STATEWISE ENERGY SALES BY UTILITIES TO ULTIMATE CONSUMERS 1969-70

(Million kWh)

Sl. No.	State	Commercial	Industrial power at low and medium voltage	Industrial power at high voltage	Public lighting
1	2	5	6	7	8
1	Andhra Pradesh	251.50	120.65	1,033.62	28.50
2	Assam	50.62*	20.44	118.82	3.59
3	Bihar †	98.50	138.94	1,655.81	5.40
4	Gujarat	107.82	310.43	1,848.67	31.28
5	Haryana	40.96	121.58	330.41	4.12
6	Jammu & Kashmir	11.36	56.80	..	3.25
7	Kerala	64.54	111.47	1,077.24	20.50
8	Madhya Pradesh*	69.06	149.30	1,269.17	20.36
9	Maharashtra	433.23	688.37	4,230.74	69.03
10	Mysore	79.61	217.28	1,519.25	48.47
11	Nagaland	0.90	0.32	..	0.59
12	Orissa	51.65	54.84	1,121.38	6.62
13	Punjab	79.18	270.81	@1,592.05	8.18
14	Rajasthan	56.49	96.18	385.15	9.88
15	Tamil Nadu	340.48	336.01	2,477.41	70.47
16	Uttar Pradesh	138.42	459.08	2,758.24	29.24
17	West Bengal †	229.81	271.38	3,048.64	35.26
<i>Union Territories</i>					
	(a) Delhi	197.36	81.28	284.17	17.29
	(b) Andaman & Nicobar	0.16	0.55	..	0.09
	(c) Chandigarh	10.82	11.87	14.28	1.27
	(d) Dadra & Nagar Haveli	..	0.28	0.09	0.06
	(e) Goa, Daman & Diu	3.70	2.61	41.10	0.94
	(f) Himachal Pradesh	13.42	13.81	1.86	1.23
	(g) Laccative, Minicoy & Aminidive Island	0.03	0.03	..	0.02
	(h) Manipur	..	0.39	..	0.83
	(i) N.E.F.A.	DATA	NOT AVAILABLE	..	..
	(j) Pondicherry	3.7	4.18	30.00	0.81
	(k) Tripura	..	1.68	..	0.09
	TOTAL	2,333.32	3,540.56	24,838.10	417.65

TABLE 38 (concl'd.)—STATEWISE ENERGY SALES BY UTILITIES TO ULTIMATE CONSUMERS 1969-70

(Million kWh)

Sl. No.	State	Railways/ Tramways	Agricultural	Public Water Works and Sewage pumping	Miscellaneous
1	2	9	10	11	12
1	Andhra Pradesh	..	335.61	6.39	3.63
2	Assam	..	0.25	3.67	22.85
3	Bihar†	406.61	71.39	32.53	8.09
4	Gujarat	..	@@356.95	84.20	12.24
5	Haryana	..	239.64	..	0.98
6	Jammu & Kashmir	..	8.11	12.98	3.25
7	Kerala	..	39.66	10.83	0.54
8	Madhya Pradesh	1.67	51.47	56.16	0.01
9	Maharashtra	495.30	305.75	131.74	61.83
10	Mysore	..	149.47	110.90	..
11	Nagaland	..	..	..	..
12	Orissa	30.67	4.27	9.63	9.18
13	Punjab	..	@@367.06	4.12	44.57
14	Rajasthan	1.22	91.11	55.62	18.43
15	Tamil Nadu	32.33	1,083.21	35.14	27.17
16	Uttar Pradesh	134.12	619.67	80.51	77.65
17	West Bengal†	346.40	18.03	135.26	0.19
<i>Union Territories</i>					
	(a) Delhi	..	7.01	83.15	..
	(b) Andaman & Nicobar Islands	..	..	..	0.26
	(c) Chandigarh	..	0.44	4.49	2.0
	(d) Dadra & Nagar Haveli	..	0.04	..	..
	(e) Goa, Daman & Diu	..	0.09	4.63	0.50
	(f) Himachal Pradesh	..	0.64	14.72	£45.22
	(g) Laccadive, Minicoy & Amindive Islands	..	..	..	..
	(h) Manipur	..	..	0.08	..
	(i) N.E.F.A.	..	24.22	2.79	..
	(j) Pondicherry	..	0.02	0.50	..
	(k) Tripura	..	..	..	..
	TOTAL	1,448.32	3,774.11	880.04	338.59

*28.90 mill. on kWh consumed by Tea Garden.

@Includes consumption by Nangal Fertilizer i. e. 1,394.33 million kWh.

@@Includes figure of public water works & sewage Pumping in case of State Electricity Boards.

£Includes bulk supply other than to Licensees.

\$Includes commercial figures.

†Includes sales by D. V. C. to ultimate consumers in areas of respective States.

TABLE 39—ENERGY SALES BY THE

Serial No.	State	Total sold to ultimate consumers (i.e. excluding inter state & licenses etc.)	Domestic	Commercial	Industrial power at low and medium voltage M.kWh
1	2	3	4	5	6
1	Andhra Pradesh	1,921.43	141.53	251.50	120.65
2	Assam	234.39	27.54	44.80†	16.60
3	Bihar	1,335.53	41.14	50.76	116.06
4	Gujarat	1,643.15	96.28	24.00	157.02
5	Haryana	784.87	49.93	39.78	120.19
6	Kerala	1,348.54	70.86	60.68	94.29
7	Madhya Pradesh	1,690.55	122.00	58.71	137.57
8	Maharashtra	2,325.72	156.69	87.67	175.86
9	Mysore	2,299.54	196.70	72.90	205.60
10	Orissa	1,322.49	35.08	51.00	54.76
11	Punjab	2,425.53	113.98	67.97	244.85
12	Rajasthan	734.65	52.83	45.55	88.40
13	Tamil Nadu	4,028.97	226.03	271.30	245.89
14	Uttar Pradesh	3,292.79	221.18	73.07	331.61
15	West Bengal*	1,008.40	35.29	37.12	51.43
	TOTAL	26,396.55	1,587.06	1,236.81	2,160.78

*Provisional.

†Includes Nangal Fertilizer consumption i.e. 1,394.33 million kWh (At present consumer of Bhakra Management Board).

STATE ELECTRICITY BOARDS

(Million kWh)

Industrial power at high voltage	Public lighting	Railways/ Tramways	Agricultural	Public Water Works and Sewage pumping	Miscellaneous
7	8	9	10	11	12
1,033.62	28.50	..	335.61	6.39	3.63
115.16	3.52	..	0.25	3.67	22.85
780.01	2.80	252.39	70.55	21.82	..
978.54	16.82	..	341.08	29.41	..
330.41	3.99	..	239.59††	..	0.98
1,054.18	18.36	..	39.65	10.52	..
1,247.49	18.63	1.67	48.90	55.58	..
1,352.99	30.95	58.23	301.68	99.82	61.83
1,518.93	47.24	..	149.30	108.87	..
1,121.38	6.61	30.67	4.27	9.54	9.18
1,589.65†	6.53	..	366.86††	..	35.69
378.85	8.60	..	89.64	52.64	18.14
2,104.40	50.85	3.33	1,044.17	26.83	27.17
1,781.49	19.72	126.90	613.44	48.68	76.70
605.32	3.41	253.05	17.99	4.89	..
§5,992.32	266.53	726.24	3,662.98	478.66	256.17

§28.90 Million kWh consumed by Tea Gardens.

††Includes figure of Public Water Works & Sewage Pumping also.

TABLE 40—ENERGY SALES BY

Serial No.	State	Total sold to ultimate consumers	Domestic	Commercial	Industrial power at low and medium voltage
1	2	3	4	5	6
1	Andhra Pradesh . . . . .	..	..	..	..
2	Assam	19.35	5.96	5.82	3.84
3	Bihar	346.53	45.13	47.72	22.88
4	Gujarat	1237.04	92.43	77.71	141.86
5	Haryana	3.72	0.97	1.18	1.39
6	Jammu & Kashmir . . . . .	..	..	..	..
7	Kerala	67.36	20.26	3.86	17.18
8	Madhya Pradesh	58.80	10.15	10.35	11.73
9	Maharashtra	3387.09	208.72	86.34	300.12
10	Mysore	31.43	9.29	6.71	11.68
11	Nagaland . . . . .	..	..	..	..
12	Orissa . . . . .	..	..	..	..
13	Punjab	2.78	0.97	0.52	1.07
14	Rajasthan	44.72	12.46	10.94	7.78
15	Tamil Nadu	279.85	49.33	34.98	60.91
16	Uttar Pradesh	1241.07	70.01	50.62	99.89
17	West Bengal	2941.21	584.76	190.63	218.64
	<i>Union Territories</i>				
	(a) Goa, Damian & Diu		Sale to Government		
	ALL INDIA	9660.95	1110.44	527.38	898.97

*Neg.—Negligible

THE PRIVATE SECTOR (MILLION kWh)

Industrial power at high voltage	Public lighting	Railways/ Tramways	Agricultural	Public Water Works and Sewage Pumping	Miscellaneous
7	8	9	10	11	12
..
3.66	0.07	..	..	..	..
216.65	2.60	..	0.84	10.71	..
838.32	11.90	..	12.07	50.51	12.24
..	0.13	..	0.05	Neg.	Neg.
..
23.06	2.14	..	0.01	0.31	0.54
21.68	1.72	..	2.58	0.58	0.01
2750.47	20.21	..	3.45	17.78	..
0.32	1.23	..	0.17	2.03	..
..
..
..	0.11	..	0.09	..	0.02
6.30	1.28	1.22	1.46	2.99	0.29
75.63	14.26	..	37.91	6.83	..
975.69	6.40	6.97	6.14	24.42	0.93
1758.41	31.23	35.74	0.04	121.76	..
			Sale to Government		
6670.19	93.28	43.93	64.72	237.92	14.03

PER CAPITA CONSUMPTION OF ELECTRICITY

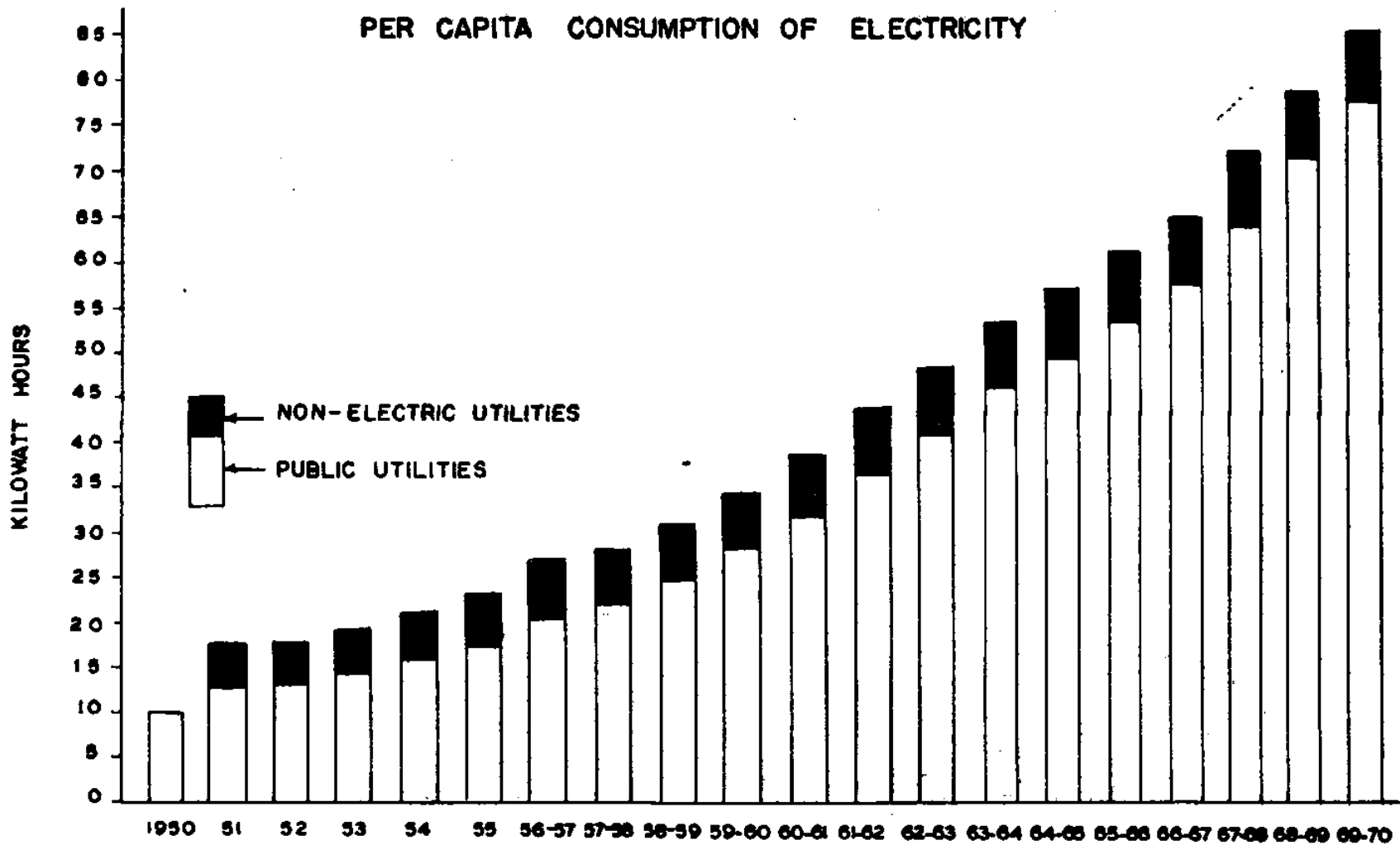


TABLE 41—ANNUAL PER CAPITA CONSUMPTION

Sl. No.	State	Population Millions (Mid-Financial year) Estimated	Utilities		
			Domestic	Commercial	Industrial including Public Water- Works & sewage pumping Railways & Tramways Miscellaneous
1	2	3	4	5	6
1	Andhra Pradesh	42.65	3.32	5.90	27.30
2	Assam	15.31	2.19	3.30	10.83
3	Bihar	56.80	1.52	1.73	39.48
4	Gujarat	26.06	8.24	4.14	86.55
5	Haryana	9.78	5.20	4.19	16.32
6	Jammu & Kashmir	4.01	16.59	2.83	18.21
7	Kerala	20.94	4.35	3.08	57.31
8	Madhya Pradesh	40.05	3.30	1.72	36.86
9	Maharashtra	49.21	13.48	8.80	113.96
10	Mysore	28.84	7.14	2.76	64.06
11	Nagaland	0.43	3.37	2.09	0.75
12	Orissa	21.28	1.65	2.43	57.60
13	Punjab	13.80	9.60	5.74	138.52
14	Rajasthan	25.76	2.53	2.19	21.61
15	Tamil Nadu	39.04	7.74	8.72	74.49
16	Uttar Pradesh	89.43	3.65	1.55	39.24
17	West Bengal	44.06	14.20	5.22	86.29
	<i>Union Territories</i>				
	(a) Delhi	4.08	64.52	48.37	109.95
	(b) Andaman & Nicobar Islands	0.09	13.78	1.78	9.00
	(c) Chandigarh	0.19	77.58	56.95	171.79
	(d) Dadra & Nagar Haveli	0.07	2.54	..	5.21
	(e) Goa, Daman & Diu	0.68	7.56	5.44	71.82
	(f) Himachal Pradesh	4.21	4.96	3.19	17.96
	(g) Laccadive, Minicoy & Amindive Islands	0.03	4.00	1.00	1.00
	(h) Manipur	1.09	2.52	..	0.43
	(i) N. E. F. A.	0.39	..	..	No Data
	(j) Pondicherry	0.44	9.52	8.43	84.02
	(k) Tripura	1.48	2.91	..	1.48
	ALL INDIA	540.20	6.46	4.32	57.47

OF ELECTRICITY 1969-70

Utilities			kWh from self generation of non-utilities	Total (Col. 9+10)
Public lighting	Agricultural pumping	Total		
7	8	9	10	11
0.67	7.87	45.06	4.46	49.52
0.23	0.02	16.57	1.87	18.44
0.10	1.25	44.08	18.40	62.48
1.20	13.70	113.83	13.37	127.20
0.42	24.50	80.63	7.60	88.23
0.81	2.02	40.46	..	40.46
0.98	1.89	67.61	2.83	70.44
0.51	1.29	43.68	9.04	52.72
1.40	6.21	143.85	4.41	148.26
1.68	5.18	80.82	1.57	82.39
1.37	..	7.58	..	5.58
0.31	0.20	62.19	27.50	89.69
0.59	26.60	181.05	0.04	181.09
0.38	3.54	30.25	12.90	43.15
1.81	27.75	120.51	3.02	123.53
0.33	6.93	51.70	1.37	53.07
0.80	0.41	106.92	9.37	116.29
4.24	1.72	228.80	26.62	255.42
1.00	..	25.56	..	25.56
6.68	2.32	315.32	..	315.32
0.85	0.56	9.16	..	9.16
1.38	0.13	86.33	1.32	87.65
0.29	0.15	26.55	..	26.55
0.67	..	6.67	..	6.67
0.76	..	3.71	..	3.71
No Data	..	..	..	..
1.84	55.05	158.86	..	158.86
0.06	0.01	4.46	..	4.46
0.77	6.99	76.01	7.51	83.52

TABLE 42—INSTALLED PLANT CAPACITY (AS ON 31.3.1970) AND ENERGY CONSUMPTION (1969-70) (UTILITIES ONLY) PER SQUARE KILOMETER AND PER THOUSAND OF POPULATION

Sl. No	Name of State/Union Territory	Population (Mid. financial Year. (Millions) estimated)	Area in thousand square kilometre	Installed Plant Capacity (MW)
1	2	3	4	5
1	Andhra Pradesh	42.65	275.28	613.02
2	Assam	15.31	121.97	158.45
3	Bihar	56.80	174.04	1055.49
4	Gujarat	26.06	187.11	862.04
5	Haryana	9.78	44.06	504.41
6	Jammu & Kashmir	4.01	222.80	40.36
7	Kerala	20.94	38.85	548.10
8	Madhya Pradesh	40.05	443.45	760.90
9	Maharashtra	49.21	307.45	1837.49
10	Mysore	28.84	192.20	878.15
11	Nagaland	0.43	16.49	2.00
12	Orissa	21.28	155.82	564.35
13	Punjab	13.80	50.38	680.26
14	Rajasthan	25.76	342.27	547.31
15	Tamil Nadu	39.04	130.36	1820.50
16	Uttar Pradesh	89.43	294.36	1399.50
17	West Bengal	44.06	87.62	1559.23
	<i>Union Territories</i>			
	(a) Delhi	4.08	1.48	251.82
	(b) Andaman & Nicobar Islands	0.09	8.33	1.76
	(c) Chandigarh	0.19	0.11	2.58
	(d) Dadra & Nagar Haveli	0.07	0.50	Nil
	(e) Goa, Daman & Diu	0.68	4.18	2.04
	(f) Himachal Pradesh †	4.21	55.66	5.53
	(g) Laccadive, Minicoy & Amindive Islands	0.03	0.03	0.41
	(h) Manipur	1.09	22.35	3.46
	(i) N.E.F.A.	0.39	81.40	..
	(j) Pondicherry	0.44	0.48	..
	(k) Tripura	1.48	10.45	3.29
	ALL INDIA	540.20	3,269.48	14,102.45

† The capacity of jointly owned projects have been shown distributed in ratio of respective States.

TABLE 42—(concl'd.)—INSTALLED PLANT CAPACITY (AS ON 31-3-70) AND ENERGY CONSUMPTION (1969-70)
(UTILITIES ONLY) PER-SQUARE KILOMETER AND PER THOUSAND OF POPULATION

Installed Capacity per 1,000 of population	Installed capacity per square kilometre	Total Energy consumed (Million kWh)	Energy consumed per 1,000 of population kWh.	Energy consumed per square kilometre
6	7	8	9	10
14.37	2.23	1921.43	45,062	6,980
10.35	1.30	253.74	16,573	2,080
18.58	6.06	2503.54	44,076	14,385
33.08	4.61	2966.39	113,829	15,854
51.58	11.45	788.59	80,633	17,897
10.06	0.18	162.28	40,469	728
26.17	14.11	1415.90	67,617	36,445
19.00	1.72	1749.35	43,679	3,945
37.34	5.98	7079.27	143,358	23,026
30.45	4.57	2330.97	80,824	12,128
4.65	0.12	3.26	7,581	198
26.52	3.62	1323.36	62,188	8,493
49.29	13.50	2498.41	181,044	49,591
21.25	1.60	779.37	30,255	2,277
46.63	13.97	4704.65	120,508	36,090
15.65	4.75	4623.16	51,696	15,706
35.39	17.80	4710.43*	106,909	53,760
61.72	170.15	933.51	228,801	630,750
19.56	0.21	2.30	25,556	276
13.58	23.45	59.91	315,316	544,636
..	..	0.65†	9,160	1,300
3.00	0.49	58.71	86,338	14,045
1.31	0.10	111.77	26,549	2,008
13.67	13.67	0.20†	6,617	6,667
3.17	0.15	405.05	3,716	181
NOT	AVAILABLE		DATA NOT	AVAILABLE
3.29	0.31	69.90	158,864	145,625
		6.60	4,459	632
26.11	4.31	41061.70	76,012	12,539

*Includes ultimate scales by D.V.C. in respective States.

†Estimated.

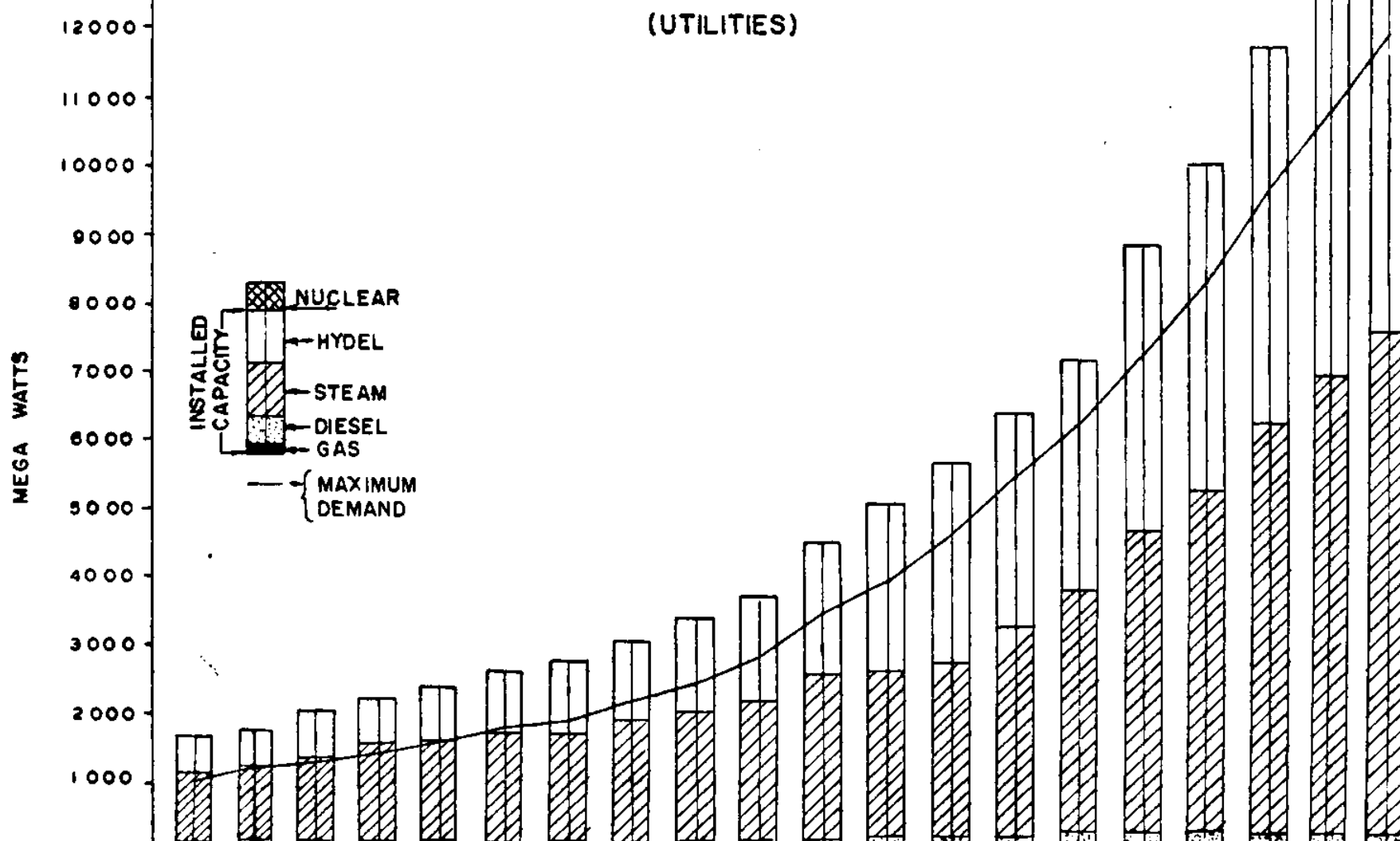


TABLE 43—PROGRESS OF ELECTRICITY—SUPPLY INDIA (ELECTRIC UTILITIES ONLY)—Contd.

