



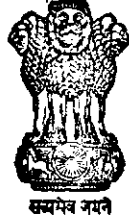
सत्यमेव जयते

GOVERNMENT OF INDIA
MINISTRY OF ENERGY
DEPARTMENT OF POWER
CENTRAL ELECTRICITY AUTHORITY

**PUBLIC ELECTRICITY SUPPLY
ALL INDIA STATISTICS
1978-79**

GENERAL REVIEW

COMPILED BY COMMERCIAL DIRECTORATE
CENTRAL ELECTRICITY AUTHORITY NEW DELHI



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FOREWORD

Public Electricity Supply All India Statistics General Review is being published annually by the Central Electricity Authority. This publication presents, in a summarised form, the salient features of the progress and development of electricity supply industry in the Indian Union. In the previous year's publication, a slight modification in tables, presenting regionwise data and giving data for various aspects under different sections, was made which was well-appreciated by the various authorities. The pattern followed this year is broadly the same as in the last year except the financial statistics, which was covered hitherto, has not been published since a separate publication for the financial statistics will be brought out later.

The Central Electricity Authority is grateful to the various Governments of the States, Union-Territories, State Electricity Boards and other Electricity Supply Authorities—both in the public and the private sectors—for the supply of essential data for the compilation of this publication.

Since 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 for a particular year, it is necessary that it is brought out well in time. This could not be achieved mainly due to delay in receipt of data from some of the Boards. While efforts are being made to obtain data in time, the co-operation of Electricity Supply Undertakings, both in the public and private sectors, is solicited in ensuring that complete statistical details regarding their Undertakings are made available in time to the Authority. It may not be out of context to mention that in some cases, the data supplied was inadequate and found to be inconsistent with the figures furnished for the previous year. In such cases approximate computation had to be resorted to in order to avoid further delay in publication.

Every effort has been made to ensure accuracy of the material in the publication but Central Electricity Authority does not accept any responsibility for any errors or omissions which might have crept in this publication. Suggestions for improvement in the contents of the General Review are welcome. The Authority records appreciation of the work done by the Officers and the Staff of the Commercial Directorate in compilation of this comprehensive publication.

December, 1980.
NEW DELHI.

S. N. ROY
Chairman
Central Electricity Authority

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SECTION-I
ORGANISATIONAL STRUCTURE OF ELECTRICITY—SUPPLY
INDUSTRY IN INDIA

ORGANISATION

Under the constitution of India, Electricity figures in the concurrent list and presently most of the activities relating to electricity generation, operation and distribution fall within the purview of States/U.Ts, 18 State Electricity Boards have so far been established under the Electricity (Supply) Act, 1948. Apart from these State Electricity Boards, there are Electricity Departments of Government in remaining States and Union Territories. Private/Municipal Licensees are also engaged in generation & distribution of Electricity in their licensee area. In all there are 34 Private Licensees and 18 Municipal Licensees. Of the 5 generating private licensees there are three major licensees viz, Tata Electric Companies, Calcutta Electric Supply Corporation and Ahmedabad Electricity Supply Company which together account for 98.63 % of generation & 76.07 % energy sales to consumers by the whole Private Sector.

Central Generating Companies are also emerging on the power scene with the establishment of NTPC, NHPC for construction & operation of Power Stations in such a way as to eradicate power imbalance on Regional and National basis.

For the upliftment of rural masses, rural co-operatives are being setup in the country. During the year under review 3 new rural co-operatives were set up for distribution of electricity to rural masses. Out of the total 34 Private Licensees, there were 15 co-operative societies during the year 1978-79.

The number of State Electricity Boards, Undertakings and Licensees are shown in tables in this section.

TABLE NO. 1

Names of State Electricity Boards established under Section 5 of the Electricity Supply Act, 1948

Sl. No.	Name of the State	Name of the State Electricity Board	Date of Establishment
<i>Northern Region</i>			
1.	Haryana	Haryana State E.B., Chandigarh	3-5-1967
2.	Himachal Pradesh	Himachal Pradesh S.E.B., Simla	31-8-1971
3.	Jammu & Kashmir	Jammu & Kashmir SEB, Jammu/Srinagar	5-9-1972
4.	Punjab	Punjab SEB, Patiala	3-5-1967
5.	Rajasthan	Rajasthan SEB, Jaipur	1-7-1957
6.	Uttar Pradesh	Uttar Pradesh SEB, Lucknow	1-4-1959
<i>Western Region</i>			
7.	Gujarat	Gujarat Electricity Board, Baroda	1-5-1960
8.	Madhya Pradesh	Madhya Pradesh E.B., Jabalpur	1-4-1957
9.	Maharashtra	Maharashtra SEB, Bombay	20-6-1960
<i>Southern Region</i>			
10.	Andhra Pradesh	Andhra Pradesh SEB, Hyderabad	1-4-1959
11.	Karnataka	Karnataka E.B., Bangalore	30-9-1957
12.	Kerala	Kerala SEB, Trivandrum	31-3-1957
13.	Tamil Nadu	Tamil Nadu Electy. Board, Madras	1-7-1957
<i>Eastern Region</i>			
14.	Bihar	Bihar SEB, Patna	1-4-1958
15.	Orissa	Orissa SEB, Bhubaneshwar	1-3-1961
16.	West Bengal	West Bengal SEB, Calcutta	1-5-1956
<i>North Eastern Region</i>			
17.	Assam	Assam SEB, Gauhati	1-6-1958
18.	Meghalaya	Meghalaya SEB, Shillong	21-1-1975

S.E.B. = State Electricity Board.

TABLE NO. 2

Names of Generating companies, power corporations, management boards under central or joint state partnership for meeting regional power requirements and electricity departments of government of various States/ U.Ts.

Sl.No.	Name	Location of H.Q.	Ownership
<i>(A) Generating Undertakings:</i>			
1.	National Thermal Power Corporation	New Delhi	Central Government
2.	National Hydro Electric Power Corporation	New Delhi	Central Government
3.	North Eastern Electric Power Corporation Ltd. (NEEPCO)	Shillong	Central Government
4.	Atomic Power Authority	Bombay	Central Government
5.	Central Railways, Chola	Bombay	Central Government
6.	Neyveli Lignite Corporation	Neyveli	Central Government
7.	Beas Dam Talwara . . . . .	..	Central Government
8.	Damodar Valley Corporation	Calcutta	Central Government
9.	Mysore Power Corporation	Bangalore	Karnataka Government
10.	Balimela Generation Division	Bhubaneswar	Orissa Government
11.	Bhakra Beas Management Board	Chandigarh	Punjab, Haryana and Rajasthan Governments.
12.	Machkund Hydro Electric Project . . . . .	..	Andhra/Orissa Governments
13.	Tungabhadra Hydro Electric Project . . . . .	..	Andhra/Karnataka Governments
<i>(B) State Electricity Departments :</i>			
1.	Manipur State	Imphal	State Government
2.	Nagaland State	Kohima	State Government
3.	Sikkim	Gangtok	State Government
4.	Tripura	Agartala	State Government
<i>(C) Union Territories :</i>			
1.	Andaman & Nicobar Islands	Port Blair	} Electricity Deptt. of U.T
2.	Arunachal Pradesh	Itanagar	
3.	Chandigarh	Chandigarh	
4.	Dadra & Nagar Haveli*	Silvassa	
5.	Goa, Daman & Diu*	Panaji	
6.	Lakshadweep	Cochin	
7.	Mizoram	Aizawal	
8.	Pondicherry*	Pondicherry	

*Non-Generating Undertakings.

TABLE NO. 3

Distribution of licensees undertaking (1) generating & distributing, (2) generating, purchasing & distributing, (3) purchasing & distributing

Sl.No.	Region/State	Generating and Distributing	Number of Companies		Total
			Generating, Purchasing & Distributing	Purchasing and Distributing	
<i>(A) Northern Region :</i>					
1.	Rajasthan . . . . .	..	..	1	1
2.	Uttar Pradesh . . . . .	..	..	1	1
TOTAL NORTHERN REGION . . . . .		..	..	2	2
<i>(B) Western Region :</i>					
1.	Gujarat . . . . .	..	1	3	4
2.	Madhya Pradesh . . . . .	..	..	2	2
3.	Maharashtra . . . . .	..	1	10	11
TOTAL WESTERN REGION . . . . .		..	2	15	17
<i>(C) Southern Region :</i>					
1.	Andhra Pradesh . . . . .	..	..	3	3
2.	Karnataka . . . . .	..	..	1	1
3.	Kerala . . . . .	..	..	2	2
TOTAL SOUTHERN REGION . . . . .		..	..	6	6
<i>(D) Eastern Region :</i>					
1.	Bihar . . . . .	..	..	1	1
2.	Orissa . . . . .	..	..	1	1
3.	West Bengal . . . . .	..	3	4	7
TOTAL EASTERN REGION . . . . .		..	3	6	9
<i>(E) North Eastern Region :</i>					
TOTAL (ALL INDIA) . . . . .		..	5	29	34

TABLE NO. 4

Distribution of Municipal Undertakings

Sl.No.	Region/State	Numbers of Municipalities			Total
		Generating and Distributing	Generating, Distributing & Purchasing	Purchasing and Distributing	
<i>(A) Northern Region</i>					
1.	Punjab . . . . .	..	..	1	1
2.	Delhi . . . . .	..	1	1	2
TOTAL NORTHERN REGION . . . . .		..	1	2	3
<i>(B) Western Region</i>					
1.	Gujarat . . . . .	..	1	4	5
2.	Maharashtra . . . . .	..	..	4	4
TOTAL WESTERN REGION . . . . .		..	1	8	9
<i>(C) Southern Region</i>					
1.	Kerala . . . . .	..	..	1	1
2.	Tamil Nadu . . . . .	..	..	5	5
TOTAL SOUTHERN REGION . . . . .		..	..	6	6
<i>(D) Eastern Region . . . . .</i>		..	..	..	..
<i>(E) Northern Eastern Region . . . . .</i>		..	..	..	..
TOTAL (ALL INDIA) . . . . .		..	2	16	18

TABLE NO. 5

Acquisition of electricity supply undertakings during 1978-79

Sl.No.	Name of the Undertaking	Prior Ownership	Date of Acquisition	By whom Acquired
(A) Generating, Purchasing and Distributing				
(a) Western Region:				
1.	Bhavnagar	Company	10-10-78	Gujarat Electricity Board
(B) Purchasing and Distributing				
(a) Western Region :				
1.	Lunawada	Co-operative Society	27-8-78	Gujarat Electricity Board
2.	Bhiwandi	Company	1-10-78	Maharashtra State Electricity Board.
3.	Karmala	Company	18-12-78	Do.
4.	Lonawala Khandala	Company	14-3-79	Do.
(b) Eastern Region :				
1.	Bansberia	Company	12-5-78	West Bengal State Electricity Board.
2.	Hooghly-Chinsurah	Company	11-4-78	Do.
3.	Bhatpara (Riverside)	Company	23-5-78	Do.
4.	Raneegunj	Company	12-9-78	Do.

TABLE NO. 6

New Electricity supply undertakings started Operating during the year 1978-79

1. M/s. Rural Electric Co-operative Society Ltd. Manasa Distt. Mandasur, (Madhya Pradesh). Date of Commencement of operation—5-3-1979
2. M/s. Athagarh Rural Electric Co-operative Society Ltd. Athagarh, Distt. Cuttack, (Orissa). Date of commencement of operation—31-7-78
3. The Fatwah Paulwari Shariff Gramya Vidyut Sahakari Samiti Ltd., Rajendranagar, (Patna, Bihar). Its actual date of commencement of operation was 1-12-76. However, it was not reported earlier by Bihar SEB authorities.

SECTION-II
GENERATING CAPACITY—UTILITIES

INSTALLED GENERATING CAPACITY

During the year under review Installed Generating Capacity under Public utilities in the country increased to 26680.06 MW as compared to 23668.71 MW on 31st March, 1978, registering an increase of 12.72% over the previous year.

After taking into account a few retirements of old generating sets during the year, the net addition in generating capacity amounted to 3011.35 MW.

Generating Capacity of Steam Stations continued to form the largest portion of the installed generating capacity followed by Hydro, Nuclear, Gas & Diesel generating stations. The relative percentage of generating capacity of Steam, Hydro, Nuclear, Gas & Diesel generating stations were 55.76%, 40.60%, 2.40%, 0.63% and 0.61% respectively.

There were 108 steam stations and 141 hydro stations having 328 and 478 Nos. of generating sets with total capacity of 14874.93 MW and 10833.07 MW respectively as on 31st March, 1979.

Besides power stations of Public Utilities, generating capacity of Captive Plants of various industries registered an increase of 4.56% during the year 1978-79. Generating Capacity of captive plants increased from 2443.79 MW to 2555.28 MW which comprise of Hydro 2.61 MW, Steam 1949.23 MW, Gas Turbine 44.27 MW and 559.17 MW of Diesel generating sets.

In addition to the above, captive plants of 62.31 MW generating capacity were owned by Railways. The total installed generating capacity in the country including those of captive plants of selected industries and Railways was 29297.65 MW as on 31st March, 1979.

The various tables in this section gave the detailed salient features of the Installed Generating Capacity in the country as on 31st March, 1979.

TABLE NO. 7

All India installed Generating Capacity
UTILITIES AND NON-UTILITIES
 Primemoverwise as on 31st March 1979

(IN MW)					
Category	Year	Total	Hydro	Steam	
Utilities	31.3.79	26,680.06	10,833.07	14,874.93	
	31.3.78	23,668.71	10,020.22	12,681.33	
	% increase	12.72	8.11	17.30	
Non-Utilities	Selected industries (I)	31.3.79	2,555.28	2.61	1,949.23
		31.3.78	2,443.79	2.56	1,879.12
		% increase	4.56	1.95	3.73
	Railways (II)	31.3.79	62.31	..	23.46
		31.3.78	62.37	..	26.76
		% increase	(-)-0.10	..	(-)-12.33
	Total Non-utilities (I+II)	31.3.79	2,617.59	2.61	1,972.69
		31.3.78	2,506.16	2.56	1,905.88
		% increase	4.45	1.95	3.50
	All India capacity Utilities + Non- Utilities)	31.3.79	29,297.65	10,835.68	16,847.62
		31.3.78	26,174.87	10,022.78	14,587.21
		% increase	11.93	8.11	15.50

TABLE NO. 7 —Contd.

Category	Year	Diesel	Gas	Nuclear	
Utilities	31.3.79	164.06	168.00	640.00	
	31.3.78	159.16	168.00	640.00	
	% increase	3.08	..	..
Non-Utilities	Selected Industries (I)	31.3.79	559.17	44.27	..
		31.3.78	517.84	44.27	..
		% increase	7.98
Railways (II)	31.3.79	38.85	..	..
	31.3.78	35.61	..	..
	% increase	9.10	..	..
Total Non-Utilities (I+II)	31.3.79	598.02	44.27	..	
	31.3.78	553.45	44.27	..	
	% increase	8.05	..	..
All India Capacity (Uti- lities+ Non-Utilities)	31.3.79	762.08	212.27	640.00	
	31.3.78	712.61	212.27	640.00	
	% increase	6.94	..	..

TABLE NO. 8

All India installed Generating Capacity
UTILITIES Δ ONLY
Ownershipwise and primemoverwise as on 31st March, 1979

Sl. No.	Type of Primemover & Ownership.	Installed Plant Capacity (MW)	% to Total All India	% increase in Installed Capacity over the Previous year
I HYDRO				
<i>Public Sector</i>				
(a)	State Electricity Boards	8,930.85	33.48	10.01
(b)	Electricity Departments/Government Undertakings/ Corporation/Central Govt. Sector	1,617.22	6.06	0.03
(c)	Municipalities			
	Sub-total	10,548.07	39.54	8.35
<i>Private Sector</i>				
	Companies	285.00	1.06	..
	TOTAL-(HYDRO).	10,833.07	40.60	8.11
II STEAM				
<i>Public Sector</i>				
(a)	State Electricity Boards	10,695.65	40.09	19.81
(b)	Electricity Deptts/Govt. Undertakings/Corporations/ Central Govt. Sector.	2,819.60	10.57	13.26
(c)	Municipalities	255.80	0.96	..
	SUB-TOTAL	13,771.05	51.62	17.98
<i>Private Sector</i>				
	Companies	1,103.88	4.14	9.42
	TOTAL-(STEAM)	14,874.93	55.76	17.00
III DIESEL				
<i>Public Sector</i>				
(a)	State Electricity Boards	107.97	0.40	(-)0.22
(b)	Electricity Deptts/Govt. Undertakings/Corporations/ Central Govt. Sector.	35.37	0.13	17.00
(c)	Municipalities	20.72	0.08	..
	SUB-TOTAL	164.06	0.61	3.08
<i>Private Sector</i>				
	Companies . . . . .	..	..	..
	TOTAL-(DIESEL)	164.06	0.61	3.08

TABLE NO. 8 —Contd.

Sl. No.	Type of Primemover & ownership	Installed Plant Capacity (MW)	% to Total All India	%increase in Installed capacity over the Previous year
IV GAS TURBINE				
<i>Public Sector</i>				
(a)	State Electricity Boards	168·00	0·63	..
(b)	Electricity Deptts/Govt. Undertakings/Corporations/ Central Govt. Sector	..	..	..
(c)	Municipalities	..	..	..
	SUB-TOTAL	168·00	0·63	..
<i>Private Sector</i>				
	Companies	..	..	..
	TOTAL (GAS)	168·00	0·63	..
V NUCLEAR				
<i>Public Sector</i>				
(a)	State Electricity Boards	..	..	..
(b)	Electricity Deptts/Govt. Undertakings/Corpns/Central Govt. Sector.	640·00	2·40	..
(c)	Municipalities	..	..	..
	SUB-TOTAL	640·00	2·40	..
<i>Private Sector</i>				
	Companies	..	..	..
	TOTAL (NUCLEAR)	640·00	2·40	..
VI GRAND TOTAL (I TO V)				
<i>Public Sector</i>				
(a)	State Electricity Boards (18 Nos)	19,902·47	74·60	14·90
(b)	Electricity Deptts/Govt. Undertakings/Corpns/Central Govt. Sector (25 Nos)	5,112·19	19·16	7·03
(c)	Municipalities (18 Nos)	276·52	1·04	..
	SUB-TOTAL (61 Nos.)	25,291·18	94·80	13·03
<i>Private Sector</i>				
	Companies (34 Nos)	1,388·88	5·20	7·34
	TOTAL (ALL INDIA) [95 Nos.]	26,680·06	100·00	12·72

NOTE.—Figures within brackets shows number of undertakings.

TABLE NO. 9

All India Total Installed Generating Capacity
(UTILITIES ONLY)
(Regionwise/Statewise as on 31st March 1979)

(In MW)

Region	State/U.Ts	TOTAL		
		31-3-79	31-3-78	% Increase
<i>Northern Region</i>	Haryana	977.63	742.21	31.73
	Himachal Pradesh	112.78	112.83	(—)0.04
	Jammu & Kashmir	171.18	136.18	25.70
	Punjab	1,541.34	1,245.84	23.72
	Rajasthan	819.58	683.60	19.89
	Uttar Pradesh	3,075.66	2,867.76	7.25
	Chandigarh	2.00	2.00	..
	Delhi	275.80	275.80	..
	Central Sector	740.00	530.00	39.62
	SUB-TOTAL	7,716.07	6,596.22	16.98
<i>Western Region</i>	Gujarat	2,216.22	1,711.02	29.53
	Madhya Pradesh	1,318.02	1,135.02	16.12
	Maharashtra	3,322.30	2,822.30	17.72
	Goa, Daman & Diu . . . . .	..	..	..
	D. & N. Haveli . . . . .	..	..	..
	Central Sector	516.00	516.00	..
	SUB-TOTAL	7,372.54	6,184.34	19.21
<i>Eastern Region</i>	Bihar	891.08	890.27	0.09
	Orissa	922.92	923.12	(—)0.02
	West Bengal	1,510.54	1,388.54	8.79
	D.V.C.	1,421.50	1,301.50	9.22
	A. & N. Islands	6.01	5.29	13.61
	Sikkim	3.04	3.04	..
	SUB-TOTAL	4,755.09	4,511.76	5.39
<i>Southern Region</i>	Andhra Pradesh	1,620.43	1,520.43	6.58
	Karnataka	1,144.80	1,144.80	..
	Kerala	1,011.50	1,011.50	..
	Tamil Nadu	2,119.00	1,824.00	16.17
	Pondicherry . . . . .	..	..	..
	Lakshadweep	1.55	1.38	12.32
	Central Sector	600.00	600.00	..
	SUB-TOTAL	6,497.28	6,102.11	6.48
<i>North-Eastern Region</i>	Assam	161.78	161.78	..
	Manipur	15.00	10.41	44.09
	Meghalaya	131.16	71.11	84.45
	Tripura	14.07	14.06	0.07
	Arunachal Pradesh	10.72	10.22	4.89
	Mizoram	2.69	3.02	(—)10.93
	Nagaland	3.66	3.68	(—)0.54
		SUB-TOTAL	339.08	274.28	23.62
	TOTAL (ALL INDIA)	26,680.06	23,668.71	12.72

NOTE.—Installed Capacity of jointly owned projects have been shown divided between partner states as per their theoretical shares

TABLE No. 10
Installed Generating Capacity
 (UTILITIES ONLY)
 (Ownershipwise—Regionwise/Statewise as on 31-3-1979) (In M/W)

Region	State/U.Ts	PUBLIC SECTOR		
		State Electricity		Boards
		31-3-79	31-3-78	% Increase
<i>Northern Region</i>	Haryana	977.73	742.21	31.73
	Himachal Pradesh	112.78	112.83	(—)0.04
	Jammu & Kashmir	171.18	136.18	25.70
	Punjab	1,541.34	1,245.84	23.72
	Rajasthan	819.58	683.60	19.89
	Uttar Pradesh	3075.66	2,867.76	7.25
	Chandigarh . . . . .	..	..	..
	Delhi . . . . .	..	..	..
	Central Sector . . . . .	..	..	..
	SUB-TOTAL	6,698.27	5,788.42	15.72
<i>Western Region</i>	Gujarat	1,888.00	1,477.80	27.76
	Madhya Pradesh	1,318.02	1,135.02	16.12
	Maharashtra	2,699.80	2,199.80	22.73
	Goa, Daman & Diu . . . . .	..	..	..
	D & N. Haveli . . . . .	..	..	..
	Central Sector . . . . .	..	..	..
		SUB-TOTAL	5,905.82	4,812.62	22.72
<i>Eastern Region</i>	Bihar	871.08	870.27	0.09
	Orissa	528.50	528.70	(—)0.04
	West Bengal	786.66	664.66	18.35
	D.V.C. . . . .	..	..	..
	A & N Islands . . . . .	..	..	..
	Sikkim . . . . .	..	..	..
		SUB-TOTAL	2,186.24	2,063.63	5.94
<i>Southern Region</i>	Andhra Pradesh	1,482.50	1,382.50	7.23
	Karnataka	206.20	206.20	..
	Kerala	1,011.50	1,011.50	..
	Tamil Nadu	2,119.00	1,824.00	16.17
	Pondicherry . . . . .	..	..	..
	Lakshadweep . . . . .	..	..	..
	Central Sector . . . . .	..	..	..
		SUB-TOTAL	4,819.20	4,424.20	8.93
<i>North Eastern Region</i>	Assam	161.78	161.78	..
	Manipur . . . . .	..	..	..
	Meghalaya	131.16	71.11	84.45
	Nagaland . . . . .	..	..	..
	Tripura . . . . .	..	..	..
	Arunachal Pradesh . . . . .	..	..	..
	Mizoram . . . . .	..	..	..
		SUB-TOTAL	292.94	232.89	25.78
	TOTAL (ALL INDIA)	19,902.47	17,321.76	14.90

TABLE NO. 10 (Contd.)