Energy generated (M kWh)	Energy generated per kW of capacity	Energy sold (Million kWh)	Average load factor based on Cols. 6 & 7	Average plant demand factor based on Cols. 5 & 6
7	8	9	10	11
2,442.415	2,283	2,034.636	48.42	53.8
4,073.318	2,988	3,358.794	52.67	64.8
4,575.466	3,243	3,721.464	54.08	68.4
4,909.289	3,194	4,004.716	55.60	65.6
5,106.700	2,981	4,156.657	53.08	64.1
5,858.403	3,192	4,793.344	55.49	65.7
6,120.347	2,969	5,005.682	53.31	63.6
6,697.187	2,905	5,597.085	53.98	61.4
7,521.777	3,016	6,252.501	52.84	65.2
8,592.451	3,189	7,111.011	53.03	68.6
9,662.133	3,348	7,959.345	55.43	68.9
11,369.142	3,527	9,345.224	56.72	71.0
12,993.886	3,700	10,718.610	58.33	72.4
15,032.953	3,881	12,406.943	58.54	75.7
15,937.012	3,640	13,840.369	54.53	76.2
19,669.945	3,769	16,448.295	56.54	76.3
22,364.972	3,855	18,679.021	55.08	79.9
26,817.575	4,078	21,793.977	55.17	84.4
29,563.079	4,044	24,219.269	53.93	84.6
32,990.125	3,708	26,734.944	51.54	80.9
36,375.587	3,604	29,127.636	50.08	82.16
41,194.637	3,467	32,736.872	48.50	81.65
47,433.65	3,661	37,352.35	49.81	83.90
51,988.72	3,687	41,061.70	49.68	84.71

TABLE 44—FIRM CAPACITY, INSTALLED CAPACITY & GENERATION IN DIFFERENT STATES OF INDIA

Sl. No.	State	Firm Capacity (MW)		
		State Elect. Boards/DVC /Govt. Deptt.	Jointly† owned projects/Govt. undertakings	Licencees
1	2	3	4	5
1	Andhra Pradesh	N.A.	95.60 ^a	..
2	Assam	78	..	2.40
3	Bihar	182.26	..	16.35
4	Gujarat	290.47	N.A. ^a	200.00
5	Haryana	12.00	..	..
6	Jammu & Kashmir	34.17	..	0.09
7	Kerala	N.A.	..	..
8	Madhya Pradesh	590.5 ^a	N.A. ^a	11.75
9	Maharashtra	693.0	N.A. ^b	442.50
10	Mysore	700.80	..	0.40
11	Nagaland	N.A.	..	..
12	Orissa	N.A.	168 ^d	..
13	Punjab	612.00 ^b	N.A. ^c	N.A. ^e
14	Rajasthan	N.A.	..	6.00
15	Tamil Nadu	*934/**697	400.00 ^b	..
16	Uttar Pradesh	940.0	..	168.58
17	West Bengal	261.568	194 ⁷	234.25
18	D.V.C.	575 ^a	..	..
	<i>Union Territories</i>			
	(a) DESU . . . . .	..	..	..
	(b) Andaman & Nicobar Islands	N.A.	..	..
	(c) Chandigarh	N.A.	..	..
	(d) Dadra & Nagar Haveli	Nil	..	N.A.
	(e) Goa, Daman & Diu	Nil	..	N.A.
	(f) Himachal Pradesh	N.A.	..	..
	(g) Laccadive Minicoy & Amindivi Islands	N.A.	..	..
	(h) Manipur	N.A.	..	..
	(i) N.E.F.A.	N.A.	..	..
	(j) Pondicherry	N.A.	..	..
	(k) Tripura	N.A.	..	..

TABLE—14 (contd.)—FIRM CAPACITY, INSTALLED CAPACITY & GENERATION IN DIFFERENT STATES OF INDIA

Sl. No.	State	Total† installed capacity in the State (MW)	Generation† gross (million kWh)
1	2	6	7
1	Andhra Pradesh	661.84	2,992.71
2	Assam	158.45	322.13
3	Bihar	343.99	1,088.83
4	Gujarat	652.04	3,038.52
5	Haryana	33.44	12.04
6	Jammu & Kashmir	40.36	173.76
7	Kerala	548.10	2,027.57
8	Madhya Pradesh	1,029.40	2,852.45
9	Maharashtra	2,047.49	9,070.91
10	Mysore	863.75	3,226.78
11	Nagaland	2.00	1.59
12	Orissa	529.93	1,212.71
13	Punjab	1,272.06	5,177.45
14	Rajasthan	95.48	25.91
15	Tamil Nadu	1,820.50	5,654.12
16	Uttar Pradesh	1,399.50	5,899.50
17	West Bengal	1,209.23	4,150.98
18	D.V.C.	1,061.5	4,114.98
	<i>Union Territories</i>		
	(a) DESU		
	(b) Andaman & Nicobar Island	314.32	909.54
	(c) Chandigarh	1.16	3.50
	(d) Dadra & Nagar Haveli	2.58	0.05
	(e) Goa, Daman & Diu . . . . .	..	..
	(f) Himachal Pradesh	2.04	5.40
	(g) Laccadive, Minicoy & Amindive Islands	5.53	12.85
	(h) Manipur	0.41	0.27
	(i) N.E.F.A.	3.46	6.23
	(j) Pondicherry	N.A.	N.A.
	(k) Tripura	3.29	7.93

N.A. Not Available.

*Firm Capacity for irrigation period July to Jan.

**Firm capacity for non irrigation period February to June.

†Firm Capacity of jointly owned Projects has been shown against the States with max. share and similarly installed capacity and Generation.

‡Machkund.

§Firm capacity as given by M. P. Board. No details given.

¶Firm Capacity of Tarapur not available.

*Talchar Thermal P./H.

†Firm capacity of Punjab includes 580 MW of BMB Share, whereas Firm Capacity of B.M. B. as a whole is not available.

‡Neyveli Lignite.

§Durgapur projects.

¶Firm Capacity still to be decided.

TABLE 45 (1)—PROGRESS OF ELECTRICITY SUPPLY—ANDHRA PRADESH

Year	31-12-51	31-12-56	31-3-61	31-3-66	31-3-69	31-3-70
1	2	3	4	5	6	7
<i>Installed Capacity (MW)—</i>						
Hydro . . . . .	..	66.000	166.150	152.92	272.93	272.93
Steam	46.000	46.000	83.500	113.50	326.00	320.00
Diesel	13.164	19.876	20.188	12.13	6.14	0.09
Gas Turbine . . . . .	..	..	..	20.00	20.00	20.00
TOTAL .	59.164	131.876	269.838	298.55	625.07	613.02
Year	1951	1956	1960—61	1965—66	1968—69	1969—70
<i>Energy Generation (Gross) (Million kWh)—</i>						
Hydro . . . . .	..	69.364	748.743	764.61	1,127.61	1,514.97
Steam	89.612	60.177	145.836	510.38	1,217.75	1,164.05
Gas Turbine . . . . .	..	..	..	38.41	0.36	0.02
Diesel	14.328	9.661	5.450	6.77	0.12	1.16
TOTAL .	103.940	239.202	900.029	1,320.17	2,345.84	2,680.20
*Purchased from non-utilities and Ad-joining States . . . . .	..	..	1.040	152.94	38.64	20.41
Used by Power Station Auxiliaries . . . . .	..	..	23.237	43.77	105.36	113.71
†Sales—						
(i) To Adjoining States . . . . .	..	..	120.525	0.40	49.40	43.24
(ii) Within the State						
Domestic light & small power	20.946	32.666	0.815	85.75	125.84	141.53
Commercial light & small power	18.657	38.810	30.321	172.90	193.81	251.50
Industrial power	44.297	88.641	393.331	574.37	903.86	1,154.27
Public lighting	5.878	9.032	14.869	20.35	26.53	28.50
Railways/Tramways . . . . .	..	..	..	..	..	..
Agricultural	4.905	10.458	54.827	172.66	337.16	335.61
Public Water Works & Sewage Pumping	3.493	6.410	7.399	22.31	48.35	6.39
Miscellaneous . . . . .	..	..	..	..	2.80	3.63
TOTAL (ii) .	98.176	186.017	501.552	1,048.34	1,638.35	1,921.43

NOTE. —Figures of installed capacity and generation from 1965-66 and onwards have been changed by taking the installed capacity and generation of jointly owned projects according to the share of participating States instead of the previous practice of taking the total values against the State having major share.

*Purchase includes *inter-alia* that portion of transfer from the supplies of jointly-owned projects which may be over and above the share of the State from those projects.

†Sales include, *inter-alia*, that portion of transfer from the supplies of jointly-owned projects, which may be below the share of the State from those projects.

TABLE 45 (2)—PROGRESS OF ELECTRICITY SUPPLY—ASSAM

Year	31-12-51	31-12-56	31-3-61	31-3-66	31-3-69	31-3-70
1	2	3	4	5	6	7
<i>Installed Capacity (MW) —</i>						
Hydro	0.550	0.550	9.270	45.94	48.71	48.71
Steam	0.200	0.622	..	..	..	..
Diesel	2.593	4.108	10.060	32.10	27.99	28.24
Gas Turbine . . . . .	..	..	..	81.50	81.50	81.50
TOTAL .	3.343	5.280	19.330	159.54	158.20	158.45
Year	1951	1956	1960—61	1965—66	1968—69	1969—1970
<i>Energy Generation (Gross) (MillionkWh)—</i>						
Hydro	2.130	2.897	20.883	56.39	108.32	133.16
Steam	0.001	..	..	..	..	..
Diesel	4.469	8.372	15.336	26.65	18.85	19.57
Gas Turbine	2.130	..	..	14.86	121.87	169.40
TOTAL .	8.730	11.269	36.219	97.90	249.04	322.13
Purchased from non-utilities & Adjoining States . . . . .	..	..	..	..	..	..
Used by power station auxiliaries . . . . .	..	..	1.273	4.92	6.17	6.51
<i>Sales—</i>						
(i) To Adjoining States . . . . .	..	..	..	..	2.66	4.63
(ii) Within the State—						
Domestic light and small power	2.080	3.331	9.897	23.59	29.36	33.50
Commercial light & small power*	2.060	3.689	4.212	19.33	49.92	50.62
Industrial power	0.772	1.383	11.827	23.59	99.19	139.26
Public lighting	0.614	0.740	2.699	3.65	3.89	3.59
Railways/Tramways . . . . .	..	..	..	..	..	..
Agricultural . . . . .	..	..	..	0.11	0.40	0.25
Public Water Works and Sewage pumping	0.069	0.143	0.463	0.76	4.06	3.67
Miscellaneous . . . . .	..	..	..	..	3.51	22.85
TOTAL (ii) .	5.595	9.286	29.098	71.03	190.33	253.74

*Includes supply to tea gardens.

TABLE 45 (3)—PROGRESS OF ELECTRICITY SUPPLY—BIHAR

Year	31-12-51	31-12-56	31-3-61	31-3-61	31-3-69	31-3-70
1	2	3	4	5	6	7
<i>Installed Capacity (MW)—</i>						
Hydro . . . . .	..	4.000	44.000	44.00	..	5.00
Steam	39.510	185.045	288.520	608.77	222.77	322.77
Diesel	7.486	15.396	18.373	19.52	16.41	16.22
TOTAL .	46.996	204.441	350.893	672.29	239.18	343.99
Year	1951	1956	1960—61	1965—66	1968—69	1969—70
<i>Energy Generation (Million kWh)—</i>						
Hydro . . . . .	..	2.153	143.65	124.51	..	0.23
Steam	118.870	580.118	1,408.554	3,079.56	609.29	1,074.77
Diesel	13.162	20.964	44.624	22.80	18.04	13.83
TOTAL .	132.032	603.235	1,596.833	3,226.87	627.33	1088.83
Purchased from non-utilities and Adjoining States . . . . .	..	..	67.789	113.53	1,330.27	1,321.43
Used by power station auxiliaries . . . . .	..	..	98.620	300.68	77.39	122.03
<i>Sales—</i>						
(i) To Adjoining States . . . . .	..	..	457.839	889.30	2.59	153.12
(ii) Within the State—						
Domestic light & small power	14.820	27.138	44.312	61.09	78.92	86.27
Commercial light & small power	6.062	13.296	29.830	69.35	88.94	98.48
Industrial power	87.847	298.543	776.395	1,397.25	1,067.72	1,135.60
Public lighting	1.098	1.937	3.647	4.80	5.04	5.40
Railways/Tramways . . . . .	..	..	4.528	343.09	244.14	252.39
Agricultural	4.599	4.272	18.255	29.33	67.88	71.39
Public Water Works & Sewage Pumping	4.167	8.126	12.238	27.64	31.38	32.53
Miscellaneous . . . . .	..	..	..	..	..	..
TOTAL (ii) .	118.593	353.312	889.205	1,932.55	1,584.02	1,682.06

NOTE.—Data included DVC (Bihar portion) upto 1965-66. From the year 1968-69 onwards D.V.C. data have been excluded and have been given separately.

TABLE 45(4)—PROGRESS OF ELECTRICITY SUPPLY—GUJARAT

Year	31-12-51	31-12-56	31-3-61	31-3-66	31-3-69	31-3-70
1	2	3	4	5	6	7
Installed Capacity (MW)—						
Hydro . . . . .	..	..	..	..	..	..
Steam	108·930	183·600	280·900	609·60	619·60	619·60
Diesel	32·948	40·605	52·367	41·02	41·94	32·44
Nuclear . . . . .	..	..	..	..	..	210·00
TOTAL .	141·878	224·205	333·267	650·62	661·54	862·04
Year	1951	1956	1960—61	1965—66	1968—69	1969—70
Energy Generated (Million kWh)—						
Hydro . . . . .	..	..	..	..	..	..
Steam	316·405	739·372	1,209·144	2,155·48	3,255·42	3,020·22
Diesel	57·244	51·577	62·083	51·90	25·10	18·30
Nuclear . . . . .	..	..	..	..	..	669·47
TOTAL .	373·649	790·949	1,271·227	2,207·38	3,280·52	3,707·99
Purchased from non-utilities and Adjoining States . . . . .	..	..	..	0·87	73·31	59·48
Used by powerstation auxiliaries . . . . .	..	..	82·615	177·76	240·97	286·07
Sales—						
(i) To Adjoining States . . . . .	..	..	..	0·40	2·10	2·99
(ii) Within the State—						
Domestic light and small power	30·901	46·726	71·573	141·54	194·97	214·80
Commercial light & small power	2·328	14·936	31·660	48·98	76·53	107·82
Industrial power	266·694	590·402	805·961	1,421·15	1,957·42	2,159·10
Public lighting	5·889	8·980	15·274	22·23	28·90	31·28
Railways/Tramways . . . . .	..	..	..	..	..	..
Agricultural	1·326	6·060	19·610	100·53	334·75	356·95
Public Water Works & Sewage Pumping	12·083	26·746	39·560	62·04	75·70	84·20
Miscellaneous . . . . .	..	..	..	..	12·33	12·24
TOTAL (ii) .	329·221	693·850	983·638	1,796·47	2,679·60	2,966·39

TABLE 45 (5)—PROGRESS OF ELECTRICITY SUPPLY—HARYANA**

Year	31-12-51	31-12-56	31-3-61	31-3-66	31-3-69	31-3-70
1	2	3	4	5	6	7
Installed Capacity (MW)—						
Hydro . . . . .	..	..	..	245.69	408.47	408.47
Steam	1.300	6.750	6.300	28.10	90.60	90.60
Diesel	6.986	7.515	4.306	6.32	5.34	5.34
TOTAL	8.286	14.265	10.606	280.11	504.41	504.41
Year	1.51	1956	1960—61	1965—66	1968—69	1969—70
Energy Generation (Million kWh)—						
Hydro . . . . .	..	..	..	1,083.26	1,472.82	1,690.02
Steam	2.881	6.769	6.658	14.15	200.52	222.36
Diesel	6.867	4.048	0.861	3.68	0.30	0.16
TOTAL	9.748	10.817	7.519	1,101.09	1,673.34	1,912.54
*Purchased from non-utilities & Adjoining States . . . . .	..	..	..	..	..	..
Used by power station auxiliaries . . . . .	..	..	..	1.339	24.00	24.93
†Sales—						
(i) To Adjoining States . . . . .	..	..	..	..	721.07	788.59
(ii) Within the State—						
Domestic light and small power . . . . .	..	..	..	..	42.30	50.90
Commercial light and small power . . . . .	..	..	..	..	35.00	40.96
Industrial power . . . . .	..	..	..	..	404.58	451.99
Public lighting . . . . .	..	..	..	..	3.41	4.12
Railways/Tramways . . . . .	..	..	..	..	..	..
Agricultural . . . . .	..	..	..	..	169.32§	239.64§
Public Water Works and Sewage Pumping . . . . .	..	..	..	..	..	..
Miscellaneous . . . . .	..	..	..	..	0.81	0.98
TOTAL (ii) . . . . .	..	..	..	..	655.42	788.59

NOTE.—Figures of installed capacity and generation from 1965-66 and onwards have been changed by taking the installed capacity and generation of jointly-owned projects according to the share of participating States instead of the previous practice of taking the total values against the State having major share.

* Purchase includes, *inter-alia*, that portion of transfer from the supplies of jointly-owned projects, which may be over and above the share of the State from those projects. Nangal-Fertilizers have been taken under Punjab table.

† Sales include, *inter-alia*, that portion of transfer from the supplies of jointly-owned projects which may be below the share of the State from those projects. Common consumers of B. M. B. have at present been shown under Punjab table.

§ Include figures of public water works and sewage pumping also.

** It has not yet been possible to work out figures of installed capacity, generation, purchase and station auxiliaries prior to 1965-66 for the area under Haryana, due to want of data. Similarly the figures for sales in Haryana are not available prior to 1967-68.

TABLE 45(6)—PROGRESS OF ELECTRICITY SUPPLY—JAMMU & KASHMIR

Year	31-21-51	31-12-56	31-3-61	31-3-66	31-3-69	31-3-70
1	2	3	4	5	6	7
<i>Installed Capacity (MW)—</i>						
Hydro	4.514	10.606	10.62	28.07	26.92	26.92
Steam	1.500	1.500	1.500	1.50	7.50	7.50
Diesel	0.465	0.769	0.869	1.54	5.92	5.94
TOTAL .	6.479	12.875	12.981	31.11	40.34	40.36
Year	1951	1956	1960—61	1965—66	1968—69	1969—70
<i>Energy Generation (Gross) (Million kWh)—</i>						
Hydro	23.479	23.896	43.489	N.A.	123.02	138.35
Steam	1.774	..	..	N.A.	N.A.	26.41
Diesel	0.261	0.075	0.025	N.A.	10.93	9.00
TOTAL .	25.514	23.971	43.514	N.A.	133.95	173.76
Purchased from non-utilities and Adjoining States . . . . .	..	..	17.500	35.462	61.10	44.41
Used by power station auxiliaries . . . . .	..	..	0.509	..	9.70	6.41
<i>Sales (Estimated)—</i>						
(i) To Adjoining States . . . . .	..	..	..	..	..	..
(ii) Within the State —						
Domestic light and small power	7.660	8.864	22.500	Data not available.	48.82	66.53
Commercial light and small power	0.811	0.176	1.000		31.04	11.36
Industrial power	6.318	6.424	22.000		31.30	56.80
Public lighting	0.552	0.566	1.300		Neg.	3.25
Railways/Tramways . . . . .	..	..	..		..	..
Agricultural	0.424	0.302	0.700		13.32	8.11
Public Water Works and Sewage Pumping	1.610	2.086	3.500		6.59	12.98
Miscellaneous . . . . .	..	..	..	..	..	3.25
TOTAL (ii) .	17.375	18.418	51.000		131.07	162.28

TABLE 45 (7)—PROGRESS OF ELECTRICITY SUPPLY—KERALA

Year	31-12-51	31-12-56	31-3-61	31-3-66	31-3-69	31-3-70
1	2	3	4	5	6	7
<i>Installed Capacity (MW)—</i>						
Hydro	28.500	85.500	132.500	192.50	545.00	546.50
Steam . . . . .	..	..	..	..	..	..
Diesel	4.170	4.277	4.762	4.60	1.60	1.60
TOTAL	32.670	89.777	137.262	197.10	546.60	548.10
Year	1951	1956	1960—61	1965—66	1968—69	1969—70
<i>Energy Generation (Million kWh)—</i>						
Hydro	152.179	349.599	581.818	840.34	1,623.00	2,027.57
Steam . . . . .	..	..	..	..	..	..
Diesel	1.460	0.132	..	1.60	Neg.	..
TOTAL	153.639	349.731	581.818	841.94	1,623.00	2,027.57
Purchased from non-utilities and Adjoining States . . . . .	..	..	50.341	116.48	18.89	24.64
Used by power station auxiliaries.	..	..	18.349	18.82	17.22	8.29
<i>Sales—</i>						
(i) To Adjoining States . . . . .	..	..	11.591	1.35	29.31	306.76
<i>(ii) Within the State—</i>						
Domestic light and small power.	13.748	22.890	51.073	89.93	80.45	91.12
Commercial light and small power	2.697	2.291	3.851	14.43	58.29	64.54
Industrial power	140.939	223.592	396.407	602.90	1,117.14	1,188.71
Public lighting	1.604	2.722	8.358	10.55	16.29	20.50
Railways/Tramways . . . . .	..	..	..	..	..	..
Agricultural	6.170	10.721	18.287	24.03	43.21	39.66
Public Water Works and Sewage Pumping	3.292	7.001	7.844	7.96	4.43	10.83
Miscellaneous . . . . .	..	..	..	..	0.58	0.54
TOTAL (ii)	168.450	269.217	485.820	749.80	1,320.39	1,415.90

TABLE 45 (8)—PROGRESS OF ELECTRICITY SUPPLY—MADHYA PRADESH

Year	31-12-51	31-12-56	31-3-61	31-3-66	31-3-69	31-3-70
1	2	3	4	5	6	7
Installed Capacity (MW)						
Hydro . . . . .	..	..	69.005	46.00	122.00	143.50
Steam	27.308	66.322	169.793	238.40	469.20	610.70
Diesel	11.979	15.984	28.739	26.14	7.40	6.70
TOTAL	39.287	82.306	267.537	310.54	698.60	760.90
Year	1951	1956	1960-61	1965-66	1968-69	1969-70
Energy Generation (Gross) (Million kWh)						
Hydro . . . . .	..	..	23.240	78.06	271.43	578.91
Steam	57.354	150.070	429.677	1,110.20	1,757.76	1,808.72
Diesel	15.953	19.271	24.049	19.96	1.47	0.31
TOTAL	73.307	169.341	476.966	1,208.22	2,030.66	2,617.94
*Purchased from non-utilities and Adjoining States . . . . .	..	..	30.000	62.29	58.78	58.71
Used by power station auxiliaries . . . . .	..	..	30.985	100.06	174.11	183.73
†Sales—						
(i) To Adjoining States— . . . . .	..	..	3.000	0.09	14.53	29.31
(ii) Within the State						
Domestic light & small power	14.845	25.206	45.397	74.39	116.66	132.15
Commercial light small and power	7.470	13.525	20.790	26.64	63.46	69.06
Industrial power	23.094	77.280	301.267	868.38	1,284.89	1,418.47
Public lighting	2.183	4.801	9.113	9.97	17.87	20.36
Railways/Tramways . . . . .	..	..	..	..	..	1.67
Agricultural	0.188	0.698	3.890	11.76	38.49	51.47
Public Water Works & Sewage Pumping	10.321	18.486	25.243	37.28	51.09	56.16
Miscellaneous . . . . .	..	..	..	..	..	0.01
TOTAL (ii)	58.101	139.996	405.700	1,028.42	1,572.46	1,749.35

Note.—Figure of installed capacity and generation from 1965-66 onward have been changed by taking the installed capacity and regeneration of jointly-owned projects according to the share of participating States instead of the previous practice of taking the total values against the State having major share.

*Purchase includes, *inter-alia*, that portion of transfer from the supplies of jointly-owned projects, which may be over and above the share of the State from those projects.

†Sales include, *inter-alia*, that portion of transfer from the supplies of jointly owned projects, which may be below the share of the State from those projects.

TABLE 45 (9)—PROGRESS OF ELECTRICITY SUPPLY—MAHARASHTRA

Year	31-12-51	31-12-56	31-3-61	31-3-66	31-3-69	31-3-70
1	2	3	4	5	6	7
<i>Installed capacity in (MW)—</i>						
Hydro	253·114	279·914	281·91	598·89	844·32	844·32
Steam	64·954	225·110	443·25	653·25	771·00	771·00
Diesel	21·122	27·917	34·36	52·36	23·67	12·17
Nuclear . . . . .	..	..	..	..	..	210·00
TOTAL	339·190	532·941	759·53	1,304·50	1,638·99	1,837·49
Year	1951	1956	1960-61	1965-66	1968-69	1969-70
<i>Energy Generation (Million kWh)</i>						
Hydro	1,229·024	1,467·483	1,364·95	3,157·56	4,120·00	4,158·79
Steam	280·038	742·343	1,834·76	2,415·92	3,508·52	3,560·23
Diesel	32·203	38·879	68·17	61·71	36·06	12·89
Nuclear . . . . .	..	..	..	..	..	669·50
TOTAL	1,541·265	2,248·705	3,267·88	5,635·19	7,664·58	8,401·41
*Purchased from non-utilities and Adjoining States . . . . .	..	..	2·200	..	14·53	73·13
Used by power station auxiliaries . . . . .	..	..	136·118	212·11	310·80	367·45
†Sales—						
(i) To Adjoining States . . . . .	..	..	30·000	55·409	8·41	9·09
(ii) Within the State :						
Domestic light and small power	107·964	165·574	259·901	448·208	603·43	663·28
Commercial light and small power	86·133	131·301	198·230	363·381	446·86	433·23
Industrial power	815·801	1,234·899	1,852·666	3,297·263	4,488·76	4,919·11
Public lighting	7·129	14·503	19·883	38·571	59·01	69·03
Railways/Tramways	270·946	344·463	338·927	413·863	388·85	495·30
Agricultural	2·748	5·129	14·759	89·555	236·21	305·75
Public Water Works and Sewage Pumping	23·346	31·366	35·157	65·696	113·67	131·74
Miscellaneous . . . . .	..	..	..	..	52·80	61·83
TOTAL (ii)	1,314·067	1,927·235	2,719·523	4,716·537	6,389·59	7,079·27

NOTE.—Figures of installed capacity and generation of jointly-owned projects have been taken according to the share of Participating States.

*Purchase includes, *inter-alia*, that portion of transfer from the supplies of jointly-owned projects which may be over and above the share of the States from those projects.

†Sale includes, *inter-alia* that portion of transfer from the supplies of jointly-owned projects, may be below the share of the State from those projects.