State/U.Ts	Public Sector		
	Electricity Deptt./Govt, Undertakings		
	31-3-79	31-3-78	% Increase
Haryana . . . . .	..	..	..
Himachal Pradesh . . . . .	..	..	..
Jammu & Kashmir . . . . .	..	..	..
Punjab . . . . .	..	..	..
Rajasthan . . . . .	..	..	..
Uttar Pradesh . . . . .	..	..	..
Chandigarh	2.00	2.00	..
Delhi . . . . .	..	..	..
Central Sector	740.00	530.00	39.62
SUB-TOTAL	742.00	532.00	39.47
Gujarat . . . . .	..	..	..
Madhya Pradesh . . . . .	..	..	..
Maharashtra . . . . .	..	..	..
Goa, Daman & Diu . . . . .	..	..	..
Dadra & Nagar Haveli . . . . .	..	..	..
Central Sector	516.00	516.00	..
SUB-TOTAL	516.00	516.00	..
Bihar	20.00	20.00	..
Orissa	394.42	394.42	..
West Bengal	285.00	285.00	..
D.V.C.	1,421.50	1,301.50	9.22
Andaman & Nicobar Islands	6.01	5.29	13.61
Sikkim	3.04	3.04	..
SUB-TOTAL	2,129.97	2,009.25	6.01
Andhra Pradesh	137.93	137.93	..
Karnataka	938.60	938.60	..
Kerala . . . . .	..	..	..
Tamil-Nadu . . . . .	..	..	..
Pondicherry . . . . .	..	..	..
Lakshadweep	1.55	1.38	12.32
Central Sector	600.00	600.00	..
SUB-TOTAL	1,678.08	1,677.91	0.01
Assam . . . . .	..	..	..
Manipur	15.00	10.41	44.09
Meghalaya . . . . .	..	..	..
Nagaland	3.66	3.68	(-)0.54
Tripura	14.07	14.06	0.07
Arunachal Pradesh	10.72	10.22	4.89
Mizoram	2.69	3.02	(-)10.93
SUB-TOTAL	46.14	41.39	11.48
TOTAL (ALL INDIA)	5,112.19	4,776.55	7.03

TABLE No. 10 (Contd.)

State/U.Ts	Public Sector		
	Municipalities		
	31-3-79	31-3-78	% Increase
Haryana
Himachal Pradesh
Jammu & Kashmir
Punjab
Rajasthan
Uttar Pradesh
Chandigarh
Delhi	275.80	275.80	..
Central Sector
SUB-TOTAL	275.80	275.80	..
Gujarat	0.72	0.72	..
Madhya Pradesh
Maharashtra
Goa, Daman & Diu
Dadra & Nagar Haveli
Central Sector
SUB-TOTAL	0.72	0.72	..
Bihar
Orissa
West Bengal
D.V.C.
Andaman & Nicobar Islands
Sikkim
SUB-TOTAL
Andhra Pradesh
Karnataka
Kerala
Tamil-Nadu
Pondicherry
Lakshadweep
Central Sector
SUB-TOTAL
Assam
Manipur
Meghalaya
Nagaland
Tripura
Arunachal Pradesh
Mizoram
SUB-TOTAL
TOTAL (ALL INDIA)	276.52	276.52	..

TABLE No. 10 (Contd.)

State/UTs	Private Sector		
	Companies		
	31-3-79	31-3-78	% Increase
Haryana
Himachal Pradesh
Jammu & Kashmir
Punjab
Rajasthan
Uttar Pradesh
Chandigarh
Delhi
Central Sector
SUB-TOTAL
Gujarat	327.50	232.50	40.86
Madhya Pradesh
Maharashtra	622.50	622.50	..
Goa, Daman & Diu
Dadra & Nagar Haveli
Central Sector
SUB-TOTAL	950.00	855.00	11.11
Bihar
Orissa
West Bengal	438.88	438.88	..
D.V.C.
Andman & Nicobar Islands
Sikkim
SUB-TOTAL	438.88	438.88	..
Andhra Pradesh
Karnataka
Kerala
Tamil-Nadu
Pondicherry
Lakshadweep
Central Sector
SUB-TOTAL
Assam
Manipur
Meghalaya
Nagaland
Tripura
Arunachal Pradesh
Mizoram
SUB-TOTAL
TOTAL (ALL INDIA)	1,388.88	1,293.88	7.34

TABLE NO. 11

Installed Generating Capacity Primemoverwise
(UTILITIES ONLY)
Regionwise/Statewise as on 31st March, 1979

(IN M.W.)

Region	State/UTs	HYDRO		
		31-3-79	31-3-78	% Increase
1	2	3	4	
<i>Northern Region</i>	Haryana	659.51	533.99	23.51
	Himachal Pradesh	110.27	110.32	(-)-0.04
	Jammu & Kashmir	141.92	106.92	32.73
	Punjab	1,082.26	893.98	21.06
	Rajasthan	648.73	512.53	26.57
	Uttar Pradesh	1,075.94	1,075.54	0.04
	Chandigarh	..	..	..
	Delhi	..	..	..
Central Sector	..	..	..
SUB-TOTAL		3,718.63	3,233.28	15.01
<i>Western Region</i>	Gujarat	300.00	300.00	..
	Madhya Pradesh	193.00	193.00	..
	Maharashtra	1,277.30	1,197.30	6.68
	Goa, Daman & Diu	..	..	..
	D & N Haveli	..	..	..
	Central Sector	..	..	..
SUB-TOTAL		1,770.30	1,690.30	4.73
<i>Eastern Region</i>	Bihar	85.00	85.00	..
	Orissa	664.42	664.42	..
	West Bengal	38.51	36.51	5.48
	D.V.C.	104.00	104.00	..
	A & N Islands	..	..	..
	Sikkim	2.55	2.55	..
SUB-TOTAL		894.48	892.48	0.22
<i>Southern Region</i>	Andhra Pradesh	777.93	677.93	14.75
	Karnataka	1,144.80	1,144.80	..
	Kerala	1,011.50	1,011.50	..
	Tamil Nadu	1,369.00	1,284.00	6.62
	Pondicherry	..	..	..
	Lakshadweep	..	..	..
	Central Sector	..	..	..
SUB-TOTAL		4,303.23	4,118.23	4.49
<i>North Eastern Region</i>	Assam	..	..	..
	Manipur	0.60	0.60	..
	Meghalaya	126.71	66.71	89.94
	Nagaland	1.50	1.50	..
	Tripura	10.00	10.00	..
	Arunachal Pradesh	7.62	7.12	7.02
	Mizoram	..	..	..
SUB-TOTAL		146.43	85.93	70.41
TOTAL (ALL INDIA)		10,833.07	10,020.22	8.11

ORGANISATIONAL STRUCTURE OF ELECTRICITY SUPPLY INDUSTRY IN INDIA

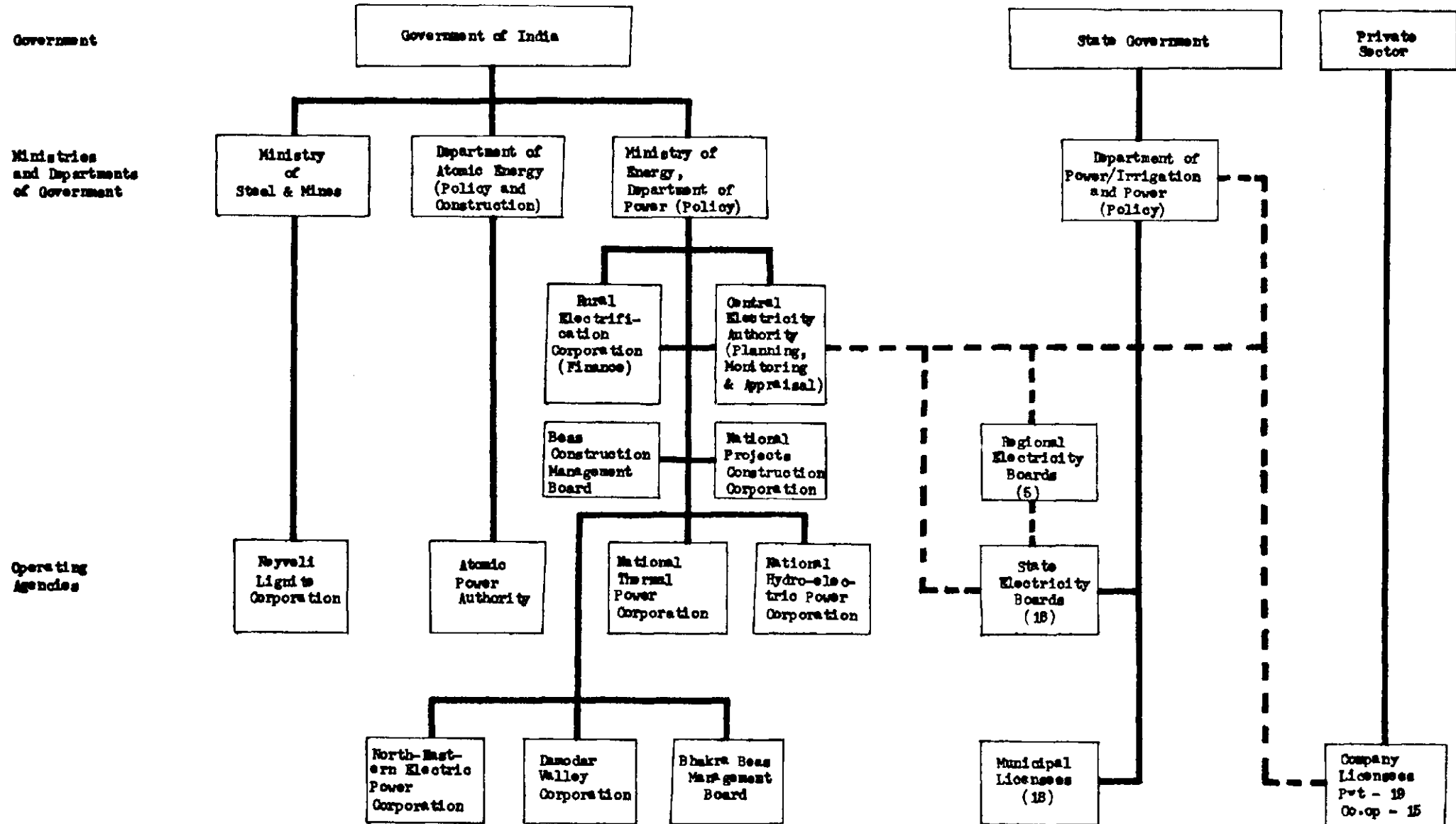


TABLE NO. 11—(Contd.)

State/UTs	STEAM		
	31-3-79	31-3-78	% Increase
	6	7	8
Haryana	314.30	204.30	53.84
Himachal Pradesh	..	..	..
Jammu & Kashmir	22.50	22.50	..
Punjab	415.00	335.00	32.84
Rajasthan	158.00	158.00	..
Uttar Pradesh	1,931.10	1,776.50	11.52
Chandigarh	..	..	..
Delhi	255.80	255.80	..
Central Sector	521.00	310.00	67.74
SUB-TOTAL	3,696.70	3,062.10	20.72
Gujarat	1,859.00	1,353.00	37.40
Madhya Pradesh	1,125.00	942.00	19.43
Maharashtra	2,045.00	1,625.00	25.85
Goa, Daman & Diu	..	..	..
Dadra & Nagar Haveli	..	..	..
Central Sector	96.00	96.00	..
SUB-TOTAL	5,125.00	4,016.00	27.61
Bihar	792.50	792.50	..
Orissa	258.25	258.25	..
West Bengal	1,448.88	1,328.88	9.03
D.V.C.	1,317.50	1,197.50	10.02
A & N Islands	1.10	1.10	..
Sikkim	..	..	..
SUB-TOTAL	3,818.23	3,578.23	6.71
Andhra Pradesh	822.50	822.50	..
Karnataka	..	..	..
Kerala	..	..	..
Tamil Nadu	750.00	540.00	38.89
Pondicherry	..	..	..
Laksadweep	..	..	..
Central Sector	600.00	600.00	..
SUB-TOTAL	2,172.50	1,962.50	10.70
Assam	60.00	60.00	..
Manipur	..	..	..
Meghalaya	2.50	2.50	..
Nagaland	..	..	..
Tripura	..	..	..
Arunachal Pradesh	..	..	..
Mizoram	..	..	..
SUB-TOTAL	62.50	62.50	..
TOTAL (ALL INDIA)	14,874.93	12,681.33	17.30

TABLE NO. 11—Contd.

State/UTs	DIESEL		
	31-3-79	31-3-78	% Increase
	9	10	11
Haryana	3.92	3.92	..
Himachal Pradesh	2.51	2.51	..
Jammu & Kashmir	6.76	6.76	..
Punjab	14.08	16.86	(-)16.49
Rajasthan	12.85	13.07	(-)1.68
Uttar Pradesh	6.12	3.22	90.06
Chandigarh	2.00	2.00	..
Delhi	20.00	20.00	..
Central Sector . . . . .	—	..	..
SUB-TOTAL	68.24	68.34	(-)0.15
Gujarat	3.22	4.02	(-)19.90
Madhya Pradesh	0.02	0.02	..
Maharashtra	—	—	—
Goa, Daman & Diu . . . . .	—	..	..
Dadra & Nagar Haveli . . . . .	—	..	..
Central Sector . . . . .	—	..	..
SUB-TOTAL	3.24	4.04	(-)19.80
Bihar	13.58	12.77	6.34
Orissa	0.25	0.45	(-)44.45
West Bengal	23.15	23.15	—
D.V.C.	—	..	—
A & N Islands	4.91	4.19	17.18
Sikkim	0.49	0.49	..
SUB-TOTAL	42.38	41.05	3.24
Andhra Pradesh	—	..	—
Karnataka	—	..	—
Kerala	—	..	—
Tamil Nadu	—	—	—
Pondicherry	—	—	—
Lakshadweep	1.55	1.38	12.32
Central Sector . . . . .	—	..	..
SUB-TOTAL	1.55	1.38	12.32
Assam	20.28	20.28	..
Manipur	14.40	9.81	46.79
Meghalaya	1.95	1.90	2.63
Nagaland	2.16	2.18	(-)0.92
Tripura	4.07	4.06	0.25
Arunachal Pradesh	3.10	3.10	..
Mizoram	2.69	3.02	(-)10.93
SUB-TOTAL	48.65	44.35	9.70
TOTAL (ALL INDIA)	164.06	159.16	3.08

TABLE NO. 11—Contd.

State/UTs	G A S		
	31-3-79	31-3-78	% Increase
	12	13	14
Haryana . . . . .	..	..	..
Himachal Pradesh . . . . .	..	..	..
Jammu & Kashmir . . . . .	..	..	..
Punjab . . . . .	..	..	..
Rajasthan . . . . .	..	..	..
Uttar Pradesh	12.50	12.50	..
Chandigarh . . . . .	..	..	..
Delhi . . . . .	..	..	..
Central Sector . . . . .	..	..	..
SUB-TOTAL	12.50	12.50	..
Gujarat	54.00	54.00	..
Madhya Pradesh . . . . .	..	..	..
Maharashtra . . . . .	..	..	..
Goa, Daman & Diu . . . . .	..	..	..
Dadra & Nagar Haveli . . . . .	..	..	..
Central Sector . . . . .	..	..	..
SUB-TOTAL	54.00	54.00	..
Bihar . . . . .	..	..	..
Orissa . . . . .	..	..	..
West Bengal . . . . .	..	..	..
D.V.C. . . . .	..	..	..
A & N Islands . . . . .	..	..	..
Sikkim . . . . .	..	..	..
SUB-TOTAL . . . . .	..	..	..
Andhra Pradesh	20.00	20.00	..
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu . . . . .	..	..	..
Pondicherry . . . . .	..	..	..
Lakshadweep . . . . .	..	..	..
Central Sector . . . . .	..	..	..
SUB-TOTAL	20.00	20.00	..
Assam	81.50	81.50	..
Manipur . . . . .	..	..	..
Meghalaya . . . . .	..	..	..
Nagaland . . . . .	..	..	..
Tripura . . . . .	..	..	..
Arunachal Pradesh . . . . .	..	..	..
Mizoram . . . . .	..	..	..
SUB-TOTAL	81.50	81.50	..
TOTAL (ALL INDIA)	168.00	168.00	..

TABLE NO. 11—Contd.

State/UTs	NUCLEAR		
	31-3-79	31-3-78	% Increase
	15	16	17
Haryana
Himachal Pradesh
Jammu & Kashmir
Punjab
Rajasthan
Uttar Pradesh
Chandigarh
Delhi
Central Sector	220.00	220.00	..
SUB-TOTAL	220.00	220.00	..
Gujarat
Madhya Pradesh
Maharashtra
Goa, Daman & Diu
Dadra & Nagar Haveli
Central Sector	420.00	420.00	..
SUB-TOTAL	420.00	420.00	..
Bihar
Orissa
West Bengal
D.V.C.
A & N Islands
Sikkim
SUB-TOTAL
Andhra Pradesh
Karnataka
Kerala
Tamil Nadu
Pondicherry
Lakshadweep
SUB-TOTAL
Assam
Manipur
Meghalaya
Nagaland
Tripura
Arunachal Pradesh
Mizoram
SUB-TOTAL
TOTAL (ALL INDIA)	640.00	640.00	..

TABLE NO. 12

Installed Generating Capacity of State Electricity Boards—Prinemoverwise
as on 31st March, 1979

(MW)

Region	Name of the Board	HYDRO		
		31-3-79	31-3-78	% Increase
<i>Northern Region</i>	Haryana	659.51	533.99	23.51
	Himachal Pradesh	110.27	110.32	(-)-0.04
	Jammu & Kashmir	141.92	106.92	32.73
	Punjab	1,082.26	893.98	21.06
	Rajasthan	648.73	512.53	26.57
	Uttar Pradesh	1,075.94	1,075.54	0.04
	SUB-TOTAL	3,718.63	3,233.28	15.01
<i>Western Region</i>	Gujarat	300.00	300.00	..
	Madhya Pradesh	193.00	193.00	..
	Maharashtra	92.390	912.30	8.77
	SUB-TOTAL	1,485.30	1,405.30	5.69
<i>Eastern Region</i>	Bihar	65.00	65.00	..
	Orissa	270.00	270.00	..
	West Bengal	38.51	36.51	5.48
	SUB-TOTAL	373.51	371.51	0.54
<i>Southern Region</i>	Andhra Pradesh	640.00	540.00	18.52
	Karnataka	206.20	206.20	..
	Kerala	1,011.50	1,011.50	..
	Tamil Nadu	1,369.00	1,284.00	6.62
	SUB-TOTAL	3,226.70	3,041.70	6.08
<i>North East Region</i>	Assam	..	..	..
	Meghalaya	126.71	66.71	89.94
	SUB-TOTAL	126.71	66.71	89.94
	TOTAL (ALL INDIA)	8,930.85	8,118.50	10.01

TABLE No. 12—Contd.

Name of the Board	STEAM		
	31-3-79	31-3-78	% Increase
Haryana	314.30	204.30	53.84
Himachal Pradesh . . . . .	..	..	..
Jammu & Kashmir	22.50	22.50	..
Punjab	445.00	335.00	32.84
Rajasthan	158.00	158.00	..
Uttar Pradesh	1,981.10	1,776.50	11.52
SUB-TOTAL	2,920.90	2,496.30	17.01
Gujarat	1,531.50	1,120.50	36.68
Madhya Pradesh	1,125.00	942.00	19.43
Maharashtra	1,707.50	1,287.50	32.62
SUB-TOTAL	4,364.00	3,350.00	30.27
Bihar	792.50	792.50	..
Orissa	258.25	258.25	..
West Bengal	725.00	605.00	19.83
SUB-TOTAL	1,775.75	1,655.75	7.25
Andhra Pradesh	822.50	822.50	..
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu	750.00	540.00	38.89
SUB-TOTAL	1,572.50	1,362.50	15.41
Assam	60.00	60.00	..
Meghalaya	2.50	2.50	..
SUB-TOTAL	62.50	62.50	..
TOTAL (ALL INDIA)	10,695.65	8,927.05	19.81

TABLE No. 12—Contd.

State/UTs	DIESEL		
	31-3-79	31-3-78	% Increase
Haryana	3.92	3.92	..
Himachal Pradesh	2.51	2.51	..
Jammu & Kashmir	6.76	6.76	..
Punjab	14.08	16.86	(-)-16.49
Rajasthan	12.85	13.07	(-)-1.68
Uttar Pradesh	6.12	3.22	90.06
SUB-TOTAL	46.24	46.34	(-)-0.12
Gujarat	2.50	3.30	(-)-24.24
Madhya Pradesh	0.02	0.02	..
Maharashtra	..	..	..
SUB-TOTAL	2.52	3.32	(-)-24.10
Bihar	13.58	12.77	6.34
Orissa	0.25	0.45	(-)-44.45
West Bengal	23.15	23.15	..
SUB-TOTAL	36.98	36.37	1.68
Andhra Pradesh	..	..	..
Karnataka	..	..	..
Kerala	..	..	..
Tamil Nadu	..	..	..
SUB-TOTAL	..	..	..
Assam	20.28	20.28	..
Meghalaya	1.95	1.90	2.63
SUB-TOTAL	22.23	22.18	0.23
TOTAL (ALL INDIA)	107.97	108.21	(-)-0.22

TABLE NO. 12—Contd.

State/UT	GAS		
	31-3-79	31-3-78	% Increase
Haryana	..	..	..
Himachal Pradesh	..	..	..
Jammu & Kashmir	..	..	..
Punjab	..	..	..
Rajasthan	..	..	..
Uttar Pradesh	12.50	12.50	..
SUB-TOTAL	12.50	12.50	..
Gujarat	54.00	54.00	..
Madhya Pradesh	..	..	..
Maharashtra	..	..	..
SUB-TOTAL	54.00	54.00	..
Bihar	..	..	..
Orissa	..	..	..
West Bengal	..	..	..
SUB-TOTAL	..	..	..
Andhra Pradesh	20.00	20.00	..
Karnataka	..	..	..
Kerala	..	..	..
Tamil Nadu	..	..	..
SUB-TOTAL	20.00	20.00	..
Assam	81.50	81.50	..
Meghalaya	..	..	..
SUB-TOTAL	81.50	81.50	..
TOTAL (ALL INDIA)	168.00	168.00	..

TABLE NO.12—Contd.

State/UTs	TOTAL		
	31-3-79	31-3-78	% Increase
Haryana	977.73	742.21	31.73
Himachal Pradesh	112.78	112.83	(—)0.04
Jammu & Kashmir	171.18	136.18	25.70
Punjab	1,541.34	1,245.84	23.72
Rajasthan	819.58	683.60	19.89
Uttar Pradesh	3,075.66	2,867.76	7.25
SUB-TOTAL	6,698.27	5,788.42	15.72
Gujarat	1,888.00	1,477.80	27.76
Madhya Pradesh	1,318.02	1,135.02	16.12
Maharashtra	2,699.80	2,199.80	22.73
SUB-TOTAL	5,905.82	4,812.62	22.72
Bihar	871.08	870.27	0.09
Orissa	528.50	528.70	(—)0.04
West Bengal	786.66	664.66	18.35
SUB-TOTAL	2,186.24	2,063.63	5.94
Andhra Pradesh	1,482.50	1,382.50	7.23
Karnataka	206.20	206.20	..
Kerala	1,011.50	1,011.50	..
Tamil Nadu	2,119.00	1,824.00	16.17
SUB-TOTAL	4,819.20	4,424.20	8.93
Assam	161.78	161.78	..
Meghalaya	131.16	71.11	84.45
SUB-TOTAL	292.94	232.89	25.78
TOTAL (ALL INDIA)	19,902.47	17,321.76	14.90

NOTE : There is no nuclear power station under any State Electricity Board.