TABLE 45(10)—PROGRESS OF ELECTRICITY SUPPLY—MYSORE

Year	31-12-51	31-12-56	31-3-61	31-3-66]	31-3-69	31-3-70
1	2	3	4	5	6	7
Installed Capacity (MW)—						
Hydro	107·200	171·200	178·200	432·00	788·40	877·50
Steam	0·057	..	..	1·10	..	..
Gas Turbine . . . . .	..	..	..	10·00	10·00	..
Diesel	7·681	12·264	12·876	12·53	0·65	0·65
TOTAL	114·938	190·464	191·076	455·63	799·05	878·15
Year	1951	1956	1960-61	1965-66	1968-69	1969-70
Energy Generation (Million kWh)						
Hydro	525·343	809·725	1,038·756	1,916·07	2,517·67	3,289·18
Steam . . . . .	..	..	..	1·63	..	..
Gas Turbine . . . . .	..	..	..	0·61	..	..
Diesel	13·159	16·449	19·242	17·52	0·02	0·03
TOTAL	538·502	826·174	1,057·998	1,935·83	2,517·69	3,289·21
*Purchased from non-utilities and Adjoining States . . . . .	..	..	48·250	0·04	0·06	15·07
Used by power station auxiliaries . . . . .	..	..	16·652	9·60	10·63	12·59
†Sales—						
To Adjoining State	..	..	..	227·006	196·88	326·47
Within the State	..	..	..	..	..	..
Domestic light and small power	31·987	55·489	75·243	131·255	188·54	205·99
Commercial light & small power	8·734	17·785	21·299	27·292	70·66	79·61
Industrial power	292·174	486·229	731·889	1,035·514	1,392·72	1,736·53
Public lighting	7·140	13·830	18·880	28·682	43·17	48·47
Railways/Tramways . . . . .	..	..	..	..	..	..
Agricultural	6·967	16·465	28·714	66·015	124·50	149·47
Public Water Works and Sewage Pumping	37·034	42·574	58·915	92·846	95·40	110·90
Miscellaneous . . . . .	..	..	..	..	0·02	..
TOTAL (II)	384·056	632·380	934·940	1,381·604	1,915·01	2,330·97

Notes.—Figures of installed capacity and generation from 1965-66 and onwards have been changed by taking the installed capacity and generation of jointly-owned projects according to the share of participating States instead of the previous practice of taking the total values against the State having major share.

*Purchase includes, *inter-alia*, that portion of transfer from the supplies of jointly-owned projects, which may be over and above the share of the State from those projects.

†Sales includes, *inter-alia*, that portion of transfer from the supplies of jointly-owned projects, which may be below the share of the State from those projects.

TABLE 45 (II)—PROGRESS OF ELECTRICITY SUPPLY—NAGALAND

Year	31-12-51	31-12-56	31-3-61	31-3-66	31-3-69	31-3-70
1	2	3	4	5	6	7
<i>Installed Capacity (MW)—</i>						
Hydro
Steam
Diesel	0.73	2.00	2.00
TOTAL	0.73	2.00	2.00
Year	1951	1956	1960-61	1965-66	1968-69	1969-70
<i>Energy Generation (Gross) (Million kWh)</i>						
Hydro
Steam
Diesel	1.01	1.20	1.59
TOTAL	1.01	1.20	1.59
Purchased from non-utilities and Adjoining States	2.66	4.66
Used by power station auxiliaries	0.01	0.02	0.06
<i>Sales—</i>						
(i) To Adjoining States
<i>(ii) Within the State—</i>						
Domestic light and small power	0.65	2.37	1.45
Commercial light and small power	0.66	0.90
Industrial power	0.07	0.16	0.32
Public lighting	0.07	0.16	0.59
Railways/Tramways
Agricultural
Public Water Works and Sewage Pumping	0.05	0.03	..
Miscellaneous
TOTAL (II)	0.84	3.38	3.26

TABLE 45(12)—PROGRESS OF ELECTRICITY SUPPLY—ORISSA

Year	31-12-51	31-12-56	31-3-61	31-3-66	31-3-69	31-3-70
1	2	3	4	5	6	7
Installed Capacity (MW)—						
Hydro	0.005	24.005	123.005	304.44	304.42	304.42
Steam	0.776	5.776	5.776	5.75	195.75	258.25
Diesel	4.079	3.991	7.469	4.80	1.68	1.68
TOTAL	4.860	33.772	136.249	314.99	501.85	564.35
Year	1951	1956	1960-61	1965-66	1968-69	1969-70
Energy (Million kWh)—						
Generation—						
(Gross)						
Hydro	0.013	0.011	483.738	1,155.52	997.57	1,060.83
Steam	2.133	17.617	..	..	384.36	401.66
Diesel	4.665	3.517	5.901	0.97	0.95	0.91
TOTAL	6.811	21.145	489.639	1,156.49	1382.88	1,463.40
*Purchased from non-utilities and Adjoining States	..	..	104.813	12.38	59.23	40.52
Used by power station auxiliaries	..	..	3.680	4.26	53.55	58.44
†Sales—						
(i) To Adjoining States	..	..	25.000	131.03	0.18	8.80
(ii) Within the State—						
Domestic light & small power	2.226	4.023	18.300	29.93	28.82	35.12
Commercial light and small power	1.408	1.938	7.870	16.69	51.32	51.65
Industrial power	1.117	7.578	457.465	882.21	1,131.13	1,176.22
Public lighting	0.243	0.614	1.487	7.95	4.41	6.62
Railways/Tramways . . . . .	..	..	..	32.72	26.11	32.67
Agricultural . . . . .	..	..	0.752	1.73	3.33	4.27
Public Water Works and Sewage Pumping	0.101	1.049	2.297	5.36	4.94	9.63
Miscellaneous . . . . .	..	..	..	..	..	9.18
TOTAL (ii)	5.095	15.202	488.171	976.59	1,250.06	1325.36

Note.—Figures of installed capacity and generation from 1965-66 and onwards have been changed by taking the installed capacity and generation of jointly-owned projects according to the share of participating States instead of the previous practice of taking the total values against the State having major share.

*Purchase includes, *inter-alia*, that portion of transfer from the supplies of jointly-owned Projects, which may be over and above the share of the State from those projects.

†Sales include, *inter-alia*, that portion of transfer from the supplies of jointly-owned projects, which may be below the share of the State those projects.

TABLE 45 (13)—PROGRESS OF ELECTRICITY SUPPLY—PUNJAB**

Year	31-12-51	31-12-56	31-3-61	31-3-66	31-3-69	31-3-70
1	2	3	4	5	6	7
<i>Installed capacity (MW)—</i>						
Hydro	48.240	144.240	324.726	417.37	660.70	660.70
Steam	1.076	1.076	1.576	5.00	15.00	15.00
Diesel	8.597	10.449	9.544	10.28	6.07	1.56
TOTAL	57.913	155.765	335.846	432.65	681.77	680.26
Year	1951	1956	1960-61	1965-66	1968-69	1969-70
<i>Energy Generation (Million kWh)</i>						
Hydro	163.719	413.497	977.726	1,806.34	2,441.43	2,723.92
Steam . . . . .	..	..	..	8.00	4.49	3.03
Diesel	9.309	0.685	4.359	4.45	0.76	1.99
TOTAL	173.028	414.182	982.085	1,818.79	2,446.68	2,728.94
*Purchased from non-utilities and Adjoining States	..	..	..	311.561	345.26	..
Used by power station auxiliaries	..	..	7.995	9.309	8.12	7.67
†Sales—						
(i) Adjoining States . . . . .	..	..	182.875	384.488	600.80	..
(ii) Within the State—						
Domestic light and small power	24.898	40.840	69.867	113.54	121.67	132.44
Commercial light and small power	12.006	34.819	61.397	86.43	77.87	79.18
Industrial power	56.128	153.632	355.974	1,915.71	1,831.04	1,862.86
Public lighting	2.443	5.755	9.092	9.87	8.71	8.18
Railways/T ramways . . . . .	..	..	..	..	..	..
Agricultural	0.490	22.655	74.848	210.85	192.418	367.06
Public Water Works and Sewage Pumping	6.589	8.729	9.121	13.41	6.84	4.12
Miscellaneous . . . . .	..	..	..	..	7.57	44.57
TOTAL (ii)	102.554	266.430	580.299	2349.81	2256.11	2498.41

NOTE.—Figures of installed capacity and generation from 1965-66 and onwards have been changed by taking the installed capacity and generation of jointly-owned projects according to the share of participating State's instead of the previous practice of taking the total value against the State having major share.

TABLE 45(13)—Foot Notes

*Purchase includes, *inter-alia*, that portion of transfer from the supplies of jointly-owned projects, which may be over and-above the share of the State from those projects. This also includes receipt of energy by Nangal Fertilizer.

Detail of purchase from B.M.B. is given below :

Offtake of Punjab from B.M.B. (including proportionate losses)§ .	=	1524.33 M.kWh
Energy consumed by N. F. F.	=	1393.44 Mk Wh
		<u>2918.66 Mk Wh</u>
(—) Share of Punjab from B. M. B. ($4983.523 \times 84.78\% \times 60\%$) .	=	2435.02
		<u>383.64</u>

**Figures of installed capacity and generation for all the years from 1966-67 onwards are for the area under reorganised Punjab. Figures of the years 1951, 1956, 1960-61, and 1965-66 pertain to Punjab and Chandigarh combined, due to want of data at present.

†Sales include, *inter-alia*, that portion of transfer from the supplies of jointly-owned projects, which may be below the share of the State from projects. These also include complete sales to common consumers. Detail of sales to common pool consumers is given as below :

Jammu & Kashmir	44.41 Mk Wh
Himachal Pradesh	71.87 Mk Wh
Chandigarh	74.16 Mk Wh
D. E. S. U.	415.32 Mk Wh
	<u>605.76</u>

§Includes figure of Public Water Works and Sewage Pumping.

TABLE 45 (14)—PROGRESS OF ELECTRICITY SUPPLY—RAJASTHAN

Year	31-12-51	31-12-56	31-3-61	31-3-66	31-3-69	31-3-70
1	2	3	4	5	6	7
<i>Installed Capacity (MW)—</i>						
Hydro . . . . .	..	..	..	156.27	305.33	326.83
Steam	17.26	24.00	46.25	48.50	146.15	171.15
Diesel	13.63	19.79	24.43	31.81	36.96	49.33
Gas Turbine . . . . .	..	..	..	10.00	10.00	..
TOTAL	30.89	43.79	70.68	246.58	498.44	547.31
Year	1951	1956	1960-61	1965-66	1968-69	1969-70
<i>Energy Generation (Gross) (Million kWh)</i>						
Hydro . . . . .	..	..	..	564.24	932.44	1,137.40
Steam	42.72	61.28	70.41	127.31	346.32	295.84
Diesel	21.55	29.03	37.99	36.16	32.15	15.67
Gas Turbine . . . . .	..	..	..	1.38	Neg.	..
TOTAL	64.27	90.31	108.40	729.09	1,310.91	1,448.91
*Purchase from non-utilities & Adjoining States . . . . .	..	..	22.808	3.086	..	..
Used by power station auxiliaries . . . . .	..	..	6.395	10.552	41.23	33.21
†Sales						
(i) To Adjoining States	..	..	..	311.49	432.87	..
(ii) Within the State :						
Domestic light and small power	10.834	12.325	20.734	38.51	53.56	65.29
Commercial light and small power	5.833	11.115	15.858	38.26	51.06	56.49
Industrial power	14.198	21.890	33.580	197.81	409.22	481.33
Public lighting	1.969	2.987	5.200	7.27	9.55	9.88
Railways/Tramways . . . . .	..	..	..	..	0.53	1.22
Agricultural	1.664	1.845	3.621	19.68	68.55	91.10
Public Water Works and Sewage Pumping	12.923	14.459	19.537	24.26	49.13	55.62
Miscellaneous . . . . .	..	..	..	..	10.33	18.43
TOTAL (ii)	47.421	64.621	98.530	325.79	651.93	779.36

NOTE.—Figures of installed capacity and generation from 1965-66 and onwards have been changed by taking the installed capacity and generation of jointly-owned projects according to the share of participating States instead of the previous practice of taking the total value against the State having major share.

*Purchase includes, *inter-alia*, that portion of transfer from the supplies of jointly-owned projects, which may be over and above the share of the State from those Projects.

†Sales include, *inter-alia*, that portion of transfer from the supplies of jointly-owned projects, which may be below share of the State from those Projects, common consumers of B.M.B. are at present being shown under Punjab table.

TABLE 45 (15)—PROGRESS OF ELECTRICITY SUPPLY—TAMIL NADU

Year	31-12-51	31-12-56	31-3-61	31-3-66	31-3-69	31-3-70
1	2	3	4	5	6	7
<i>Installed Capacity in (MW)—</i>						
Hydro	101.950	165.150	415.450	906.65	969.00	1,029.00
Steam	52.000	84.000	101.500	401.50	501.50	791.50
Diesel	0.516	0.516	0.516	6.00	..	..
TOTAL	154.466	249.666	517.466	1,314.15	1,470.50	1,820.50
Year	1951	1956	1960-61	1965-66	1968-69	1969-70
<i>Energy Generation (Million kWh)</i>						
Hydro	579.173	802.619	1,797.545	1,978.63	3,044.81	2,869.25
Steam	140.189	281.718	416.171	2,230.50	2,616.20	2,784.87
Diesel	0.195	..	..	0.28	..	..
TOTAL	719.557	1,084.337	2,213.716	4,209.41	5,661.01	5,654.12
Purchased from non-utilities and Adjoining States . . . . .	..	..	23.866	218.60	135.76	513.49
Used power station auxiliaries . . . . .	..	..	64.746	266.33	293.29	317.73
<i>Sales—</i>						
(i) To Adjoining State. . . . .	..	..	80.549	210.62	108.05	98.57
(ii) Within the State :						
Domestic light and small power	59.340	108.915	152.890	213.70	270.86	302.15
Commercial light and small power	54.693	90.398	156.712	299.14	309.26	340.48
Industrial power	324.291	449.368	909.791	1,792.32	2,496.59	2,813.42
Public lighting	14.178	20.774	33.920	48.91	62.67	70.75
Railways/Tramways	15.749	12.628	15.000	20.29	..	32.33
Agricultural	69.636	138.300	382.403	819.65	1,126.16	1,083.21
Public Water Works and Sewage Pumping	8.625	10.319	14.427	28.112	34.65	35.14
Miscellaneous . . . . .	..	..	..	..	54.12	27.17
TOTAL (ii)	546.512	830.702	1,665.143	3,222.12	4,354.31	4,704.65

TABLE 45 (16)—PROGRESS OF ELECTRICITY SUPPLY—UTTAR PRADESH

Year	At the end of 1951	At the end of 1956	31-3-61	31-3-66	31-3-69	31-3-70
1	2	3	4	5	6	7
<i>Installed Capacity (MW)—</i>						
Hydro	26.290	96.330	92.470	477.76	477.75	506.04
Steam	161.090	179.860	270.810	398.23	814.24	857.28
Diesel	12.883	32.490	34.164	42.05	40.95	23.68
Gas Turbine . . . . .	..	..	..	12.50	12.50	12.50
TOTAL	200.193	308.740	397.444	930.54	1,345.44	1,399.50
Year	1951	1956	1960-61	1965-66	1968-69	1969-70
<i>Energy Generation (Million kWh)</i>						
Hydro	157.320	232.309	439.967	1,542.86	1,611.44	1,620.27
Steam	398.271	490.829	786.262	1,450.67	3,707.27	4,276.39
Diesel	14.181	20.343	26.092	25.10	6.26	2.84
Gas Turbine . . . . .	..	..	..	14.03	1.19	..
TOTAL	569.772	743.481	1,252.321	3,032.66	5,326.16	5,899.50
Purchase from non-utilities and Adjoining States . . . . .	..	..	..	134.108	400.64	358.77
Used by power station auxiliaries . . . . .	..	..	59.551	118.354	347.03	394.26
<i>Sales—</i>						
(i) To Adjoining States . . . . .	..	..	..	109.16	63.08	71.59
(ii) Within the State :						
Domestic light and small power	49.587	71.510	122.718	190.50	283.09	326.23
Commercial Light and small power	40.451	59.317	74.736	116.11	129.44	138.42
Industrial power	230.991	314.181	503.928	1,639.76	2,884.93	3,217.32
Public lighting	6.246	8.384	13.848	18.61	21.22	29.24
Railways/Tramways . . . . .	..	..	..	20.32	124.64	134.12
Agricultural	98.230	90.441	199.992	315.99	652.37	619.67
Public Water Works and Sewage Pumping	32.434	42.145	60.481	70.94	82.17	80.51
Miscellaneous	*	*	*	*	76.84	77.65
TOTAL (ii)	457.939	585.987	975.703	2,372.23	4,254.70	4,623.16

*Included in Commercial light and small power.

TABLE 45 (17)—PROGRESS OF ELECTRICITY SUPPLY—WEST BENGAL

Year	31-12-51	31-12-56	31-3-61	31-3-66	31-3-69	31-3-70
1	2	3	4	5	6	7
Installed Capacity (MW)—						
Hydro	2.760	4.760	67.208	67.51	25.51	25.51
Steam	539.901	528.951	676.975	1,211.21	1,171.43	1,171.44
Diescl	3.513	5.612	9.473	13.47	12.39	12.28
TOTAL	546.174	538.723	753.655	1,292.19	1,209.33	1,209.23
Year	1951	1956	1960-61	1965-66	1968-69	1969-70
Energy Generation (Million kWh)—						
Hydro	5.929	8.335	159.886	144.90	38.83	44.42
Steam	1,196.902	1,765.624	2,150.169	3,879.68	3,961.19	4,089.01
Diescl	4.445	4.632	8.684	16.36	16.30	17.55
TOTAL	1,207.276	1,778.591	2,318.739	4,040.94	4,016.32	4,150.98
Purchase from non-utilities and Adjoining States . . . . .	..	..	604.970	51.85	958.68	920.09
Used by power station auxiliaries . . . . .	..	..	130.595	329.45	323.63	338.33
Sales—						
(i) To Adjoining States . . . . .	..	..	10.000	0.92	50.33	59.95
(ii) Within the State :						
Domestic light and small power	180.631	253.402	353.517	510.14	607.78	625.47
Commercial light and small power	37.550	79.275	115.786	173.87	209.18	229.79
Industrial power	731.949	1,291.502	1,808.128	3,009.71	2,877.35	2,834.62
Public lighting	8.346	15.112	23.395	29.80	35.57	35.26
Railways/Tramways	42.899	47.487	95.297	227.01	253.96	288.79
Agricultural . . . . .	..	2.170	0.650	4.25	15.04	18.03
Public Water Works and Sewage Pumping	32.564	65.594	95.993	110.14	129.85	135.26
Miscellaneous . . . . .	..	..	..	..	0.17	..
TOTAL (ii)	1,034.139	1,754.542	2,492.766	4,064.92	4,128.90	4,167.22

NOTE.—Data include D. V. C. upto 1965-66 and from the year 1968-69 onwards. D. V. C. data have been excluded and have been given separately.

TABLE 45 (18)—PROGRESS OF ELECTRICITY SUPPLY—D.V.C.

Year	31-12-51	31-12-56	31-3-61	31-3-66	31-3-69	31-5-70
1	2	3	4	5	6	7
<i>Installed Capacity (MW)—</i>						
Hydro	104.00	104.00
Steam	957.50	957.50
Diesel
TOTAL	1061.50	1061.50
Year	1951	1956	1960-61	1965-66	1968-69	1969-70
<i>Energy Generation (Gross) (MillionkWh)</i>						
Hydro	274.88	244.21
Steam	4,217.22	3,870.77
Diesel
TOTAL	4,492.10	4114.98
Purchase from non-utilities and Adjoining States	74.91	223.40
Used by powerstation auxiliaries	420.60	395.41
<i>Sales—</i>						
(i) To Adjoining States	2,572.03	2,438.45
(ii) Within the State :						
Domestic light and small power
Commercial light and small power	0.04	0.04
Industrial power	1,079.69	1,144.55
Public lighting
Railways/Tramways	208.34	211.82
Agricultural
Public Water Works and Sewage Pumping
Miscellaneous	7.65	8.28
TOTAL (ii)	1,295.72	1,364.69

TABLE 45 (19)—PROGRESS OF ELECTRICITY SUPPLY—DELHI

Year	31-12-51	31-12-56	31-12-61	31-3-66	31-3-69	31-3-70
1	2	3	4	5	6	7
<i>Installed Capacity (MW)—</i>						
Hydro . . . . .	..	..	..	..	—	..
Steam	35.15	52.40	53.60	91.60	231.00	231.00
Diesel	7.44	2.79	22.70	20.82	20.82	20.82
TOTAL	42.59	55.19	76.30	112.42	251.82	251.82
Year	1951	1956	1960-61	1965-66	1968-69	1969-70
<i>Energy Generation (Million kWh)—</i>						
Hydro . . . . .	..	..	..	..	..	..
Steam	131.88	231.68	271.41	387.13	605.42	697.15
Diesel	5.40	0.54	39.35	7.35	2.87	1.92
TOTAL	137.28	232.22	310.76	394.48	608.29	699.07
*Purchased from non-utilities & Adjoining States . . . . .	..	..	142.34	336.17	559.03	..
Used by power station auxiliaries . . . . .	..	..	59.24	38.25	66.88	69.80
†Sales—						
(i) To Adjoining State . . . . .	..	..	..	0.067	24.095	..
(ii) Within the State :						
Domestic light and small power	24.250	52.462	97.101	186.51	261.31	263.25
Commercial Light and small power	33.003	57.629	72.892	67.29	151.51	197.36
Industrial power	32.406	74.306	153.892	178.43	312.48	365.45
Public lighting	2.637	6.491	10.937	15.88	21.39	17.29
Railways/Tramways . . . . .	..	0.347	0.171	..	..	..
Agricultural	5.730	4.928	5.007	6.91	7.30	7.01
Public Water Works and Sewage Pumping;	21.420	31.592	43.185	55.05	77.60	83.15
Miscellaneous . . . . .	..	..	..	..	..	..
TOTAL (ii)	119.446	227.755	383.185	610.07	831.59	933.51

Notes.— Figures of installed capacity and generation for the year 1967-68 onwards have been shown according to the share of Delhi.

*Purchase includes, inter-alia, that portion of transfer from the supplies of jointly-owned projects, which may be over and above the share of the State from those Projects.

†Sales include, inter-alia, that portion of transfer from the supplies of jointly-owned projects, which may be below the share of the State from those Projects.

Installed Capacity (MW)—

Hydro . . . . .	..	..	..	..	2.85	3.82
Diesel . . . . .	..	..	..	..	2.15	1.71
TOTAL . . . . .	..	..	..	..	5.00	5.53

Energy Generation (Million kWh)

Hydro . . . . .	..	..	..	..	15.53	12.70
Diesel . . . . .	..	..	..	..	0.07	0.15
TOTAL . . . . .	..	..	..	..	15.60	12.85

Purchased from non-utilities and Adjoining States . . . . .	..	..	..	..	62.45	127.20
Used by power station auxiliaries . . . . .	..	..	..	..	0.70	0.36

Sales

(i) To adjoining States . . . . .	..	..	..	..	..	..
(ii) Within the State :						
Domestic light and small power . . . . .	..	..	..	..	18.63	20.87
Commercial light and small power . . . . .	..	..	..	..	14.19	13.42
Industrial power . . . . .	..	..	..	..	17.02	15.67
Public lighting . . . . .	..	..	..	..	1.24	1.23
Railways/Tramways . . . . .	..	..	..	..	0.53	0.64
Agricultural . . . . .	..	..	..	..	13.61	14.72
Public Water Works and Sewage Pumping . . . . .	..	..	..	..	..	..

<i>Installed Plant Capacity at the end of</i>						
(a) Hydro	100	168.0	342.7	757.8	1,056.1	1,066.9
(b) Steam (Including Nuclear)	100	154.0	242.6	439.8	661.1	693.7
(c) Gas Turbine & Diesel	100	140.0	201.7	326.7	275.6	215.4
ALL TYPES	100	157.4	271.8	527.2	756.6	768.5
<i>Energy Generated</i>						
(a) Hydro	100	150.1	274.0	532.4	724.6	805.9
(b) Steam (Including Nuclear)	100	184.4	314.2	625.1	947.2	1,030.4
(c) Gas Turbine & Diesel	100	106.2	167.5	178.6	144.5	139.5
ALL TYPES	100	164.9	289.1	563.1	809.7	887.5
Coal Consumption*	100	166.4	257.4	414.6	557.2	561.5
Diesel Oil consumption in Gas Turbine & Diesel Power Stations	100	104.3	153.1	233.1	80.6	52.5
Aggregate Maximum Demand	100	165.1	294.2	606.2	902.0	991.4
<i>Energy Sales</i>						
Domestic light and small power	100	157.2	251.2	396.4	536.0	586.7
Commercial light and small power†	100	165.4	256.9	500.0	713.7	707.1
Industrial power	100	174.0	317.0	617.1	846.4	927.7
Public lighting	100	173.2	285.8	413.6	550.4	617.8
Railways/Tramways	100	122.9	137.7	324.4	378.2	439.4
Agricultural	100	155.7	410.2	931.7	1,706.7	1,858.7
Public Water Works and Sewage Pumping	100	150.9	207.6	297.5	398.4	418.8
All Categories	100	166.1	288.9	557.8	779.2	856.7

TABLE 47

TABLE 47—LENGTH OF TRANSMISSION AND DISTRIBUTION

Sl. No.	State/Power Corporation	Distribution lines upto 500 V.	2.2/3.3 kV		5/6.6 kV	
			O.H.	U.G.	O.H.	U.G.
1	2	3	4	5	6	7
1	Andhra Pradesh	41,402	..	..	..	..
2	Assam †	1,350	34	2	..	..
3	Bihar	26,925	36	9	239	56
4	Gujarat	22,428	84	51	14	7
5	Haryana	25,686	..	3	..	..
6	Jammu & Kashmir	5,677	..	..	431	..
7	Kerala	19,080	116	..	4	11
8	Madhya Pradesh	16,161	36	..	35	..
9	Maharashtra	54,547	342	175	875	207
10	Mysore	65,973	..	..	3,780	9
11	Nagaland	161	..	..	..	..
12	Orissa	2,888	63	..	32	..
13	Punjab	24,869	..	..	..	..
14	Rajasthan	13,080	56	..	46	13
15	Tamil Nadu	128,392	110	..	213	62
16	Uttar Pradesh	31,111	187	269	313	455
17	West Bengal	9,504	71	35	367	1,719
18	Damodar Valley Corpn. . . . .	..	..	..	..	..
<i>Union Territories</i>						
	(a) Delhi	5,517	..	..	39	164
	(b) Andaman & Nicobar†	49	..	..	15	..
	(c) Chandigarh	DATA	NOT	AVAILABLE	..	..
	(d) Dadra & Nagar Haveli†	10	..	..	..	..
	(e) Goa, Daman & Diu	733	..	0.54	..	..
	(f) Himachal Pradesh	3,289	5	200	..	..
	(g) Laccadive, Minicoy and Amindive Islands†	49	..	..	..	..
	(h) Manipur	402	..	..	..	..
	(i) N.E.F.A.	DATA	NOT	AVAILABLE	..	..
	(j) Pondicherry	1,310	11	..	..	..
	(k) Tripura	284	..	..	..	..
	TOTAL	500,877	1,151	744.54	6,403	2,703

LINES OF UTILITIES AS ON 31-3-1970.