TABLE NO. 13

*Installed Generating Capacity of Electricity Depts/Govt. Undertakings, Municipalities & Private Sector
Primemoverwise Regionwise as on 31-3-1979*

Ownership	TOTAL			
	31-3-79	31-3-78	% increase	
<i>I. Electricity Deptt./Govt. Undertaking/Corporation/Central Sector</i>				
<i>Northern Region</i>	Chandigarh	2.00	2.00	..
	Central Sector	740.00	530.00	39.62
<i>Western Region</i>	Central Sector	516.00	516.00	..
<i>Eastern Region</i>	Bihar	20.00	20.00	..
	Orissa	394.42	394.42	..
	Sikkim	3.04	3.04	..
	West Bengal	285.00	285.00	..
	D.V.C.	1,421.50	1,301.50	9.22
	A & N Islands	6.01	5.29	13.61
<i>Southern Region</i>	Andhra Pradesh	137.93	137.93	..
	Karnataka	938.60	931.63	..
	Lakshadweep	1.55	1.38	12.32
	Central Sector	600.00	600.00	..
<i>North Eastern Region</i>	Manipur	15.00	10.41	44.09
	Nagaland	3.66	3.68	(-)-0.54
	Tripura	14.07	14.06	0.07
	Arunachal Pradesh	10.72	10.22	4.89
	Mizoram	2.69	3.02	(-)-10.93
	TOTAL (I)	5,112.19	4,776.55	7.03
<i>II. Municipalities</i>				
<i>Northern Region</i>	Delhi	275.80	275.80	..
<i>Western Region</i>	Gujarat	0.72	0.72	..
<i>Eastern Region</i>	West Bengal	..	..	..
	TOTAL (II)	276.52	276.52	..
<i>III. Private Licensees</i>				
<i>Western Region</i>	Gujarat	327.50	232.50	40.86
	Maharashtra	622.50	622.50	..
<i>Eastern Region</i>	West Bengal	438.88	438.88	..
<i>Northern Eastern Region</i>	Meghalaya	..	..	..
	TOTAL (III)	1,388.88	1,293.88	7.34

NOTE 1 Data in respect of Kashmir Region of J&K, Sikkim & Mizoram are estimated due to non-availability of information.

TABLE No. 13—Contd.

Ownership	HYDRO		
	31-3-79	31-3-78	% increase
<i>I. Electricity Deptt./Govt. Undertaking / Corporation / Central Sector</i>			
<i>Northern Region</i>	Chandigarh	..	..
	Central Sector	..	..
<i>Western Region</i>	Central Sector	..	..
<i>Eastern Region</i>	Bihar	20.00	20.00
	Orissa	394.42	394.42
	Sikkim	2.55	2.55
	West Bengal	..	..
	D.V.C.	104.00	104.00
	A & N Islands	..	..
<i>Southern Region</i>	Andhra Pradesh	137.93	137.93
	Karnataka	938.60	938.60
	Lakshadweep	..	..
	Central Sector	..	..
<i>North Eastern Region</i>	Manipur	0.60	0.60
	Nagaland	1.50	1.50
	Tripura	10.00	10.00
	Arunachal Pradesh	7.62	7.12
	Mizoram	..	..
	TOTAL (I)	1,617.22	1,616.72
			0.03
<i>II. Municipalities</i>			
<i>Northern Region</i>	Delhi	..	..
<i>Western Region</i>	Gujarat	..	..
<i>Eastern Region</i>	West Bengal	..	..
	TOTAL (II)	..	..
<i>III. Private Licensees</i>			
<i>Western Region</i>	Gujarat	..	..
	Maharashtra	285.00	285.00
<i>Eastern Region</i>	West Bengal	..	..
<i>North Eastern Region</i>	Meghalaya	..	..
	TOTAL (III)	285.00	285.00

NOTE : Data in respect of Kashmir Region of J & K, Sikkim & Mizoram are estimated due to non-availability of information.

TABLE NO. 13—Contd.

Ownership	STEAM		
	31-3-79	31-3-78	% Increase
<i>I. Electricity Deptt./Govt. Undertaking/Corporation/Central Sector.</i>			
<i>Northern Region</i>	Chandigarh	..	..
	Central Sector	520.00	310.00 67.74
<i>Western Region</i>	Central Sector	96.00	96.00 ..
<i>Eastern Region</i>	Bihar	..	..
	Orissa	..	..
	Sikkim	..	..
	West Bengal	285.00	285.00 ..
	D.V.C.	1,317.50	1,197.50 10.02
	A & N Islands	1.10	1.10 ..
<i>Southern Region</i>	Andhra Pradesh	..	..
	Karnataka	..	..
	Lakshadweep	..	..
	Central Sector	600.00	600.00 ..
<i>North Eastern Region</i>	Manipur	..	..
	Nagaland	..	..
	Tripura	..	..
	Arunachal Pradesh	..	..
	Mizoram	..	..
	TOTAL (I)	2,819.60	2,489.60 13.26
<i>II. Municipalities</i>			
<i>Northern Region</i>	Delhi	255.80	255.80 ..
<i>Western Region</i>	Gujarat	..	..
<i>Eastern Region</i>	West Bengal	..	..
	TOTAL (II)	255.80	255.80 ..
<i>III. Private Licensees</i>			
<i>Western Region</i>	Gujarat	327.50	232.50 40.86
	Maharashtra	337.50	337.50 ..
<i>Eastern Region</i>	West Bengal	438.88	438.88 ..
<i>North Eastern Region</i>	Meghalaya	..	..
	TOTAL (III)	1,103.88	1,008.88 9.42

TABLE NO. 13—Contd.

Ownership	DIESEL			
	31-3-79	31-3-78	% Increase	
<i>I. Electricity Deptt./Govt. Undertaking/Corporation/Central Sector.</i>				
Northern Region	Chandigarh	2.00	2.00	..
	Central Sector	..	..	..
Western Region	Central Sector	..	..	..
Eastern Region	Bihar	..	..	..
	Orissa	..	..	..
	Sikkim	0.49	0.49	..
	West Bengal	..	..	..
	D.V.C.	..	..	..
	A & N Islands	4.91	4.19	17.18
Southern Region	Andhra Pradesh	..	..	..
	Karnataka	..	..	..
	Lakshadweep	1.55	1.38	12.32
	Central Sector	..	..	..
North Eastern Region	Manipur	14.40	9.81	46.79
	Nagaland	2.16	2.18	(-)-3.92
	Tripura	4.07	4.06	0.25
	Arunachl Pradesh	3.10	3.10	..
	Mizoram	2.69	3.02	(-)-10.93
	TOTAL (I)	35.37	30.23	17.00
<i>II. Municipalities</i>				
Northern Region	Delhi	20.00	20.00	..
Western Region	Gujarat	0.72	0.72	..
Eastern Region	West Bengal	..	..	..
	TOTAL (II)	20.72	20.72	..
<i>III. Private Licensees</i>				
Western Region	Gujarat	..	..	..
	Maharashtra	..	..	..
Eastern Region	West Bengal	..	..	..
North Eastern Region	Meghalaya	..	..	..
	TOTAL (III)	..	..	..

NOTE : Data in respect of Kashmir Region of J & K, Sikkim & Mizoram are estimated due to non-availability of information.

TABLE NO. 13—Contd.

Ownership	NUCLEAR		
	31-3-79	31-3-78	% Increase
<i>I. Electricity Dept./Govt. Undertaking/Corporation/Central Sector</i>			
<i>Northern Region</i>	Chandigarh	..	..
	Central Sector	220.00	220.00
<i>Western Region</i>	Central Sector	420.00	420.00
<i>Eastern Region</i>	Bihar	..	..
	Orissa	..	..
	Sikkim	..	..
	West Bengal	..	..
	D.V.C.	..	..
	A & N Islands	..	..
<i>Southern Region</i>	Andhra Pradesh	..	..
	Karnataka	..	..
	Lakshadweep	..	..
	Central Sector	..	..
<i>North Eastern Region</i>	Manipur	..	..
	Nagaland	..	..
	Tripura	..	..
	Arunachal Pradesh	..	..
	Mizoram	..	..
	TOTAL (I)	640.00	640.00
<i>II. Municipalities</i>			
<i>Northern Region</i>	Delhi	..	..
<i>Western Region</i>	Gujarat	..	..
<i>Eastern Region</i>	West Bengal	..	..
	TOTAL (II)	..	..
<i>III. Private Licensees</i>			
<i>Western Region</i>	Gujarat	..	..
	Maharashtra	..	..
<i>Eastern Region</i>	West Bengal	..	..
<i>North Eastern Region</i>	Meghalaya	..	..
	TOTAL (III)	..	..

TABLE No. 14
Addition in Generation Capacity
(UTILITIES ONLY)
During the Years 1978-79

(A) HYDRO

Sl. No.	Name of the Power Station	State (ownership)	Date of Addition	No. of sets	Capacity of each set (MW)	Total Capacity (MW)
1.	Lower Jhelum	J & K (S.E.B.)	12-1-79	1	35.00	35.00
2.	Beas Unit III (Dehar)	Inter-State (B.B.M.B.)	30-10-78	1	165.00	165.00
3.	Beas Unit IV (Dehar)	Inter-State (B.B.M.B.)	24-2-79	1	165.00	165.00
4.	Beas Unit III (Pong)	Inter-State (B.B.M.B.)	25-10-78	1	60.00	60.00
5.	Beas Unit IV (Pong)	Inter-State (B.B.M.B.)	9-3-79	1	60.00	60.00
6.	Koyna (Stage-III)	Maharashtra (S.E.B.)	2-10-78	1	80.00	80.00
7.	Rinchington	West Bengal (S.E.B.)	Oct. 78	2	1.00	2.00
8.	Lower Silcru	Andhra Pradesh (S.E.B.)	12-6-78	1	100.00	100.00
9.	Kundah (Stage-IV)	Tamil Nadu (S.E.B.)	9-9-78	1	50.00	50.00
10.	Suruliyar	Tamil Nadu (S.E.B.)	27-8-78	1	35.00	35.00
11.	Kydrem-Kulai	Meghalaya (S.E.B.)	26-1-79	1	30.00	30.00
12.	Kydrem-Kulai	Meghalaya (S.E.B.)	31-3-79	1	30.00	30.00
13.	Khonsa	Arunachal Pradesh (Govt. Deptt).	March '79	2	0.25	0.50
(TOTAL HYDRO)				15		812.50

NOTE : Dehar & Pong power houses are jointly owned by Haryana, Punjab and Rajasthan States in the ratio of 32:48:20; and 16.6:24.9:58.5 respectively.

TABLE No. 14—Contd.**(B) STEAM**

Sl. No.	Name of the power station	State (ownership)	Date of Addition	No. of sets	Capacity of each set (MW)	Total Capacity (MW)
1.	Panipat	Haryana (S.E.B.)	30-3-79	1	110.00	110.00
2.	Bhatinda	Punjab (S.E.B.)	31-1-79	1	110.00	110.00
3.	Obra	U.P. (S.E.B.)	14-1-79	1	200.00	200.00
4.	Badarpur	Delhi (N.T.P.C.) Central Sector	2-12-78	1	210.00	210.00
5.	Satpura Ext.	M.P. (S.E.B.)	30-3-79	1	200.00	200.00
6.	Ukai	Gujarat (S.E.B.)	21-1-79 & 23-3-79	2	200.00	400.00
7.	Sabarmati Extn	Gujarat (Ahmedabad Elec. Co.)	12-10-78	1	110.00	110.00
8.	Bhusawal Extn.	Maharashtra (S.E.B.)	28-3-79	1	210.00	210.00
9.	Nasik Extn.	Maharashtra (S.E.B.)	31-3-79	1	210.00	210.00
10.	Santaldih	West Bengal (S.E.B.)	6-12-78	1	120.00	120.00
11.	Chandrapura	D.V.C.	29-3-79	1	120.00	120.00
12.	Tuticorin	Tamil Nadu (S.E.B.)	31-12-78	1	210.00	210.00
13.	Chandausi old *	U.P. (S.E.B.)	1978-79	3	3.20	9.60
TOTAL (STEAM)				16		2,219.60
TOTAL (HYDRO+STEAM)				31		3,032.10

NOTE : No. nuclear and Gas unit was added during the year 1978-79

S.E.B. = State Electricity Board

N.T.P.C. = National Thermal Power Corporation

*This unit was retired during the year 1974-75, and has been reinstalled during 1978-79.

TABLE NO. 15

Additions/Deletions of plant capacity

Primemoverwise—Regionwise/Statewise during the year 1978-79.

(In MW)

Region	Name of State/UTs	Hydro	Steam	Diesel
<i>Northern Region</i>	Haryana	..	110.00	..
	Himachal Pradesh	(-) <i>0.05(A)</i>	..	..
	Jammu & Kashmir	35.00	..	..
	Punjab	..	110.00	(-) <i>2.78(B)</i>
	Rajasthan	..	..	(-)<i>0.22(C)</i>
	Uttar Pradesh	(+) <i>0.40(D)</i>	209.60	(+) <i>2.90(F)</i>
	Central Sector	..	(-) <i>5.00(E)</i>	..
	B.B.M.B.	450.00	210.00	..
	SUB-TOTAL	485.35	634.60	(-) <i>0.10</i>
<i>Western Region</i>	Gujarat	..	510.00	(-) <i>0.80(H)</i>
	Madhya Pradesh	..	(-) <i>4.00(G)</i>	..
	Maharashtra	80.00	200.00	..
			(-) <i>17.00(I)</i>	..
	SUB-TOTAL	80.00	1,109.00	(-) <i>0.80</i>
<i>Eastern Region</i>	Bihar	..	..	(+)<i>0.81(J)</i>
	Orissa	..	..	(-)<i>0.20(K)</i>
	West Bengal	2.00	120.00	..
	D.V.C.	..	120.00	..
	A & N Islands	..	..	(+)<i>0.72(L)</i>
	SUB-TOTAL	2.00	240.00	(+) <i>1.33</i>
<i>Southern Region</i>	Andhra Pradesh	100.00	..	..
	Tamil Nadu	85.00	210.00	..
	Lakshadweep	..	..	(+)<i>0.17(M)</i>
	SUB-TOTAL	185.00	210.00	(+) <i>0.17</i>
<i>North Eastern Region</i>	Manipur	..	..	(+)<i>4.59(N)</i>
	Meghalaya	60.00	..	(+) <i>0.05(O)</i>
	Nagaland	..	..	(-)<i>0.02(P)</i>
	Tripura	..	..	(+)<i>0.01(Q)</i>
	Arunachal Pradesh	0.50	..	..
	Mizoram	..	..	(-)<i>0.33(R)</i>
	SUB-TOTAL	60.50	..	(+) <i>4.30</i>
	TOTAL (ALL INDIA)	812.85	2,193.60	(+) <i>4.90</i>

TABLE No. 15—Contd.

Name of State/U.T.	GAS	TOTAL
Haryana	110.00
Himachal Pradesh	(—)0.50
Jammu & Kashmir	35.00
Punjab	107.22
Rajasthan	(—)0.22
Uttar Pradesh	207.90
Central Sector	210.00
B.B.M.B.	450.00
SUB-TOTAL	1,119.85
Gujarat	505.20
Madhya Pradesh	183.00
Maharashtra	500.00
SUB-TOTAL	1,188.20
Bihar	0.81
Orissa	(—)0.20
West Bengal	122.00
D.V.C.	120.00
A & N Islands	0.72
SUB-TOTAL	243.33
Andhra Pradesh	100.00
Tamil Nadu	295.00
Lakshadweep	0.17
SUB-TOTAL	395.17
Manipur	4.59
Meghalaya	60.05
Nagaland	(—)0.02
Tripura	0.01
Arunachal Pradesh	0.50
Mizoram	(—)0.33
SUB-TOTAL	64.80
TOTAL (ALL INDIA)	3,011.35

SUMMARY

	Hydro	Steam	Diesel	Gas	Total
Gross Addition	812.50	2,219.60	..	..	3,032.10
Deletions/Retirements . . . . .	..	(—)26.00	(—)3.28	..	(—)29.28
Reporting differences	(+)0.35	..	(+)3.18	..	(+)3.53
Net Additions	812.85	2,193.60	4.90	..	3,011.35

TABLE NO. 15—*Contd.*

- (A) Reporting difference of (—) 0.05 MW in GHAROLA micro hydel station.
- (B) This includes (+) 0.08 MW of reporting difference at NAKODAR and VERKA diesel power houses & deletion of 2.86 MW at ABOHAR, FAZILKA & PATIALA diesel power houses.
- (C) Deletion of 0.22 MW at BRAN & CHABBRA diesel powerstations.
- (D) Reporting difference of (+) 0.40 MW in micro hydel power stations.
- (E) Deletion of 5.00 MW at BAREILLY steam power station.
- (F) Reporting difference of (+) 2.90 MW at diesel power station in DEHRADUN.
- (G) Deletion of 4.00 MW at SIKKA steam power station.
- (H) Reporting difference of (—) 0.80 MW in diesel power stations.
- (I) Deletion of 17.00 MW at NEPANAGAR steam power station which was taken over by Nepa Nagar Paper Mills during the year 1978-79.
- (J) Reporting difference of (+) 0.81 MW in diesel power houses.
- (K) Deletion of (—) 0.20 MW at RAIRAKHOLE diesel power house.
- (L) Reporting difference of (+) 0.72 MW in diesel power house.
- (M) Reporting difference of (+) 0.17 MW in diesel power house.
- (N) Reporting difference of (+) 4.59 MW in diesel power houses.
- (O) Reporting difference of (+) 0.05 MW in diesel power stations.
- (P) Reporting difference of (—) 0.02 MW in diesel power house.
- (Q) Reporting difference of (+) 0.01 MW in diesel power stations.
- (R) Reporting difference of (—) 0.33 MW in diesel power stations.

TABLE NO. 16
*Classification of undertakings *Capacitywise*
 As on 31-3-1979

Range of installed capacity (MW)	No. of Under- takings	Aggregate ins- talled capacity of the group (MW)	% to Total installed capacity	Energy gene- rated by the group (GWH)	% to total generation
Upto 1.00	1	0.72	Neg.	0.02	Neg.
Over 1.00 and Upto 5.00	5	12.94	0.05	11.87	0.01
Over 5.00 and Upto 10.00	3	24.39	0.09	37.40	0.04
Over 10.00 and Upto 25.00	5	77.79	0.29	175.43	0.17
Over 25.00 and Upto 50.00 . . . . .	..	..	..	..	..
Over 50.00 and Upto 100.00	2	168.00	0.63	519.55	0.51
Above 100.00	31	26,396.22	98.94	1,01,778.25	99.27
TOTAL	47	26,680.06	100.00	1,02,522.52	100.00

Ne_o—Negligible

*—Generating

TABLE NO. 17

Classification of power stations capacitywise

As on 31-3-1979

Range of Installed Station Capacity (MW)	No. of generating Stations	Installed Capacity Group Total (MW)	Percentage of Total Capacity
<i>Hydro Stations</i>			
Upto 1·00	28	12·75	0·12
Over 1·00 upto 10·00	27	99·92	0·92
Over 10·00 upto 50·00	38	1,182·15	10·91
Over 50·00 upto 100·00	21	1,471·50	13·58
Over 100·00 upto 500·00	23	5,355·75	49·44
Above 500·00	4	2,711·00	25·03
TOTAL	141	10,833·07	100·00
<i>Steam Stations</i>			
Upto 1·00	1	0·75	Neg.
Over 1·00 upto 10·00	21	122·38	0·82
Over 10·00 upto 50·00	27	512·80	3·45
Over 50·00 upto 100·00	14	1,070·00	7·19
Over 100·00 upto 500·00	39	9,485·00	63·77
Above 500·00	6	3,684·00	24·77
TOTAL	108	14,874·98	100·00

TABLE NO. 17—Contd.

Range of Installed Station Capacity (MW)	Energy Generated by the group (GWH)	Generation % of total	Average plant factor of the group
<i>Hydro Station.</i>			
Upto 1·00	18·41	0·04	16·48
Over 1·00 upto 10·00	355·34	0·75	40·37
Over 10·00 upto 50·00	4,449·53	9·44	42·97
Over 50·00 upto 100·00	5,795·56	12·29	44·96
Over 100·00 upto 500·00	22,173·48	47·02	47·26
Above 500·00	14,366·54	30·46	60·49
TOTAL	47,158·86	100·00	49·69
<i>Steam Station</i>			
Upto 1·00 . . . . .	..	..	..
Over 1·00 upto 10·00	222·37	0·43	20·74
Over 10·00 upto 50·00	1,613·63	3·10	35·92
Over 50·00 upto 100·00	5,273·20	10·14	56·26
Over 100·00 upto 500·00	32,873·65	63·19	39·56
Above 500·00	12,040·89	23·14	37·31
TOTAL	52,023·74	100·00	39·92

TABLE NO. 18

Classification of sets prime-moverwise-Capacitywise
As on 31-3-1979

Range of installed capacity of sets (MW)	Hydro			Steam		
	No. of sets	Installed capacity (MW)	% to Total	No. of sets	Installed capacity (MW)	% to Total
Upto 1.00	140	41.57	0.38	14	12.85	0.09
Over 1.00 and upto 5.00	52	175.30	1.62	79	286.28	1.92
Over 5.00 and upto 10.00	57	471.80	4.35	27	216.45	1.45
Over 10.00 and upto 20.00	73	1,046.15	9.66	37	577.25	3.88
Over 20.00 and upto 30.00	34	844.25	7.79	30	900.00	6.05
Over 30.00 and upto 50.00	48	1,990.00	18.37	28	1,350.60	9.08
Over 50.00 and upto 100.00	61	4,504.00	41.58	59	4,201.50	28.25
Over 100.00 and upto 200.00	13	1,760.00	16.25	50	6,490.00	43.63
Above 200.00 . . . . .	..	..	..	4	840.00	5.65
TOTAL	478	10,833.07	100.00	328	14,874.93	100.00

TABLE NO. 18—Contd.

Range of Installed Capacity of Sets (MW)	Gas			Nuclear		
	No. of Sets	Installed capacity (MW)	% to Total	No. of Sets	Installed capacity (MW)	% to Total
Upto 1.00 . . . . .	..	..	..	..	..	..
Over 1.00 and upto 5.00 . . . . .	..	..	..	..	..	..
Over 5.00 and upto 10.00	2	20.00	11.90	..	..	..
Over 10.00 and upto 20.00	2	25.00	14.88	..	..	..
Over 20.00 and upto 30.00	5	123.00	73.22	..	..	..
Over 30.00 and upto 50.00 . . . . .	..	..	..	..	..	..
Over 50.00 and upto 100.00 . . . . .	..	..	..	..	..	..
Over 100.00 and upto 200.00 . . . . .	..	..	..	..	..	..
Above 200.00 . . . . .	..	..	..	3	640.00	100.00
TOTAL	9	168.00	100.00	3	640.00	100.00

NOTE.— Setwise classification of Diesel Power Houses not given due to non-availability of setwise details in certain cases.

TABLE NO. 19
Classification of sets—Voltage wise
 As on 31-3-1979

Voltage of Generation	Type of Primemover	No. of Sets	Aggregate capacity (MW)
ALTERNATING CURRENT			
1. 33 KV	Steam	10	330.00
2. 10.5 KV to 13.8 KV	Hydro	288	10,453.40
	Steam	240	14,005.70
	Gas	9	168.00
	Nuclear	3	640.00
3. 5 KV to 6.6 KV	Hydro	43	272.00
	steam	43	444.61
4. 2 KV to 3.9 KV	Hydro	55	86.91
	Steam	32	94.22
5. 400 Voltage to 400 Voltage	Hydro	92	20.76
	Steam	3	0.40
TOTAL	Hydro	478	10,833.07
	Steam	328	14874.93
	Gas	9	168.00
	Nuclear	3	640.00

SECTION-III
GENERATION
(UTILITIES)

41—42

GENERATION

The All India gross electricity generation by the public utilities was 102522.52 GWH during 1978-79 as compared to 91369.03 GWH during 1977-78 thereby registering an increase of 12.21% in Electricity production.

Electricity generation from Steam generating stations continued to form the major proportion of total electricity production. The relative percentages of generation from Steam, Hydro, Diesel, Gas and Nuclear power stations were 53.75%, 46.00%, 0.05%, 0.50% & 2.70% respectively during the year 1978-79.

There were 108 steam stations and 141 Hydro stations existing in the country as on 31st March, 1979 generating 52023.74 GWH and 47158.86 GWH respectively. B.B. M.B. Complex the biggest of all the systems resulted in the maximum electricity production of 9927.81 GWH during the year.

Besides electricity generation by the Public Utilities, during the year under review captive plants of selected industries produced 7572.62 GWH comprising of 7211.30 GWH from Steam 13.22 GWH from Hydro 299.13 GWH from Diesel and 48.97 GWH from Gas turbine plants respectively. Apart from the above, electricity generation from captive plants of Railways was 34.47 GWH which comprised of 25.99 GWH from Steam and 8.48 GWH from Diesel plants respectively.

To sum up, total electricity production in the country including that from Captive plants during the year 1978-79 was 110129.61 GWH as compared to 98927.59 GWH during the year 1977-78, recording an increase of 11.32%.

The tables in this Section depict the salient features of electricity generation in various sectors and by different types of primemovers etc.

TABLE No. 20

Gross Energy Generation in the Country
(UTILITIES AND NON-UTILITIES)
Prime Moverwise during the year 1978-79

		(In GWH)		
Category	Year	Total	Hydro	Steam
Utilities	1978-79	1,02,522.52	47,158.86	52,023.74
	1977-78	91,369.03	38,007.16	50,556.77
	% Increase	12.21	24.08	2.90
Non-Utilities Selected Industries (I)	1978-79	7,572.62	13.22	7,211.30
	1977-78	7,519.73	11.75	7,087.280
	% Increase	0.70	12.51	1.75
Railways (II)	1978-79	34.47	..	25.49
	1977-78	38.83	..	26.055
	% Increase	(-)11.23	..	(-)0.23
TOTAL	1978-79	7,607.09	13.22	7,237.29
	1977-78	7,558.56	11.75	7,113.33
	% Increase	0.64	12.51	1.74
All India Gross Generation (Utilities + Non-Utilities)	1978-79	1,10,129.61	47,172.08	59,261.03
	1977-78	98,927.59	38,018.91	57,670.10
	% Increase	11.32	24.07	2.76

TABLE No. 20—Contd.

		(In GWH)		
Category	Year	Diesel	Gas	Nuclear
Utilities	1978-79	55.30	514.94	2,769.68
	1977-78	62.69	470.24	2,272.17
	% Increase	(-)11.79	9.51	21.90
Selected Industries (I)	1978-79	299.13	48.97	..
	1977-78	382.56	38.14	..
	% Increase	(-)21.81	28.40	..
Railways (II)	1978-79	8.48	..	..
	1977-78	12.78	..	..
	% Increase	(-)33.65	..	..
Total Non-Utilities (I+II)	1978-79	307.61	48.97	..
	1977-78	395.34	38.14	..
	% Increase	(-)22.19	28.40	..
All India gross generation (Utilities + Non utilities)	1978-79	362.91	563.91	2,769.68
	1977-78	458.03	508.38	2,272.71
	% Increase	(-)20.77	10.92	21.90

Note :- GWH=Million KWH

TABLE NO. 21
All India Electricity Generation
(UTILITIES ONLY)
Ownershipwise and Prime Moverwise during 1978-79

Sl. No.	Type of Primemover and ownership	Generation (Gross) GWH	% total All India	% Increase in generation over previous year
I HYDRO				
<i>Public Sector</i>				
	(a) State Electricity Boards	38,045.78	37.11	26.42
	(b) Electricity Deptts/ Govt. Undertaking /Corporation/Central Govt. Sector.	7,627.08	7.44	17.48
	(c) Municipalities . . . . .	..	..	..
	SUB—TOTAL	45,672.86	44.55	24.82
<i>Private Sector</i>				
	Companies!	1,486.00	1.45	4.87
	TOTAL (HYDRO)	47,158.86	46.00	24.08
II. STEAM				
<i>Public Sector</i>				
	(a) State Electricity Boards	35,516.51	34.64	4.37
	(b) Electricity Deptt/Govt. Undertakings/Corporation/Central Govt. Sector	9,697.84	9.46	(-)0.10
	(c) Municipalities	1,410.03	1.38	(-)11.39
	SUB—TOTAL	46,624.38	45.48	2.86
<i>Private Sector</i>				
	Companies	53,99.36	5.27	3.23
	TOTAL (STEAM)	52,023.74	50.75	2.90
III. DIESEL				
<i>Public Sector</i>				
	(a) State Electricity Boards	21.05	0.02	(-)27.41
	(b) Electricity Deptts/Govt. Undertakings/Corporation/Central Govt. Sector.	31.17	0.03	(-)1.83
	(c) Municipalities	3.08	Neg.	58.76
	SUB—TOTAL	55.30	0.05	(-)11.79
<i>Private Sector</i>				
	Companies . . . . .	..	..	..
	TOTAL (DIESEL)	55.30	0.05	(-)11.79

TABLE No. 21—Contd.

Sl. No.	Type of primemover and ownership	Generation (Gross) GWH	% total All India	% increase in generation over previous year
IV. GAS TURBINES				
<i>Public Sector</i>				
	(a) State Electricity Boards	514.94	0.50	9.51
	(b) Electricity Deptt./Govt. Undertakings/Corporation/Central Govt. Sector.	..	..	..
	(c) Municipalities . . . . .	..	..	..
	SUB—TOTAL	514.94	0.50	9.51
<i>Private Sector</i>				
	<i>Companies</i> . . . . .	..	..	..
	TOTAL (GAS)	514.94	0.50	9.51
V. NUCLEAR				
<i>Public Sector</i>				
	(a) State Electricity Board . . . . .	..	..	..
	(b) Electricity Deptts/Govt. Undertakings/Corporation/Central Govt. Sector.	2,769.68	2.70	21.90
	(c) Municipalities . . . . .	..	..	..
	SUB—TOTAL	2,769.68	2.70	21.90
<i>Private Sector</i>				
	<i>Companies</i> . . . . .	..	..	..
	TOTAL (NUCLEAR)	2,769.68	2.70	21.90
VI. GRAND TOTAL (I TO V)				
<i>Public Sector</i>				
	(a) State Electricity Boards (18 Nos.)	74,098.28	72.27	14.66
	(b) Electricity Deptts/Govt. Undertakings/Corporation/Central Govt. Sector (25 Nos.)	20,125.77	19.63	8.77
	(c) Municipalities (18 Nos.)	1413.11	1.38	(—)11.49
	SUB—TOTAL (61 Nos.)	95637.16	93.28	12.88
<i>Private Sector</i>				
	<i>Companies (34 Nos.)</i>	6,885.36	6.72	3.58
	TOTAL (ALL-INDIA) (95 Nos.)	1,02,522.52	100.00	12.21

NOTE :—Figures with in brackets show number of Undertakings.

TABLE NO. 22
All India Gross Energy Generation
(UTILITIES ONLY)
Region wise/Statewise during 1978-79

		(In GWH)		
Region	State/Uts.	Energy Generation		
		1978-79	1977-78	%increase
<i>Northern Region</i>	Haryana	3,855.12	3,019.59	27.67
	Himachal Pradesh	397.63	212.87	86.79
	Jammu and Kashmir	533.40	325.37	63.94
	Punjab	6,072.85	4,416.46	37.50
	Rajasthan	3,596.76	2,816.86	27.69
	Uttar Pradesh	1,01,39.46	9,299.07	9.04
	Chandigarh	0.08	0.10	(-)20.00
	Delhi	1,413.09	1,593.19	(-)11.30
	Central Sector	1,540.75	1,039.69	48.19
	SUB-TOTAL	2,7,549.14	2,27,23.20	21.24
<i>Western Region</i>	Gujarat	7,990.60	7,134.27	12.00
	Madhya Pradesh	5,242.90	5,193.70	0.95
	Maharashtra	15,491.46	14,482.47	6.97
	Goa, Daman & Diu . . . . .	..	..	..
	Dadra & Nagar Haveli . . . . .	..	..	..
	Central Sector	2,518.53	2,340.16	7.62
	SUB-TOTAL	3,12,43.49	29,150.60	7.18
<i>Eastern Region</i>	Bihar	2,472.87	2,578.20	(-)4.09
	Orissa	3,344.38	3,200.57	4.49
	West Bengal	5,145.14	5,149.91	(-)0.09
	D.V.C.	5,442.64	5,163.01	5.42
	A & Nicobar	5.96	8.20	(-)27.32
	Sikkim	7.51	7.51	..
	SUB-TOTAL	16,418.50	16,107.40	1.93
<i>Southern Region</i>	Andhra Pradesh	6199.42	5199.80	19.22
	Karnataka	5879.76	4549.49	29.24
	Kerala	5190.23	4470.60	16.10
	Tamil Nadu	6608.26	5618.54	17.62
	Pondicherry	—	—	—
	Lakshadweep	0.88	0.74	18.92
	Central Sector	2,493.00	2,693.00	(-)7.43
	SUB-TOTAL	26,371.55	22,532.17	17.04
<i>North Eastern Region</i>	Assam	658.53	588.65	11.87
	Manipur	20.62	12.84	60.59
	Meghalaya	215.45	222.76	(-)3.28
	Nagaland	1.55	0.46	236.96
	Tripura	31.64	22.48	40.75
	Arunachal Pradesh	10.20	6.11	66.94
	Mizoram	1.85	2.36	(-)21.61
		SUB-TOTAL	939.84	855.66	9.84
	TOTAL (ALL INDIA)	1,02,522.52	91,369.03	12.21

NOTE.—(i) Generation of jointly owned projects have been shown divided between the partner States as per their theoretical shares
(ii) GWH=Million KWH.

(iii) Data in respect of J & K, Sikkim, Manipur & Mizoram are estimated due to non-availability of information.

TABLE No. 23
Gross Energy Generation
(UTILITIES ONLY)
Ownershipwise--Regionwise/Statewise During 1978-79

(In GWH)

Region	State/U.Ts.	Public Sector		
		State Electricity Boards		
		1978-79	1977-78	% increase
Northern Region	Haryana	3,855.12	3,019.59	27.67
	Himachal Pradesh	397.63	212.87	86.79
	Jammu and Kashmir	533.40	325.37	63.94
	Punjab	6,072.85	4,416.46	37.50
	Uttar Pradesh	10,139.46	9,299.07	9.04
	Rajasthan	3,596.76	2,816.86	27.69
	Chandigarh . . . . .	..	..	..
	Delhi . . . . .	..	..	..
Central Sector . . . . .	..	..	..
	SUB-TOTAL	24,595.22	20,090.22	22.42
Western Region	Gujarat	6,641.55	5,808.21	14.35
	Madhya Pradesh	5,242.90	5,193.70	0.95
	Maharashtra	11,658.46	10,869.47	7.26
	Goa, Daman & Diu . . . . .	..	..	..
	Dadra and Nagar Haveli . . . . .	..	..	..
	Central Sector . . . . .	..	..	..
	SUB-TOTAL	23,542.91	21,871.38	7.64
Eastern Region.	Bihar	2,459.62	2,566.58	(-)-4.17
	Orissa	1,771.05	1,668.87	6.12
	West Bengal	2,747.52	2,436.31	12.77
	D.V.C. . . . .	..	..	..
	Andaman & Nicobar Islands . . . . .	..	..	..
	Sikkim . . . . .	..	..	..
	SUB-TOTAL	6,978.19	6,671.76	4.59
Southern Region	Andhra Pradesh	5,429.00	4,554.20	19.21
	Karnataka	880.49	533.46	65.05
	Kerala	5,190.23	4,470.60	16.10
	Tamil Nadu	6,608.26	5,618.54	17.62
	Pondicherry . . . . .	..	..	..
	Lakshadweep . . . . .	..	..	..
	Central Sector . . . . .	..	..	..
	SUB-TOTAL	18,107.98	15,176.80	19.31
North-Eastern Region .	Assam	658.53	588.65	11.87
	Manipur . . . . .	..	..	..
	Meghalaya	215.45	222.76	(-)-3.28
	Nagaland . . . . .	..	..	..
	Tripura . . . . .	..	..	..
	Arunachal Pradesh . . . . .	..	..	..
	Mizoram . . . . .	..	..	..
	SUB-TOTAL	873.98	811.41	7.71
	TOTAL (ALL INDIA)	74,098.28	64,621.57	14.66

NOTE.—(i) GWH-Million KWH.

(ii) Data in respect of J & K, Sikkim, Manipur and Mizoram are estimated due to non-availability of information.

TABLE NO. 23—Contd.

State/U.Ts	Public Sector		
	Electricity Department/Govt. Undertaking/Corporation/Central Sector		
	1978-79	1977-78	% increase
Haryana . . . . .	..	..	..
Himachal Pradesh . . . . .	..	..	..
Jammu and Kashmir . . . . .	..	..	..
Punjab . . . . .	..	..	..
Rajasthan . . . . .	..	..	..
Uttar Pradesh . . . . .	..	..	..
Chandigarh	0.08	0.10	(—)20.00
Delhi . . . . .	..	..	..
Central Sector	1,540.75	1,039.69	48.19
SUB-TOTAL	1,540.83	1,039.79	48.19
Gujarat . . . . .	..	..	..
Madhya Pradesh . . . . .	..	..	..
Maharashtra . . . . .	..	..	..
Goa, Daman and Diu. . . . .	..	..	..
Dadra and Nagar Haveli . . . . .	..	..	..
Central Sector	2,518.53	2,340.16	7.62
SUB-TOTAL	2518.53	2,340.16	7.62
Bihar	13.25	11.62	14.03
Orissa	1,573.33	1,531.70	2.72
West Bengal	694.29	1,001.89	(—)30.70
D. V. C.	5,442.64	5,163.01	5.42
Andaman & Nicobar Islands	5.96	8.20	(—)27.32
Sikkim	7.51	7.51	..
SUB-TOTAL	7,736.98	7,723.93	0.17
Andhra Pradesh	770.42	645.60	19.33
Karnataka	4,999.27	4,016.03	24.48
Kerala . . . . .	..	..	..
Tamil Nadu . . . . .	..	..	..
Pondicherry . . . . .	..	..	..
Lakshadweep	0.88	0.74	18.92
Central Sector	2,493.00	2,693.00	(—)7.43
SUB-TOTAL	8,263.57	7,355.37	12.35
Assam . . . . .	..	..	..
Manipur	20.62	12.84	60.59
Meghalaya . . . . .	..	..	..
Nagaland	1.55	0.46	236.96
Tripura	31.64	22.48	40.75
Arunachal Pradesh	10.20	6.11	66.94
Mizoram	1.85	2.36	(—)21.61
SUB-TOTAL	65.86	44.25	48.84
TOTAL (ALL INDIA)	20,125.77	18,503.50	8.77

TABLE NO. 23—Contd.

State/U.Ts	Public Sector		
	Municipalities		
	1978-79	1977-78	% Increase
Haryana
Himachal Pradesh
Jammu and Kashmir
Punjab
Rajasthan
Uttar Pradesh
Chandigarh
Delhi	1,413.09	1,593.19	(-)11.30
Central Sector
SUB-TOTAL	1,413.09	1,593.19	(-)11.30
Gujarat	0.02	0.01	100.00
Madhya Pradesh
Maharashtra
Goa, Daman and Diu
Dadra and Nagar Haveli
Central Sector
SUB-TOTAL	0.02	0.01	100.00
Bihar
Orissa
West Bengal	..	3.39	..
D.V.C.
Andaman and Nicobar Islands
Sikkim
SUB-TOTAL	..	3.39	..
Andhra Pradesh
Karnataka
Kerala
Tamil Nadu
Pondicherry
Lakshadweep
Central Sector
SUB-TOTAL
Assam
Manipur
Meghalaya
Nagaland
Tripura
Arunachal Pradesh
Mizoram
SUB-TOTAL
TOTAL (ALL-INDIA)	1,413.11	1,596.59	(-)11.49

TABLE NO. 23—Contd.

State/U.Ts.	Private Sector		
	Companies		
	1978-79	1977-78	% Increase
Harayana
Himachal Pradesh
Jammu & Kashmir
Punjab
Rajasthan
Uttar Pradesh
Chandigarh
Delhi
Central Sector
SUB-TOTAL
Gujarat	1,349.03	1,326.05	1.73
Madhya Pradesh
Maharashtra	3,833.00	3,613.00	6.09
Goa, Daman and Diu
Dadra and Nagar Haveli
Central Sector
SUB-TOTAL	5,182.03	4,939.05	4.92
Bihar
Orissa
West Bengal	1,703.33	1,708.32	(-)-0.29
D.V.C.
Andaman and Nicobar Islands
Sikkim
SUB-TOTAL	1,703.33	1,708.32	(-)-0.29
Andhra Pradesh
Karnataka
Kerala
Tamil Nadu
Pondicherry
Lakshadweep
Central Sector
SUB-TOTAL
Assam
Manipur
Meghalaya
Nagaland
Tripura
Arunachal Pradesh
Mizoram
SUB-TOTAL
TOTAL (ALL-INDIA)	6,885.36	6,647.37	3.58

Note.—Generation of jointly owned projects have been shown divided between the partner States as per their theoretical shares.

TABLE No. 24
Gross Energy Generation
(UTILITIES ONLY)
Prime Moverwise-Regionwise/Statewise during 1978-79

Region	State/U.T.s	Hydro		
		1978-79	1977-78	% Increase
<i>Northern Region</i>	Haryana	3,139.82	2,003.00	56.76
	Himachal Pradesh	397.57	212.75	86.87
	Jammu and Kashmir	525.83	314.00	67.46
	Punjab	5,202.27	3,599.97	44.51
	Rajasthan	2,941.00	2,033.51	44.63
	Uttar Pradesh	3,692.05	3,184.48	15.94
	Chandigarh	..	..	..
	Delhi	..	..	..
	Central Sector	..	..	..
	SUB—TOTAL	15,898.54	11,347.71	40.10
<i>Western Region</i>	Gujarat	1,160.92	1,292.26	(—)10.16
	Madhya Pradesh	862.75	1,069.22	(—)19.31
	Maharashtra	70,40.20	6,284.20	12.03
	Goa, Daman & Diu	..	..	..
	Dadra & Nagar Haveli	..	..	..
	Central Sector	..	..	..
		SUB—TOTAL	9,063.87	8,645.68	4.84
<i>Eastern Region</i>	Bihar	116.78	42.60	174.13
	Orissa	2,618.11	2,531.51	3.42
	West Bengal	56.80	91.59	(—)37.98
	D.V.C.	223.75	259.17	(—)13.67
	Andaman & Nicobar Islands	..	..	..
	Sikkim	5.59	5.59	..
		SUB—TOTAL	3,021.03	2,930.46	3.09
<i>Southern Region</i>	Andhra Pradesh	3,324.12	2,054.20	61.82
	Karnataka	5,879.76	4,549.49	29.24
	Kerala	5,190.23	4,470.60	16.10
	Tamil Nadu	4,526.49	3,766.68	20.17
	Pondicherry	..	..	..
	Lakshadweep	..	..	..
	Central Sector	..	..	..
		SUB—TOTAL	18,920.60	14,840.97	27.49
<i>North Eastern Region</i>	Assam	..	..	..
	Manipur	1.40	0.93	50.54
	Meghalaya	213.35	219.57	(—)2.83
	Nagaland	0.98	..	..
	Tripura	30.69	21.04	45.87
	Arunachal Pradesh	8.40	0.80	950.00
	Mizoram	..	..	..
		SUB—TOTAL	254.82	242.34	5.15
	TOTAL (ALL—INDIA)	47,158.86	38,007.16	24.08

TABLE NO. 24—Contd.

State/U.Ts	Steam		
	1978-79	1977-78	% Increase
Haryana	715.20	1,016.44	(—)29.64
Himachal Pradesh . . . . .	..	..	..
Jammu & Kashmir	6.87	10.74	(—)36.03
Punjab	870.38	808.33	7.68
Rajasthan	655.12	779.98	(—)16.01
Uttar Pradesh	6,441.67	6,111.84	5.40
Chandigarh . . . . .	..	..	..
Delhi	1,410.03	1,591.26	(—)11.39
Central Sector	1,057.75	841.99	25.62
SUB—TOTAL	11,157.02	11,160.58	(—)0.03
Gujarat	6,706.20	5,710.39	17.44
Madhya Pradesh	4,380.12	4,124.44	6.20
Maharashtra	8,451.26	8,198.27	3.09
Goa, Daman & Diu . . . . .	..	..	..
Dadra & Nagar Haveli . . . . .	..	..	..
Central Sector	231.85	265.69	(—)12.74
SUB—TOTAL	19,769.43	18,298.79	8.04
Bihar	2,355.24	2,535.25	(—)7.10
Orissa	726.27	669.06	8.55
West Bengal	5,072.94	5,045.50	0.54
D.V.C.	5,218.89	4,903.84	6.42
A. & N. Islands	2.06	0.69	198.55
Sikkim . . . . .	..	..	..
SUB—TOTAL	13,375.40	13,154.34	1.68
Andhra Pradesh	2875.30	3145.60	(—)8.59
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil-Nadu	2,081.77	1,851.86	12.42
Pondicherry . . . . .	..	..	..
Lakshadweep . . . . .	..	..	..
Central Sector	2,943.00	2,693.00	(—)7.43
SUB—TOTAL	7,450.07	7,690.46	(—)3.13
Assam	270.72	250.45	8.09
Manipur . . . . .	..	..	..
Meghalaya	1.10	2.15	(—)48.84
Nagaland . . . . .	..	..	..
Tripura . . . . .	..	..	..
Arunachal Pradesh . . . . .	..	..	..
Mizoram . . . . .	..	..	..
SUB—TOTAL	271.82	252.60	7.61
TOTAL (ALL-INDIA)	52,023.74	50,556.77	2.90

TABLE NO. 24—Contd.

State/U.Ts	Diesel		
	1978-79	1977-78	% Increase
Haryana	0.10	0.15	(—)33.33
Himachal Pradesh	0.06	0.12	(—)50.00
Jammu & Kashmir	0.70	0.63	11.11
Punjab	0.20	8.16	(—)97.55
Rajasthan	0.64	3.37	(—)81.01
Uttar Pradesh . . . . .	..	0.30	..
Chandigarh	0.08	0.10	(—)20.00
Delhi	2.06	1.93	58.55
Central Sector . . . . .	..	..	..
SUB—TOTAL	4.84	14.76	(—)67.21
Gujarat	0.09	0.03	200.00
Madhya Pradesh	0.03	0.04	(—)25.00
Maharashtra . . . . .	..	..	..
Goa, Daman & Diu . . . . .	..	..	..
Dadra and Nagar Haveli . . . . .	..	..	..
Central Sector . . . . .	..	..	..
SUB—TOTAL	0.12	0.07	71.43
Bihar	0.85	0.35	142.86
Orissa . . . . .	..	..	..
West Bengal	15.40	12.82	20.12
D.V.C. . . . .	..	..	..
A. & N. Islands	3.90	7.51	(—)48.07
Sikkim	1.92	1.92	..
SUB—TOTAL	22.07	22.60	(—)2.35
Andhra Pradesh . . . . .	..	..	..
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu . . . . .	..	..	..
Pondicherry . . . . .	..	..	..
Lakshadweep	0.88	0.74	18.92
Central Sector . . . . .	..	..	..
SUB—TOTAL	0.88	0.74	18.92
Assam	2.00	2.00	..
Manipur	19.22	11.91	61.38
Meghalaya	1.00	1.04	(—)3.85
Nagaland	0.57	0.46	23.91
Tripura	0.95	1.44	(—)34.03
Arunachal Pradesh	1.80	5.31	(—)66.10
Mizoram	1.85	2.36	(—)21.61
SUB—TOTAL	27.39	24.52	11.70
TOTAL (ALL-INDIA)	55.30	62.69	(—)11.79

TABLE NO. 24—Contd.