(Circuit Kilometres).

15/11 kV		22/20 kV		33 kV		44/37.5 kV	78/66 kV
O.H.	U.G.	O.H.	U.G.	O.H.	U.G.	O.H.	O.H.
8	9	10	11	12	13	14	15
29,236	..	..	..	5,914	..	..	2,894
1,055	80	..	..	951	..	..	273
21,279	38	..	..	5,713	..	..	..
16,840	625	5,059	..	2,994	..	..	3,117
16,210	..	..	..	1,733	..	..	621
2,179	..	..	..	202	..	..	187
7,173	35	160	..	..	..	..	1,621
14,715	18	..	..	8,558	..	..	518
28,360	785	6,462	501	5,425	..	..	2,044
34,066	210	11	..	2,025	..	..	2,631
52	..	..	..	..	..	..	..
3,138	3	..	..	3,433	..	..	601
16,418	2	..	..	1,933	..	..	557
9,704	2	..	..	5,349	..	..	412
29,755	393	13,116	..	2,851	..	..	3,154
57,916	365	64	32	7,298	52	5,320	2,482
7,775	161	..	60	2,104	447	..	532
..	..	..	..	366	..	..	..
1,327	632	..	..	169	58	..	..
..	..	DATA NOT AVAILABLE		..	..	..	..
26	..	..	..	..	..	..	..
506	..	..	..	284	..	..	..
2,075	..	754	..	425	..	..	..
..
349	..	..	..	64	..	..	..
..	..	DATA NOT AVAILABLE		..	..	..	..
50	..	300	..	..	..	..	..
448	..	..	..	..	..	..	..
300,672	3,349	25,926	593	57,791	557	5,320	21,644

TABLE 47 (Contd.)—LENGTH OF TRANSMISSION AND DISTRIBUTION LINES OF UTILITIES
AS ON 31-3-1970

Sl. No.	State/Power Corporation	110/90 kV	132 kV	220 kV	230 kV	Total
		O.H.	O.H.	O.H.	O.H.	
1	2	16	17	18	19	20
1	Andhra Pradesh	..	3,199	996	..	83,641
2	Assam †	..	278	..	..	4,023
3	Bihar	..	1,821	558	..	56,674
4	Gujarat	..	1,324	760	..	53,503
5	Haryana	..	619	..	..	44,872
6	Jammu & Kashmir	..	144	..	..	8,820
7	Kerala	1,161	..	316	..	29,677
8	Madhya Pradesh	..	3,097	1,161	..	44,299
9	Maharashtra	2,370	2,145	1,118	..	105,376
10	Mysore	2,779	..	1,558	..	113,042
11	Nagaland	..	..	..	..	213
12	Orissa	..	1,892(R)	147	..	12,197
13	Punjab	..	1,086	399	..	45,264
14	Rajasthan	..	1,913	259	..	30,834
15	Tamil Nadu	5,452	..	..	1,585	185,083
16	Uttar Pradesh	..	4,345	1,784	..	111,993
17	West Bengal	..	906	..	..	23,681
18	Damodar Valley Corporation	..	2,837	..	..	3,203
<i>Union Territories</i>						
	(a) Delhi	..	10	42	..	7,958
	(b) Andaman & Nicobar†	..	..	..	..	64
	(c) Chandigarh	..	DATA	NOT AVAILABLE	..	..
	(d) Dadra & Nagar Haveli†	..	..	..	..	36
	(e) Goa, Daman & Diu	68	..	..	..	1,591.54
	(f) Himachal Pradesh	..	..	..	..	6,748
	(g) Laccadive, Minicoy & Amindive Islands†	..	..	..	..	49
	(h) Manipur	..	..	..	..	815
	(i) N.E.F.A.	..	DATA	NOT AVAILABLE	..	..
	(j) Pondicherry	..	..	..	..	1,671
	(k) Tripura	..	..	..	..	732
	TOTAL	11,830	25,816	9,098	1,585	976,059.54

†Data for the last year repeated this year for Assam State Electricity Board, Andaman & Nicobar Islands, Dadra & Nagar Haveli and Laccadives, Minicoy and Amindive Islands due to non-receipt of data for 1969-70

TABLE 48—LENGTH OF TRANSMISSION LINE (33 kV AND ABOVE) COMMISSIONED DURING THE YEAR 1969-70

Sl. No.	Undertakings	Line Voltage	Length (Circuit km.)
1	2	3	4
1	<i>Andhra Pradesh</i> Andhra Pradesh State Electricity Board	220 kV 132 kV 33 kV	355 333 604
2	<i>Assam</i>	DATA NOT	AVAILABLE.
3	<i>Bihar</i> Bihar State Electricity Board	132 kV 33 kV	12 400
4	<i>Gujarat</i> Gujarat State Electricity Board	132 kV 66 kV 33 kV	547 349 152
5	<i>Haryana</i> Haryana State Electricity Board	132 kV 66 kV 33 kV	261 101 237
6	<i>J. & K.</i>	DATA NOT	AVAILABLE
7	<i>Kerala</i> Kerala State Electricity Board	66 kV	20.00
8	<i>Madhya Pradesh</i> Madhya Pradesh State Electricity Board	132 kV 33 kV	223.00 943.85
9	<i>Maharashtra</i> Maharashtra State Electricity Board Tata Hydro Electric Power Supply Co.	33 kV 66 kV 100 kV 110 kV 132 kV 220 kV 100 kV 110 kV	206.00 265.00 64.00 95.00 561.00 300.00 9.8 20.8
10	<i>Mysore</i> Mysore State Electricity Board	220 kV 110 kV 66 kV 33 kV	455.00 455.00 24.00 271.2
11	<i>Orissa</i> Orissa State Electricity Board	33 kV	210.00

TABLE 48 (Contd.)—LENGTH OF TRANSMISSION LINE (33 kV AND ABOVE) COMMISSIONED DURING THE YEAR 1969-70

Sl. No.	Undertakings	Line Voltage	Length (Circuit km.)
1	2	3	4
12	<i>Punjab</i> Punjab State Electricity Board	132 kV 66 kV 33 kV	3.0 81.00 230.00
13	<i>Rajasthan</i> Rajasthan State Electricity Board	DATA NOT	AVAILABLE
14	<i>Tamil Nadu</i>	NIL	
15	<i>Uttar Pradesh</i> Uttar Pradesh State Electricity Board	132 kV 66 kV 44/37.5 kV 33 kV	265 39 U.G. 1729 O.H. 1231
16	<i>West Bengal</i> West Bengal State Electricity Board Calcutta Electric Supply Co.	33 kV 33 kV	182.8 4.8
17	<i>Delhi</i> Delhi Electric Supply Undertaking	220 kV 132 kV	O.H. 42.00 O.H. 10.00

TABLE 49—TOTAL INSTALLED TRANSFORMERS CAPACITY (MAX. CONT. RATING) UTILITIES
AS ON 31-8-1970

Sl. No.	State/Power Corporation	Step-up Transformers		Step-down Transformers	
		No.	Aggregate Capacity (MVA)	No.	Aggregate Capacity (MVA)
1	2	3	4	5	6
1	Andhra Pradesh	48	899.20	563	2,692.18
2	Assam	3	1.45	5	3.80
3	Bihar	49	394.18	318	1,119.20
4	Gujarat	84	684.72	334	2,226.95
5	Haryana	3	7.00	150	625.90
6	Jammu & Kashmir	29	80.00	16	22.50
7	Kerala	49	715.38	122	802.25
8	Madhya Pradesh	60	849.00	315	1,666.66
9	Maharashtra	132	2,192.93	685	5,214.17
10	Mysore	66	956.75	301	1,733.30
11	Nagaland	2	0.30	3	0.75
12	Orissa	21	637.23	197	970.00
13	Punjab	26	1,328.50	195	1,573.00
14	Rajasthan	57	37.09	274	573.66
15	Tamil Nadu	100	2,459.50	635	4,084.10
16	Uttar Pradesh	149	1,626.59	783	4,106.70
17	West Bengal	87	420.51	351	2,004.03
18	D.V.C.	17	1,390.00	75	1,731.50
	<i>Union Territories</i>				
	(a) Delhi . . . . .	..	..	38	328.00
	(b) Andaman & Nicobar	3	0.75	..	..
	(c) Chandigarh . . . . .	..	..	..	..
	(d) Dadra & Nagar Haveli . . . . .	..	..	..	..
	(e) Goa, Daman & Diu (R)	DATA	NOT AVAILABLE	..	..
	(f) Himachal Pradesh (R)	2	0.21	8	17.76
	(g) Laccadive, Minicoy & Amindive Islands	27	6.29	14	16.00
	(h) Manipur	1	0.05	..	..
	(i) N.E.F.A.	11	4,331	14	71.20
	(j) Pondicherry	DATA	NOT AVAILABLE	..	..
	(k) Tripura	11	2.90	..	..
	ALL INDIA TOTAL	1,037	14,695.86	5,396	31,583.60

TABLE 49 (Contd.)—TOTAL INSTALLED TRANSFORMERS CAPACITY (MAX CONT RATING) UTILITIES AS ON 31-3-1970

Sl. No.	State/Power Corporation	Distribution Transformers		Total	
		No.	Aggregate Capacity (MVA)	No.	Aggregate Capacity (MVA)
1	2	7	8	9	10
1	Andhra Pradesh	16,011	709.30	16,622	4,300.68
2	Assam	62	9.25	70	14.50
3	Bihar	11,237	719.55	11,604	2,232.93
4	Gujarat	12,508	1,048.82	12,926	3,960.49
5	Haryana	11,760	732.62	11,913	1,365.52
6	Jammu & Kashmir	721	75.32	766	177.82
7	Kerala	5,690	426.19	5,861	1,943.82
8	Madhya Pradesh	6,608	533.99	6,983	3,050.65
9	Maharashtra	17,969	2,394.21	18,786	9,801.31
10	Mysore	16,106	1,012.77	16,473	3,702.82
11	Nagaland	24	2.60	29	3.65
12	Orissa	1,623	178.21	1,841	1,785.44
13	Punjab	13,224	895.56	13,445	3,797.06
14	Rajasthan	4,452	384.24	4,783	994.99
15	Tamil Nadu	26,591	2,091.78	27,326	8,635.38
16	Uttar Pradesh	57,130	1,963.76	58,062	7,697.05
17	West Bengal	3,495	401.39	3,933	2,825.93
18	D.V.C. . . . .	..	..	92	3,121.50
	<i>Union Territories</i>				
	(a) Delhi	1,743	556.78	1,781	884.78
	(b) Andaman & Nicobar	14	1.00	17	1.75
	(c) Chandigarh . . . . .	..	..	..	..
	(d) Dadra & Nagar Haveli . . . . .	..	..	..	..
	(e) Goa, Daman & Diu	123	8.72	133	26.69
	(f) Himachal Pradesh	571	30.66	612	52.95
	(g) Laccadive, Minicoy & Amindive Islands	1	0.025	2	0.30
	(h) Manipur	205	12.23	230	87.76
	(i) N.E.F.A. . . . .	..	..	..	..
	(j) Pondicherry	328	33.28	328	33.28
	(k) Tripura	94	6.08	105	8.98
	TOTAL ALL INDIA	2,08,290	14,228.56	214,723	60,508.02

TABLE 50—IMPORTANT TRANSFORMERS COMMISSIONED DURING THE YEAR 1969-70

Sl. No.	State/Power Corporation	Voltage Ratio (k V)	Unit Capacity (k V A)	No.	Aggregate Capacity (k V A)	Remarks
1	2	3	4	5	6	7
1	<i>Andhra Pradesh</i>					
	Andhra Pradesh State Electricity Board	220/132	33,333	3	100,000	
		$\sqrt{3}$ 220/132/11	33,339	3	100,000	
		$\sqrt{3}$ 220/33	25,000	1	25,000	
		132/33	31,500	1	31,500	
		132/66	20,000	1	20,000	
		132/33/11	22,500	2	45,000	
		132/33/11	15,000	3	45,000	
2						
3						
	Andhra Pradesh State Electricity Board	11/33/132	70,000	1	70,000	
4	<i>Gujarat</i>					
	Gujarat State Electricity Board	220/132	100,000	2	200,000	
		220/69.3	50,000	2	100,000	
		132/33	12,500	1	12,500	
		132/11	40,000	1	40,000	
		132/66	20,000	2	40,000	
		66/33	10,000	2	20,000	
		66/11	10,000	2	20,000	
		66/33/11	10,000	1	10,000	
5	<i>Haryana</i>					
	Haryana State Electricity Board	132/66	20,000	1	20,000	
		132/11	12,500	1	12,500	
		66/11	10,000	1	10,000	
		33/11	12,500	1	12,500	
6	<i>J. & K</i>					
						DATA NOT AVAILABLE
7	<i>Kerala</i>					
						NIL
8	<i>Madhya Pradesh</i>					
	M. P. State Electricity Board	13.8/230	45,000		45,000	
		132/33	N. A.		55,000	
		220/132	125,000		125,000	
9	<i>Maharashtra</i>					
	Maharashtra State Electricity Board	132/220	50,000		100,000	
		220/110/11	125,000	3	375,000	
		220/33/11	10,000	1	10,000	
		220/22	25,000	1	25,000	
		132/66	10,000	3	30,000	
		132/33/11	10,000	1	10,000	
		132/33	10,000	2	20,000	
		132/25	12,500	2	25,000	
		132/22	25,000	1	25,000	
		132/11	10,000	1	10,000	
		110/33	12,000	3	36,000	
		110/22	25,000	1	25,000	
		100/22	10,000	1	10,000	
		66/33	10,000	1	10,000	
		66/11	10,000	1	10,000	

TABLE 50 (Contd.)—IMPORTANT TRANSFORMERS COMMISSIONED DURING THE YEAR 1969-70

Sl. No.	State/Power Corporation	Voltage Ratio (K V)	Unit Capacity (k V A)	No.	Aggregate Capacity (k V A)	Remarks
1	2	3	4	5	6	7
10	<i>Mysore</i>					
	Mysore State Electricity Board	110/132/11 110/33/11	10,000 10,000	1 6	10,000 60,000	
11	<i>Orissa</i>					
	Orissa State Electricity Board	132/33/11 132/11 132/33 132/66 132/25	12,500 12,500 12,500 12,500 10,000	2 2 2 2 2	25,000 25,000 25,000 25,000 20,000	
12	<i>Punjab</i>					1,36'
	Punjab State Electricity Board	220/66 132/33 132/33/11 132/33/11 132/11 122/66 126/33 120/11 66/33 33/11 33/11 33/11 33/11	10,000 12,500 12,500 10,000 12,000 10,000 12,000 14,000 10,000 20,000 10,000 12,500 12,000	2 2 1 3 1 1 2 2 1 2 2 3 1	20,000 25,000 12,500 30,000 12,000 10,000 24,000 28,000 10,000 40,000 20,000 37,500 12,000	1
13	<i>Rajasthan</i>					
						DATA NOT AVAILABLE
14	<i>Tamil Nadu</i>					
	Tamil Nadu State Electricity Board	230/110 110/66 110/33 110/33 110/22 110/11 66/33	50,000 12,000 25,000 10,000 25,000 10,000 10,000	1 1 2 1 2 2 2	50,000 12,000 50,000 10,000 50,000 20,000 20,000	
15	<i>Uttar Pradesh</i>					
	Uttar Pradesh State Electricity Board	10.5/220 11/132 11/132 220/132 132/66 132/37.5 132/33 132/33 132/11 66/11 33/11	63,000 20,000 12,500 100,000 20,000 20,000 20,000 12,500 12,500 12,500 10,000	1 1 1 2 1 2 5 8 2 1 1	63,000 20,000 12,500 200,000 20,000 40,000 100,000 100,000 25,000 12,500 10,000	
16	<i>West Bengal</i>					
	West Bengal State Electricity Board	132/33	N. A.	3	67,500	
	Calcutta Electric Supply Co. Ltd.	33/6 k V 33/6 k V	15,000 16,000	2 3	30,000 48,000	

TABLE 50 (Concl'd.)—IMPORTANT TRANSFORMERS COMMISSIONED DURING THE YEAR 1969-70

Sl. No.	State/Power Corporation	Voltage Ratio (kV)	Unit Capacity (kVA)	No.	Aggregate Capacity (kVA)	Remarks
1	2	3	4	5	6	7
17	<i>Damodar Valley Corporation</i>	132/33 132/33 138/25 132/25 132/11	20,000 10,000 10,000 12,500 10,000 20,000	1 7 2 7 9 2	20,000 70,000 20,000 87,500 90,000 40,000	
18	<i>Delhi</i> Delhi Electric Supply Undertaking	33/11 11/6.6	10,000 15,000	2 1	20,000 15,000	

TABLE 51—CLASSIFICATION OF

(Figures indicate Numbers of consumers in

Sl. No.	State/Power Corporation	Domestic Light & Small Power		Commercial Light & Small Power	
		A. C.	D. C.	A. C.	D. C.
1	2	3	4	5	6
1	Andhra Pradesh	600,276	..	185,778	..
2	Assam	61,706	2,239	4,442	1,095
3	Bihar	254,616	573	129,393	218
4	Gujarat	829,070	443	139,616	193
5	Haryana	316,460	1,746	73,947	971
6	Jammu & Kashmir	139,588	..	23,543	..
7	Kerala	371,067	..	124,421	..
8	Madhya Pradesh	368,298	..	69,024	..
9	Maharashtra	1,315,225	34	321,583	25
10	Mysore	738,539	..	84,920	..
11	Nagaland	5,200*	..	..	..
12	Orissa	86,874	..	42,108	..
13	Punjab	667,475	6,900	155,508	11,389
14	Rajasthan	230,504	..	76,773	..
15	Tamil Nadu	1,114,258	..	289,726	..
16	Uttar Pradesh	637,174	45,717	178,093	19,984
17	West Bengal	465,643	287,632	72,633	1,710
18	Damodar Valley Corpn. . . . .	..	..	4	..
	<i>Union Territories</i>				
	(a) Delhi	444,875	500	73,614	2,083
	(b) Andaman & Nicobar† Island	3,095	..	61	..
	(c) Chandigarh . . . . .	..	DATA NOT AVAILABLE	..	..
	(d) Dadra & Nagar Haveli	569	..	..	..
	(e) Goa, Daman & Diu†	13,759	..	5,994	..
	(f) Himachal Pradesh	88,504	..	21,599	..
	(g) Laccadive, Minicoy and Amindive Islands	1,009	..	148	..
	(h) Manipur	7,669	..	64	..
	(i) N. E. F. A.	730	..	..	..
	(j) Pondicherry	13,912	..	4,114	..
	(k) Tripura	6,186	..	405	..
	TOTAL	8,782,222	345,784	2,077,511	37,668

*Commercial figures included.

†Figures for the State Electricity Board have been repeated.

CONSUMERS OF UTILITIES AS ON 31-3-1970

(different categories)

Industrial Low & Medium Voltage		Industrial Power High Voltage		Public Lighting	
A. C.	D. C.	A. C.	D. C.	A. C.	D. C.
	8	9	10	11	12
19,685	..	572	..	6,636	..
559	37	985	..	162	1
24,173	23	663	..	4,876	..
40,381	12	541	..	2,452	1
14,346	27	282	..	262	4
3,149	..	..	..	4	..
16,772	..	526	..	931	..
24,961	..	541	..	1,385	..
61,334	8	1,482	..	4,637	1
37,308	..	404	..	5,040	..
135	..	..	..	..	..
4,639	..	94	..	695	..
29,862	335	356	..	288	10
10,305	..	94	..	921	..
72,562	..	982	..	20,970	..
56,983	1,416	1,031	..	3,085	12
29,102	13,371	1,718	..	308	10
..	..	11	..	..	..
15,333	101	251	..	934	46
39	..	..	..	5	..
85	..	DATA NOT AVAILABLE		3	..
630	..	22	..	56	..
1,338	..	25	..	144	..
11	..	..	..	8	..
127	..	..	..	3	..
..	..	..	..	1	..
628	..	13	..	8	..
268	..	..	..	12	..
473,005	15,330	10,406	..	53,827	85

TABLE 51 (Contd.)—CLASSIFICATION OF CONSUMERS OF

(Figures indicate Number of consumers in

Sl. No.	State/Power Corporation	Railways/Tramways		Agricultural		Public Water Works & Sewage Pumping	
		A. C.	D. C.	A.C.	D.C.	A.C.	D.C.
1	2	13	14	15	16	17	18
1	Andhra Pradesh . . . . .	..	..	156,512	..	293	..
2	Assam . . . . .	..	..	62	..	32	..
3	Bihar . . . . .	..	..	57,207	..	415	2
4	Gujarat	15	..	55,489	..	2,345	..
5	Haryana . . . . .	..	..	68,239**	..	5	..
6	Jammu & Kashmir . . . . .	..	..	152	..	150	..
7	Kerala . . . . .	..	..	17,641	..	406	..
8	Madhya Pradesh . . . . .	..	..	37,156	..	487	..
9	Maharashtra	3	..	165,074	..	1,066	..
10	Mysore . . . . .	..	..	110,501	..	872	..
11	Nagaland . . . . .	..	..	1	..	12	..
12	Orissa	3	..	320	..	147	..
13	Punjab . . . . .	..	..	79,761**	..	40	..
14	Rajasthan . . . . .	..	..	19,194	..	848	..
15	Tamil Nadu	6	..	470,264	..	1,645	..
16	Uttar Pradesh	7	..	94,177	2	575	4
17	West Bengal	12	..	1,369	..	157	..
18	Damodar Valley Corpn.	7	..	..	..	..	..
19	<i>Union Territories</i>						
	(a) Delhi . . . . .	..	..	208	..	57	..
	(b) Andaman & Nicobar . . . . .	..	..	..	..	6	..
	(c) Chandigarh . . . . .	..	..	..	..	..	..
	(d) Dadra & Nagar Haveli . . . . .	..	..	19	..	..	..
	(e) Goa & Daman Diu, . . . . .	..	..	61	..	9	..
	(f) Himachal Pradesh . . . . .	..	..	164	..	4	..
	(g) Laccadive, Minicoy and Amindive Islands . . . . .	..	..	..	..	..	..
	(h) Manipur . . . . .	..	..	..	..	5	..
	(i) N. E. F. A. . . . .	..	..	..	..	..	..
	(j) Pondicherry . . . . .	..	..	4,512	..	110	..
	(k) Tripura . . . . .	..	..	2	..	2	..
	TOTAL	53	..	1,338,085	2	9,688	6

**Public Water Works & Sewage Pumping is included in Agricultural Category in case of Haryana State Electricity Board & Punjab State Electricity Board.

UTILITIES AS ON 31-3-1970

different categories)

Miscellaneous		TOTAL		GRAND TOTAL
A. C.	D. C.	A. C.	D. C.	
19	20	21	22	23
11	..	969,763	..	969,763
156	52	68,104	3,424	71,528
..	..	472,043	816	472,859
703	..	1,073,612	649	1,079,261
..	..	473,541	2,748	476,289
..	..	115,586	..	166,586
..	..	531,764	..	531,764
..	..	501,595	..	501,595
7,558	..	1,877,972	68	1,878,040
..	..	977,584	..	977,584
3	..	5,175	..	5,175
..	..	134,880	..	134,880
..	..	933,290	18,634	951,924
145	..	338,784	..	338,784
9,698	..	1,980,111	..	1,980,111
818	64	971,943	67,199	1,039,142
249	..	571,191	302,723	873,914
..	..	22	..	22
..	..	535,272	2,730	537,002
..	..	3,206	..	3,206
..
..	..	626	..	626
2	..	20,531	..	20,531
..	..	111,780	..	111,780
..	..	1,176	..	1,176
..	..	7,808	..	7,808
..	..	731	..	731
..	..	23,298	..	23,298
..	..	6,875	..	6,875
19,343	116	12,714,263	398,991	13,163,234

TABLE 52—CLASSIFICATION OF CONNECTED LOAD

Sl. No.	State/Corporation	Domestic light and small power		Commercial light and small power	
		A.C.	D.C.	A.C.	D.C.
1	2	3	4	5	6
1	Andhra Pradesh	299.06	..	179.53	..
2	Assam	38.29	1.62	14.76	0.99
3	Bihar	123.02	0.29	214.64	0.02
4	Gujarat	286.50	0.06	684.00	0.02
5	Haryana	84.80	0.87	32.06	0.73
6	Jammu & Kashmir	28.81	..	6.62	..
7	Kerala	221.16	..	85.68	..
8	Madhya Pradesh	209.15	..	64.11	..
9	Maharashtra	1,006.38	Neg.	339.20	Neg.
10	Mysore	296.95	..	57.25	..
11	Nagaland*	3.93*	..	..	..
12	Orissa	61.16	..	38.47	..
13	Punjab	229.10	5.71	85.02	3.94
14	Rajasthan†	133.75	0.03	52.00	0.04
15	Tamil Nadu	603.17	..	214.47	..
16	Uttar Pradesh	399.50	28.42	91.16	15.22
17	West Bengal	455.63	7.87	312.46	81.64
18	Damodar Valley Corpn.				
	<i>Union Territories</i>				
	(a) Delhi	257.20	0.60	60.12	4.67
	(b) Andaman & Nicobar	1.07	..	0.12	..
	(c) Chandigarh	DATA	NOT	AVAILABLE	..
	(d) Dadra & Nagar Haveli	0.22	..	..	..
	(e) Goa, Daman & Diu†	9.09	..	4.78	..
	(f) Himachal Pradesh‡	58.77	..	7.23	..
	(g) Laccadive Minicoy & Amindive Islands	0.45	..	0.11	..
	(h) Manipur	4.56	..	3.84	..
	(i) N.E.F.A.	1.10	..	..	..
	(j) Pondicherry	8.35	..	2.47	..
	(k) Tripura	5.90	..	0.45	..
	TOTAL	4,793.17	45.47	2,550.55	107.27

*Commercial load included.

†Rajasthan State Electricity Board and Goa, Daman & Diu figures of the last year have been repeated.

‡Data for Himachal Pradesh, M.P.P. & Power for 1969-70 not received, hence data for 1967-68 repeated.

(UTILITIES) AS ON 31-3-1970 (MW)

Industrial power lower and medium voltage		Industrial Power H. V.	
A.C.	D.C.	A.C.	D.C.
7	8	9	10
210.37	..	363.36	..
44.14	0.39	31.50	..
250.59	0.11	353.26	..
352.07	0.05	474.87	..
160.84	0.14	128.34	..
35.13	..	..	..
166.91	..	253.9	..
184.65	..	283.84	..
634.09	0.48	1,366.15	..
206.26	..	330.47	..
0.67	..	..	..
42.79	..	235.64	..
297.40	1.66	123.40	..
84.12	..	99.50	..
484.24	..	624.05	..
461.89	9.67	549.94	..
198.55	59.64	842.98	..
96.80	1.03	73.10	..
0.86	..	..	..
DATA	NOT	AVAILABLE	..
0.15	..	..	..
5.73	..	8.90	..
3.76	..	0.41	..
0.14	..	..	..
0.72	..	..	..
..
9.42	..	90.46	..
1.88	..	..	..
3,943.17	73.17	6,234.07	..

TABLE 52 (Contd.)—CLASSIFICATION OF

Sl. No.	State/Corporation	Public lighting		Traction	
		A.C.	D.C.	A.C.	D.C.
1	2	11	12	13	14
1	Andhra Pradesh	12.61	..	..	..
2	Assam	1.63	0.06	..	..
3	Bihar	3.21	..	..	..
4	Gujarat	20.09	0.01	1.75	..
5	Haryana	1.41	0.03	..	..
6	Jammu & Kashmir	0.52	..	..	..
7	Kerala	10.27	..	..	..
8	Madhya Pradesh	8.13	..	..	..
9	Maharashtra	22.91	1.41	19.52	..
10	Mysore	13.31	..	..	..
11	Nagaland	0.08	..	..	..
12	Orissa	2.42	..	15.30	..
13	Punjab	2.60	0.18	..	..
14	Rajasthan	5.06	..	..	..
15	Tamil Nadu	26.72	..	31.87	..
16	Uttar Pradesh	7.78	0.60	64.18	..
17	West Bengal	6.73	3.99	94.31	..
18	Damodar Valley Corpn.				
	<i>Union Territories</i>				
	(a) Delhi	4.20	0.13	..	..
	(b) Andaman & Nicobar	0.02	..	..	..
	(c) Chandigarh	DATA	NOT	AVAILABLE	..
	(d) Dadra & Nagar Haveli	0.03	..	..	..
	(e) Goa, Daman & Diu	0.03	..	..	..
	(f) Himachal Pradesh	0.51	..	..	..
	(g) Laccadive, Minicoy Amindive Islands	0.02	..	..	..
	(h) Manipur	0.04	..	..	..
	(i) N.E.F.A.	0.10	..	..	..
	(j) Pondicherry	0.38	..	..	..
	(k) Tripura	0.39	..	..	..
	TOTAL	155.20	6.41	226.93	..

CONNECTED LOAD (UTILITIES) AS ON 31-3-1970 (Mw)

Agricultural		Public Water Works and Sewage Pumping	
A.C.	D.C.	A.C.	D.C.
15	16	17	18
683.65	..	12.18	..
1.12	..	2.50	Neg.
177.32	..	10.66	0.06
304.88	..	38.39	..
318.77	..	0.02	..
1.05	..	0.90	..
73.40	..	6.26	..
90.10	..	19.74	..
542.42	..	40.83	..
369.34	..	19.35	..
Neg.	..	0.15	..
3.37	..	5.80	..
353.65	..	0.55	0.15
89.13	..	26.30	..
1,592.60	..	13.51	..
718.82	0.01	21.68	0.21
19.33	..	29.89	..
2.91	..	24.12	..
..	..	0.12	..
DATA	NOT	AVAILABLE	..
Neg.	..	0.83	..
0.22	..	3.72	..
0.15
..	..	0.04	..
..
16.92	..	0.18	..
0.02	..	0.21	..
5,359.17	0.01	277.93	0.42

TABLE 52 *Contd.*—CLASSIFICATION OF CONNECTED LOAD (UTILITIES) AS ON 31-3-1970 (MW)

Sl. No.	State/Corporation	Miscellaneous		Total		Grand Total
		A.C.	D.C.	A.C.	D.C.	
1	2	19	20	21	22	23
1	Andhra Pradesh	10·08	..	1,770·84	..	1,770·84
2	Assam	19·18	..	153·12	3·06	156·18
3	Bihar . . . . .	..	..	1,132·70	0·48	1,133·18
4	Gujarat	7·19	..	2,169·74	0·14	2,169·88
5	Haryana	0·04	..	735·23	1·77	737·05
6	Jammu & Kashmir . . . . .	..	..	72·83	..	72·83
7	Kerala . . . . .	..	..	817·88	..	817·88
8	Madhya Pradesh . . . . .	..	..	859·72	..	859·72
9	Maharash'tra	66·48	..	4,037·98	1·89	4,039·87
10	Mysore . . . . .	..	..	1,294·93	..	1,294·93
11	Nagaland	Neg.	..	4·83	..	4·83
12	Orissa . . . . .	..	..	404·95	..	404·95
13	Punjab . . . . .	..	..	1,091·72	11·64	1,103·36
14	Rajasthan	0·05	..	489·91	0·07	489·96
15	Tamil Nadu	67·40	..	3,658·03	..	3,658·03
16	Uttar Pradesh	0·18	0·02	2,315·13	54·15	2,369·28
17	West Bengal	292·86	..	2,252·74	153·14	2,405·88
18	Damodar Valley Corpn.					
	<i>Union Territories</i>					
	(a) Delhi . . . . .	..	..	518·45	6·43	524·88
	(b) Andaman & Nicobar . . . . .	..	..	2·19	..	2·19
	(c) Chandigarh	DATA	NOT	AVAILABLE	..	..
	(d) Dadra & Nagar Haveli . . . . .	..	..	0·40	..	0·40
	(e) Goa, Daman & Diu . . . . .	..	..	29·58	..	29·58
	(f) Himachal Pradesh . . . . .	..	..	44·55	..	44·55
	(g) Laccadive, Minicoy & Amindive Islands . . . . .	..	..	0·72	..	0·72
	(h) Manipur . . . . .	..	..	9·20	..	9·20
	(i) N.E.F.A. . . . .	..	..	1·20	..	1·20
	(j) Pondicherry . . . . .	..	..	128·18	..	128·18
	(k) Tripura . . . . .	..	..	8·85	..	8·85
	TOTAL	463·46	0·02	24,005·65	232·77	24,238·42

TABLE 53— NUMBER OF TOWNS ELECTRIFIED IN THE VARIOUS POPULATION GROUPS (1961 CENSUS)
AS ON 31-3-1970

State /Union Territories	Total No. of towns	POPULATION GROUPS						Total No. of towns electri- fied as on 31-3-70
		0— 4999	5000— 9999	10000— 19999	20000— 49999 ^a	50000— 100000	Over 100000	
1	2	3	4	5	6	7	8	9
Andhra Pradesh	223	7	72	73	51	9	11	223
Assam	60	11	22	11	10	2	1	57
Bihar	153	8	46	52	33	7	7	153
Gujarat	181	8	60	54	43	9	6	180
Haryana	61	12	15	15	11	7	1	61
Himachal Pradesh	30	18	7	4	1	..	..	30
Jammu & Kashmir	43	30	6	4	1	..	2	43
Kerala	92	1	18	33	31	5	4	92
Madhya Pradesh	219	17	98	57	35	6	6	219
Maharashtra	266	15	87	89	47	15	12	265
Myore	231	37	64	81	34	9	6	231
Nagaland	3	..	3	..	..	..	..	3
Orissa	62	3	25	22	8	3	1	62
Punjab	109	20	35	23	23	4	4	109
Rajasthan	145	8	51	52	23	4	6	144
Tamil Nadu	339	36	95	119	61	19	9	339
Uttar Pradesh	267	16	68	81	56	18	17	266
West Bengal	184	12	48	44	46	19	12	181
TOTAL (STATES)	2,668	259	836	814	514	136	105	2,658
<i>Union Territories</i>								
A & N Islands	1	..	..	1	..	..	..	1
Chandigarh	2	..	1	..	..	1	..	2
D & N Haveli	Nil	..	..	..	..	..	..	Nil
Delhi	3	..	..	1	1	..	2	3
Goa, Daman & Diu	13	7	3	1	1	..	..	12
L.M.A. Islands	Nil	..	..	..	..	..	..	Nil
Manipur	1	..	..	..	..	1	..	1
N.E.F.A.	Nil	..	..	..	..	..	..	Nil
Pondicherry	5	..	2	1	2	..	..	5
Tripura	6	..	4	1	..	1	..	6
TOTAL (U.T.s)	31	7	10	4	4	3	2	30
TOTAL (ALL INDIA)	2,699	266	840	818	518	139	107	2,688

TABLE 54— VILLAGES ELECTRIFIED IN DIFFERENT POPULATION GROUPS (1961 CENSUS)
AS ON 31-3-1970

States/Union Territories	Total No. of villages	POPULATION GROUPS						Total No. of villages electrified as on 31-3-70	Percentage
		0—499	500—999	1000—1999	2000—4999	5000—9999	10000 above		
1	2	3	4	5	6	7	8	9	10
Andhra Pradesh	27,084	597	1,300	2,336	2,427	396	28	7,084	26.2
Assam	25,702	183	146	146	94	6	..	575	2.2
Bihar	67,665	2,663	1,09	1,541	1,057	162	15	7,147	10.6
Gujarat	18,584	341	715	1,180	1,005	138	7	3,386	18.2
Haryana	6,669	970	957	858	513	67	2	3,367	50.4
Himachal Pradesh	13,060	3,000	310	260	9	..	..	3,579	27.4
Jammu & Kashmir	6,559	280	186	130	30	1	..	629	9.6
Kerala	1,573	3	11	22	253	393	482	1,164	73.9
Madhya Pradesh	70,414	1,849	1,360	931	625	28	..	4,793	6.8
Maharashtra	35,851	2,723	2,812	2,621	1,599	276	27	10,058	28.1
Mysore	26,377	2,724	2,161	1,728	915	143	..	7,671	29.1
Nagaland	814	22	10	10	8	..	..	50	6.1
Orissa	46,466	300	180	259	195	16	..	950	2.0
Punjab	11,947	1,800	1,700	1,460	505	43	1	5,509*	46.1
Rajasthan	32,241	840	570	651	410	90	..	2,561	7.9
Tamil Nadu	14,124	1,061	2,160	3,596	2,923	436	96	10,272	72.7
Uttar Pradesh	1,12,624	6,000	4,600	3,800	2,658	508	23	17,389	15.4
West Bengal	38,454	540	640	750	561	119	11	2,021	6.8
TOTAL (STATES)	5,56,208	25,896	21,529	22,279	15,787	2,622	692	88,805	16.0
<i>Union Territories</i>									
A & N Islands	399	26	1	2	..	..	..	29	7.3
Chandigarh	31	6	10	3	1	..	..	20	64.5
D & N Haveli	72	..	..	3	3	..	..	6	8.3
Delhi	276	76	99	59	42	..	..	276	100.0
Goa, Daman & Diu	245	4	13	27	43	10	1	98	40.0
L.M. & A. Islands	10	..	..	1	6	..	..	7	70.0
Manipur	1,866	15	22	47	34	1	..	119	6.4
N.E.F.A.	2,451	30	6	5	5	..	..	46	1.9
Pondicherry	388	158	80	61	17	5	..	321	82.7
Tripura	4,932	11	15	17	10	..	..	53	1.1
TOTAL (U. T.)	10,670	326	246	225	161	16	1	975	9.0
TOTAL (ALL INDIA)	566,878	26,222	21,775	22,504	15,948	2,638	693	89,780	15.8

*As per 1951 Census.

TABLE 55—ELECTRICITY PRODUCTION & CONSUMPTION IN SELECTED INDUSTRIES FOR THE YEAR 1969-70

Sl. No.	Industry	Total number of Factories covered	Installed Generating Plant Capacity as on 31-3-70 (kW)
1	2	3	4
1	Aluminium (Primary)	7	22,450
2	Aluminium (Secondary)	11	630
3	Cement (Primary)	29	114,599
4	Cement (Secondary)	30	985
5	Chemicals	76	99,281
6	Colleries	145	66,953
7	Copper (Primary)	1	7,975
8	Copper (Secondary)	2	..
9	Cotton Textiles	315	112,159
10	Engineering	64	13,404
11	Ferrow-Manganese	11	32
12	Fertilisers	15	84,307
13	Gold	1	6,700
14	Iron and Steel (Primary)	7	368,272
15	Iron and Steel (Secondary)	20	835
16	Jute	70	31,799
17	Mines	10	5,217
18	Oil and Petroleum	9	81,179
19	Paper	28	85,762
20	Silk	24	61,264
21	Soap	10	1,078
22	Sugar	140	195,298
23	Tanneries	7	862
24	Wool	11	3,398
25	Miscellaneous	25	7,853
	TOTAL	1,068	1,372,292

TABLE 55 *Contd.*—ELECTRICITY PRODUCTION & CONSUMPTION IN SELECTED INDUSTRIES FOR THE YEAR 1969-70

Sl. No.	Industry	Aggregate Maximum Demand kVA		Energy (Million kWh)	
		Generation in own power Stations	Purchased from public Utility Undertakings	Generated in own power Stations (Gross)	Purchased from public Utility Undertakings
1	2	5	6	7	8
1	Aluminium (Primary)	17,928	404,674	80.025	2,580.621
2	Aluminium (Secondary)	210	12,273	0.009	58.354
3	Cement (Primary)	87,573	163,312	440.224	840.756
4	Cement (Secondary)	188	14,118	0.001	35.026
5	Chemicals	66,744	223,968	403.444	1,169.082
6	Collieries	44,395	153,416	158.694	474.567
7	Copper (Primary)	3,375	10,775	8.773	49.950
8	Copper (Secondary) . . . . .	..	3,184	..	9.581
9	Cotton Textile	52,793	650,502	206.847	2,921.561
10	Engineering	7,968	183,189	7.916	561.789
11	Ferro-Manganese	290	94,600	0.007	502.205
12	Fertilizers	75,576	415,020	457.967	2,565.041
13	Gold	N.A.	19,800	0.081	102.388
14	Iron and Steel (P)	291,875	413,193	1,352.689	2,067.100
15	Iron and Steel (S) . . . . .	..	117,688	..	349.724
16	Jute	17,515	141,549	64.044	616.824
17	Mines	2,282	12,518	1.253	52.648
18	Oil & Petroleum	69,653	39,046	332.944	141.998
19	Paper	73,374	106,316	392.217	523.750
20	Silk	42,098	86,298	249.441	505.370
21	Soap	120	8,974	0.004	36.010
22	Sugar	160,259	46,154	353.254	77.784
23	Tanneries	347	5,926	0.213	20.713
24	Wool	1,933	13,668	3.650	53.645
25	Miscellaneous	3,603	35,163	4.358	101.785
	TOTAL	1,020,099	33,75,324	4518.055	16,418.272

TABLE 55(Contd.)—ELECTRICITY PRODUCTION & CONSUMPTION IN SELECTED INDUSTRIES FOR THE YEAR 1969-70

Sl. No.	Industry	Used in Industry	Energy sold to (M. kWh)		Annual Load Factor	Remarks
			Public Utility Undertakings	Non Utility Undertakings		
1	2	9	10	11	12	13
1	Aluminium (Primary)	2,654·278	..	..	89·62	
2	Aluminium (Secondary)	58·363	..	..	66·72	
3	Cement (Primary)	1,242·729	..	0·252	70·68	
4	Cement (Secondary)	35·010	..	..	34·92	
5	Chemicals	1,530·424	..	..	75·12	
6	Collieries	615·661	..	1·101	44·64	
7	Copper (Primary)	58·021	..	..	54·64	
8	Copper (Secondary)	9·581	..	..	42·94	
9	Cotton Textiles	3,103·311	..	6·143	62·96	
10	Engineering	564·271	..	4·641	42·12	
11	Ferro-Manganese	502·212	..	..	75·52	
12	Fertilizers	2,972·189	8·400	0·088	86·45	
13	Gold	102·469	..	..	73·85	
14	Iron and Steel (Primary)	2,846·346	13·017	370·659	57·60	
15	Iron and Steel (Secondary)	349·724	..	..	42·40	
16	Jute	675·394	..	2·101	60·58	
17	Mines	53·840	..	..	51·91	
18	Oil and Petroleum	362·147	80·691	0·099	47·54	
19	Paper	843·169	..	32·484	66·96	
20	Silk	729·047	..	..	81·02	
21	Soap	35·829	..	0·047	56·22	
22	Sugar	398·799	..	2·337	27·57	
23	Tanneries	20·910	..	..	47·57	
24	Wool	56·705	..	0·274	51·86	
25	Miscellaneous	105·853	..	..	38·96	
	TOTAL	19,926·262	102·108	420·226	64·68	

TABLE 56—STATEWISE ELECTRICITY PRODUCTION AND

Sl. No.	State/UTs.	Total number of factories covered	Installed generating Plant Capacity as on 31-3-70 (Kw)
1	2	3	4
1	Andhra Pradesh	43	86,269
2	Assam	8	11,614
3	Bihar	104	310,370
4	Gujarat	109	82,860
5	Haryana	8	20,178
6	Jammu & Kashmir	2	..
7	Kerala	35	19,872
8	Madhya Pradesh	51	101,730
9	Maharashtra	229	121,913
10	Mysore	40	44,256
11	Orissa	10	146,072
12	Punjab	9	2,095
13	Rajasthan	26	89,247
14	Tamil Nadu	96	59,228
15	Uttar Pradesh	79	85,028
16	West Bengal	203	157,676
17	<i>Union Territories</i>		
	(a) Delhi	6	28,666
	(b) The Rest	10	5,218
	TOTAL	1,068	1,372,292

NOTE :—The energy available (columns 8+9) may not tally with the total of columns 10+11+12, as most of the Industrial establishments have not shown the quantum of energy supplied by them to their staff colonies. Moreover, auxiliaries losses in respect of some Industries have been estimated.

CONSUMPTION IN SELECTED INDUSTRIES FOR THE YEAR 1969-70

Aggregate Maximum Demand (kVA)		Energy (Million kWh)		Purchased from public Utility Undertakings
Generation in own Power Stations	Purchase from Public Utility Undertakings	Generate in own Power Stations		
		Gross generation	Net generation	
5	6	7	8	9
65,236	155,103	213,482	190.173	740.623
6,815	17,216	29,233	28.620	78.499
241,099	292,242	1,162.274	1,054.098	1,338.022
64,346	264,032	371.796	348.370	1,280.593
21,075	21,293	81.776	74.364	96.894
..	126	..	..	0.040
17,902	144,789	66.758	59.337	808.078
80,753	170,187	397.160	361.919	822.504
74,173	592,206	235.077	217.010	2,789.187
25,270	247,431	50.420	45.162	1,067.070
141,963	204,352	676.856	585.085	832.098
948	224,711	0.617	0.545	1,429.074
64,810	51,408	374.312	332.298	225.354
39,100	210,615	126.878	118.005	1,064.216
51,048	300,308	134.129	122.064	1,948.057
101,496	453,187	473.232	412.915	1,796.129
22,658	12,468	123.088	108.622	37.816
1,407	13,650	0.967	0.009	64.018
1,020,099	3,375,324	4,518.055	4,059.496	16,418.272

TABLE 56—Contd.—STATEWISE ELECTRICITY PRODUCTION AND CONSUMPTION IN SELECTED INDUSTRIES FOR THE YEAR 1969-70

Sl. No.	State/UTs.	Used in Industry	Energy sold to (M.kWh)		Remarks
			Public Utility Undertakings	Non-Utility Undertakings	
1	2	10	11	12	13
1	Andhra Pradesh	897·229	..	33·564	
2	Assam	104·615	..	0·099	
3	Bihar	2,037·692	10·460	340·515	
4	Gujarat	1,550·311	78·631	0·018	
5	Haryana	171·258	..	..
6	Jammu and Kashmir	0·040	..	..
7	Kerala	867·414	..	..
8	Madhya Pradesh	1,127·613	..	34·399	
9	Maharashtra	3,003·196	..	2·665	
10	Mysore	1,112·232	..	..
11	Orissa	1,403·665	13·017	..	
12	Punjab	1,429·619	..	..
13	Rajasthan	557·651	..	..
14	Tamil Nadu	1,182·190	..	..
15	Uttar Pradesh	2,069·893	..	0·228	
16	West Bengal	2,200·278	..	8·738	
17	<i>Union Territories</i>				
	(a) Delhi	146·438	..	..
	(b) The Rest	64·928	..	..
	TOTAL	19,926·262	102·108	420·226	

TABLE 57--DISTRIBUTION OF ENERGY GENERATION IN INDUSTRIAL ESTABLISHMENTS ACCORDING TO THE RANGE OF THEIR INSTALLED PLANT CAPACITY FOR THE YEAR 1969-70

Sl. No.	Range of Installed Plant Capacity (kW)	Number of Industrial Establishments	Aggregate Installed capacity of the Group (kW)	Percentage to total capacity	Energy generation by the Group (Million kWh)	Percentage to total energy generated	Remarks
1	2	3	4	5	6	7	8
1	Upto 1,000	262	92,686	6.75	71.571	1.58	
2	1,001 to 10,000	153	453,550	33.05	1,081.498	23.94	
3	10,001 to 25,000	24	360,044	26.24	1,423.644	31.51	
4	Over 25,000	6	466,012	33.96	1,941.342	42.97	
	TOTAL	445	1,372,292	100.00	4,518.055	100.00	

TABLE 58--INSTALLED GENERATING PLANT CAPACITY OF

Sl. No.	Name of State/Union Territory	Aluminium (Primary)	Aluminium (Secondary)	Cement (Primary)	Cement (Secondary)
1	2	3	4	5	6
1	Andhra Pradesh . . . . .	..	..	..	310
2	Assam . . . . .	..	..	..	..
3	Bihar	4,000	..	32,594	..
4	Gujarat . . . . .	..	..	16,600	125
5	Haryana . . . . .	..	..	2,700	..
6	Jammu & Kashmir . . . . .	..	..	..	..
7	Kerala . . . . .	..	420	..	..
8	Madhya Pradesh . . . . .	..	..	19,665	..
9	Maharashtra . . . . .	..	..	..	150
10	Mysore . . . . .	..	..	10,225	..
11	Orissa . . . . .	..	210	400	..
12	Punjab . . . . .	..	..	..	..
13	Rajasthan . . . . .	..	..	31,040	..
14	Tamil Nadu . . . . .	..	..	1,375	400
15	Uttar Pradesh . . . . .	—	..	..	..
16	West Bengal	18,450	..	..	..
17	<i>Union Territories</i>				
	(a) Delhi . . . . .	..	..	..	..
	(b) The Rest . . . . .	..	..	..	..
	TOTAL	22,450	630	114,599	985

SELECTED INDUSTRIES IN K W AS ON 31ST MARCH, 1970

Chemicals	Collieries	Copper (Primary)	Copper (Secondary)	Cotton Textiles
7	8	9	10	11
125	39,700	..	..	3,090
..	1,103	..	..	..
..	18,000	7,975	..	..
14,680	..	..	..	11,807
..	..	..	..	3,090
..
1,001	..	..	..	489
..	5,150	..	..	17,381
14,768	..	..	..	23,849
1,000	..	..	..	6,315
..	3,000	..	..	..
..
39,000	..	..	..	10,476
425	..	..	..	15,987
12,842	..	..	..	4,346
630	..	..	..	192
14,810	..	..	..	13,856
..	..	..	..	1,281
99,281	66,953	7,975	..	112,159

TABLE 58—Contd.—INSTALLED GENERATING PLANT CAPACITY OF

Sl. No.	Name of State/Union Territory	Engineering	Ferro-Manganese	Fertilizers	Gold
1	2	12	13	14	15
1	Andhra Pradesh	50	..	..	..
2	Assam . . . . .	..	..	250	..
3	Bihar	418	..	80,500	..
4	Gujarat . . . . .	..	..	..	..
5	Haryana . . . . .	..	..	..	..
6	Jammu & Kashmir . . . . .	..	..	..	..
7	Kerala	162	..	2,400	..
8	Madhya Pradesh	3,100	..	..	..
9	Maharashtra	2,688	..	..	..
10	Mysore	4,605	32	..	6,700
11	Orissa . . . . .	..	..	..	..
12	Punjab . . . . .	..	..	545	..
13	Rajasthan	1,596	..	160	..
14	Tamil Nadu	333	..	452	..
15	Uttar Pradesh	452	..	..	..
16	West Bengal . . . . .	..	..	..	..
17	<i>Union Territories</i>				
	(a) Delhi . . . . .	..	..	..	..
	(b) The Rest . . . . .	..	..	..	..
	TOTAL	13,404	32	84,307	6,700

SELECTED INDUSTRIES IN KW AS ON 31ST MARCH, 1970

Iron & Steel (Primary)	Iron & Steel (Secondary)	Jute	Mines	Oil and Petroleum	Paper
16	17	18	19	20	21
..	75	20,600
..	9,886	..
120,500	..	5,185	750	24,000	..
..	305	24,000	..
..	9,750
..
..	544
36,000	284	..	580
..	235	..	..	..	..
1,760	16	..	5,000
130,012	12,000
..
..
..	23,000	2,500
..	..	750	..	..	4,088
80,000	600	25,864	..	218	30,700
..
..	3,862	..	..
368,272	835	31,799	5,217	81,179	35,762

TABLE 58 *Concl.*.—INSTALLED GENERATING PLANT CAPACITY OF

Sl. No.	Name of State/Union Territory	Silk	Soap
1	2	22	23
1	Andhra Pradesh . . . . .	..	..
2	Assam . . . . .	..	..
3	Bihar . . . . .	..	..
4	Gujarat	12,840	..
5	Haryana . . . . .	..	..
6	Jammu & Kashmir . . . . .	..	..
7	Kerala	11,400	..
8	Madhya Pradesh	16,324	..
9	Maharashtra	16,630	1,078
10	Mysore . . . . .	..	..
11	Orissa . . . . .	..	..
12	Punjab . . . . .	..	..
13	Rajasthan	4,070	..
14	Tamil Nadu . . . . .	..	..
15	Uttar Pradesh . . . . .	..	..
16	West Bengal . . . . .	..	..
17	<i>Union Territories</i>		
	(a) Delhi . . . . .	..	..
	(b) The Rest . . . . .	..	..
	TOTAL .	61,264	1,078

SELECTED INDUSTRIES IN KW AS ON 31ST MARCH, 1970

Sugar	Tanneries	Wool	Miscellaneous	Total
24	25	26	27	28
21,217	1,102	86,269
..	375	11,614
15,428	1,020	310,370
2,455	..	48	..	22,860
4,638	20,178
..
3,305	151	19,872
3,246	101,730
60,906	1,609	121,913
8,603	44,256
450	146,072
650	..	900	..	2,095
884	2,021	89,247
13,624	412	..	720	59,228
58,870	450	2,450	780	85,028
1,022	157,676
..	28,666
..	75	5,218
195,298	862	3,398	7,853	1,372,292