State/U.Ts	Gas		
	1978-79	1977-78	% Increase
Haryana
Himachal Pradesh
Jammu & Kashmir	:
Punjab
Rajasthan
Uttar Pradesh	5.74	2.45	134.29
Chandigarh
Delhi
Central Sector
SUB—TOTAL	5.74	2.45	134.29
Gujarat	123.39	131.59	(—)6.23
Madhya Pradesh
Maharashtra
Goa, Daman & Diu
Dadra & Nagar Haveli
Central Sector
SUB—TOTAL	123.39	131.59	(—)6.23
Bihar
Orissa
West Bengal
D.V.C.
A. & N. Islands
Sikkim
SUB—TOTAL
Andhra Pradesh
Karnataka
Kerala
Tamil Nadu
Pondicherry
Lakshadweep
SUB—TOTAL
Assam	385.81	336.20	14.76
Manipur
Meghalaya
Nagaland
Tripura
Arunachal Pradesh
Mizoram
SUB—TOTAL	385.81	336.20	14.76
TOTAL (ALL—INDIA)	514.94	470.24	9.51

TABLE No. 24—Contd.

State/U. Ts	Nuclear		
	1978-79	1977-78	% Increase
Haryana
Himachal Pradesh
Jammu and Kashmir
Punjab
Rajasthan
Uttar Pradesh
Chandigarh
Delhi
Central Sector	483.00	197.70	144.31
SUB—TOTAL	483.00	197.70	144.31
Gujarat
Madhya Pradesh
Maharashtra
Goa, Daman & Diu
Dadra and Nagar Haveli
Central Sector	2,286.68	2,074.47	10.23
SUB—TOTAL	2,286.68	2,074.47	10.23
Bihar
Orissa
West Bengal
D.V.C.
Andaman and Nicobar Islands
Sikkim
SUB—TOTAL
Andhra Pradesh
Karnataka
Kerala
Tamil Nadu
Pondicherry
Lakshadweep
Central Sector
SUB—TOTAL
Assam
Manipur
Meghalaya
Nagland
Tripura
Arunachal Pradesh
Mizoram
SUB—TOTAL
TOTAL (ALL—INDIA)	2,769.68	2,272.17	21.90

NOTE.—Generation of jointly owned projects have been shown divided between the partner States as per their theoretical shares.

TABLE No. 25
Gross Energy Generation by State Electricity Boards
Primumoverwise during 1978-79

Region	Name of the Board	Total (GWH)		
		1978-79	1977-78	% Increase
Northern Region	Haryana	3,855.12	3,019.59	27.67
	Himachal Pradesh	397.63	212.87	86.79
	Jammu & Kashmir	533.40	325.37	63.94
	Punjab	6,072.85	4,416.46	37.50
	Rajasthan	3,596.76	2,816.86	27.69
	Uttar Pradesh	10,139.46	9,299.07	9.04
	SUB—TOTAL	24,595.22	20,090.22	22.42
Western Region	Gujarat	6,641.55	5,808.21	14.35
	Madhya Pradesh	5,242.90	5,193.70	0.95
	Maharashtra	11,658.46	10,869.47	7.26
	SUB—TOTAL	23,542.91	21,871.38	7.64
Eastern Region	Bihar	2,459.62	2,566.58	(—)4.17
	Orissa	1,771.05	1,668.87	6.12
	West Bengal	2,747.52	2,436.31	12.77
	SUB—TOTAL	6,978.19	6,671.76	4.59
Southern Region	Andhra Pradesh	5,429.90	4,554.20	19.21
	Karnataka	880.49	533.46	65.05
	Kerala	5,190.23	4,470.60	16.10
	Tamil Nadu	6,608.26	5,618.54	17.62
	SUB—TOTAL	18,107.98	15,176.80	19.31
North Eastern Region	Assam	658.53	588.65	11.87
	Meghalaya	215.45	222.76	(—)3.28
	SUB—TOTAL	873.98	811.41	7.71
TOTAL (ALL—INDIA)		74,098.28	64,621.57	14.66

TABLE NO. 25—Contd.

(GWH)

Name of the Board	Hydro		% increase
	1978-79	1977-78	
Haryana	3,139.82	2,003.00	56.76
Himachal Pradesh	397.57	212.75	86.87
Jammu & Kashmir	525.83	314.00	67.46
Punjab	5,202.27	3,599.97	44.51
Rajasthan	2,941.00	2,033.51	44.63
Uttar Pradesh	3,692.05	3,184.48	15.94
SUB—TOTAL	15,898.54	11,347.71	40.10
Gujarat	1,160.92	1,292.26	(—)10.16
Madhya Pradesh	862.75	1,069.22	(—)19.31
Maharashtra	5,554.20	4,867.20	14.11
SUB—TOTAL	7,577.87	7,228.68	4.83
Bihar	103.53	30.98	234.18
Orissa	1,044.78	999.81	4.50
West Bengal	56.80	83.20	(—)35.60
SUB—TOTAL	1,205.11	1,118.99	7.70
Andhra Pradesh	2,553.70	1,408.60	81.29
Karnataka	880.49	533.46	65.05
Kerala	5,190.23	4,470.60	16.10
Tamil Nadu	4,526.49	3,766.68	20.17
SUB—TOTAL	13,150.91	10,179.34	29.19
Assam . . . . .	..	..	..
Meghalaya	213.35	219.57	(—)2.83
SUB—TOTAL	213.35	219.57	(—)2.83
(ALL —INDIA)	38,045.78	30,094.29	26.42

TABLE NO. 25—Contd.

Name of the Board	Steam		
	1978-79	1977-78	% Increase
Haryana	715.20	1,016.44	(—)29.64
Himachal Pradesh . . . . .	..	..	..
Jammu & Kashmir	6.87	10.74	(—)36.03
Punjab	870.38	803.33	7.68
Rajasthan	655.12	779.98	(—)16.01
Uttar Pradesh	6,441.67	6,111.84	5.40
SUB—TOTAL	8,689.24	8,727.33	(—)0.44
Gujarat	5,357.17	4,384.34	22.19
Madhya Pradesh	4,380.12	4,124.44	6.20
Maharashtra	6,104.26	6,002.27	1.70
SUB—TOTAL	15,841.55	14,511.05	9.17
Bihar	2,355.24	2,535.25	(—)7.10
Orissa	726.27	669.06	8.55
West Bengal	2,675.32	2,335.29	14.56
SUB—TOTAL	7,556.83	5,539.60	3.92
Andhra Pradesh	2,875.30	3,145.60	(—)8.59
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu	2,031.77	1,851.86	12.42
SUB—TOTAL	4,957.07	4,997.46	(—)0.81
Assam	270.72	250.45	8.09
Meghalaya	1.10	2.15	(—)48.84
SUB—TOTAL	271.82	252.60	7.61
TOTAL (ALL—INDIA)	35,516.51	34,028.04	4.37

TABLE No. 25—Contd.

Name of the Board	(GWH)		
	1978-79	1977-78	% Increase
Haryana	0.10	0.15	(—)33.33
Himachal Pradesh	0.06	0.12	(—)50.00
Jammu & Kashmir	0.70	0.63	11.11
Punjab	0.20	8.16	(—)97.55
Rajasthan	0.64	3.37	(—)81.01
Uttar Pradesh . . . . .	..	0.30	..
SUB—TOTAL	1.70	12.73	(—)86.65
Gujarat	0.07	0.02	250.00
Madhya Pradesh	0.03	0.04	(—)25.00
Maharashtra . . . . .	..	..	..
SUB—TOTAL	0.10	0.06	66.67
Bihar	0.85	0.35	142.86
Orissa . . . . .	..	..	..
West Bengal	15.40	12.82	20.12
SUB—TOTAL	16.25	13.17	23.39
Andhra Pradesh . . . . .	..	..	..
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu . . . . .	..	..	..
SUB—TOTAL . . . . .	..	..	..
Assam	2.00	2.00	..
Meghalaya	1.00	1.04	(—)3.85
SUB—TOTAL	3.00	3.04	(—)1.32
TOTAL (ALL—INDIA)	21.05	29.00	(—)27.41

TABLE NO. 25—Concl'd.

(GWH)

Name of the Board	Gas		
	1978-79	1977-78	% Increase
Haryana . . . . .	..	..	..
Himachal Pradesh . . . . .	..	..	..
Jammu & Kashmir . . . . .	..	..	..
Punjab . . . . .	..	..	..
Rajasthan . . . . .	..	..	..
Uttar Pradesh	5.74	2.45	134.29
SUB—TOTAL	5.74	2.45	134.29
Gujarat	123.39	131.59	(—)6.23
Madhya Pradesh . . . . .	..	..	..
Maharashtra . . . . .	..	..	..
SUB—TOTAL	123.39	131.59	(—)6.23
Bihar . . . . .	..	..	..
Orissa . . . . .	..	..	..
West Bengal . . . . .	..	..	..
SUB—TOTAL . . . . .	..	..	..
Andhra Pradesh . . . . .	..	..	..
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu . . . . .	..	..	..
SUB—TOTAL . . . . .	..	..	..
Assam	385.81	336.20	14.76
Meghalaya . . . . .	..	..	..
SUB—TOTAL	385.81	336.20	14.76
TOTAL (ALL—INDIA)	514.94	470.24	9.51

NOTE.—There is no nuclear power station under any state Electricity Board.

TABLE NO. 26

Gross Energy Generation by Electricity Depts., Govt., Undertakings, Central Sector, Municipalities and Private Sector

Prime Moverwise/Regionwise during 1978-79

(GWH)

Region	Ownership	Total		
		1978-79	1977-78	% Increase
<i>Northern Region</i>	I. Electricity Deptt./Govt.Undertaking/ Corp. Central Sector			
	Chandigarh	0.08	0.10	(—)20.00
	Central Sector	1,540.75	1,039.69	48.19
<i>Western Region</i>	Central Sector	2,518.53	2,340.16	7.62
<i>Eastern Region</i>	Bihar	13.25	11.62	14.03
	Orissa	1,573.33	1,531.70	2.72
	Sikkim	7.51	7.51	..
	West Bengal	694.29	1,001.89	(—)30.70
	D.V.C.	5,442.64	5,163.01	5.42
	A & N Islands	5.96	8.20	(—)27.32
<i>Southern Region</i>	Andhra Pradesh	770.42	645.60	19.33
	Karnataka	4,999.27	4,016.03	24.48
	Lakshadweep	0.88	0.74	18.92
	Central Sector	2,493.00	2,693.00	(—)7.43
<i>North Eastern Region</i>	Manipur	20.62	12.84	60.59
	Nagaland	1.55	0.46	236.96
	Tripura	31.64	22.48	40.75
	Arunachal Pradesh	10.20	6.11	66.94
	Mizoram	1.85	2.36	(—)21.61
	TOTAL (I)	20,125.77	18,503.50	8.77
	II. MUNICIPALITIES			
<i>Northern Region</i>	Delhi	1,413.09	1,593.19	(—)11.30
<i>Western Region</i>	Gujarat	0.02	0.01	100.00
<i>Eastern Region</i>	West Bengal . . . . .	..	3.39	..
	TOTAL (II)	1,413.11	1,596.59	(—)11.49
	III. Private Licencees			
<i>Western Region</i>	Gujarat	1,349.03	1,326.05	1.73
	Maharashtra	3,833.00	4,613.00	6.09
<i>Eastern Region</i>	West Bengal	1,703.33	1,708.32	(—)0.29
	TOTAL (III)	6,885.36	6,647.37	3.58

NOTE:—Data of Sikkim, Manipur & Mizoram estimated due to non-availability of information.

TABLE NO. 26—Contd.

Ownership	Hydro		
	1978-79	1977-78	% Increase
I. Electricity Deptt./Govt. Undertaking/ Corpn./Central Sector			
N. R.	Chandigarh . . . . .	..	..
	Central Sector . . . . .	..	..
W. R.	Central Sector . . . . .	..	..
E. R.	Bihar	13.25	11.62
	Orissa	1,573.33	1,531.70
	Sikkim	5.59	5.59
	West Bengal . . . . .	..	..
	D.V.C.	223.75	259.17
	A & N Islands . . . . .	..	..
S. R.	Andhra Pradesh	770.42	645.60
	Karnataka	4,999.27	4,016.03
	Lakshadweep . . . . .	..	..
	Central Sector . . . . .	..	..
N.E.R.	Manipur	1.40	0.93
	Nagaland	0.98	..
	Tripura	30.69	21.04
	Arunachal Pradesh	8.40	0.80
	Mizoram . . . . .	..	..
	TOTAL (I)	7,627.08	6,492.48
II. Municipalities			
N.R.	Delhi . . . . .	..	..
W.R.	Gujarat . . . . .	..	..
E.R.	West Bengal . . . . .	..	3.39
	TOTAL (II) . . . . .	..	3.39
III. Private Licencees			
W.R.	Gujarat . . . . .	..	..
	Maharashtra	1,486.00	1,417.00
E.R.	West Bengal . . . . .	..	..
	TOTAL (III)	1,486.00	1,417.00

TABLE No. 26—Contd.

Ownership		Steam		
		1978-79	1977-78	% increase
<i>I. Electricity Deptt./ Govt. Undertaking/ Corporation/ Central Sector</i>				
<i>N. R.</i>	Chandigarh	..	..	..
	Central Sector	1,057.75	841.99	25.62
<i>W. R.</i>	Central Sector	231.85	265.69	(—)12.74
<i>E. R.</i>	Bihar	..	..	..
	Orissa	..	..	..
	Sikkim	..	..	..
	West Bengal	694.29	1,001.89	(—)30.70
	D.V.C.	5,218.89	4,903.84	6.42
	A & N Islands	2.06	0.69	198.55
<i>S. R.</i>	Andhra Pradesh	..	..	..
	Karnataka	..	..	..
	Lakshadweep	..	..	..
	Central Sector	2,493.00	2,693.00	(—)7.43
<i>N. E. R.</i>	Manipur	..	..	..
	Nagaland	..	..	..
	Tripura	..	..	..
	Arunachal Pradesh	..	..	..
	Mizoram	..	..	..
	TOTAL (I)	9,697.84	9,707.10	(—)0.10
<i>II. Municipalities</i>				
<i>N. R.</i>	Delhi	1,410.03	1,591.26	(—)11.39
<i>W. R.</i>	Gujarat	..	..	..
<i>E. R.</i>	West Bengal	..	..	..
	TOTAL (II)	1,410.03	1,591.26	(—)11.39
<i>III. Private Licencees</i>				
<i>W. R.</i>	Gujarat	1,349.03	1,326.05	1.73
	Maharashtra	2,347.00	2,196.00	6.88
<i>E. R.</i>	West Bengal	1,703.33	1,708.32	(—)0.29
	TOTAL (III)	5,399.36	5,230.37	3.23

TABLE 26—Contd.

Ownership	Diesel			
	1978-79	1977-78	%increase	
N. R.	I. Electricity Deptt./ Govt. Undertaking/ Corporation/ Central Sector			
	Chandigarh	0.08	0.10	(—)20.00
	Central Sector . . . . .	..	..	..
W. R.	Central Sector . . . . .	..	..	..
E. R.	Bihar . . . . .	..	..	..
	Orissa . . . . .	..	..	..
	Sikkim	1.92	1.92	..
	West Bengal . . . . .	..	..	..
	D.V.C. . . . .	..	..	..
	A & N Islands	3.90	7.51	(—)48.07
S. R.	Andhra Pradesh . . . . .	..	..	..
	Karnataka . . . . .	..	..	..
	Lakshadweep	0.88	0.74	18.92
	Central Sector . . . . .	..	..	..
N. E. R.	Manipur	19.22	11.91	61.38
	Nagaland	0.57	0.46	23.91
	Tripura	0.95	1.44	(—)34.03
	Arunachal Pradesh	1.80	5.31	(—)66.10
	Mizoram	1.85	2.36	(—)21.61
	TOTAL : (I)	31.17	31.75	(—)1.83
	II. Municipalities			
N. R.	Delhi	3.06	1.93	58.55
W. R.	Gujarat	0.02	0.01	100.00
E. R.	West Bengal . . . . .	..	..	..
	TOTAL : (II)	3.08	1.94	58.76
	III. Private Licensees			
W. R.	Gujarat . . . . .	..	..	..
	Maharashtra . . . . .	..	..	..
E. R.	West Bengal . . . . .	..	..	..
	TOTAL : (III) . . . . .	..	..	..

TABLE 26—Contd.

Ownership		Nuclear		
		1978-79	1977-78	%increase
<i>I. Electricity Deptt. Govt. Undertaking/Corporation/Central Sector</i>				
<i>N. R.</i>	Chandigarh	..	..	..
	Central Sector	483.00	197.70	144.31
<i>W. R.</i>	Central Sector	2,286.68	2,074.47	10.23
<i>E. R.</i>	Bihar	..	..	..
	Orissa	..	..	..
	Sikkim	..	..	..
	West Bengal	..	..	..
	D.V.C.	..	..	..
	A & N Islands	..	..	..
<i>S. R.</i>	Andhra Pradesh	..	..	..
	Karnataka	..	..	..
	Lakshadweep	..	..	..
	Central Sector	..	..	..
<i>N. E. R.</i>	Manipur	..	..	..
	Nagaland	..	..	..
	Tripura	..	..	..
	Arunachal Pradesh	..	..	..
	Mizoram	..	..	..
TOTAL : (I)		2,769.68	2,272.17	21.90
<i>II. Municipalities</i>				
<i>N. R.</i>	Delhi	..	..	..
<i>W. R.</i>	Gujarat	..	..	..
<i>E. R.</i>	West Bengal	..	..	..
TOTAL : (II)		..	..	..
<i>III. Private Licences</i>				
<i>W. R.</i>	Gujarat	..	..	..
	Maharashtra	..	..	..
<i>E. R.</i>	West Bengal	..	..	..
TOTAL : (III)		..	..	..

TABLE No. 27
Classification of undertakings generationwise-1978-79*

Range of generation (GWH)	No. of Under - takings	Total energy generated by the group (GWH)	% to total	Installed capacity of the group (MW)	% to total
Under 1.00	3	0.98	Neg.	4.27	0.02
Over 1.00 upto 10.00	5	19.62	0.02	25.40	0.09
Over 10.00 upto 25.00	3	44.07	0.04	45.75	0.17
Over 25.00 upto 50.00	2	94.33	0.09	22.45	0.08
Over 50.00 upto 100.00	1	65.72	0.07	18.00	0.07
Over 100.00 upto 250.00	2	447.30	0.44	227.16	0.85
Over 250.00 upto 500.00	3	1,168.33	1.14	404.78	1.52
Over 500.00 upto 1000.00	5	3,538.51	3.45	938.91	3.52
Over 1000.00 upto 5000.00	14	34,718.31	33.86	8,436.05	31.62
Over 5000.00 upto 10000.00	7	40,627.43	39.63	10,781.86	40.41
Above 10000.00	2	21,797.92	21.26	5,775.46	21.65
TOTAL	47	1,02,522.52	100.00	26,680.06	100.00

General

SECTION—IV
CAPTIVE PLANTS

CAPTIVE PLANTS

As in previous years industrial Sector continued to be the largest constituent of energy consumption. Beside generation by utilities, a number of industries representing primary production of infrastructure materials such as iron steel, Aluminium, Cement, Paper, Fertilizer etc. have their own captive plants to supplement purchase from utilities or for emergency use in case of power cut or producing energy as byproduct of industrial process.

Based on data received from 1731 industrial units (units having their own captive plants with capacity of more than 100 KW or contract demand of more than 500 KVA) it is observed that, each category of industry viz Aluminium cement, chemicals, fertilizers, iron & steel, paper, Textiles and non-ferrous metals consumed more than 1000 GWH during 1978-79 details of which are enumerated below :—

Sl. No.	Category	Number of Industries covered	Energy Consumption (GWH)		% increase/decrease
			1977-78	1978-79	
1	Aluminium (P)	7	3,463.31	3,731.41	7.74
2	Cement (P)	47	2,054.81	2,050.30	(—) 0.22
3	Chemicals	145	3,376.73	4,046.69	19.84
4	Fertilizers	24	3,888.10	4,417.73	13.62
5	Iron & Steel (P)	10	4,562.23	4,978.45	9.12
6	Non-ferrous	29	1,643.64	1,684.87	2.51
7	Paper	40	1,487.41	1,552.47	4.37
8	Textiles	421	5,255.00	5,750.34	9.43
TOTAL		723	25,731.23	28,212.26	9.64

NOTE :—(P) = Primary.

It is significant from the above table that nearly 77.14% of the total consumption (36570.56 GWH) by 1731 industries is accounted for by mere 723 industries out of the above major categories.

Out of total generation of 7572.62 GWH by Industrial Captive plants, seven industrial categories viz Aluminium (Primary), Fertilizers, Iron & Steel (Primary), Mineral Oil & Petroleum, Paper, Sugar and Textiles generated 6216.50 GWH in aggregate by generating more than 500 GWH by each of the above category, details of which are given below :—

Name of Industry	Energy Generation (GWH)
Aluminium	1,033.01
Fertilizers	529.07
Iron & Steel (P)	2,019.03
Mineral Oil & Petroleum	592.14
Paper	636.17
Sugar	845.92
Textile	561.16
TOTAL	6,216.50

Nearly 82.09% of the captive generation is accounted for by these seven categories of industries.

Apart from industrial captive plants, Railways have also got captive generating sets which are mainly used as standby and for emergency purposes. Total capacity of captive plants of Railways during 1978-79 was 62.31 MW and 34.47 GWH were generated by these plants.

Various tables in this section give the detailed salient features of Captive Plants in the country.

TABLE NO. 28

Installed Generating Capacity of Selected Industries

Regionwise/Statewise as on 31st March, 1979

(In KW)

Region	State/UTs	Aluminium (P)	Aluminium (S)	Automobiles
<i>Northern Region</i>	Haryana	..	..	1,110
	Himachal Pradesh	..	..	..
	Jammu & Kashmir	..	..	..
	Punjab	..	..	220
	Rajasthan	..	..	..
	Uttar Pradesh	1,25,000	..	..
	Chandigarh	..	..	..
	Delhi	..	..	..
	SUB-TOTAL	1,25,000	..	1,330
<i>Western Region</i>	Gujarat	..	..	..
	Madhya Pradesh	..	..	..
	Maharashtra	..	680	2,562
	Goa, Daman & Diu	..	..	..
	D & N Haveli	..	..	..
	SUB-TOTAL	..	680	2,562
<i>Eastern Region</i>	Bihar	..	4,000	..
	Orissa	..	210	..
	West Bengal	18,450	588	1,320
	A & N Islands	..	..	..
	Sikkim	..	..	..
	SUB-TOTAL	18,450	4,798	1,320
<i>Southern Region</i>	Andhra Pradesh	..	..	..
	Karnataka	350	..	3,952
	Kerala	..	4,190	..
	Tamil Nadu	..	..	..
	Pondicherry	..	..	..
	Lakshadweep	..	..	..
	SUB-TOTAL	350	4,190	3,952
<i>North Eastern Region</i>	Assam	..	..	..
	Manipur	..	..	..
	Meghalaya	..	..	..
	Nagaland	..	..	..
	Tripura	..	..	..
	Arunachal Pradesh	..	..	..
	Mizoram	..	..	..
	SUB-TOTAL	..	..	..
	TOTAL (ALL INDIA)	1,43,800	9,668	9,164

TABLE NO. 28—Contd.