TABLE 59—ENERGY CONSUMED IN SELECTED

Sl. No.	State/Union Territory	Aluminium (Primary)	Aluminium (Secondary)	Cement (Primary)
1	2	3	4	5
1	Andhra Pradesh . . . . .	..	..	88,038
2	Assam . . . . .	..	..	..
3	Bihar	21,844	..	296,230
4	Gujarat . . . . .	..	..	146,311
5	Haryana . . . . .	..	..	67,064
6	Jammu and Kashmir . . . . .	..	..	..
7	Kerala	359,847	4,955	7,143
8	Madhya Pradesh . . . . .	..	..	156,777
9	Maharashtra . . . . .	..	12,526	..
10	Mysore	138,790	..	86,308
11	Orissa	358,274	3,717	51,433
12	Punjab . . . . .	..	..	..
13	Rajasthan . . . . .	..	..	138,928
14	TamilNadu	267,673	0,131	155,952
15	Uttar Pradesh	1,372,710	..	48,545
16	West Bengal	135,140	37,034	..
17	<i>Union Territories</i>			
	(a) Delhi . . . . .	..	..	..
	(b) The Rest . . . . .	..	..	..
	TOTAL	2,654,278	58,363	1,242,729

INDUSTRIES DURING THE YEAR 1969-70

Cement (Secondary)	Chemicals	Collieries	Copper (Primary)	Copper (Secondary)	Cotton Textiles
6	7	8	9	10	11
0.010	37.066	87.248	..	..	19.782
..	..	2.935	..	..	..
1.386	19.497	284.263	58.021	..	..
5.132	119.420	..	..	..	878.976
..	..	..	..	..	17.805
..
..	157.006	..	..	..	20.165
5.558	..	62.816	..	..	153.671
9.830	467.200	2.292	..	9.581	1,103.181
..	4.518	..	..	..	69.829
..	..	13.577	..	..	..
..	..	..	..	..	24.269
0.689	295.527	..	..	..	51.939
1.487	181.748	..	..	..	365.460
..	53.833	..	..	..	177.769
10.867	121.505	162.530	..	..	119.254
0.051	73.104	..	..	..	73.283
..	..	..	..	..	27.928
35.010	1,530.424	615.661	58.021	9.581	3,103.311

TABLE 59 (Contd.)—ENERGY CONSUMED IN SELECTED

Sl. No.	State/Union Territories	Engineering	Ferro-Manganese	Fertilizers	Gold
1	2	12	13	14	15
1	Andhra Pradesh	10.003	223.698	155.158	..
2	Assam . . . . .	..	..	71.627	..
3	Bihar	189.548	..	411.019	..
4	Gujarat	3.000	..	256.334	..
5	Haryana	3.007	..	..	..
6	Jammu & Kashmir . . . . .	..	..	..	..
7	Kerala	7.306	..	208.063	..
8	Madhya Pradesh	32.356	2.814	..	..
9	Maharashtra	110.250	101.324	191.400	..
10	Mysore	83.650	33.621	0.523	102.469
11	Orissa . . . . .	..	140.755	..	..
12	Punjab . . . . .	..	..	1,394.650	..
13	Rajasthan	15.944	..	0.256	..
14	Tamil Nadu	13.846	..	49.746	..
15	Uttar Pradesh	4.768	..	232.400	..
16	West Bengal	90.593	..	1.013	..
17	<i>Union Territories</i>				
	(a) Delhi . . . . .	..	..	..	..
	(b) The Rest . . . . .	..	..	..	..
	TOTAL	564.271	502.212	2,972.189	102.469

INDUSTRIES DURING THE YEAR 1969-70

Iron & Steel (Primary)	Iron & Steel (Secondary)	Jute	Mines	Oil & Petroleum	Paper	Soap
16	17	18	19	20	21	22
..	..	15·217	..	17·518	143·388	..
..	..	..	..	28·719	..	..
588·879	38·158	8·189	16·772	84·718	..	..
..	..	..	0·233	66·427	8·874	..
..	..	..	..	..	66·995	..
..
..	..	..	..	..	13·317	0·791
567·333	..	..	..	..	54·843	..
..	129·442	..	..	106·306	92·278	26·905
460·933	..	..	0·072	..	84·031	0·588
727·483	..	..	..	..	106·844	..
..
..
..	3·935	..	..	55·976	44·702	..
..	11·334	10·393	..	..	46·541	..
501·718	166·855	641·595	..	2·483	181·356	7·545
..
..	..	..	36·763	..	..	..
2,846·346	349·724	675·394	53·840	362·147	843·169	35·829

TABLE 59 *Concl'd.*—ENERGY CONSUMED IN SELECTED INDUSTRIES DURING THE YEAR 1969-70

Sl. No.	State Union Territories	Silk	Sugar	Tanneries	Woollen	Miscellaneous	Total
1	2	23	24	25	26	27	28
1	Andhra Pradesh	32·641	60·954	..	..	6·508	897·229
2	Assam . . . . .	..	..	..	..	1·334	104·615
3	Bihar . . . . .	..	17·252	..	..	1·916	2,037·692
4	Gujarat	55·096	6·247	..	4·261	..	1,550·311
5	Haryana . . . . .	..	16·387	..	..	..	171·258
6	Jammu & Kashmir	0·040	..	..	..	..	0·040
7	Kerala	80·922	6·247	..	..	1·652	867·414
8	Madhya Pradesh	88·518	2·927	..	..	..	1,127·613
9	Maharashtra	434·554	128·739	..	8·013	69·375	3,003·196
10	Mysore	0·533	16·832	0·062	29·473	..	1,112·232
11	Orissa . . . . .	..	1·582	..	..	..	1,403·665
12	Punjab	1·656	1·242	..	7·802	..	1,429·619
13	Rajasthan	34·515	1·252	..	..	18·601	557·651
14	Tamil Nadu . . . . .	..	36·021	1·135	..	4·378	1,182·190
15	Uttar Pradesh . . . . .	..	101·439	1·207	7·122	1·832	2,069·893
16	West Bengal	0·572	1·678	18·506	0·034	..	2,200·278
17	<i>Union Territories</i>						
	(a) Delhi . . . . .	..	..	..	..	..	146·438
	(b) The Rest . . . . .	..	..	..	..	0·237	64·928
	TOTAL	729·047	398·799	20·910	56·705	105·833	19,926·262

TABLE 60—INSTALLED PLANT CAPACITY AND GENERATION BY THE INDIAN RAILWAYS DURING THE YEAR 1969-70

Sl. No.	Name of Railways	Installed Plant Capacity (kW.)			
		Steam	Diesel	Hydro	Total
1	2	3	4	5	6
1	Central Railway*	..	1,880	..	1,880
2	Eastern Railway	8,300	1,222	..	9,522
3	Northern Railway	4,900	4,636	..	9,536
4	North-Eastern Railway	3,000	1,682	..	4,682
5	North-East Frontier Railway	DATA		NOT	AVAILABLE
6	Southern Railway	..	..	..	..
7	South-Central Railway	..	135	..	135
8	South-Eastern Railway	7,160	119	..	7,279
9	Western Railway	7,800	4,308	..	12,108
	TOTAL.	31,160	13,982	..	45,142

*Excludes Chola (Kalyan) Power House which is taken under utility undertakings.

TABLE 60 (Contd.)—INSTALLED PLANT CAPACITY AND GENERATION BY THE

Sl. No.	Name of Railways	Maximum Demand (kVA)	Energy Generated (Million kWh)		
			Steam	Diesel	Hydro
1	1	7	8	9	10
1	Central Railway	438	..	1·825	..
2	Eastern Railway	2,974	9·991	0·005	..
3	Northern Railway	10,827	7·024	0·991	..
4	North-Eastern Railway	693	..	0·093	..
5	North-East Frontier Railway	DATA		NOT	
6	Southern Railway	..	..	..	—
7	South-Central Railway	51	..	0·119	—
8	South-Eastern Railway	4,539	6·097	0·037	..
9	Western Railway	6,314	8·568	1·896	..
	TOTAL	25,836	31·680	4·966	..

INDIAN RAILWAYS DURING THE YEAR 1969-70

Total	Energy used for Power Station auxiliaries (M. kWh)	Fuel Consumed		
		Coal (Tonnes)	Furnace (K. Lit.)	Light/High Speed Diesel Oil (K. Lit.)
11	12	13	14	15
1·825	0·051	..	..	703
9·996	1·036	15,070	..	3
8·015	0·989**	14,715	..	416
0·093	0·005**	..	..	65
AVAILABLE	DATA		NOT	AVAILABLE
..
0·119	0·001	..	..	57
6·134	0·490**	13,028	..	27
10·464	1·032**	12,015	..	723
36·646	3·604	54,828	..	1,994

**Partly estimated.

TABLE 61—STATEWISE INSTALLED PLANT CAPACITY AND GENERATION

Sl. No.	Name of State/Union Territory	Installed Plant Capacity (kW)			
		Steam	Diesel	Hydro	Total
1	2	3	4	5	6
1	Andhra Pradesh . . . . .	..	..	..	..
2	Assam	DATA		NOT	AVAILABLE
3	Bihar	8,300	553	..	8,853
4	Gujarat	3,300	1,086	..	4,386
5	Haryana . . . . .	..	739	..	739
6	Jammu & Kashmir . . . . .	..	..	..	..
7	Kerala . . . . .	..	..	..	..
8	Madhya Pradesh . . . . .	..	1,110	..	1,110
9	Maharashtra . . . . .	..	200	..	200
10	Mysore . . . . .	..	135	..	135
11	Orissa . . . . .	..	39	..	39
12	Punjab . . . . .	..	940	..	940
13	Rajasthan	4,500	4,800	..	9,300
14	Tamil Nadu . . . . .	..	..	..	..
15	Uttar Pradesh	7,900	3,182	..	11,082
16	West Bengal	7,160	1,222	..	8,382
17	<i>Union Territories</i>				
	(a) Delhi . . . . .	..	26	..	26
	(b) The Rest . . . . .	..	..	..	..
	TOTAL	31,160	13,982	..	45,142

BY THE INDIAN RAILWAYS DURING THE YEAR 1969-79

Maximum Demand (kVA)	Energy Generated (Million kW)			
	Steam	Diesel	Hydro	Total
7	8	9	10	11
..
	DATA	NOT	AVAILABLE	
3,544	9.991	0.093	..	10.084
2,602	6.667	0.543	..	7.210
776	..	0.150	..	0.150
..
..
856	..	1.868	..	1.868
..
51	..	0.119	..	0.119
21	..	0.015	..	0.015
926	..	0.071	..	0.071
5,142	1.901	2.022	..	3.923
..
7,408	7.024	0.080	..	7.104
4,510	6.097	0.005	..	6.102
..
..
25,836	31.680	4.966	..	36.646

TABLE 61—(Contd.) STATEWISE INSTALLED PLANT CAPACITY AND GENERATION BY THE INDIAN RAILWAYS DURING THE YEAR 1969-70

Serial Number	Name of State/Union Territory	Energy used for Power Station auxiliaries (Million kWh)	Fuel Consumed			Remarks
			Coal (Tonnes)	Furnace Oil (K.Lit.)	Light/High Speed Diesel Oil (K.Lit.)	
1	2	12	13	14	15	16
1	Andhra Pradesh . . . . .	..	..	..	..
2	Assam		DATA	NOT	AVAILABLE	
3	Bihar	1.041	15,070	..	60	
4	Gujarat	0.629	7,181	..	149	
5	Haryana	0.009	..	..	88	
6	Jammu & Kashmir . . . . .	..	..	..	..
7	Kerala . . . . .	..	..	..	..
8	Madhya Pradesh	0.053	..	..	721	
9	Maharashtra . . . . .	..	..	..	..
10	Mysore	0.001	..	..	57	
11	Orissa . . . . .	..	..	..	16	
12	Punjab	0.001	..	..	32	
13	Rajasthan	0.438	4,834	..	818	
14	Tamil Nadu . . . . .	..	..	..	..
15	Uttar Pradesh	0.944	14,715	..	50	
16	West Bengal	0.488	13,028	..	3	
17	Union Territories					
	(a) Delhi . . . . .	..	..	..	..
	(b) The Rest . . . . .	..	..	..	..
	TOTAL	3.604	54,828	..	1,994	

NOTE.—Data for 1969-70 in respect of North-East Frontier Railways not received.

TABLE 62—ELECTRICAL ACCIDENTS DURING 1969-70

Serial No.	Name of State/Union Territory	Generating and sub-stations			
		Electric Supply Undertaking		Industrial Undertaking	
		Fatal	Non-Fatal	Fatal	Non-Fatal
1	2	3	4	5	6
1	Andhra Pradesh	4	12	..	..
2	Assam . . . . .	..	..	..	..
3	Bihar . . . . .	..	..	2	2
4	Gujarat	30	50	8	5
5	Haryana	1	5	..	..
6	Jammu & Kashmir		DATA	NOT	AVAILABLE
7	Kerala	2	1	..	..
8	Madhya Pradesh . . . . .	..	..	..	..
9	Maharashtra	6	9	6	2
10	Mysore	3	..	1	..
11	Nagaland		DATA	NOT	AVAILABLE
12	Orissa	1	..	..	..
13	Punjab	11+1*	15	..	..
14	Rajasthan . . . . .	..	..	..	..
15	Tamil Nadu	13	13	..	..
16	Uttar Pradesh	23	66	..	..
17	West Bengal		DATA	NOT	AVAILABLE
	<i>Union Territories</i>				
	(a) Andaman & Nicobar Islands . . . . .	..	..	..	..
	(b) Delhi . . . . .	..	..	13	..
	(c) Goa, Daman & Diu . . . . .	..	..	..	..
	(d) Himachal Pradesh . . . . .	..	..	..	..
	(e) Manipur . . . . .	..	..	..	..
	(f) Pondicherry . . . . .	..	..	..	..
	(g) Tripura . . . . .	..	..	..	..
18	Mines		DATA	NOT	AVAILABLE
19	Railways (†) . . . . .	..	1	..	..
	TOTAL	94+(1)*	172	30	9

*Accidents to animals.

†The data consist on the information supplied by the Western & Northern Regions only.

TABLE 62 (Contd.)—ELECTRICAL ACCIDENTS DURING 1969-70

Serial No.	Name of State/Union Territory	Transmission			
		Electric Supply Undertaking		Industrial Undertaking	
		Fatal	Non-Fatal	Fatal	Non-Fatal
1	2	7	8	9	10
1	Andhra Pradesh	30	37	..	1
2	Assam	9+2*	2*	..	..
3	Bihar	5	8	..	..
4	Gujarat	13	16	..	..
5	Haryana	16*	24	..	..
6	Jammu & Kashmir		DATA	NOT	AVAILABLE
7	Kerala	8+7*	35+2*	..	..
8	Madhya Pradesh	22+3*	32+2*	..	..
9	Maharashtra	24	19	2	2
10	Mysore	28	38	..	23
11	Nagaland		DATA	NOT	AVAILABLE
12	Orissa	5	7	..	..
13	Punjab	19+4*	18	..	..
14	Rajasthan	2	..	..	..
15	Tamil Nadu	30	35	..	..
16	Uttar Pradesh	75+4*	59	..	..
17	West Bengal		DATA	NOT	AVAILABLE
	<i>Union Territories</i>				
	(a) Andaman & Nicobar Islands . . . . .	..	..	..	..
	(b) Delhi . . . . .	..	..	..	..
	(c) Goa, Daman & Diu . . . . .	..	..	..	..
	(d) Himachal Pradesh . . . . .	..	..	..	..
	(e) Manipur . . . . .	..	..	..	..
	(f) Pondicherry . . . . .	..	..	..	..
	(g) Tripura	1*	4	..	..
18	Mines		DATA	NOT	AVAILABLE
19	Railways†	6	5	..	..
	TOTAL	275+38*	337+6*	2	26

TABLE 62 (Contd.)—ELECTRICAL ACCIDENTS DURING 1969-70

Sl. No.	Name of State/Union Territory	Distribution				Total	
		Electric Supply Undertaking		Industrial Undertaking			
		Fatal	Non-Fatal	Fatal	Non-Fatal	Fatal	Non-Fatal
1	2	11	12	13	14	15	16
1	Andhra Pradesh	87+26*	46	..	2	121+26*	98
2	Assam	7+2*	7	..	..	16+4*	7+2*
3	Bihar	7	9	..	..	14	10
4	Gujarat	28+48*	64	3	2	82+48*	137
5	Haryana	50*+55	14	7*+7	5	63+73*	48
6	Jammu & Kashmir		DATA	NOT	AVAILABLE		
7	Kerala	20*+58	17	1	..	68+28*	2*+153
8	Madhya Pradesh	93+40*	118+2*	..	..	115+43*	150+4*
9	Maharashtra	18*+176	156	22	30	18*+236	218
10	Mysore	46	148	5	..	83	209
11	Nagaland		DATA	NOT	AVAILABLE		
12	Orissa	7	9	..	6	13	22
13	Punjab	33+100*	22	2	1	65+105*	56
14	Rajasthan . . . . .	..	3	..	..	2	3
15	Tamil Nadu	195	114	..	..	238	162
16	Uttar Pradesh	47+15*	96+1*	..	..	145+19*	221+1*
17	West Bengal		DATA	NOT	AVAILABLE		
	<i>Union Territories</i>						
	(a) Andaman & Nicobar Islands	1*	..	..	..	1*	..
	(b) Delhi	4+2*	2	1	..	18+2*	2
	(c) Goa, Daman & Diu	4+1*	15	..	..	4+1*	15
	(d) Himachal Pradesh	4	11	..	..	4	11
	(e) Manipur	2+1*	2	..	..	2+1*	2
	(f) Pondicherry	1	2	..	..	1	2
	(g) Tripura . . . . .	..	..	..	..	1*	4
18	Mines		DATA	NOT	AVAILABLE		
19	Railways	3	5	..	..	9	11
	TOTAL	324*+857	3*+960	7*+41	46	370*+1,299	9*+1,550

*Accidents to animals.

†The data consist on the information supplied by the Western and Northern Regions only.

Section II
FINANCIAL STATISTICS

No.	Territories	Government, Boards and Corporations		Municipalities		Companies		Total	
		1967-68	1968-69	1967-68	1968-1969	1967-68	1968-69	1967-68	
		3	4	5	6	7	8	9	10
1	Andhra Pradesh	15,889	16,346	..	..	..	..	15,889	16,346
2	Assam	4,454	5,358	..	..	123	123	4,577	5,481
3	Bihar	10,342	12,215	..	..	686	734	11,028	12,949
4	Gujarat	10,659	11,818	227	260	3,686	3,937	14,572	16,015
5	Haryana	6,611	8,200	..	..	11	11	6,622	8,211
6	Jammu & Kashmir . . . . .	..	..	..	..	..	..	..	..
7	Kerala	9,988	10,813	35	36	105	112	10,128	10,961
8	Madhya Pradesh	8,847	11,750	..	..	215	235	9,062	11,985
9	Maharashtra	12,448	16,537	4,080	4,452	9,592	9,933	26,120	30,922
10	Mysore	7,753	9,148	..	..	117	128	7,870	9,276
11	Nagaland . . . . .	..	..	..	..	..	..	..	..
12	Orissa	3,688	4,419	..	..	..	..	3,688	4,419
13	Punjab	10,175	12,161	153	173	9	10	10,337	12,344
14	Rajasthan	6,442	10,000	..	..	176	191	6,618	10,191
15	Tamil Nadu	25,684	27,608	171	179	1,074	980	26,929	28,767
16	Uttar Pradesh	*36,632	*42,480	257	262	2,679	3,179	39,568	45,921
17	West Bengal	7,223	7,615	26	26	7,646	7,918	14,895	15,559

1967-68	Particulars.	Departments/ Boards/ Power Corporations	Muni- cipali- ties	Com- panies	Total	1967-68	Particulars	Departments/ Boards/ Power Corporations	Muni- cipali- ties	Com- panies	Total
1	2	3	4	5	6	7	8	9	10	11	12
	1. TO GENERATION ASSETS—						1. BY CAPITAL RAISED—				
	(a) Steam Power Stations—						(a) Invested by States—				
	(i) Land	333	5	119	457	G—218,547	(i) Government Under- takings	2,49,950	..	..	2,49,950
	(ii) Buildings	4,946	83	1,087	6,116	M—7,422	(ii) Municipal Under- takings	..	8,452	..	8,452
	(iii) Boilers, Turbines etc.	41,938	2,356	8,376	52,670	225,969	GROUP TOTAL .	249,950	8,452	..	258,402
G—44,869 M—1,886 C—9,200	(iv) Other Equipments .	3,631	..	204	3,835						
55,955	GROUP TOTAL .	50,848	2,444	9,786	63,078	Companies	(b) Invested by Private Sector—				
	(b) Oil Power Stations—					O—4,490	(i) Ordinary Share	..	..	4,509	4,509
	(i) Land	111	1	4	116	P—969	(ii) Preference Share	..	..	959	959
	(ii) Buildings	433	14	29	476		(iii) Debentures . . . . .	..	..	2,371	2,371
G—3,796 M—203 C—254	(iii) Engines, Generators etc.	1,989	187	228	2,404	D—2,058	(iv) Other Secured Loan Capital	..	..	2,758	2,758
	(iv) Other Equipments .	172	..	..	172	SL—3,330					
4,953	GROUP TOTAL .	2,705	908	861	3,168						

M— 00	(iv) Civil Works	10,996	28	1,391	12,415
G— 2,004					
42,390	GROUP TOTAL	37,507	68	2,007	39,582
102,598	SUB-TOTAL (Generation Assets).	91,060	2,714	12,054	105,828
37 265	2. TO TRANSMISSION ASSETS.	47,007	176	2,381	49,564
	3. TO DISTRIBUTION ASSETS—				
	(i) Cables and Mains	38,430	1,964	4,334	44,728
	(ii) Sub-Stations, Transformers	17,439	1,270	2,911	21,620
	(iii) Service Lines	13,887	940	2,607	17,434
G—60,089	(iv) Public Lighting	1,194	147	237	1,578
M— 4,686	(v) Meters, Testing Instruments etc.	4,739	705	1,308	6,752
C— 10,734					
75,509	GROUP TOTAL	75,689	5,026	11,397	92,112
	4. TO GENERAL ASSETS—				
	(i) Land, Buildings and Structures etc.	3,635	335	353	4,323
	(ii) Office Furniture and Misc. Equipments.	2,578	81	273	2,932
	(iii) Workshop Plant and Equipment,	2,004	53	82	2,139

G—2,389 M—51 C—820	5. TO INTANGIBLE ASSETS	2,536	55	731	3,322						
3,260											
M—1,823 G—194,647 M—9,341 C—26,119	6. TO SPECIAL ITEMS (Tramways in the case of Bombay)	..	1,971	..	1,971	G—221,230 M—8,023 C—12,599					
290,107	TOTAL CARRIED TO GENERAL BALANCE SHEET	226,402	10,461	27,491	264,354	241,852		253,286	9085	12,496	274,856

G—Government
M—Municipalities
C—Companies
O—Ordinary Share Capital

SL—Secured Loans
P—Preference Share Capital
D—Debentures.

1967-68	Particulars	Govt. Departments/ Boards/ Power Corporations	Municipalities	Companies	Total	1967-68	Particulars	Govt. Departments/ Boards/ Power Corporations	Municipalities	Companies	Total
1	2	3	4	5	6	7	8	9	10	11	12
	TO OPERATING EXPENSES						BY OPERATING REVENUES				
	I. GENERATION—						1. SALE OF ELECTRICITY				
G—4,169 M—230 C—2,113						G—3,560 M—891 C—1,927					
6,512	(a) (i) Coal . . .	5,066	376	2,386	7,828	6,378	domestic and Residential	4,135	961	2,072	7,168
G—296 M—21 C—73						G—1,874 M—679 C—753					
390	(ii) Oil . . .	172	9	68	249	3,306	(ii) Commercial . . .	2,222	763	817	4,302
G—214 M—5 C—40						G—12,174 M—768 C—5,524					
259	(iii) Consumable Stores	192	10	44	246	18,466	(iii) Industrial . . .	14,368	831	6,255	21,454
G—663 M—52 C—293						G—536 M—49 C—128					

2. TRANSMISSION											
G-334 M-5 C-53						G-2,712 M-15 C-66					
392	(a) Salaries and Wages	395	4	57	456	2,793	(vi) Irrigation	4,106	21	73	4,200
G 252 M-.. C-21						G-684 M-1 C-108					
273	(b) Repairs and Maintenance.	252	1	28	281	793	(vii) Traction	842	1	74	917
3. DISTRIBUTION											
G-1,267 M-194 C-365						G-5,312 M-249 C-1,314					
1,826	(a) Salaries and Wages	1,677	219	404	2,300	5,875	(viii) Supplies in Bulk to Distributing Licenses	6,044	373	1	7,842
G-896 M-78 C-232						G-518 M-74 C-118					
1,206	(b) Repairs and Maintenance	1,037	87	259	1,383	710	2. METER AND OTHER RENTALS	595	74	125	794

						M-58 C-21					
	4. CONSUMERS SERV- ING(Billing Accounting, etc.)					104	4. PUBLIC LIGHTING MAINTENANCE	28	79	25	132
G-161 M-11 C-45						G-1,906 M-175 C-165					
217	(a) Salaries and Wages .	224	14	47	285	2,246	5. MISCELLANEOUS RECEIPTS	2,378	188	171	2,737
G-326 M-113 C-250											
689	(b) Other Expenses .	404	125	260	789						
	5. GENERAL ESTABL- SHMENT CHARGES										
G-1,409 M-55 C-197											
1,661	(a) Salaries and Wages .	1,937	63	206	2,206						
G-2,193 M-271 C-650											
3,114	(b) Other expenses (inclu- ding Provident Fund etc.)	2,296	348	805	3,449						
	6. MANAGEMENT EX- PENSES										
C-13	(a) Directors fees and ex-			14	14						

G-4,981 M-141 C-706	(L.A.)										
5,828	8. DEPRECIATION	6,012	227	803	7,042						
G-21,867 M-2,448 C-8,582											
32,897	TOTAL OPERATING EXPENSES.	26,009	2,853	9,823	38,685						
G-7,948 M-635 C-1,763											
10,346	TO BALANCE CARRIED OVER	10,415	635	1,573	12,623						
G-29,815 M-3,083 C-10,345						G- 29,815 M- 3,083 C- 10,345					
43,243	TOTAL	36,424	3,488	11,396	51,308	43,243	TOTAL	36,424	3,488	11,396	51,308

1967-68	Particulars	ments/ Boards/ Power Corporations	cipalities	panies	Total	1967-68	Particulars	ments/ Boards/ Power Corporations	cipalities	panies	Total
1	2	3	4	5	6	7	8	9	10	11	12
	To Appropriation (Applicable to local authority licensee only).					G—7,948 M—635 C—1,763	By Balance brought forward from Revenue Account				
						10,346		10,415	635	1,573	12,623
M—80	(a) Interest on loan Capital	..	59	..	59						
M—24	(b) Instalment of redemption of loan capital	..	25	..	25	G—178 M—24 C—40	By interest on Securities and investment	203	11	51	265
M—109	(c) General rates	..	97	..	97	242					
M—1 C—487	To taxes on income and profits	..	..	314	314	M—(—)142	By deficit on incidental business (Tramways and Omnibuses of Bombay Municipality).	..	(—)100	..	(—)100
488											
G—29 C—29	To instalment of write down in respect of intangible assets	45	..	76	121	M—120 C—29	By Balance of Profit brought forward from previous year	..	187	..	187
58						149					
M—6 C—73	To contribution towards contingencies reserve	..	7	72	79	G—8,977 C—64	By Balance carried over to General Balance Sheet.	12,029	..	207	12,236
79						9,041					
G—46 C—92	To Development Reserve	183	2	79	264						

G-1,061	permitted by State Government				
M-57 C-246	To Other Appropriations	2,151	69	211	1,431
1,364					
	To Appropriation towards interest paid and accrued and dividends paid and payable				
C-131	(a) Interest on debentures	..	..	150	150
G-8,706 M-165 C-207	(b) Interest on other Secured loans	1,2115	258	175	12,548
9,078					
G-38 M-7 C-58	(c) Interest on consumers Security Deposits	47	10	32	89
103					
G-68 M-13 C-118	(d) Interest on unsecured loans, advances, deposits, bank over drafts etc.	41	13	158	212
199					
C-40	(e) Dividends on Preference share Capital	..	..	65	65
C-398	(f) Dividends on Ordinary Share Capital	..	..	407	407
G-7,155	To Balance of loss brought forward	9,065	..	68	9,133

1	2	3	4	5	6	7	8	9	10	11	12
2,41,852	Fixed Capital raised and appropriated as per the Capital Account	2,53,286	9,074	12,496	2,74,856	2,30,107	Capital Expenditure on works as per the Capital Accounts	2,26,402	10,461	27,491	2,64,354
4,411	Capital Redemption Sinking Fund and other Reserves	2,318	1,504	551	4,373	35,216	<i>Less</i> Accumulated provisions for Depreciation	31,873	2,206	8,607	42,686
	RESERVES AND SURPLUS.					194,891	NET BLOCK	194,529	8,255	18,884	2,21,668
9,047	Non-Statutory Reserve	6,742	1,591	2,476	10,809	310	Balance of written down cost of obsolete and inadequate assets	224	5	45	274
							CURRENT ASSETS				
43	Special appropriation (as permitted by State Government)	..	1	43	44	48,620	Capital Works in Progress	48,195	1,743	624	50,562
652	Contingencies Reserve Fund	..	85	584	669		Stores and Materials in Hand—				
374	Tariffs and Dividends Control Reserve	137	148	110	395	389	(a) Fuel Coal and or Oil at cost	275	43	146	464
317	Consumers Rebate Reserve	..	142	192	334	23,956	(b) General Stores at a Below Cost	20,219	1,357	1,351	22,927
1,066	Development Reserve	477	10	858	1,345	8,733	Sundry debtors for Electrici-	6,989	1,117	1,624	9,730

14,279	Creditors on open account	11,531	649	1,527	13,707		Investment in Statutory Securities at cost—				
6,752	Consumers Security Deposits	5,425	736	1,154	7,315	652	(a) Contingencies Reserve Fund Investment (Market value on closing date)	..	15	587	602
31,759	Accounts Payable . . .	35,521	1,428	2,683	39,632	3,989	(b) Other Investment (Market Value on closing date)	3,508	1,308	130	4,946
546	Balance due on construction of plant and machinery	569	..	42	611		Special Deposits—				
5,417	Temporary accommodations Bank over drafts and other finances	3,282	266	2,357	5,905	167	(a) In respect of taxation	..	..	131	131
						1,279	(b) Other	1,637	15	27	1,679
							Balance at Bank				
						2,461	(a) Deposit Account	3,238	436	268	3,942
						2,517	(b) Current Account and at Call	2,623	299	364	3,286
						935	Cash in Hand	882	42	56	980
							<i>Debit Balances</i>				
						106	Deferred Payments	58	1	2	61
						9,041	Debit Balance of net revenue and appropriation accounts	12,029	..	207	12,236
316,671	TOTAL	319,288	15,801	25,073	360,162	316,671	TOTAL	319,288	15,801	25,073	360,162

TABLE VI—AVERAGE PRICE OF ELECTRICITY

Sl. No.	Category of Sale	kWh Sold in 1968-69 (Million)	Revenue Realised in Rupees (Lakhs)	Revenue Realised per kWh Sold (Paise)
1	2	3	4	5
1	Domestic and Commercial premises for lighting, heating, small power, etc.	5,384	12,282	22·81
2	Industrial and Traction	26,223	23,185	8·84
3	Agricultural	3,423	4,200	12·27
	TOTAL	35,030	39,667	11·32
4	Miscellaneous . . . . .	..	4,064	..
5	All Purposes	35,030	43,731	12·48

NOTE.—About 2,322 Million kWh Sales have been excluded corresponding to those few Electrical Undertakings from whom financial data have not been received.

TABLE VII—SOME IMPORTANT FINANCIAL FEATURES FOR THE YEARS 1966-67 to 1968-69

Sl. No.	Particulars	Units	1967	1968	1969
1	2	3	4	5	6
1	Installed Plant Capacity	kW	9,538,638	11,032,266	12,190,454
2	Average Cost per kW Installed	Rs.	2,125	2,086	2,168
3	Number of Consumers	No.	9,596,595	10,505,646	11,784,932
4	Average Capital Outlay per Consumer	Rs.	2,113	2,190	2,243
5	Maximum Demand	kW	7,784,908	9,000,106	10,277,106
6	Average Capital Outlay on Transmission, Distribution, etc. per kW of Maximum Demand.	Rs.	1,434	1,396	1,523

NOTE.—About 766,816 kW, 593,954 kW and 150,692—Installed Plant Capacity, Maximum Demand and Consumers have been excluded corresponding to those few Electrical Undertakings from where data have not been received.

TABLE VIII—CONSOLIDATED CAPITAL OUTLAY BY OWNERSHIP FOR THE YEARS
1964-65 TO 1968-69

Particulars	1965		1966		1967		1968		1969	
	Outlay (Rs. lakhs)	Perce- ntage of total	Outlay (Rs. lakhs)	Perce- ntage of total	Outlay (Rs. lakhs)	Perce- ntage of total	Outlay (Rs. lakhs)	Perce- ntage of total	Outlay (Rs. lakhs)	Perce- ntage of total
Public Sector . . .	108,286	85	143,376	87	179,504	89	203,988	89	236,863	90
Private Sector . . .	18,814	15	21,259	13	23,225	11	26,119	11	27,491	10
TOTAL . . .	127,100	100	164,635	100	202,729	100	230,107	100	264,354	100

TABLE IX—CONSOLIDATED CAPITAL OUTLAY OF ELECTRICITY SUPPLY UNDERTAKINGS
FOR THE YEARS 1964-65 TO 1968-69

Particulars	Units	1965	1966	1967	1968	1969
1	2	3	4	5	6	7
On Electrical Works	Rs. lakhs	125,619	163,116	201,058	228,284	262,383
Non-Electrical Works like Tramways and Omnibus	Rs. lakhs	1,481	1,519	1,671	1,823	1,971
TOTAL	Rs. lakhs	127,100	164,635	202,729	230,107	264,354

APPENDIX
ADDRESS OF PUBLIC ELECTRICITY SUPPLY UNDERTAKINGS
AND SYSTEM OF SUPPLY AS ON 31-3-1970

ANDHRA PRADESH

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
BOARD				
1	Andhra Pradesh State Electricity Board. <i>(a) Hydro Electric Power Stations</i> 1. Nizamsagar 2. Upper Sileru <i>(b) Thermal Power Stations</i> 1. Gas turbine, Erragadda 2. Hussainsagar 3. Nellore 4. Ramagundam 5. Vijayawada 6. Kothagudam <i>(c) Diesel Stations</i> 1. Ashwaraopet 2. Venkatapuram	The Chief Engineer, Electricity, Andhra Pradesh Electricity Board, opposite Bella Vista, P.O. Hyderabad-4.	220,000 132,000 66,000 33,000 11,000 6,600 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
GOVERNMENT DEPARTMENT				
2	Hydro Electric Power Station 1. Machkund 2. Tungabhadra Dam 3. Hampi	The Project Assistant Engineer, Generation, Machkund Power House, P.O. Onukudelli (Orissa) The Superintending Engineer, Tungabhadra Dam (via Hospet) Bellary Distt., Mysore State	66,000 11,000 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
ASSAM				
BOARD				
1	Assam State Electricity Board <i>(a) Hydro Electric Power Stations</i> 1. Umtru 2. Umiuam <i>(b) Thermal Power Stations</i> 1. Gas turbine, Gauhati 2. Gas turbine, Namrup (Naharkatia)	The Chief Engineer, Assam State Electricity Board, Shillong (Assam)	132,000 66,000 33,000 11,000 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.

ASSAM—Contd.

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
		BOARD—Contd.		
	9. Hazipur 10. Chakia 11. Chapra 12. Bettiah 13. Mirganj 14. Katihar 15. Samastipur			
		POWER CORPORATION		
2	Damodar Valley Corporation (Power Houses located in Bihar area) Bokaro Chandrapura Tilaiya Panchet Hill (Power Houses located in West Bengal area) Durgapur Maithon	The Chief Electrical Engineer, Damodar Valley Corpn., Bhabhani Bhavan, Calcutta-27	132,000 33,000 11,000 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
		COMPANIES		
3	Bhagalpur	The Bhagalpur Electric Supply Co., Bhagalpur (Bihar)	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
4	Chaibasa	The Chaibasa Electric Supply Co., Chaibasa (Bihar)	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
5	Chirkunda	The Chirkunda Electric Supply Co. P.O. Barakar, District, Burdwan	400 230	3 ph. A.C. 1 ph. A.C.
6	Darbhanga Laherisarai	The Darbhanga Laherisarai Electric Supply Corporation Ltd., Darbhanga (Bihar)	3,300 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
7	Jharia Coal Field	The Jharia Coal Field Electric Supply Co. Private Ltd., P.B. No. 16, Dhanbad	11,000 6,600 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
8	Jugsalai	The Jugsalai Electric Supply Co., Jugsalai (Tatanagar), S.E. Railway	3,300 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
9	Muzaffarpore	The Muzaffarpore Electric Supply Co., Ltd., Muzaffarpore (Bihar)	11,000 3,300 400 230 440 220	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C. D.C. 3 Wire D.C. 2 Wire

ANDHRA PRADESH—Contd.

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
		COMPANIES—contd.		
10	Patna	The Patna Electric Supply Co. Ltd., Mangles Road, Patna-15	11,000 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
11	Ranchi	The Ranchi Electric Supply Co. Ltd., Main Road, Ranchi (Bihar)	6,600 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
12	Sijhua (Jherriah)	The Sijhua (Jherriah) Electric Supply Co. Ltd., P.O. Bansjora (District Dhanbad)	11,000 6,600	3 ph. A.C. 3 ph. A.C.
		GUJARAT BOARD		
1	Gujarat Electricity Board			
	(a) Steam Power Stations			
	1. Kandla	The Chief Engineer (O & M), the Gujarat Electricity Board, Race Course, Baroda-5	220,000	3 ph. A.C.
	2. Porbandar		132,000	3 ph. A.C.
	3. Sikka		66,000	3 ph. A.C.
	4. Shahpur		33,000	3 ph. A.C.
	5. Utran		22,000	3 ph. A.C.
	6. Dhuvran		11,000	3 ph. A.C.
			3,300	3 ph. A.C.
			400	3 ph. A.C.
			230	1 ph. A.C.
	(b) Diesel Power Stations			
	1. Kothara			
	2. Rabpar			
	3. Mundra			
	4. Dhari			
	5. Surendranagar			
	6. Jamjodhpur			
	7. Bhanwad			
	8. Bagasara			
	9. Devgadhi Baria			
	10. Dwarka			
	11. Radhanpur			
	12. Deesa			
	13. Jasdai			
	14. Jamkhamholia			
	15. Nakhttana			
	16. Vijapur			
	17. Bhuj			
	18. Vallabha Vidyanagar			
	19. Mandvi			
	20. Gandvi			
	21. Savarkundla			
	22. Mehua			
	23. Ambaji			
	24. Dhoraji			
	25. Jamnagar			

GUJARAT—Contd.

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System & Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
		BOARD—contd.		
	26. Veraval 27. Palitana 28. Porbander 29. Lathi 30. Rajkot 31. Morvi 32. Botad 33. Rajula 34. Halvad 35. Rajpipla 36. Una			
	MUNICIPALITIES			
2	Baroda	The Electrical Engineer, Department of Electricity, Baroda Borough Municipality, Post Box No. 17, Baroda-1	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
3	Bhadran	The President, Bhadran Municipality, Bhadran	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
4	Jhalod	Jhalod Gram Panchayat, Jhalod Distt. Panchmahal	400 230	3 ph. A.C. 1 ph. A.C.
5	Karjan	The President, Karjan Municipality, Karjan	400 230	3 ph. A.C. 1 ph. A.C.
6	Nar	The Electrical Engineer, Nar Gram Panchayat, Nar (Via Anand)	400 230	3 ph. A.C. 1 ph. A.C.
7	Palanpur (Iqbal)	The Electrical Engineer, The Iqbal Electric Supply Municipal Power House, Palanpur	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
8	Patan	The Electrical Engineer, Patan Municipality Patan	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
9	Petlad	The Electrical Engineer, Petlad Municipality, Petlad	400 230	3 ph. A.C. 1 ph. A.C.
10	Sojitra	The President, Sojitra Nagar Panchayat, Sojitra	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
11	Vadnagar	The Chief Officer, Electricity Department, Vadnagar Municipality, Vadnagar	400 230	3 ph. A.C. 1 ph. A.C.
		COMPANIES		
12	Ahmedabad	The Ahmedabad Electricity Co., Electricity House, Lal Darwaja, Ahmedabad-1.	66,000 11,000 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
13	Anand	The Anand Electric Supply Co., Sonawala Buildings, 459, Apollo Street, Fort, Bombay-1	3,300 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
14	Bardoli	Shree Sardar Kheti Sahayak Sahakari Vidyut Mandal Ltd., Bardoli (District Surat).	3,300 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.

GUJARAT—Contd.

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
		COMPANIES—contd.		
15	Bulsar	The Amalgamated Electricity Co. Ltd. (Bulsar Branch), Post Box No. 879, 17-B, Horniman Circle, Bombay-1	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
16	Bilimora	The Bilimora Electric Power Supply Co. Ltd., Bilimora	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
17	Bhavnagar	The Bhavnagar Electricity Co. Ltd., P.O. Box No. 45, Bhavnagar	11,000 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
18	Broach	The Broach Electricity Supply & Development Corporation Esplanade Mansions, 144-146, Mahatma Gandhi Road, Fort, Bombay-1	3,300 400 220	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
19	Dabhoi	The Dabhoi Electric Supply Co. Dabhoi, District Baroda.	400 220	D.C. 3 Wire D.C. 2 Wire
20	Dakor Umreth	The Dakor-Umreth Electricity Co. Ltd., Dakor	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
21	Dohad	The Amalgamated Electricity Co. (Dohad Branch), P.O. Box No. 879, 17-B, Horniman Circle, Bombay-1	6,600 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
22	Godhra	The Godhra Electricity Co. Ltd., Power House, Godhra	3,300 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
23	Gandhidham	The Sindhu Resettlement Corporation Ltd., Power Supply Department, Adipur	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
24	Kapadwanj	The Kapadwanj Town Cooperative Electricity Association Ltd., Sardar Baug, Kapadwanj	22,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
25	Kholvad	The Kholvad Electric Supply Corporation, Kholvad (District Surat)	22,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
26	Lunawada	Lunawada Electric Supply Cooperative Society Ltd., Lunawada	400 230	3 ph. A.C. 1 ph. A.C.
27	Nadiad	The Nadiad Electric Supply Co. Ltd., Sonawala Building, 59 Apollo Street, Bombay-1	11,000 460 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
28	Rander	The Rander Electric Supply Co. Ltd., Lal Baug, Rander, District Surat	400 230	3 ph. A.C. 1 ph. A.C.
29	Sihor	The Sihor Electric Works Ltd., The Tapi Electric Supply & Industrial Co., Sihor	400 230	3 ph. A.C. 1 ph. A.C.
30	Surat	The Surat Electricity Co. Ltd., Central Administration Department, 5 Graham Road (4th floor), Ballard Estate (P.O. Box No. 199), Bombay-1	11,000 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.

GUJARAT—Contd.

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
COMPANIES—concl'd.				
31	Vallabh-Vidyanagar	Charotar Gramodhar Sahakari Mandal Ltd., Vallabh Vidyanagar, Distt. Kaira	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
32	Viramgam	The Viramgam Electric Supply Co. Mandal Road, Viramgam	11,000 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
33	Vyara-Kanpura	The Vyara-Kanpura Electric Supply Cooperative Society Ltd. Vyara, District Surat.	400 230	3 ph. A.C. 1 ph. A.C.
HARYANA BOARD				
1	Haryana State Electricity Board	Chief Accounts Officer, Haryana State Electri- city Board, Chandigarh	132,000 66,000 33,000 11,000 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
<i>Thermal Power Stations</i>				
1. Faridabad (New)				
2. Faridabad (Old)				
3. Surajpur				
4. Yamuna Nagar				
<i>Diesel Power Stations</i>				
1. Sonapat				
2. Panipat				
3. Ambala (New)				
4. Ambala (Old)				
5. Faridabad				
COMPANY				
1	Sirsa	The Sirsa Electric Supply Co. G/o Lal Chand Minda, Sirsa	3,300 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
JAMMU & KASHMIR				
1	Electricity Department J & K (a) <i>Hydro Power Stations</i>	The Chief Engineer, Electricity Department, Jammu & Kashmir, Jammu	66,000 33,000 11,000 6,600 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
1. Mohra				
2. Jammu				
3. Ganderbal				
4. Poonch				
5. Udhampur				

JAMMU & KASHMIR—Contd.

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
	(b) Diesel Power Stations 1. Cupwara 2. Barmulla 3. Ramnagar 4. Dargaon 5. Jammu 6. Bardoli			
KERALA BOARD				
1	Kerala State Electricity Board. (a) Hydro Power Stations 1. Neriampalam 2. Pallivasal 3. Poringalkuthu 4. Sengulam 5. Penniar 6. Sholayar 7. Sabirigiri (b) Diesel Power Stations 1. Pulluruthy	The Chief Engineer, Kerala State Electricity Board, P.O. Box No. 65, Trivandrum-1	220,000 110,000 66,000 33,000 22,000 11,000 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
MUNICIPALITY				
2	Trichur	The Commissioner, Trichur Municipality, Trichur	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
COMPANIES				
3	Ernakulam	The Cochin State Power Light Corporation Ltd., P. O. Box No. 156, National Insurance Building, Esplanade, Madras-1	11,000 6,600 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
4	Kottayam	The Kottayam Electric Supply Agency, Kottayam	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
5	Kannan Dewan Hill:	The Kannan Dewan Hills Produce Co. Ltd., Headquarters Office, Munnar	11,000 2,200 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
6	Mattencherry	The Cochin Electric Supply Co., Mattencherry, Cochin-1	6,600 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.

MADHYA PRADESH

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
1	Madhya Pradesh Electricity Board.	BOARD		
	(a) <i>Hydro Power Stations</i>	The Chief Engineer, Madhya Pradesh Electricity Board, P.O. Box No. 34, Rampur, Jabalpur	220,000 132,000 66,000 33,000 11,000 6,600 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
	1. Gandhisagar 2. Rana Pratap Sagar	The Superintending Engineer, M.P. Electricity Board, P.O. Gandhisagar Colony, Distt. Mand saur (M.P.)		
	(b) <i>Steam Power Stations</i>			
	1. Bhopal 2. Neapanagar 3. Indore 4. Amarkantak 5. Korba 6. Korba(200) 7. Satpura(Sarni)			
	(c) <i>Diesel Power Stations</i>			
	1. Jaishpurnagar 2. Harsud 3. Pendra Road 4. Pachmari 5. Ratlam 6. Gwalior 7. Burhampur			
		COMPANIES		
2	Dewas(Senior)	The Dewas (Senior) Electric Supply Co., Dewas Senior	3,300 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
3	Jubbulpur	The Jubbulpore Electric Supply Co. Ltd., Jubbulpore	33,000 11,000 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
4	Mandsaur	The Mandsaur Electric Supply Co., Mandsaur	3,300 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
5	Saugor	The Saugor Electric Supply Co., Saugor (M.P.)	3,300 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
6	Schore	The Schore Electric Supply Co. Private Ltd., Schore Cantt. (Bhopal)	400 230	3 ph. A.C. 1 ph. A.C.

MAHARASHTRA

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C or D.C. & Phases
1	2	3	4	5
		BOARD		
1	Maharashtra State Electricity Board			
	(a) <i>Hydra Power Stations</i>	The Chief Engineer, Maharashtra State Electricity Board, Mercantile Bank Building, Mahatma Gandhi Road, Fort, Bombay-1	220,000 132,000 110,000 66,000 33,000 22,000 11,000 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
	(b) <i>Steam Power Stations</i>			
	1. Bhatgarh 2. Radhanagri 3. Koyna 4. Purna			
	(c) <i>Nuclear Power Station</i>			
	6. Tarapur Project			
	(d) <i>Diesel Power Stations</i>			
	1. Aheri 2. Sirnucha 3. Dharnee 4. Nasik			
2	Chola Power Station	The Chief Electrical Engineer, Central Railway, Bombay V.T.	99,700 22,000 11,000 6,600 3,300 2,000 400 230 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C. D.C. 2 Wire
		MUNICIPALITIES		
3	Bombay	The Bombay Electric Supply and Transport Undertaking (Municipal Corporation), B.E.S.T. House, P.B. No. 192, Bombay-1	22,000 6,600 400 230 600 460 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C. D.C. 3 Wire D.C. 3 Wire D.C. 2 Wire
4	Karjat	Karjat Bhisgaon Panchayat, Karjat, District Kolaba	6,600 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
5	Kasara Gram Panchayat	Kasara Gram Panchayat Electricity Undertaking, Kasara	400 230	3 ph. A.C. 1 ph. A.C.

MAHARASHTRA—Contd.

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
MUNICIPALITIES—contd.				
6	Bombay Municipal Corporation	Bombay Municipal Corporation, Vaitarna-cum-Tansa, Street Domestic Colony, Vaitarnanagar	400 230	3 ph. A.C. 1 ph. A.C.
7	Raver	The Elect. Engineer, Raver Municipal Power House, Raver	400 230	3 ph. A.C. 1 ph. A.C.
8	Sangli	The Jubilee Electric Works (Sangli Nagarpalika Trust Property), Electric Power House, Sangli	11,000 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
9	Savantwadi	The Electrical Engineer, Savantwadi Municipality, Savantwadi	400 230	3 ph. A.C. 1 ph. A.C.
COMPANIES				
10	Ahmednagar	The Ahmednagar Electric Supply Co. Private Ltd., Power House, Station Road, Ahmednagar	11,000 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
11	Barsi	The General Engineering Corporation Ltd. (Barsi-Electric Supply), 60 Forbes Street, Temple Bazar Building, Fort, Bombay-1	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
12	Bassein	The Bassein Electric Supply Co. Ltd., Mehta House, Apollo Street, Fort, Bombay	3,300 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
13	Bhiwandi	The Bhiwandi Electric Co., Bhiwandi	22,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
14	Bhusawal	The Bhusawal Electricity Co. (Bhusawal Branch), Bhusawal (Maharashtra)	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
15	Bhor	Thopte Electric Supply Co. Pvt. Ltd. (Bhor Branch), Nana Bhavan, 1194/20, Ghole Road, Poona-4	2,200 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
16	Bombay Suburban	The Bombay Suburban Electric Supply Co. Ltd., Central Administration Dept., Graham Road (4th Floor), Ballard Estate, P.O. Box 109, Bombay-1	22,000 11,000 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
17	Chalisgaon	The Amalgamated Electricity Co. Ltd. (Chalisgaon Branch), Post Box No. 879, 17-B, Horniman Circle, Bombay-1	6,600 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
18	Dhond	The Dhond Electric Supply Co., Dhond	400 230	3 ph. A.C. 1 ph. A.C.
19	Ichalkaranji	The Ichalkaranji Electric Supply Co., Ichalkaranji (Dist. Satara)	400 230	3 ph. A.C. 1 ph. A.C.
20	Igatpuri	The Igatpuri Electric Supply Co., 15, Forbes Street, Fort, Bombay-1	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.

MAHARASHTRA—Contd.