State/U.TS	Cement(P)	Cement(S)	Chemicals	Collieries
Haryana	2,700	2,186	660	..
Himachal Pradesh . . . . .	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	..
Punjab . . . . .	..	..	777	..
Rajasthan	28,050	..	4,500	..
Uttar Pradesh	567	..	15,398	..
Chandigarh . . . . .	..	..	1,240	..
Delhi . . . . .	..	..	22,500	..
SUB-TOTAL	31,317	2,186	45,075	..
Gujarat	16,212	630	55,774	..
Madhya Pradesh	19,305	266	936	4,600
Maharashtra . . . . .	..	966	45,324	..
Goa, Daman & Diu . . . . .	..	..	8,996	..
D & N Haveli . . . . .	..	..	..	..
SUB-TOTAL	35,517	1,862	1,11,030	4,600
Bihar	32,144	..	..	16,000
Orissa	210	790	..	..
West Bengal . . . . .	..	841	3,802	..
A & N Islands . . . . .	..	..	..	..
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	32,354	1,631	3,802	16,000
Andhra Pradesh	2,566	..	285	35,000
Karnataka	11,170	..	1,158	..
Kerala . . . . .	..	..	1,432	..
Tamil Nadu	6,061	1,378	9,084	..
Pondicherry . . . . .	..	..	..	..
Lakshadweep . . . . .	..	..	..	..
SUB-TOTAL	19,797	1,378	11,959	35,000
Assam . . . . .	..	..	453	962
Manipur . . . . .	..	..	..	..
Meghalaya . . . . .	..	..	..	..
Nagaland . . . . .	..	..	..	..
Tripura . . . . .	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL	..	..	453	962
TOTAL (ALL INDIA)	1,18,985	7,057	1,72,319	56,562

TABLE NO. 28—Contd.

State/UTs	Engineering (Elec)	Fertilizers	Food Products	Heavy Engineering
Haryana	1,412	..	90	..
Himachal Pradesh . . . . .	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	..
Punjab	150	545	1,603	..
Rajasthan	304	35,160	20	720
Uttar Pradesh	14,950	..	5,648	3,853
Chandigarh	112	..	..	..
Delhi . . . . .	..	..	194	..
SUB-TOTAL	16,928	35,705	5,555	4,573
Gujarat	623	2,110	..	..
Madhya Pradesh	3,100	..	381	..
Maharashtra	10,128	1,352	5,222	6,060
Goa, Daman & Diu . . . . .	..	..	..	..
D. & N. Haveli . . . . .	..	..	..	..
SUB-TOTAL	13,851	3,462	5,603	6,060
Bihar	1,008	81,780	..	750
Orissa . . . . .	..	..	..	..
West Bengal	5,285	2,250	12,047	2,846
A & N Islands . . . . .	..	..	..	..
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	6,293	84,030	12,047	3,596
Andhra Pradesh	440	428	1,224	1,100
Karnataka	8,919	..	940	5,523
Kerala . . . . .	..	17,227	1,432	..
Tamil Nadu	1,064	3,125	2,435	3,948
Pondicherry . . . . .	..	..	..	..
Lakshadweep . . . . .	..	..	..	..
SUB-TOTAL	10,423	20,780	6,031	10,571
Assam . . . . .	..	1,750	1,106	..
Manipur . . . . .	..	..	..	..
Meghalaya . . . . .	..	..	..	..
Nagaland . . . . .	..	..	..	..
Tripura . . . . .	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL . . . . .	..	1,750	1,106	..
TOTAL (ALL INDIA)	47,495	1,45,727	30,342	24,800

TABLE No. 28—Contd.

State/UTs	Iron & Steel (P)	Iron & Steel (S)	Jute	Light Engineering
Haryana	..	2,095	..	5,103
Himachal Pradesh	..	..	..	..
Jammu & Kashmir	..	..	..	399
Punjab	..	27	..	1,171
Rajasthan	..	..	..	3,531
Uttar Pradesh	..	632	2,278	4,124
Chandigarh	..	..	..	20
Delhi	..	..	..	..
SUB-TOTAL	..	2,754	2,278	14,348
Gujarat	..	425	..	980
Madhya Pradesh	36,000	..	..	..
Maharashtra	..	4,294	..	8,397
Goa, Daman & Diu	..	..	..	..
Dadra & Nagar Haveli	..	..	..	..
SUB-TOTAL	36,000	4,719	..	9,377
Bihar	2,65,000	900	1,500	..
Orissa	1,40,152	..	..	..
West Bengal	80,000	88	54,633	1,030
A & N Islands	..	..	..	..
Sikkim	..	..	..	..
SUB-TOTAL	4,85,152	988	56,133	1,030
Andhra Pradesh	..	..	2,705	..
Karnataka	1,760	..	..	2,272
Kerala	..	..	..	651
Tamil Nadu	..	618	..	4,123
Pondicherry	..	..	..	..
Lakshadweep	..	..	..	..
SUB-TOTAL	1,760	618	2,705	7,051
Assam	..	..	..	..
Manipur	..	..	..	..
Meghalaya	..	..	..	..
Nagaland	..	..	..	..
Tripura	..	..	..	..
Arunachal Pradesh	..	..	..	..
Mizoram	..	..	..	..
SUB-TOTAL	..	..	..	..
TOTAL (ALL INDIA)	5,22,912	9,079	61,116	31,806

P = Primary,

S = Secondary

TABLE No. 28—Contd.

State/UTs	Mineral Oil & Petroleum	Mining & Quarrying	Miscellaneous	Non-Ferrous	Paper
Haryana . . . . .	..	..	3,616	..	9,750
Himachal Pradesh . . . . .	..	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	..	..
Punjab . . . . .	..	..	1,817	..	..
Rajasthan . . . . .	..	..	..	19,392	..
Uttar Pradesh . . . . .	..	..	6,181	..	5,840
Chandigarh . . . . .	..	..	720	..	..
Delhi . . . . .	..	..	..	..	..
SUB-TOTAL . . . . .	..	..	12,334	19,392	15,590
Gujarat	24,000	200	236	..	6,000
Madhya Pradesh . . . . .	..	..	..	1,385	33,000
Maharashtra . . . . .	..	..	7,195	48	9,125
Goa, Daman & Diu . . . . .	..	500	150	..	..
Dadra & Nagar Haveli . . . . .	..	..	..	..	..
SUB-TOTAL	24,000	700	7,581	1,433	48,125
Bihar	24,000	150	800	9,530	32
Orissa . . . . .	..	..	..	978	16,700
West Bengal	31,625	..	12,466	..	35,448
A & N Islands . . . . .	..	..	..	..	..
Sikkim . . . . .	..	..	..	..	..
SUB-TOTAL	55,625	150	13,266	10,508	52,180
Andhra Pradesh	75	..	435	32	35,400
Karnataka . . . . .	..	..	3,709	7,863	11,721
Kerala . . . . .	..	..	540	..	180
Tamil Nadu	22,400	..	1,465	..	7,500
Pondicherry . . . . .	..	..	..	..	..
Lakshadweep . . . . .	..	..	..	..	..
SUB-TOTAL	22,475	..	6,149	7,895	54,801
Assam	43,786	..	755	..	3,300
Manipur . . . . .	..	..	..	..	..
Meghalaya . . . . .	..	..	..	..	..
Nagaland . . . . .	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..	..
Mizoram . . . . .	..	..	..	..	..
SUB-TOTAL	43,786	..	755	..	3,300
TOTAL (ALL INDIA)	1,45,886	850	40,085	39,228	1,73,996

TABLE No. 28—Contd.

State/UTs	Plastic	Rubber	Sugar	Textile	Total
Haryana . . . . .	..	1,821	8,638	11,620	50,801
Himachal Pradesh . . . . .	..	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	..	399
Punjab . . . . .	..	..	6,900	6,996	20,206
Rajasthan . . . . .	..	..	1,070	14,107	1,06,854
Uttar Pradesh . . . . .	..	1,088	94,599	33,233	3,11,391
Chandigarh . . . . .	..	..	..	..	2,092
Delhi . . . . .	..	..	..	7,000	296,94
SUB-TOTAL . . . . .	..	2,909	1,11,207	72,956	5,21,437
Gujarat . . . . .	..	..	25,845	31,811	1,64,846
Madhya Pradesh . . . . .	..	..	5,494	48,274	1,52,741
Maharashtra	1,050	4,705	1,26,841	65,862	2,99,811
Goa, Daman & Diu . . . . .	..	..	..	..	9,646
Dadra & Nagar Haveli . . . . .	..	..	..	..	..
SUB-TOTAL	1,050	4,705	1,58,180	1,45,947	6,27,044
Bihar . . . . .	..	..	23,245	..	6,60,839
Orissa . . . . .	..	..	3,335	2,000	1,64,375
West Bengal	125	4,400	1,112	4,195	2,72,551
A & N Islands . . . . .	..	..	..	..	..
Sikkim . . . . .	..	..	..	..	..
SUB-TOTAL	125	4,400	27,692	6,195	8,97,765
Andhra Pradesh	2,970	..	44,783	6,316	1,33,759
Karnataka . . . . .	..	100	37,278	19,242	1,15,957
Kerala . . . . .	..	1,100	4,805	12,716	44,273
Tamil Nadu	1,760	1,031	36,302	51,300	1,53,599
Pondicherry . . . . .	..	..	2,000	3,019	5,019
Lakshadweep . . . . .	..	..	..	..	..
SUB-TOTAL	4,730	2,231	1,25,168	92,593	4,52,607
Assam . . . . .	..	..	2,560	..	54,672
Manipur . . . . .	..	..	..	..	..
Meghalaya . . . . .	..	..	..	..	..
Nagaland . . . . .	..	..	1,756	..	1,756
Tripura . . . . .	..	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..	..
Mizoram . . . . .	..	..	..	..	..
SUB-TOTAL . . . . .	..	..	4,316	..	56,428
TOTAL (ALL INDIA)	5,905	14,245	4,26,563	3,17,691	2,555,281

TABLE NO. 29

Gross Electricity Generation by selected Industries

Regionwise/Statewise during 1978-79

(GWH)

Region	State/UTs.	Aluminium (P)	Aluminium (S)	Automobiles
<i>Northern Region</i>	Haryana . . . . .	..	..	1·215
	Himachal Pradesh . . . . .	..	..	..
	Jammu & Kashmir . . . . .	..	..	..
	Punjab . . . . .	..	..	..
	Rajasthan . . . . .	..	..	..
	Uttar Pradesh	1033·007	..	..
	Chandigarh . . . . .	..	..	..
	Delhi . . . . .	..	..	..
	SUB-TOTAL	1033·007	..	1·215
<i>Western Region</i>	Gujarat . . . . .	..	..	..
	Madhya Pradesh . . . . .	..	..	..
	Maharashtra . . . . .	..	1·265	2·788
	Goa, Daman & Diu . . . . .	..	..	..
	Dadra & Nagar Have ¹ . . . . .	..	..	..
		SUB-TOTAL	1·265	2·788
<i>Eastern Region</i>	Bihar . . . . .	..	21·843	..
	Orissa . . . . .	..	0·004	..
	West Bengal . . . . .	..	0·156	..
	Andaman & Nicobar Islands . . . . .	..	..	..
	Sikkim . . . . .	..	..	..
		SUB-TOTAL	22·003
<i>Southern Region</i>	Andhra Pradesh . . . . .	..	..	..
	Karnataka . . . . .	..	..	2·330
	Kerala . . . . .	..	5·680	..
	Tamil Nadu . . . . .	..	..	..
	Pondicherry . . . . .	..	..	..
	Lakshadweep . . . . .	..	..	..
		SUB-TOTAL	5·680	2·330
<i>North Eastern Region</i>	Assam . . . . .	..	..	..
	Manipur . . . . .	..	..	..
	Meghalaya . . . . .	..	..	..
	Nagaland . . . . .	..	..	..
	Tripura . . . . .	..	..	..
	Arunachal Pradesh . . . . .	..	..	..
	Mizoram . . . . .	..	..	..
		SUB-TOTAL
	TOTAL (ALL INDIA)	1033·007	28·948	6·333

TABLE NO. 29—Contd.

(GWH)				
State/UTs	Cement (P)	Cement (S)	Chemicals	Collieries
Haryana	0.082	1.576	0.049	..
Himachal Pradesh . . . . .	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	..
Punjab . . . . .	..	..	0.020	..
Rajasthan	75.111	..	22.085	..
Uttar Pradesh . . . . .	..	..	35.201	..
Chandigarh . . . . .	..	..	0.216	..
Delhi . . . . .	..	..	116.429	..
SUB-TOTAL	75.193	1.576	174.000	..
Gujarat	59.945	0.773	162.990	..
Madhya Pradesh	127.293	0.058	0.098	8.205
Maharashtra . . . . .	..	0.515	55.059	..
Goa, Daman & Diu . . . . .	..	..	45.727	..
Dadra & Nagar Haveli . . . . .	..	..	..	..
SUB-TOTAL	187.238	1.346	263.874	8.205
Bihar	125.828	..	..	54.656
Orissa . . . . .	..	0.040	..	..
West Bengal . . . . .	..	0.130	2.044	..
Andaman & Nicobar Islands . . . . .	..	..	..	..
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	125.828	0.170	2.044	54.656
Andhra Pradesh	0.367	..	0.005	118.449
Karnataka	9.202	..	2.777	..
Kerala . . . . .	..	..	0.119	..
Tamil Nadu	0.124	0.839	13.663	..
Pondicherry . . . . .	..	..	..	..
Lakshadweep . . . . .	..	..	..	..
SUB-TOTAL	9.693	0.839	16.564	118.449
Assam . . . . .	..	..	0.408	0.024
Manipur . . . . .	..	..	..	..
Meghalaya . . . . .	..	..	..	..
Nagaland . . . . .	..	..	..	..
Tripura . . . . .	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL . . . . .	..	..	0.408	0.024
TOTAL (ALL INDIA)	397.952	3.931	456.890	181.334

TABLE NO. 29—Contd.

State/UTs.	Electrical Engineering	Fertilizer	Food Products	Heavy Engineering
Haryana	0.811	..	0.002	..
Himachal Pradesh . . . . .	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	..
Punjab	0.016	..	0.679	..
Rajasthan	0.098	239.596	0.001	0.111
Uttar Pradesh	54.952	..	2.678	0.077
Chandigarh	0,006	..	..	..
Delhi . . . . .	..	..	0.047	..
SUB-TOTAL	55.883	239.596	3.407	0.188
Gujarat	0.029	0.001	..	..
Madhya Pradesh	6.629	..	0.054	..
Maharashtra	10.716	0.120	2.850	7.967
Goa, Daman & Diu . . . . .	..	..	..	..
Dadra & Nagar Haveli . . . . .	..	..	..	..
SUB-TOTAL	17.374	0.121	2.904	7.967
Bihar	0.053	230.420	..	..
Orissa . . . . .	..	..	..	..
West Bengal	1.760	2.860	5.966	0.405
Andaman & Nicobar Islands . . . . .	..	..	..	..
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	1.813	233.280	5.966	0.405
Andhra Pradesh	0.013	0.284	0.121	0.046
Karnataka	5.751	..	0.868	1.799
Kerala . . . . .	..	55.053	0.180	..
Tamil Nadu	0.182	0.071	0.273	0.900
Pondicherry . . . . .	..	..	..	..
Lakshadweep . . . . .	..	..	..	..
SUB-TOTAL	5.946	55.408	1.442	2.745
Assam . . . . .	..	0.668	0.178	..
Manipur . . . . .	..	..	..	..
Meghalaya . . . . .	..	..	..	..
Nagaland . . . . .	..	..	..	..
Tripura . . . . .	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL . . . . .	..	0.668	0.178	..
TOTAL (ALL INDIA)	81.016	529.073	13.897	11.305

TABLE NO. 29—Contd.

(GWH)				
State/UTs	Iron & Steel (P)	Iron Steel (S)	Jute	Light Engineering
Haryana	0.393	..	1.832
Himachal Pradesh
Jammu & Kashmir	0.040
Punjab	0.441
Rajasthan	2.131
Uttar Pradesh	0.532	0.631	0.794
Chandigarh
Delhi
SUB-TOTAL	0.925	0.631	5.238
Gujarat	0.082	..	0.021
Madhya Pradesh	246.381	..	..	..
Maharashtra	4.466	..	8.775
Goa, Daman & Diu
Dadra & Nagar Haveli
SUB-TOTAL	246.381	4.548	..	8.796
Bihar	943.203	..	6.470	..
Orissa	612.108	..	..	..
West Bengal	217.333	0.008	74.804	0.273
Andaman & Nicobar Islands
Sikkim
SUB-TOTAL	1,772.644	0.008	81.274	0.273
Andhra Pradesh	0.245	..
Karnataka	1.327
Kerala	0.015
Tamil Nadu	0.003	..	3.093
Pondicherry
Lakshadweep
SUB-TOTAL	0.003	0.245	4.435
Assam
Manipur
Meghalaya
Nagaland
Tripura
Arunachal Pradesh
Mizoram
SUB-TOTAL
TOTAL (ALL INDIA)	2,019.025	5.484	82.150	18.742

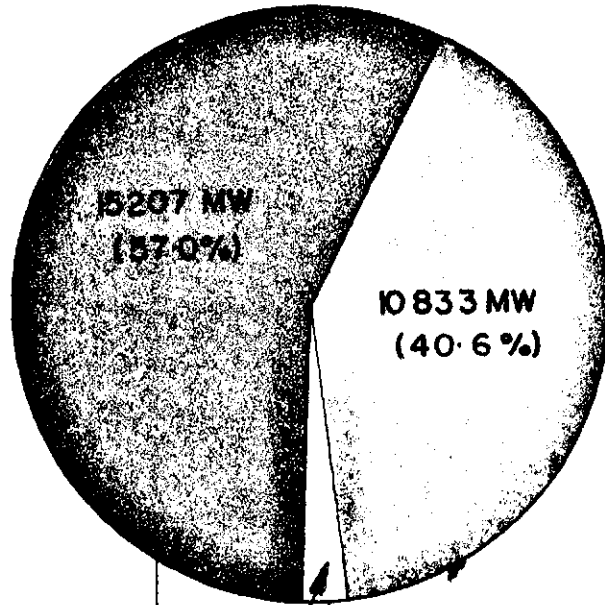
TABLE NO. 29—Contd.

(GWH)

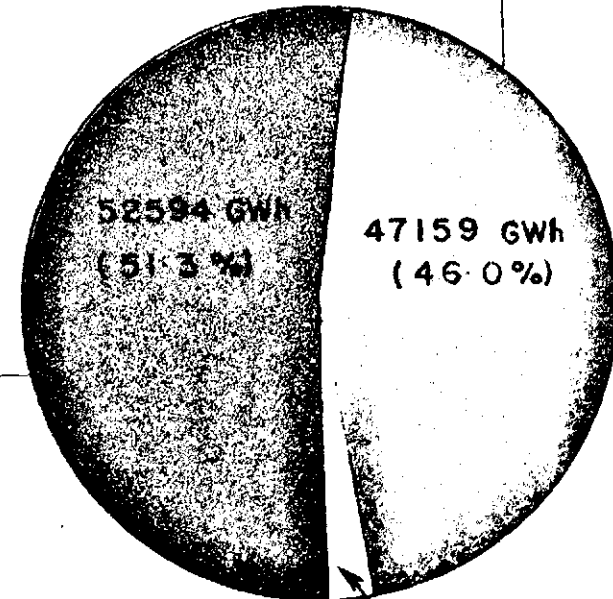
State/UTs	Mineral Oil & Petroleum	Mining & Quarrying	Miscellaneous	Non-ferrous	Paper
Haryana	..	..	0.312	..	65.490
Himachal Pradesh	..	..	..	..	..
Jammu & Kashmir	..	..	..	..	..
Punjab	..	..	0.963	..	..
Rajasthan	..	..	..	1.498	..
Uttar Pradesh	..	..	4.560	..	17.816
Chandigarh	..	..	0.072	..	..
Delli	..	..	..	..	..
SUB-TOTAL	..	..	5.907	1.498	83.306
Gujarat	169.226	0.045	0.022	..	17.759
Madhya Pradesh	..	..	..	0.078	91.364
Maharashtra	..	..	8.369	0.003	17.424
Goa, Daman & Diu	..	..	0.003	..	..
Dadra & Nagar Haveli	..	..	..	..	..
SUB-TOTAL	169.226	0.045	8.394	0.031	126.547
Bihar	103.078	0.037	0.650	22.192	0.012
Orissa	..	..	..	0.015	99.209
West Bengal	114.252	..	3.664	..	199.591
Andman & Nicobar Islands	..	..	..	..	..
Sikkim	..	..	..	..	..
SUB-TOTAL	217.330	0.037	4.324	22.207	218.812
Andhra Pradesh	..	..	0.771	0.009	120.608
Karnataka	..	..	1.936	1.112	44.785
Kerala	..	..	0.920	..	0.015
Tamil Nadu	129.820	..	1.915	..	24.974
Pondicherry	..	..	..	..	..
Lakshadweep	..	..	..	..	..
SUB-TOTAL	129.820	..	4.642	1.121	190.382
Assam	75.767	..	0.475	..	17.120
Manipur	..	..	..	..	..
Meghalaya	..	..	..	..	..
Nagaland	..	..	..	..	..
Tripura	..	..	..	..	..
Arunachal Pradesh	..	..	..	..	..
Mizoram	..	..	..	..	..
SUB-TOTAL	75.767	..	0.475	..	17.120
TOTAL (ALL INDIA)	592.143	0.082	23.742	24.907	636.167

INSTALLED GENERATING CAPACITY & ELECTRICITY GENERATION (UTILITIES) 1978-79

INSTALLED CAPACITY
(26680MW)



ELECTRICITY GENERATION
GROSS
(102523 GWh)



HYDRO

THERMAL

NUCLEAR

640 MW
(2.4%)

2770 GWh
(2.7%)

TABLE 29—Contd.

						(GW H)
State/UTs	Plastic	Rubber	Sugar	Textile	Total	
Haryana . . . . .	..	0.114	23.102	4.688	99.666	
Himachal Pradesh . . . . .	..	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	..	0.040	
Punjab . . . . .	..	..	13.239	1.326	16.684	
Rajasthan . . . . .	..	..	1.308	9.166	351.105	
Uttar Pradesh . . . . .	..	0.451	167.247	15.942	1,332.988	
Chandigarh . . . . .	..	..	..	..	0.274	
Delhi . . . . .	..	..	..	40.202	156.678	
SUB-TOTAL . . . . .	..	0.565	204.896	70.424	1,957.455	
Gujarat . . . . .	..	..	59.447	59.160	529.500	
Madhya Pradesh . . . . .	..	..	9.381	185.041	674.582	
Maharashtra	0.542	8.257	299.686	119.525	548.327	
Goa, Daman & Diu . . . . .	..	..	..	..	45.730	
Dadra & Nagar Haveli . . . . .	..	..	..	..	..
SUB-TOTAL	0.542	8.257	368.514	363.726	1,798.139	
Bihar . . . . .	..	..	23.422	..	1,531.874	
Orissa . . . . .	..	..	2.237	13.535	727.148	
West Bengal	0.002	2.467	0.928	2.798	549.441	
Andaman & Nicobar Islands . . . . .	..	..	..	..	..
Sikkim . . . . .	..	..	..	..	..
SUB-TOTAL	0.002	2.467	26.587	16.333	2,808.463	
Andhra Pradesh	6.857	..	67.818	8.061	323.654	
Karnataka . . . . .	..	0.076	80.097	27.356	179.416	
Kerala . . . . .	..	..	8.600	1.768	71.450	
Tamil Nadu	0.541	0.102	80.070	73.289	329.859	
Pondicherry . . . . .	..	..	5.083	0.200	5.283	
Lakshadweep . . . . .	..	..	..	..	..
SUB-TOTAL	7.398	0.178	241.668	110.674	909.662	
Assam . . . . .	..	..	1.472	..	96.112	
Manipur . . . . .	..	..	..	..	..
Meghalaya . . . . .	..	..	..	..	..
Nagaland . . . . .	..	..	2.786	..	2.786	
Tripura . . . . .	..	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..	..
Mizoram . . . . .	..	..	..	..	..
SUB-TOTAL . . . . .	..	..	4.258	..	98.898	
TOTAL (ALL INDIA)	7.942	11.467	845.923	561.157	7,572.617	

TABLE NO. 30

Electricity production and consumption in selected industries Industrywise during 1978-79

Name of Industry	No. of factories covered	INSTALLED CAPACITY (KW)			Total
		Steam	Diesel	Hydro/Gas	
Aluminium (P)	7	143,450	350	..	143,800
Aluminium (S)	10	7,250	2,418	..	9,668
Automobile	13	1,320	7,844	..	9,164
Cement (P)	47	106,230	12,755	..	118,985
Cement (S)	22	..	7,057	..	7,057
Chemical	145	100,858	61,461	10,000(G)	172,319
Collieries	111	56,288	274	..	56,562
Electrical Engg.	77	15,000	32,495	..	47,495
Fertilizer	24	137,480	6,247	..	143,727
Food Products	117	1,600	28,742	..	30,342
Heavy Engineering	33	..	24,800	..	24,800
Iron & Steel (P)	10	521,800	1,112	..	522,912
Iron & Steel (S)	88	..	9,079	..	9,079
Jute	79	24,638	36,478	..	61,116
Light Engineering	101	..	31,806	..	31,806
Mineral Oil & Petroleum	14	107,900	3,716	34,270 (G)	145,886
Mining & Quarrying	13	..	850	..	850
Miscellaneous	96	6,303	33,782	..	40,085
Non-Ferrous	29	9,500	29,728	..	39,228
Paper	40	167,798	6,198	..	173,996
Plastic	8	2,970	2,935	..	5,905
Rubber	12	..	14,245	..	14,245
Sugar	214	389,641	36,922	..	426,563
Textile	421	149,204	165,875	2,612 (H)	317,691
TOTAL	1,731	1,949,230	559,169	44,270 (Gas) <u>2,612</u> (Hydro)	2,555,281

TABLE NO. 30—Contd.

Name of Industry	ENERGY GENERATED (GWH)			
	Steam	Diesel	Hydro/Gas	Total
Aluminium (P)	1,033.007	..	..	1,033.007
Aluminium (S)	27.507	1.441	..	28.948
Automobile	..	6.333	..	6.333
Cement (P)	397.695	0.257	..	397.952
Cement (S)	..	3.931	..	3.931
Chemical	411.689	29.501	15.700(G)	456.890
Collieries	181.318	0.016	..	181.334
Electrical Engg.	58.839	22.177	..	81.016
Fertilizer	528.591	0.482	..	529.073
Food Products	..	13.897	..	13.897
Heavy Engineering	..	11.305	..	11.305
Iron & Steel (P)	2,019.025	..	..	2,019.025
Iron & Steel (S)	..	5.484	..	5.484
Jute	62.954	19.196	..	82.150
Light Engineering	..	18.742	..	18.742
Mineral Oil & Petroleum	546.479	12.396	33.268(G)	592.143
Mining & Quarrying	..	0.082	..	0.082
Miscellaneous	4.084	19.658	..	23.742
Non-Ferrous	22.192	2.715	..	24.907
Paper	634.022	2.145	..	636.167
Plastic	6.857	1.085	..	7.942
Rubber	..	11.467	..	11.467
Sugar	829.127	16.796	..	845.923
Textile	447.918	100.020	13.219(H)	561.157
TOTAL	7,211.304	299.126	48.968 (Gas) 13.219 (Hydro)	7,572.617

TABLE NO. 30—*Contd.*

Name of the Industry	Energy used in station Auxiliary	Energy purchased from Utilities	Energy used in Industry
Aluminium (P)	88·580	2,786·979	3,731·406
Aluminium (S)	2·820	98·941	125·069
Automobile.	1·017	156·288	161·604
Cement (P)	39·187	1,691·727	2,050·303
Cement (S)	0·123	418·573	422·381
Chemical	48·194	3,640·594	4,046·686
Collieries	22·457	726·971	884·743
Electrical Engg.	3·914	417·676	494·778
Fertilizer	49·714	3,938·458	4,417·733
Food Products	0·698	430·375	443·574
Heavy Engineering	0·571	635·785	646·519
Iron & Steel (P).	292·119	3,254·975	4,978·447
Iron & Steel (S).	0·230	1,071·936	1,077·190
Jute	6·035	597·216	673·331
Light Engineering	0·868	462·398	480·272
Mineral Oil & Petroleum	57·495	274·616	743·468
Mining and Quarrying	0·003	68·884	68·963
Miscellaneous	1·282	722·406	744·866
Non-Ferrous	2·485	1,662·452	1,684·874
Paper	63·313	1,015·798	1,552·475
Plastic	0·824	219·687	226·805
Rubber	0·458	220·558	231·567
Sugar	70·267	159·436	933·168
Textile	44·569	5,233·751	5,750·339
TOTAL	797·223	29,906·480	36,570·561

TABLE No. 30—Contd

Name of Industry	Energy sold to		Aggregate Maximum Demand	
	Utilities	Non-Utilities	Generation	Purchase
Aluminium (P)	..	..	100,000	362,553
Aluminium (S)	..	..	7,047	23,387
Automobile	..	..	4,625	48,936
Cement (P)	0·114	0·075	75,662	342,837
Cement (S)	..	..	4,230	32,260
Chemical	2·604	..	102,165	603,211
Collieries	0·794	0·311	35,943	176,136
Electrical Engg.	..	..	28,600	159,365
Fertilizer	0·084	..	81,470	581,663
Food Products	..	..	16,687	70,359
Heavy Engineering	..	..	12,867	190,415
Iron & Steel (P)	1·050	2·384	391,550	646,880
Iron & Steel (S)	..	..	4,514	375,932
Jute	..	..	34,654	133,975
Light Engineering	..	..	15,631	157,150
Mineral Oil and Petroleum	58·468	7·328	95,460	79,409
Mining & Quarrying	..	..	175	21,981
Miscellaneous	..	..	24,340	181,320
Non-Ferrous	..	..	17,858	542,558
Paper	..	36·177	101,525	200,532
Plastic	..	..	1,530	38,859
Rubber	..	..	8,324	48,173
Sugar	..	1·924	253,271	85,084
Textile	..	..	179,510	979,179
TOTAL	63·114*	48·109	1,597,638	6,082,154

*This does not include 3·23 GWH energy purchased by A & N Islands Elect. Deptt.

TABLE NO. 31

Installed Capacity, Electricity Generation and consumption in Selected Industries
Regionwise/State-wise during 1978-79

Region	State/U. Ts	No. of Industrial units covered	INSTALLED CAPACITY (K.W.)			
			Steam	Diesel	Hydro/Gas	Total
<i>Northern region</i>	Haryana	39	26,608	24,193	..	50,801
	Himachal Pradesh . . . . .	..	..	..	..	..
	Jammu & Kashmir	1	..	399	..	399
	Punjab	49	8,872	11,334	..	20,206
	Rajasthan	62	70,280	36,574	..	106,854
	Uttar Pradesh	144	252,004	59,387	..	311,391
	Chandigarh	6	..	2,092	..	2,092
	Delhi	13	29,500	194	..	29,694
	SUB-TOTAL	314	387,264	134,173	..	521,437
<i>Western region</i>	Gujarat	187	131,975	32,871	..	164,846
	Madhya Pradesh	88	146,479	6,262	..	152,741
	Maharashtra	383	143,728	146,083	10,000 (G)	299,811
	Goa, Daman & Diu	6	7,500	2,146	..	9,646
	Dadra & Nagar Haveli . . . . .	..	..	..	..	..
		SUB-TOTAL	664	429,682	187,362	10,000(G)	627,044
<i>Eastern region</i>	Bihar	100	453,995	6,844	..	460,839
	Orissa	33	162,035	2,340	..	164,375
	West Bengal	234	196,646	75,905	..	272,551
	Andman & Nicobar Island . . . . .	..	..	..	..	..
	Sikkim . . . . .	..	..	..	..	..
		SUB-TOTAL	367	812,1676	85,089	..	897,765
<i>Southern region</i>	Andhra Pradesh	71	119,350	14,409	..	133,759
	Karnataka	100	64,795	48,550	2,612(H)	115,957
	Kerala	55	35,800	8,473	..	44,273
	Tamil Nadu	129	81,205	72,394	..	153,599
	Pondicherry	9	2,745	2,274	..	5,019
	Lakshadweep . . . . .	..	..	..	..	..
	SUB-TOTAL	364	303,895	146,100	2,612(H)	452,607
<i>North Eastern region</i>	Assam	20	14,213	6,189	34,270(G)	54,672
	Manipur . . . . .	..	..	..	..	..
	Meghalaya	1	..	..	..	..
	Nagaland	1	1,500	256	..	1,756
	Tripura . . . . .	..	..	..	..	..
	Arunachal Pradesh . . . . .	..	..	..	..	..
	Mizoram . . . . .	..	..	..	..	..
		SUB-TOTAL	22	15,713	6,445	34,270(G)	56,428
	TOTAL (ALL-INDIA)	1,731	1,949,230	559,169	44,270 (G) 2,612 (H)	2,555,281

Note—G = Gas
H = Hydro

TABLE No. 31—Contd.

State/U. Ts.	AGGREGATE MAXIMUM ENERGY GENERATION (GWH) DEMAND (KW)					
	Generation	Purchase	Steam	Diesel	Hydro/Gas	Total
Haryana	28,215	81,419	91.901	7.765	..	99.666
Himachal Pradesh . . . . .	..	..	..	..	..	..
Jammu & Kashmir	250	896	..	0.040	..	00.40
Punjab	12,610	228,082	14.206	2.478	..	16.684
Rajasthan	74,620	240,518	338.135	12.970	..	351.105
Uttar Pradesh	210,268	527,866	1,309.361	23.627	..	1,332.988
Chandigarh	1,270	6,018	..	0.294	..	0.294
Delhi	17,275	21,147	156.631	0.047	..	156.678
SUB-TOTAL	344,508	1,105,946	1,910.234	47.221	..	1,957.455
Gujarat	95,626	577,069	512.648	16.852	..	529.500
Madhya Pradesh	116,468	346,893	672.536	2.046	..	674.582
Maharashtra	173,945	921,398	420.314	112.313	15.700	548.327
Goa, Daman & Diu	6,996	12,899	45.681	0.049	..	45.730
Dadra & Nagar Haveli . . . . .	..	..	..	..	..	..
SUB-TOTAL	393,035	1,858,259	1,651.179	131.260	15.700	1,798.139
Bihar	293,054	799,105	1,592.996	1.878	..	1,531.874
Orissa	132,034	316,957	727.089	0.059	..	727.148
West Bengal	150,004	583,458	511.382	38.059	..	549.441
Andaman & Nicobar Islands . . . . .	..	..	..	..	..	..
Sikkim . . . . .	..	..	..	..	..	..
SUB-TOTAL	575,092	16,99,520	2,768.467	39.996	..	2,808.463
Andhra Pradesh	80,143	250,402	318.751	4.903	..	323.654
Karnataka	63,240	501,577	140.982	25.215	13.219	179.416
Kerala	24,825	243,457	70.517	0.933	..	71.450
Tamil Nadu	87,497	354,029	293.843	36.016	..	329.859
Pondicherry	4,619	11,258	5.083	0.200	..	5.283
Lakshadweep . . . . .	..	..	..	..	..	..
SUB-TOTAL	260,324	1,360,723	829.176	67.267	13.219	909.662
Assam	23,329	57,206	49.462	13.382	33.268	96.112
Manipur . . . . .	..	..	..	..	..	..
Meghalaya . . . . .	..	..	..	..	..	..
Nagaland	1,350	500	2.786	..	..	2.786
Tripura . . . . .	..	..	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..	..	..
Mizoram . . . . .	..	..	..	..	..	..
SUB-TOTAL	24,679	57,706	52.248	13.382	33.268	98.898
TOTAL (ALL-INDIA)	1,597,638	6,082,154	7,211.304	299.126	48.968	7,572.617
					(Gas)	
					13.219	
					(Hydro)	

TABLE No. 31—Contd.

State/U. Ts.	Energy used in Auxiliaries	Energy Purchased from		Energy used in Industries	Energy sold to	
		Utilities	Non-Utilities		Utilities	Non-Utilities
Haryana	11·120	303·299	..	391·845	..	..
Himachal Pradesh . . . . .	..	..	..	..	..	..
Jammu & Kashmir	0·002	1·364	..	1·402	..	..
Punjab	1·250	1,337·394	..	1,352·828	..	..
Rajasthan	24·109	1,109·758	..	1,436·754	..	..
Uttar Pradesh	108·143	2,052·741	..	3,277·413	0·114	0·059
Chandigarh	0·012	14·100	..	14·382	..	..
Delhi	19·856	71·537	..	208·359	..	..
SUB-TOTAL	164·492	4,890·193	..	6,682·983	0·114	0·059
Gujarat	48·029	2,892·391	..	3,313·869	59·993	..
Madhya Pradesh	92·633	2,625·350	..	3,203·529	..	3·770
Maharashtra	44·980	5,047·516	..	5,548·939	..	1·924
Goa, Daman & Diu	1·953	56·630	..	100·407	..	..
Dadra and Nagar Haveli . . . . .	..	..	..	..	..	..
SUB-TOTAL	187·595	1,0621·887	..	12,166·744	59·993	5·694
Bihar	177·600	2,552·918	..	3,906·029	1·163	..
Orissa	100·931	1,943·012	..	2,568·179	1·050	..
West Bengal	71·533	2,480·344	..	2,958·252	..	..
Andaman & Nicobar Islands . . . . .	..	..	..	..	..	..
Sikkim . . . . .	..	..	..	..	..	..
SUB-TOTAL	350·064	6,976·274	..	9,432·460	2·213*	..
Andhra Pradesh	39·214	1,354·973	..	1,603·501	0·794	35·118
Karnataka	15·681	2,005·284	..	2,169·019	..	..
Kerala	7·899	1,403·693	..	1,467·244	..	..
Tamil Nadu	24·002	2,344·955	..	2,650·812	..	..
Pondicherry	0·515	46·960	..	51·728	..	..
Lakshadweep . . . . .	..	..	..	..	..	..
SUB-TOTAL	87·311	7,155·865	..	7,942·304	0·794	35·118
Assam	7·483	253·411	..	334·712	..	7·328
Manipur . . . . .	..	..	..	..	..	..
Meghaaya . . . . .	..	8·613	..	8·613	..	..
Nagaland	0·278	0·237	..	2·745	..	..
Tripura . . . . .	..	..	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..	..	..
Mizoram . . . . .	..	..	..	..	..	..
SUB-TOTAL	7·761	262·261	..	346·070	..	7·328
TOTAL (ALL INDIA)	797·223	29,906·480	..	36,570·561	63·114*	48·199

*This does not include 3·23 GWH energy purchased by A&N Islands, Elect. Deptt.

TABLE NO. 32
Energy Consumption by Selected Industries
 Regionwise/Statewise during 1978-79

		G H		
Region	State/UTs	Aluminium (P)	Aluminium (S)	Automobile
<i>Northern region</i>	Haryana . . . . .	..	..	8.246
	Himachal Pradesh . . . . .	..	..	..
	Jammu & Kashmir . . . . .	..	..	..
	Punjab . . . . .	..	..	12.496
	Rajasthan . . . . .	..	..	..
	Uttar Pradesh	1,288.105	..	..
	Chandigarh . . . . .	..	..	..
	Delhi . . . . .	..	..	..
	SUB-TOTAL	1,288.105	..	20.742
<i>Western region</i>	Gujarat . . . . .	..	..	..
	Madhya Pradesh	729.866	..	2.084
	Maharashtra . . . . .	..	22.473	43.258
	Goa, Daman & Diu . . . . .	..	..	..
	Dadra & Nagar Haveli . . . . .	..	..	..
		SUB-TOTAL	729.866	22.473	45.342
<i>Eastern region</i>	Bihar . . . . .	..	19.659	..
	Orissa	420.754	2.972	..
	West Bengal	0.227	69.893	70.925
	Andaman & Nicobar Islands . . . . .	..	..	..
	Sikkim . . . . .	..	..	..
		SUB-TOTAL	420.981	92.524	70.925
<i>Southern region</i>	Andhra Pradesh . . . . .	..	..	..
	Karnataka	442.630	..	24.595
	Kerala	376.794	10.072	..
	Tamil Nadu	473.030	..	..
	Pondicherry . . . . .	..	..	..
	Lakshadweep . . . . .	..	..	..
		SUB-TOTAL	1,292.454	10.072	24.595
<i>North Eastern Region.</i>	Assam . . . . .	..	..	..
	Manipur . . . . .	..	..	..
	Meghalaya . . . . .	..	..	..
	Nagaland . . . . .	..	..	..
	Tripura . . . . .	..	..	..
	Arunachal Pradesh . . . . .	..	..	..
	Mizoram . . . . .	..	..	..
		SUB-TOTAL
	TOTAL (ALL INDIA)	3,731.406	125.069	161.604

NOTE :- P--Primary.
 S--Secondary.

TABLE NO. 32—Contd.

State/UTs	Cement (P)	Cement (S)	Chemicals	Colleries
aryana	49·845	7·104	2·839	..
Himachal Pradesh . . . . .	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	..
Punjab . . . . .	..	..	4·585	..
Rajasthan	237·170	..	205·223	..
Uttar Pradesh	93·969	..	309·560	..
Chandigarh . . . . .	..	..	8·634	..
Delhi . . . . .	..	..	119·044	..
SUB-TOTAL	380·984	7·104	649·885	..
Gujarat	200·056	16·992	983·603	..
Madhya Pradesh	256·777	309·514	239·383	168·156
Maharashtra	57·389	18·688	863·678	65·603
Goa Daman & Diu . . . . .	..	..	62·813	..
Dadra & Nagar Haveli . . . . .	..	..	..	..
SUB-TOTAL	514·222	345·194	2,149·477	233·759
Bihar	304·653	1·818	29·831	357·947
Orissa	57·735	57·897	70·538	22·542
West Bengal	31·453	6·043	168·198	117·267
A. & N. Islands . . . . .	..	..	..	..
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	393·841	65·758	268·567	497·756
Andhra Pradesh	175·644	..	155·204	148·533
Karnataka	204·417	..	107·992	..
Kerala	6·670	..	286·888	..
Tamil Nadu	347·936	4·325	427·303	..
Pondicherry . . . . .	..	..	..	..
Lakshadweep . . . . .	..	..	..	..
SUB-TOTAL	734·667	4·325	977·387	148·533
Assam	17·976	..	1·370	4·695
Manipur . . . . .	..	..	..	..
Meghalaya	8·613	..	..	..
Nagaland . . . . .	..	..	..	..
Tripura . . . . .	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL	26·589	..	1·370	4·695
TOTAL (ALL INDIA)	2,050·303	422·381	4,046·686	884·743

TABLE NO. 32—Contd.

Name of State/UTs	Electrical Engineering	Fertilizer	Food Products	Heavy Engg.
Haryana	11·203	..	1·716	..
Himachal Pradesh . . . . .	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	..
Punjab	0·281	1,039·538	16·136	..
Rajasthan	4·999	299·205	18·437	3·261
Uttar Pradesh	98·459	637·874	44·550	25·420
Chandigarh	0·930	..	..	..
Delhi . . . . .	..	..	10·610	..
SUB-TOTAL	115·872	1,976·617	91·449	28·681
Gujarat	15·500	452·499	34·375	..
Madhya Pradesh	68·052	..	15·232	..
Maharashtra	162·348	364·893	66·034	63·707
Goa, Daman & Diu, . . . . .	..	..	..	..
Dadra & Nagar Haveli . . . . .	..	..	..	..
SUB-TOTAL	245·920	817·392	115·641	63·707
Bihar	12·207	297·612	2·357	337·475
Orissa . . . . .	..	101·361	..	19·607
West Bengal	31·110	82·916	19·393	80·569
Andaman & Nicobar Islands . . . . .	..	..	..	..
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	43·317	481·889	21·750	437·651
Andhra Pradesh	31·785	169·159	20·612	47·295
Karnataka	23·639	..	28·826	47·364
Kerala	5·404	373·346	151·540	..
Tamil Nadu	28·841	413·747	11·254	21·821
Pondicherry . . . . .	..	..	0·974	..
Lakshadweep . . . . .	..	..	..	..
SUB-TOTAL	89·669	956·252	213·206	116·480
Assam . . . . .	..	185·583	1·528	..
Manipur . . . . .	..	..	..	..
Meghalaya . . . . .	..	..	..	..
Nagaland . . . . .	..	..	..	..
Tripura . . . . .	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL . . . . .	..	185·583	1·528	..
TOTAL (ALL INDIA)	494·778	4,417·733	443·574	646·519

TABLE No. 32—Contd.

State/UTs.	Iron & Steel (P)	Iron & Steel (S)	Jute	Light Engg.
Haryana . . . . .	..	20·829	..	37·413
Himachal Pradesh . . . . .	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	1·402
Punjab . . . . .	..	107·639	..	44·170
Rajasthan . . . . .	..	21·442	0·975	76·656
Uttar Pradesh . . . . .	..	31·458	15·328	10·765
Chandigarh . . . . .	..	..	..	0·242
Delhi . . . . .	..	3·476	..	..
SUB-TOTAL . . . . .	..	184·844	16·303	170·648
Gujarat . . . . .	..	94·944	..	29·288
Madhya Praesh	704·858	40·089	..	12·469
Maharashtra . . . . .	..	211·760	..	161·435
Goa, Daman & Diu . . . . .	..	..	..	..
Dadra & Nagar Haveli . . . . .	..	..	..	..
SUB-TOTAL	704·858	346·793	..	203·192
Bihar	2,022·356	250·234	15·401	..
Orissa	1,047·948	0·978	..	..
West Bengal	675·957	222·332	609·270	41·637
Andaman & Nicobar Islands . . . . .	..	..	..	..
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	3,746·261	473·544	624·671	41·637
Andhra Pradesh . . . . .	..	14·194	32·357	..
Karnataka	527·328	30·352	..	34·080
Kerala . . . . .	..	25·161	..	11·102
Tamil Nadu . . . . .	..	2·302	..	19·613
Pondicherry . . . . .	..	..	..	..
Lakshadweep . . . . .	..	..	..	..
SUB-TOTAL	527·328	72·009	32·357	64·795
Assam . . . . .	..	..	..	..
Manipur . . . . .	..	..	..	..
Meghalaya . . . . .	..	..	..	..
Nagaland . . . . .	..	..	..	..
Tripura . . . . .	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL . . . . .	..	..	..	..
TOTAL (ALL-INDIA)	4,978·447	1,077·190	673·331	480·272

TABLE No. 32—Contd.