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
COMPANIES—contd.				
21	Jalgaon	The Jalgaon Electricity Co., Jalgaon	11,000 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
22	Junnar	The Junnar Electric & Water Supply Co. Ltd., 'Nana Bhavan' 1194/20, Ghole Road, Poona-4	2,200 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
23	Karad	The Karad Electric Supply Co. Private Ltd., Karad	11000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
24	Kurundwad	The Kurundwad Electric Supply Co. Ltd., Kurundwad (Distt. Kolhapur)	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
25	Koregaon	The Allied Electric Agencies Private Ltd., Power House, Koregaon (North Satara)	400 230	3 ph. A.C. 1 ph. A.C.
26	Karmala	The Karmala Electric Supply Co., Station Road, Pandharpur	400 230	3 ph. A.C. 1 ph. A.C.
27	Lonavala-Khandala	The Lonavala Khandala Electric Supply Co. Ltd., Lonavala	6,600 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
28	Lasalgaon	The Lasalgaon Cooperative Elec. Supply Society Ltd., Lasalgaon, Distt. Nasik	400 230	3 ph. A.C. 1 ph. A.C.
29	Madhavnagar	The Madhavnagar Electric Supply Co. Ltd., Madhavnagar	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
30	Mahad	The Mahad Electric Supply Co. Ltd., Mahad (Distt. Kolaba)	400 230	3 ph. A.C. 1 ph. A.C.
31	Malegaon	The Amalgamated Electricity Co. Ltd. (Malegaon Branch), P. Box No. 879, 17-B, Horniman Circle, Fort, Bombay-1	6,600 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
32	Matheran	The Matheran Electric Supply Co. Ltd., Mehta House, Applo Street, Fort, Bombay-1	400 230	3 ph. A.C. 1 ph. A.C.
33	Miraj	The Miraj Electric Supply Co. Ltd., Miraj (South Satara)	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
34	Nagpur	The Nagpur Electric Light and Power Co. Ltd., Civil Lines, Post Box No. 2, Nagpur	11,000 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
35	Nasarapur	The Nasarapur Electric Supply Co. Ltd. Prop. N.S. Chakke, 649 Shanwar Peth, Poona-2	400 230	3 ph. A.C. 1 ph. A.C.
36	Nira Lonand	The Nira-Lonand Electric Supply Co. 'Nana Bhavan', 1194/20, Ghole Road, Poona-4	22,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.

MAHARASHTRA—*Concl'd.*

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
COMPANIES—<i>concl'd.</i>				
37	Pandharpur	The Pandharpur Electric Supply Co., Station Road, Pandharpur	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
38	Panvel-Taluka	The Panvel Taluka Electrical Development Co. Ltd., Kesar Baug, Panvel	6,600 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
39	Sailu	The Proprietor, Sailu Elec. Supply Co., Sailu (Central Railway), Distt. Parbhani	400 230	3 ph. A.C. 1 ph. A.C.
40	Sangamner	The Sangamner Electric Supply Co. Ltd., Sangamner, Distt. Ahmednagar	400 230	3 ph. A.C. 1 ph. A.C.
41	Satara	The Satara Electric Supply Co. Private Ltd., 217, Pratapganj Peth, Satara City	3,300 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
42	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. 3 ph. A.C. 3 ph. A.C.
43	Tasgaon	The Tasgaon Electricity General Cooperative Society Ltd., Tasgaon (District Satara)	400 230	3 ph. A.C. 1 ph. A.C.
44	Thana	The Thana Electric Supply Co. Private Ltd., Court House, (4th Floor), Carnac Road, Dhobi Talao, Bombay	11,000 6,600 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
45	Vita	The Co-operative Electric Supply Society Ltd., Vita (South Satara)	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
MYSORE				
1	Hydro Electric Construction Project, Government of Mysore	The Chief Engineer, Hydro Electric Construction Projects, Post Bag No. 360, Race Course, Cross Road, Bangalore-9	220,000 66,000 11,000	3 ph. A.C. 3 ph. A.C. 3 ph. A.C.
	<i>Hydro Power Stations</i>			
	1. Bhadra			
	2. Sharavathi			
BOARD				
2	Mysore State Electricity Board			
	<i>(a) Hydro Power Stations</i>		220,000 110,000 66,000 33,000 22,000 11,000 6,600 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
	1. Jog			
	2. Munnirabad			
	3. Sivasamundram			
	4. Shimashapura			
	<i>(b) Thermal Power Stations</i>			
	1. Gas turbine, Bangalore			

MYSORE—Contd.

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A. C. or D.C. & Phases
1	2	3	4	5
		BOARD—Contd.		
	(c) Diesel Power Stations	The Chief Engineer (Electricity), Mysore State Electricity (General) Board, Post Box No. 315, Bangalore-1		
		COMPANIES		
3	Bagalkot	Shri Venkatesh Power Works Ltd., Bagalkot Mysore	400 230	3 ph. A.C. 1 ph. A.C.
4	Belgaum	The Belgaum Electricity Co. Ltd., P. B. No. 26, Opposite Railway Station, Belgaum, Mysore	11,000 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
5	Byadgi	M/s. Manvi Brothers Electric Light & Power Suppliers, Gadag, Distt. Dharwar	400 230	3 ph. A.C. 1 ph. A.C.
6	Gadag	M/s. Manvi Brothers, Elec. Light & Power Suppliers, Gadag, Distt. Dharwar	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
7	Haveri	M/s. Manvi Brothers, Elec. Light & Power Suppliers, Gadag, Distt. Dharwar	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
8	Karwar	The Karwar Electric Supply & Trading Co. Ltd., Karwar	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
9	Nipani	The Nipani Electricity Co. Private Ltd., Dharwar, Nipani, Distt. Belgaum	400 230	3 ph. A.C. 1 ph. A.C.
10	Ranebenur	M/s. Manvi Brothers Elec. Light & Power Suppliers, Gadag, Distt. Dharwar	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
11	Sirsi	The Kanara Electric Supply Co. Ltd., Sirsa (North Kanara)	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
		NAGALAND		
	Nagaland			
1	Dimapur	The Executive Engineer, Kohima Electrical Division, Kohima (Nagaland)	11,000 400	3 ph. A.C. 3 ph. A.C.
2	Kohima		230	1 ph. A.C.
3	Mokchung			
4	Mon			
5	Tuensang			
6	Wokha			
7	Zumkehota			
8	Chazuba			
9	Tsciminya			

MYSORE—*Contd.*

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
10	Satakha			
11	Agenata			
12	Longkhin			
13	Peren			
14	Ptutsero			
15	Phek			
ORISSA				
1	<i>Steam Power Station</i> Talcher Thermal Power Station	The Additional Chief Engineer, Electricity, Electrical Projects, Orissa	220,000 132,000	3 ph. A.C. 3 ph. A.C.
BOARD				
2	Orissa State Electricity Board (a) <i>Hydro Power Stations</i> 1. Hirakud I 2. Hirakud II 3. Deogarh (b) <i>Steam Power Stations</i> 1. Jobra 2. Choudhwar (c) <i>Diesel Power Houses</i> 1. Athamlic 2. Baliguda 3. Rourkhole 4. Deogarh 5. Boudha 6. Padampur 7. G. Udayagiri 8. Phulbani 9. Khariaroad	The Chief Engineer, Orissa State Electricity Board, Bhubaneswar.	132,000 66,000 33,000 11,000 6,600 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
PUNJAB				
1	Bhakra Management Board <i>Hydro Power Stations</i> 1. Bhakra Right Bank 2. Bhakra Left Bank 3. Ganguwal 4. Kotla	The Member (Power) Works Section, Bhakra Management Board, Patiala (Punjab).	220,000 132,000 66,000 33,000 11,000 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.

RAJASTHAN—Contd.

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
		BOARD—contd.		
	6. Partapgarh 7. Kotoh 8. Deedwana 9. Kankroli 10. Baren 11. Deoli 12. Balotra 13. Todabhim 14. Shahpura 15. Chhabra 16. Jhalawar 17. Kegri 18. Serohi 19. Jalore 20. Nagaur 21. Bundi 22. Phalodi 23. Sikar 24. Rajgarh 25. Sumerpur 26. Jaiselmer 27. Bhinmul 28. Karauli 29. Barmee 30. Tonk 31. Nawai 32. Malpura 33. Banswara 34. Reodar 35. Dungepur 36. Dholpur 37. Pali 38. Sagwara 39. Bhilwara			
		COMPANIES		
1	Mount Abu	The Mount Abu Electric Supply Co., Mount Abu	400 230	3 ph. A.C. 3 ph. A.C.
2	Abu Road	The Aburoad Electricity & Industries Company Ltd., Abu Road	400 230	3 ph. A.C. 3 ph. A.C.
3	Ajmer	The Ajmer Elec. Co. Ltd., P.O. Box No. 43, Jaipur Road, Ajmer (W. Rly.)	11,000 6,600 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C.
4	Udaipur	The Maharana Bhupal Electric Supply Co. Ltd., Near Sajjan Niwas Garden, Udaipur, Rajasthan.	11,000 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C.
		TAMIL NADU		
		BOARD		
1	Tamil nadu State Electricity Board (a) <i>Hydro Power Stations</i> 1. Kundah-I 2. Kundah-II 3. Kundah-III	The Chief Engineer, Electricity, Madras State Electricity Board, 157, Mount Road, Tamil Nadu	230,000 110,000 66,000	3 ph. A.C. 3 ph. A.C. 3 ph. A.C.

TAMIL NADU—Contd.

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
		BOARD—contd.		
	4. Kundah-IV 5. Kundah-V 6. Papanasam 7. Moyar 8. Mettur Dam 9. Mettur Tunnel 10. Pykara 11. Periyar 12. Sarkarpathy 13. Aliyar		33,000 22,000 11,000 6,600 5,000 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
	(b) Steam Power Stations 1. Madurai 2. Basin Bridge 3. Ennore			
		GOVERNMENT UNDERTAKING		
2	Neyveli Lignite Corporation Ltd.	The Deputy General Manager (Tech. & Works), Neyveli Lignite Corporation Ltd., Office of the Managing Director Technical & Works Branch Administrative Officers, Block-1, Neyveli-1	220,000 110,000 11,000	3 ph. A.C. 3 ph. A.C. 3 ph. A.C.
		MUNICIPALITIES		
3	Goimbatore	The Commissioner, Goimbatore Municipality, Goimbatore	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
4	Karur	The Commissioner, Karur Municipality, Karur, District Tiruchirapally	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
5	Madurai	The Commissioner, Madurai Municipality, Madurai	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
6	Pollachi	The Commissioner, Pollachi Municipality, Pollachi	22,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
7	Thanjavur	The Commissioner, Thanjavur Municipality, Thanjavur	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
		COMPANIES		
8	Kumbakonam	The Kumbakonam Electric Supply Corporation Ltd., Oriental Buildings, Armenian Street, Madras-1	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
9	Mayawaram Mannargudi	The South Madras Electric Supply Corporation Ltd., Post Box No. 67, Tiruchirapally	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
10	Nagapatam	The Nagapatam Electric Supply Co. Ltd., Oriental Buildings, Armenian Street, Madras-1	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.

UTTAR PRADESH—Contd.

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
		BOARD—Contd.		
	3. Mainpuri 4. Allahabad 5. Mau 6. Gorakhpur 7. Chandausi 8. Faizabad 9. Harduaganj (old) 10. Lucknow 11. Harduaganj (new) 12. Muradnagar Gas Turbine 13. Harduaganj(Extn.) 14. Panki (Kanpur Extn.) 15. Obra 16. Kanpur		33,000 11,000 6,600 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
	<i>(c) Diesel Power Stations</i>			
	1. Laktar 2. Chamoli 3. Pithorgarh 4. Joshimath 5. Tehri 6. Tundla 7. Palra 8. Pauri 9. Saharanpur 10. Matatila 11. Gorakhpur City 12. Muradabad 13. Sohwal 14. Mainpuri 15. Meerut 16. Jhansi 17. Lohia Head 18. Shahjahanpur 19. Gorakhpur 20. Nib-Karori 21. Aligarh 22. Dhakrani 23. Kalagarh 24. Damogh 25. Sultanpur 26. Baharaich 27. Ghaziabad		220,000 132,000 66,000 44,000 33,000 22,000 11,000 6,600 3,300	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C.
		MUNICIPALITIES		
2	Almora	The Electrical and Water Works Engineer, Municipal Board, Almora	400 230	3 ph. A.C. 1 ph. A.C.
3	Haldwani	The Electrical and Municipal Engineer, Muni- cipal Board, Haldwani-cum-Kathgodam, Hald- wani	3,300 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
4	Hardwar	The Electrical and Water Works Engineer, Mu- nicipal Board, Hardwar Union, Hardwar	400 230	3 ph. A.C. 1 ph. A.C.

UTTAR PRADESH—Contd.

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
MUNICIPALITIES—Contd.				
5	Kasganj	The Electrical Engineer, Municipal Electric Supply, Kasganj	400 230	3 ph. A.C. 1 ph. A.C.
6	Khurja	The Electrical Engineer, Municipal Electric Supply, Municipal Board, Khurja	400 230	3 ph. A.C. 1 ph. A.C.
7	Lalitpur	The Municipal Electric Supply Undertaking, Lalitpur	400 230	3 ph. A.C. 1 ph. A.C.
8	Meerut	The Electrical Engineer, Municipal Board, Meerut	400 230	3 ph. A.C. 1 ph. A.C.
9	Muzaffarnagar	The Electrical Engineer, Municipal Board, Muzaffarnagar	400 230	3 ph. A.C. 1 ph. A.C.
10	Mussoorie	The President, Mussoorie Dehra Hydro Electric Undertaking, City Board, Mussoorie	6,600 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
11	Nainital	The Electrical & Mechanical Engineer, Municipal Board, Nainital	380 230	3 ph. A.C. 1 ph. A.C.
12	Roorkee	The President, Municipal Board, Roorkee	400 230	3 ph. A.C. 1 ph. A.C.
13	Rishikesh	The President, Municipal Board, Rishikesh	400 230	3 ph. A.C. 1 ph. A.C.
14	Unnao	The Electrical & Water Works Engineer, Municipal Board, Unnao	400 230	3 ph. A.C. 1 ph. A.C.
COMPANIES				
15	Aligarh	The Aligarh Electric Supply Co. Ltd., Udai Singh Jain Road, Mathura	11,000 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
16	Agra	The Agra Electric Supply Co. Ltd., 200, Gwalior Road, Agra (U.P.)	11,000 6,600 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
17	Banaras	The Banaras Electric Light & Power Co. Ltd., Bhelupura, Varanasi (U.P.)	33,000 11,000 6,600 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
18	Bareilly	The Bareilly Electric Supply Co. Ltd., Bareilly (U.P.)	33,000 11,000 6,600 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
19	Budaun	The Kishore Electric Supply Corporation, Budaun	3,300 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.

UTTAR PRADESH—Concl'd.

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
COMPANIES—Contd.				
20	Etawah	The Western United Provinces Electric Power and Supply Co. Ltd., 1379, Sultan Singh Building, P.B. No. 1097, Kashmere Gate, Delhi-6.	37,500 11,000 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
21	Farrukhabad	The Farrukhabad Electric Supply Co. Ltd., Fategarh.	3,300 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
22	Faizabad	The Faizabad Electric Licensee (1933) C/o The British Insulated Calenders Cables Ltd., 116, Station Road, Faizabad.	400 230	3 ph. A.C. 1 ph. A.C.
23	Jaunpur	The Jaunpur Electric Licensees (1934) C/o The British Insulated Calenders Cables Ltd., Jaunpur.	3,300 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
24	Kosikalan	The Kosi Electric Supply Co., Kosikalan, Distt. Mathura.	400 230	3 ph. A.C. 1 ph. A.C.
25	Mathura	The Resident Engineer, The Mathura Electric Supply Co. Ltd., Mathura.	3,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
26	Mirzapur	The Mirzapur Electric Supply Co. Ltd., Mirzapur.	3,300 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
27	Pilibhit	The Pilibhit Electric Supply Co., Pilibhit.	400 230	3 ph. A.C. 1 ph. A.C.
28	Rai Bareilly, Pratapgarh, Sultanpur, Bachrawan, Maharajganj, Salon & Jais.	The Commercial Officer, the Rohtak and Hissar Districts Electric Supply Co. Ltd., 5, Prayag Street, Allahabad-2.	400 230	3 ph. A.C. 1 ph. A.C.
29	Sadabad	The Sadabad Electric Supply Co., Sadabad (Mathura).	400 230	3 ph. A.C. 1 ph. A.C.
30	Saharanpur	The Saharanpur Electric Supply Co. Ltd., Ramnagar (Pathanpura Street), P.B. No. 16, Saharanpur.	400 230 440 220	3 ph. A.C. 1 ph. A.C. D.C. 3 Wire D.C. 2 Wire
31	Shahajahanpur	The Shahajahanpur Electric Supply Co. Ltd., 14, Old Court House Street, P.B. No. 51, Calcutta.	3,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
WEST BENGAL				
BOARD				
1	West Bengal State Electricity Board.			
	(a) Hydro Power Stations			
	1. Bijanbari			
	2. Kurseong			
	3. Jaldhaka			

WEST BENGAL—Contd.

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
		BOARD—Contd.		
	(b) <i>Steam Power Stations</i>			
	1. Farakka Packaged Plant	The Chief Engineer, West Bengal State Electricity Board, 48/1 Diamond Harbour Road, Calcutta-27.	220,000	3 ph. A.C.
	2. Dishergarh Packaged Plant		132,000	3 ph. A.C.
	3. Gourepore		66,000	3 ph. A.C.
	4. Bandel		33,000	3 ph. A.C.
			22,000	3 ph. A.C.
			11,000	3 ph. A.C.
			6,600	3 ph. A.C.
			2,200	3 ph. A.C.
			400	3 ph. A.C.
			230	1 ph. A.C.
	(c) <i>Diesel Power Stations</i>			
	1. Mal			
	2. Haldibari			
	3. Birpara			
	4. Mathabhanga			
	5. Changrabandha			
	6. Balurghat			
	7. Raiganj			
	8. Malda			
	9. Siliguri			
	10. Gooch Behar			
	11. C.D.S. Malda]			
2	Govt. of West Bengal, Massanjore Hydel Power Station.	The Assistant Engineer, Massanjore Hydel Power Station, P.O. Massanjore, Distt. Santhal Parganas.	33,000 11,000	3 ph. A.C. 3 ph. A.C.
3	Durgapur Projects Limited (A Govt. of West Bengal Undertaking).	Manager, Power Plant Deptt., The Durgapur Projects Limited, 10, Middleton Road, Calcutta-16.	132,000 11,000 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
		MUNICIPALITIES		
4	Darjeeling	The Chairman, Darjeeling Municipality Electrical Department, Darjeeling.	6,600 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
		COMPANIES		
5	Andul Mouri	The National Power Supply Corporation Ltd., (Andul Mouri Branch), 23-B Allenby Road, Calcutta-20.	400 230	3 ph. A.C. 1 ph. A.C.
6	Asansol	The Asansol Electric Supply Co. Ltd., G. T. Road, Asansol.	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
7	Bankura	The West Bengal Power Supply Co. Ltd., National Tobacco Building, 1 & 2, Old Court House Corner, Calcutta-1.	3,300 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
8	Bansberia	The East India Electric Supply & Traction Co. Ltd., 3, Jogendra Kaviraj Row, Calcutta.	6,600 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
9	Barakar	The Barakar Electric Supply Co., P.O. Bharkar, District Burdwan.	3,300 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.

WEST BENGAL—Contd.

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
		COMPANIES—contd.		
10	Berhampur	The Berhampur Electric Supply Co. Ltd., Berhampur, P.O. Khagra, Distt. Murshidabad.	11,000 400 230 440 220	3 ph. A.C. 3 ph. A.C. 1 ph. A.C. D.C. 3 Wire D.C. 2 Wire
11	Bhatpara	The Riverside (Bhatpara) Electric Supply Co. (P) Ltd., 135, Prinsep Street, Calcutta-13.	11,000 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
12	Bongaon	The Bongaon Electric Supply Co. Ltd., 135, Canning Street, Calcutta-1.	400 230	3 ph. A.C. 1 ph. A.C.
13	Chandernagore	The Chandernagore Electric Supply Co. (P) Ltd. 20, Park Street, Calcutta-16.	6,600 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
14	Calcutta	The Calcutta Electric Supply Corporation Ltd., Poddar Court, 18, Rabindra Sarani, Calcutta-1.	132,000 33,000 22,000 6,600 3,300 400 230 450 225	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C. D.C. 3 Wire D.C. 2 Wire
15	Dishergarh	The Dishergarh Power Supply Co. Ltd., Central Office, Sanctoria, P.O. Dishergarh, District Burdwan.	11,000 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
16	Hooghly Chinsura	The East India Electric Supply and Traction Co. Ltd., 3, Jogendra Kaviraj Row, Calcutta.	6,600 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
17	Jalpaiguri	The Jalpaiguri Electric Supply Co. Ltd., Kent House, 14, Ganesh Gh. Avenue, Calcutta-13.	400 230	3 ph. A.C. 1 ph. A.C.
18	Jamuria	The Jamuria Electric Supply Co., G.T. Road, Asansol.	400 230	3 ph. A.C. 1 ph. A.C.
19	Kalimpong	The Kalimpong Electric Supply Co. Ltd., 16 Ganesh Gh. Avenue, Calcutta-13.	400 230	3 ph. A.C. 1 ph. A.C.
20	Krishnagar	The West Bengal Power Supply Co., Norton Buildings, 1 & 2 Old Court House Corner, Calcutta.	11,000 6,600 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
21	Midnapur	The West Bengal Power Supply Co. Ltd., National Tobacco Building, 1 & 2, Old Court House Corner, Calcutta.	3,300 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
22	Nabadwip	The West Bengal Power Supply Co. Ltd., National Tobacco Building, 1 & 2, Old Court House Corner, Calcutta.	11,000 6,600 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
23	Naihati	The National Electric Supply Co. Ltd., Bowbazar Street, Calcutta-12.	6,600 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.

WEST BENGAL—Contd.

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
COMPANIES—Contd.				
24	Purulia	The Purulia Electric Supply Co. Ltd., Purulia.	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
25	Rancegunj	The Rancegunj Electric Supply Co. Ltd., Western Block, 1st Floor, 40-1, Mahatma Gandhi Road, Calcutta-9.	22,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
26	Seebpore	Associated Power Co. Ltd., (Seebpore Power House) Central Office, Sanctoria, P. O. Dishergarh, Distt. Burdwan.	11,000 33,00 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
27	Tarakeshwar	The Tarakeshwar Electric Supply Co. Ltd., 9, Lalbazar Street, Calcutta-1.	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
28	Vishnupur	The Vishnupur Electric Supply & Industrial Development Co. Ltd., 23-B, Allenby Road, Calcutta-20.	400 230	3 ph. A.C. 1 ph. A.C.
UNION TERRITORIES GOVERNMENTS				
DELHI				
1	Delhi Electric Supply Undertaking.	The Chief Engineer, Delhi Electric Supply Undertaking, (Municipal Corporation of Delhi), Central Power House, Rajghat, P.O. Box No.589, New Delhi.	33,000 11,000 6,600 400 230 500 250	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C. D.C. 3 Wire D.C. 2 Wire
<i>(a) Steam Power Stations</i>				
1. Chandrawal				
2. Inderprastha				
3. Inderprastha(Extn.)				
4. Rajghat				
<i>(b) Diesel Power Stations</i>				
1. Rajghat				
2. Lahorigate				
3. Kilokeyi				
2	New Delhi Municipal Committee.	The Electrical Engineer, Electricity Department New Delhi Municipal Committee, New Delhi.	11,000 6,600 400 230 440 220	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C. D.C. 3 Wire D.C. 2 Wire
ANDAMAN & NICOBAR ISLANDS				
Government of Andaman & Nicobar Islands, Port Blair.			6,600 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
<i>(a) Steam Power Station</i>				
Chatham				

UNION TERRITORIES GOVERNMENTS—Contd.

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
		ANDAMAN & NICOBAR ISLANDS—Contd.		
	(b) Diesel Power Stations			
	1. Chatham 2. Rangat 3. Mayabam			
	Government of Goa, Daman & Diu.	The Chief Electrical Engineer, Government of Goa, Daman & Diu, First Floor "Ashirvad" Rua Herois de Dadra Panaji, Goa.	110,000 33,000 11,000 3,300 400 230 460 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C. D.C. 3 Wire D.C. 3 Wire D.C. 2 Wire
	Diesel Power Stations			
	1. Div 2. Ponda 3. Carcharam 4. Daman 5. Mapuca 6. Margao 7. Panjim 8. Sanvordem			
		COMPANY		
	Chowgule	Chowgule & Co. Ltd., Mechanical Ore Hand- ling Division, Plant Office Berth No. VII, Mormugoa Harbour (Goa).	3,300	3 ph. A.C.
		DADRA & NAGAR HAVELI		
	Government of Dadra & Nagar Haveli.	The Executive Engineer, Dadra & Nagar Haveli, P.W.D. Silvassa.	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
		HIMACHAL PRADESH		
	Government of Himachal Pradesh.			
	(a) Hydro Power Stations			
		The Chief Engineer, Department of Multipur- pose Projects and Power, Himachal Pradesh Government, Kennedy Cottage, Simla-4.	66,000 33,000 22,000 11,000 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
	1. Chailla 2. Bharmour 3. Chamba 4. Nogli 5. Shansha 6. Keylong 7. Jubbal 8. Belling Nullah			
	(b) Diesel Power Stations			
	1. Bharmour 2. Rampur 3. Theog 4. Solan			

UNION TERRITORIES GOVERNMENTS—Contd.

Sl. No.	Name of the Undertaking/ Power Station	Address of Undertaking	System of Supply	
			Voltage	A.C. or D.C. & Phases
1	2	3	4	5
		HIMACHAL PRADESH—Contd.		
	5. Kasouli 6. Dalhousie 7. Kandaghat			
	Simla	MUNICIPALITY		
		The Chief Electrical Engineer, Municipal Committee, Simla-1.	11,000 2,200 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
		LACCADIVES, MINICOY ISLANDS		
	Government of Laccadives, Minicoy	The Executive Engineer, P.W.D., Union Territory of Laccadives, Kavarathi (Via) H.P.O. Calicut.	400 230	3 ph. A.C. 1 ph. A.C.
	<i>Diesel Power Stations.</i>			
	1. Minicoy Island Power House.			
	2. Kavarathi Island Power House.			
	3. Amin Island Power House.			
	4. Androth Island Power House.			
	5. Kalpeni Power House.			
	6. Agatti Power House.			
		MANIPUR		
	Government of Manipur	The Principal Engineer, Manipur Government P.W.D. Imphal.	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
	(a) <i>Hydro Power Station</i> Leinokhong			
	(b) <i>Diesel Power Stations</i>			
	1. Moreh			
	2. Thoubal			
	3. Jiribam			
	4. Moirang			
	5. Ukhrul			
	6. Imphal			
	7. Mao			
		PONDICHERRY		
	Government of Pondicherry	The Director of Electricity, Electricity Department, Pondicherry.	22,000 11,000 3,300 400 230	3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
		TRIPURA		
	Government of Tripura	The Superintending Engineer, Tripura Electrical Circle, Agartala (Tripura).	11,000 400 230	3 ph. A.C. 3 ph. A.C. 1 ph. A.C.
	<i>Diesel Power Stations</i>			
	1. Khowai			
	2. Kailashwar			
	3. Udaipur			
	4. Dharam Nagar			
	5. Agartala			
	6. Ambassa			
	7. Bagaffa			

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