State/UTs.	Mineral Oil & Petroleum	Mining & Quarrying	Miscellaneous	Non-Ferrous
Haryana . . . . .	..	..	17·420	..
Himachal Pradesh . . . . .	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	..
Punjab . . . . .	..	..	15·913	..
Rajasthan . . . . .	..	1·908	..	332·430
Uttar Pradesh . . . . .	..	..	106·919	..
Chandigarh . . . . .	..	..	4·576	..
Delhi . . . . .	..	..	2·493	..
SUB-TOTAL . . . . .	..	1·908	147·321	332·430
Gujarat	118·815	0·043	8·992	..
Madhya Pradesh . . . . .	..	2·196	83·236	3·734
Maharashtra	176·341	..	270·652	131·723
Goa, Daman & Diu . . . . .	..	32·672	0·091	..
Dadra & Nagar Haveli . . . . .	..	..	..	..
SUB-TOTAL	295·156	34·911	362·971	135·457
Bihar	90·479	0·314	3·148	126·134
Orissa . . . . .	..	25·467	..	516·546
West Bengal	101·382	..	160·561	..
Andaman & Nicobar Islands . . . . .	..	..	..	..
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	191·861	25·781	163·709	642·680
Andhra Pradesh	20·633	..	4·020	368·661
Karnataka . . . . .	..	6·363	43·719	205·646
Kerala	37·480	..	10·114	..
Tamil Nadu	121·918	..	11·313	..
Pondicherry . . . . .	..	..	..	..
Lakshadweep . . . . .	..	..	..	..
SUB-TOTAL	180·031	6·363	69·166	574·307
Assam	76·420	..	1·699	..
Manipur . . . . .	..	..	..	..
Meghalaya . . . . .	..	..	..	..
Tripura . . . . .	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL	76·420	..	1·699	..
TOTAL (ALL-INDIA)	743·468	68·963	744·866	1,684·874

TABLE No. 32—Contd.

State/UTs.	Paper	Plastic	Rubber
Haryana	107·538	..	28·411
Himachal Pradesh . . . . .	..	..	..
Jammu and Kashmir . . . . .	..	..	..
Punjab . . . . .	..	..	..
Rajasthan . . . . .	..	..	..
Uttar Pradesh	56·507	..	35·455
Chandigarh . . . . .	..	..	..
Delhi . . . . .	..	..	..
SUB-TOTAL	164·045	..	63·866
Gujarat	71·792	..	..
Madhya Pradesh	216·649	..	..
Maharashtra	127·982	194·504	61·728
Goa, Daman & Diu . . . . .	..	..	..
Dadra & Nagar Haveli . . . . .	..	..	..
SUB-TOTAL	416·423	194·504	61·728
Bihar	6·776	..	..
Orissa	193·726	..	..
West Bengal	247·080	0·793	65·752
Andaman & Nicobar Islands . . . . .	..	..	..
Sikkim . . . . .	..	..	..
SUB-TOTAL	447·582	0·793	65·752
Andhra Pradesh	233·681	11·466	..
Karnataka	144·742	..	1·942
Kerala	23·373	..	22·174
Tamil Nadu	78·822	20·042	16·105
Pondicherry . . . . .	..	..	..
Lakshadweep . . . . .	..	..	..
SUB-TOTAL	480·618	31·508	40·221
Assam	43·807	..	..
Manipur . . . . .	..	..	..
Meghalaya . . . . .	..	..	..
Tripura . . . . .	..	..	..
Arunachal Pradesh . . . . .	..	..	..
Mizoram . . . . .	..	..	..
SUB-TOTAL	43·807	..	..
TOTAL (ALL-INDIA)	1,552·475	226·805	231·567

TABLE No. 32—Contd.

State/UTs.	Sugar	Textiles	Total
Haryana	30·394	68·887	391·845
Himachal Pradesh . . . . .	..	..	..
Jammu & Kashmir . . . . .	..	..	1·402
Punjab	16·555	95·515	1,352·828
Rajasthan	4·221	230·827	1,436·754
Uttar Pradesh	202·858	320·186	3,277·413
Chandigarh . . . . .	..	..	14·382
Delhi . . . . .	..	72·736	208·359
SUB-TOTAL	254·028	788·151	6,682·983
Gujarat	56·695	1,230·255	3,313·869
Madhya Pradesh	9·047	342·187	3,203·529
Maharashtra	310·438	2,174·305	5,548·939
Goa, Daman & Diu . . . . .	..	4·831	100·407
Dadra & Nagar Haveli . . . . .	..	..	..
SUB-TOTAL	376·180	3,751·578	12,166·744
Bihar	27·628	..	3,906·029
Orissa	3·746	26·362	2,568·179
West Bengal	1·266	154·228	2,958·252
Andaman and Nicobar Islands . . . . .	..	..	..
Sikkim . . . . .	..	..	..
SUB-TOTAL	32·640	180·590	9,432·460
Andhra Pradesh	78·370	91·887	1,603·501
Karnataka	93·100	202·284	2,169·019
Kerala	9·151	117·975	1,467·244
Tamil Nadu	79·814	572·626	2,650·812
Pondicherry	5·506	45·248	51·728
Lakshadweep . . . . .	..	..	..
SUB-TOTAL	265·941	1,030·020	7,942·304
Assam	1·634	..	334·712
Manipur . . . . .	..	..	..
Meghalaya . . . . .	..	..	8·613
Nagaland	2·745	..	2·745
Tripura . . . . .	..	..	..
Arunachal Pradesh . . . . .	..	..	..
Mizoram . . . . .	..	..	..
SUB-TOTAL	4·379	..	346·070
TOTAL (ALL-INDIA)	933·168	5,750·339	36,570·561

TABLE NO. 33

Classification of Captive Plants—Capacitywise during 1978-79

Range of Installed capacity (MW)	No. of generating industries	Aggregate installed capacity(MW)	% to total capacity	Gross energy generation by the group (GWH)	% to total generation
Upto 1.00	628	266.111	10.41	165,889	2.19
Over 1.00 upto 10.00	375	1,037,601	40.61	2,037,047	26.90
Over 10.00 upto 25.00	24	389,499	15.24	1,546,839	20.43
Above 25.00	12	862,070	33.74	3,822,842	50.48
TOTAL	1,039	2,555,281	100.00	7,572,617	100.00

TABLE NO. 34

*Installed plant Capacity and Electricity Generation by the Railways—
Regionwise/Statewise during the year 1978-79*

Region	Name of State/UTs.	INSTALLED PLANT CAPACITY (KW)		
		Steam	Diesel	Total
<i>Northern region</i>	Haryana . . . . .	..	992	992
	Himachal Pradesh . . . . .	..	..	..
	Jammu & Kashmir . . . . .	..	128	128
	Punjab . . . . .	..	1,601	1,601
	Rajasthan	2,000	4,767	6,767
	Uttar Pradesh	5,500	5,765	11,265
	Delhi . . . . .	..	714	714
	SUB-TOTAL	7,500	13,967	21,467
<i>Western region</i>	Gujarat	2,500	1,803	4,303
	Madhya Pradesh . . . . .	..	625	625
	Maharashtra . . . . .	..	1,799	1,799
	SUB-TOTAL	2,500	4,227	6,727
<i>Eastern region</i>	Bihar	6,300	2,604	8,904
	West Bengal	7,160	8,546	15,706
		SUB-TOTAL	13,460	11,150	24,610
<i>Southern region</i>	Andhra Pradesh . . . . .	..	1,338	1,338
	Karnataka . . . . .	..	1,466	1,466
	Kerala . . . . .	..	115	115
	Tamil Nadu . . . . .	..	695	695
	SUB-TOTAL . . . . .	..	3,614	3,614
<i>North eastern region.</i>	Assam . . . . .	..	5,743	5,743
	Nagaland . . . . .	..	150	150
	Tripura . . . . .	..	..	..
	SUB-TOTAL . . . . .	..	5,893	5,893
	TOTAL (ALL-INDIA)	23,460	38,851	62,311

TABLE NO. 34—Contd.

Name of State/UTs.	Maximum Demand (KVA)	ELECTRICITY GENERATION (GWH)			Energy used in Auxiliaries (GWH) s
		Steam	Diesel	Total	
Haryana	448	..	0.123	0.123	0.003
Himachal Pradesh . . . . .	..	..	..	..	..
Jammu & Kashmir	60	..	0.014	0.014	Neg.
Punjab	1,380	..	0.102	0.102	Neg.
Rajasthan	3,094	0.985	0.811	1.796	0.138
Uttar Pradesh	6,832	5.281	0.928	6.210	0.368
Delhi	350	..	0.020	0.020	Neg.
SUB-TOTAL	12,164	6.267	1.998	8.265	0.509
Gujarat	1,675	6.133	0.038	6.171	0.475
Madhya Pradesh	390	..	0.106	0.106	Neg.
Maharashtra	1,107	..	0.162	0.162	0.005
SUB-TOTAL	3,172	6.133	0.306	6.439	0.480
Bihar	3,559	7.447	0.407	7.854	0.905
West Bengal	4,468	6.138	4.225	10.363	0.838
SUB-TOTAL	8,027	13.585	4.632	18.217	1.743
Andhra Pradesh	627	..	0.049	0.049	0.005
Karnataka	868	..	0.305	0.305	0.030
Kerala	70	..	0.011	0.011	Neg.
Tamil Nadu	267	..	0.039	0.039	0.005
SUB-TOTAL	1,832	..	0.404	0.404	0.040
Assam	3,535	..	1.135	1.135	0.109
Nagaland	75	..	0.011	0.011	Neg.
Tripura . . . . .	..	..	..	..	..
SUB-TOTAL	3,610	..	1.146	1.146	0.109
TOTAL (ALL-INDIA)	28,805	25.985	8.486	34.471	2.881

TABLE NO. 35

Zonewise installed plant capacity and electricity generation by the railways during the year 1978-79

Sl. No.	Name of Railways	INSTALLED CAPACITY (KW)		
		Steam	Diesel	Total
1	Central Railways (R) . . . . .	..	3,909	3,909
2	Eastern Railways	6,300	3,500	9,800
3	Northern Railways	2,500	8,857	11,357
4	North Eastern Railways	3,000	1,125	4,125
5	North East Frontier Railways . . . . .	..	9,558	9,558
6	Southern Railways . . . . .	..	901	901
7	South Central Railways . . . . .	..	2,648	2,648
8	South Eastern Railways	7,160	3,860	11,020
9	Western Railways	4,500	4,493	8,993
	TOTAL	23,460	38,851	62,311

NOTE :—(R)—Data repeated due to non-availability of information.

*—Data not available for 78-79. Data pertains to the year 1976-77.

TABLE NO. 35—Contd.

Sl. No.	Maximum Demand (KVA)	ELECTRICITY GENERATION (GWH)			Energy used in Auxiliaries(GWH)
		Steam	Diesel	Total	
1	2,740	..	0.487	0.487	0.035
2	3,100	7.447	0.451	7.898	0.895
3	6,857	5.281	0.963	6.244	0.339
4	2,612	0.001	0.073	0.074	0.005
5	5,800	..	5.329	5.329	0.343
6	382	..	0.051	0.051	0.005
7	1,342	..	0.344	0.344	0.034
8	2,125	6.138	..	6.138	0.614
9	3,847	7.118	0.788	7.906	0.611
	TOTAL	25.985	8.486	34.471	2.881

SECTION V
ELECTRIC POWER SUPPLY AND SYSTEM LOSSES

ELECTRIC POWER SUPPLY AND SYSTEM LOSSES

During the year 1978-79, out of 102522.52 Gwh gross electricity generation from various power stations in the country, 5893.30 Gwh was used in Power Station auxiliaries which constitutes 5.75% of total electricity generation. Thus 96629.22 Gwh was net energy generation at the bus bars. Captive plants, which are running integrated with power systems of public utilities, supplied 66.34 Gwh to utilities. During the year under review energy imported from Nepal was 6.49 Gwh. Thus the total energy available for supply during the year was 96702.05 Gwh, compared to 85818.22 Gwh during 1977-78, representing an increase of 12.68% over the energy availability in previous year.

Total energy sold to various classes of consumers was 77292.82 Gwh. Total energy exported outside the country i.e. Nepal and Bhutan during the year was 50.00 Gwh. The energy lost in transformation and transmission & distribution systems, energy unaccounted for—such as pilferage of energy, defective metering etc. works out to 19359.23 Gwh representing 20.02% of the total energy availability. Percentage system losses during the year 1978-79 (20.02%) were slightly higher than the corresponding figure of 19.26% of 1977-78.

Studying the regionwise picture, North-Eastern region recorded the maximum system losses of 23.33% during the year 1978-79 followed by 21.31% in Southern region, 21.30% in Northern, 18.45% in Western and 16.78% in Eastern region.

The various tables in this section represent the Regionwise, Statewise and Boardwise T & D Losses, transferred of energy between different systems, energy consumed in Power Station auxiliaries and aggregate maximum demand at generating stations.

TABLE NO. 36

Electricity generated, purchased, sold and energy losses
(ALL INDIA UTILITIES) during 1978-79.

Sl. No.	Item	Energy (GWH)	Percentage of item 6
1	Energy generated (Gross) (utilities)	102,522.52	106.02
2	Energy used in power station auxiliaries	5,893.30	6.10
3	Energy generated (Net) i. e. (1)—(2)	96,629.22	99.92
4	Energy purchased from non-utilities	66.34	0.07
5	Energy imported from other countries (Nepal)	6.49	0.01
6	Energy available for supply [i. e. (3)+(4)+(5)]	96,702.05	100.00
7	Energy sold to ultimate consumers	77,292.82	79.93
8	Energy sold to other countries (Nepal & Bhutan)	50.00	0.05
9	Total Energy sold i.e. (7)+(8)	77,342.82	79.98
10	Energy lost in transformation, transmission & distribution and unaccounted for—i. e. (6)—(9)	19,359.23	20.02

TABLE NO. 37

Energy lost in transmission and distribution system
Regionwise during 1978-79

Region	Northern	Western	Eastern	Southern	North-Eastern
<i>I. Energy generated net</i>	26,159.65	29,216.48	14,971.03	25,370.34	911.72
<i>II. Energy Purchased :</i>					
(a) from non-utilities	0.11	59.99	5.44	0.80	..
(b) from other regions	17.69	794.54	183.39	324.11	..
(c) from other countries	..	..	6.49	..	..
SUB-TOTAL—II	17.80	854.53	195.32	324.91	..
<i>III. Total energy available (I + II)</i>	26,177.45	30,071.01	15,166.35	25,695.25	911.72
<i>IV. Sales :</i>					
(a) to ultimate consumers	20,018.03	24,209.63	12,527.81	19,839.12	698.23
(b) to other regions	572.17	313.06	54.65	379.85	..
(c) to other countries	10.71	..	38.51	..	0.78
SUB-TOTA—IV	20,600.91	24,522.69	12,620.97	20,218.97	699.01
<i>V. Energy lost in transmission & distribution & unaccounted for</i>	5,576.54	5,548.32	2,545.38	5,476.28	212.71
<i>VII. Percentage energy loss (V/III)</i>	21.30	18.45	16.78	21.31	23.33

NOTE :—(1) Net generation of jointly owned projects have been shown divided between the partner states as per their theoretical share.

(2) In the case of projects jointly owned by states in different regions, excess/less drawal of energy than theoretical share have been treated as inter regional purchase/sale respectively.

TABLE NO. 38

Energy Generation (net) , Inter system transfer of power, utilisation of energy and system losses
Regionwise/Statewise during 1978-79

(GWH)

Region	State/U. Ts.	Net Generation in own power houses (other than jointly owned projects and Central Govt. Projects.)	Energy received from		
			Jointly owned & Central Govt. Projects (except B. B. M. B. & D. V. C.)	Self gene- rating Industries	From other States including B. B. M. B. & D. V. C.
1	2	3	4	5	6
<i>Northern Region</i>	Haryana	301.59	240.42	..	2,580.63
	Himachal Pradesh	395.33	16.11	..	225.99
	Jammu & Kashmir	526.82	13.08	..	149.42
	Punjab	1,244.29	1.85	..	4,845.75
	Rajasthan	17.57	1,595.99	..	2,051.62
	Uttar Pradesh	9,378.51	47.99	0.11	379.89
	Chandigarh	0.05	..	..	205.68
	Delhi	608.32	1,541.26	..	107.44
B. B. M. B.	9,907.41	..	..	..
<i>Western Region</i>	Gujarat	7,273.73	999.16	59.99	..
	Madhya Pradesh	3,096.75	2,045.15	..	270.00
	Maharashtra	14,785.61	1,339.14	..	174.37
	Goa, Daman & Diu . . . . .	..	..	..	239.48
	Dadra & Nagar Haveli . . . . .	..	..	..	6.53
<i>Eastern Region</i>	Bihar	2,137.64	..	1.16	3,551.05
	Orissa	3,020.42	296.40	1.05	70.36
	West Bengal	4,688.44	..	..	2,075.71
	D. V. C.	4,880.83	..	..	282.99
	Andaman & Nicobar Islands	5.58	..	3.23	..
	Sikkim	7.27	..	..	3.00
<i>Southern Region</i>	Andhra Pradesh	5,070.20	659.59	0.80	129.41
	Karnataka	5,806.28	97.32	..	1,073.85
	Kerala	5,152.58	..	..	9.66
	Tamil Nadu	6,305.95	2,212.00	..	1,972.16
	Pondicherry . . . . .	..	..	..	140.47
	Lakshadweep	0.87	..	..	..
<i>North Eastern Region</i>	Assam	635.05	..	..	152.16
	Manipur	18.66	..	..	0.30
	Meghalaya	213.77	..	..	..
	Nagaland	1.53	..	..	25.96
	Tripura	31.30	..	..	1.72
	Arunachal Pradesh	9.70	..	..	2.93
	Mizoram	1.71	..	..	2.80

TABLE NO. 38—Contd.

(GWH)

Name of State/U. Ts.	Energy available in the State (3+4+5+6)	Energy sent out to/sold to		
		Other States	Ultimate consu- mers with in the State	Total (8+9)
		7	8	9	10
Haryana	3,122.64	31.22	2,414.55	2,445.77
Himachal Pradesh	637.43	309.21	207.29	516.50
Jammu and Kashmir	689.32	9.75	400.67	410.42
Punjab	6,091.89	416.14	4,656.04	5,072.18
Rajasthan	3,665.18	85.36	2,603.96	2,689.32
Uttar Pradesh	9,806.50	285.08	7,688.03	7,973.11
Chandigarh	205.73	..	154.11	154.11
Delhi	2,257.02	..	1,893.38	1,893.38
B. B. M. B.	9,907.41	9,651.79	..	9,651.79
Gujarat	8,332.88	82.66	6,851.54	6,934.20
Madhya Pradesh	5,411.90	30.90	4,282.47	4,313.37
Maharashtra	16,299.12	418.40	12,894.46	13,312.86
Goa, Daman & Diu	239.48	..	176.53	176.53
Dadra and Nagar Haveli	6.53	..	4.63	4.63
Bihar	5,689.85	375.19	4,357.30	4,732.49
Orissa	3,388.23	417.90	2,335.37	2,753.27
West Bengal	6,764.15	92.12	5,820.24	5,912.36
D. V. C.	5,163.82	5,066.73	..	5,066.73
Andaman & Nicobar Island	8.81	..	6.63	6.63
Sikkim	10.27	..	8.27	8.27
Andhra Pradesh	5,860.00	294.38	4,319.33	4,613.71
Karnataka	6,977.45	504.44	4,899.23	5,403.67
Kerala	5,162.24	2,161.87	2,372.56	4,524.43
Tamil Nadu	10,490.11	355.05	8,136.40	8,491.45
Pondicherry	140.47	..	120.92	120.92
Lakshadweep	0.87	..	0.68	0.68
Assam	787.21	30.00	597.73	627.73
Manipur	18.96	..	6.23	6.23
Meghalaya	213.77	152.16	46.50	198.66
Nagaland	27.49	0.19	17.46	17.65
Tripura	33.02	..	21.20	21.20
Arunachal Pradesh	12.63	2.80	6.51	9.31
Mizoram	4.51	1.50	2.60	4.10

TABLE No. 38—Contd.

Name of State/Uts.	Transformation, Transmission, Distribution losses & energy unaccounted for	
	GWH (7—10)	% of Column 7
	11	12
Haryana	676.87	21.68
Himachal Pradesh	120.93	18.97
Jammu and Kashmir	278.90	40.46
Punjab	1,019.71	16.74
Rajasthan	975.86	26.62
Uttar Pradesh	1,833.39	18.70
Chandigarh	51.62	25.09
Delhi	363.64	16.11
B. B. M. B.	255.62	2.58
NORTHERN REGION	5,576.54	21.30*
Gujarat	1,398.68	16.78
Madhya Pradesh	1,098.53	20.30
Maharashtra	2,986.26	18.32
Goa, Daman & Diu	62.95	26.29
Dadra and Nagar Haveli	1.90	29.10
WESTERN REGION	5,548.32	18.45*
Bihar	957.36	16.83
Orissa	634.96	18.74
West Bengal	851.79	12.59
D. V. C.	97.09	1.88
Andaman & Nicobar Islands	2.18	24.74
Sikkim	2.00	19.47
EASTERN REGION	2,545.38	16.78*
Andhra Pradesh	1,246.29	21.27
Karnataka	1,573.78	22.55
Kerala	637.81	12.36
Tamil Nadu	1,998.66	19.05
Pondicherry	19.55	13.92
Lakshadweep	0.19	21.84
SOUTHERN REGION	5,476.28	21.31*
Assam	159.48	20.26
Manipur	12.73	67.14
Meghalaya	15.11	7.07
Nagaland	9.84	35.79
Tripura	11.82	35.80
Arunachal Pradesh	3.32	26.29
Mizoram	0.41	9.09
NORTH EASTERN REGION	212.71	23.33*
ALL INDIA	19,359.23	20.02*

Note: *—*For details of All India and Regionwise losses refer tables 36 and 37 respectively.

TABLE No. 39

*Energy Generation (Net), Intersystem Transfer of Energy Utilisation and Losses by State Electricity Boards, DVC,
B. B. M. B. & D. E. S. U.
during 1978-79*

Name of the Region/Board/Undertaking	Net Generation in Own Power houses (other than jointly owned Central Govt. Projects)	Energy received from	
		Utilities within State/jointly owned Central Govt. Projects (except DVC & BBMB)	Other Boards/Electric Undertakings (including DVC & BBMB)
(1)	(2)	(3)	(4) ‡
<i>Northern Region :</i>			
Haryana	301.59	240.42	2,580.63
Himachal Pradesh	395.33	..	225.99
Jammu & Kashmir	526.82	..	149.42
Punjab	1,244.29	..	3,850.76
Rajasthan	17.57	1,595.99	2,051.62
Uttar Pradesh	9,378.51	47.99	379.89
B. B. M. B.	9,907.41	..	..
D. E. S. U.	608.32	1,539.04	107.44
<i>Western Region :</i>			
Gujarat	6,017.81	1,003.99	..
Madhya Pradesh	3,096.75	2,045.15	270.00
Maharashtra	11,111.61	1,984.63	174.37
<i>Eastern Region :</i>			
Bihar	2,124.96	12.68	1,885.39
Orissa	1,687.04	1,614.24	70.36
West Bengal	2,507.98	367.51	441.87
D.V.C.	4,880.83	..	282.99
<i>Southern Region :</i>			
Andhra Pradesh	5,070.20	626.65	129.41
Karnataka	875.02	4,979.76	1,073.85
Kerala	5,152.58	..	9.66
Tamil Nadu	6,305.95	1,917.00	1,972.16
<i>North Eastern Region :</i>			
Assam	635.05	..	152.16
Meghalaya	213.77	..	..

Abbreviations :—B. B. M. B.=Bhakra Beas Management Board.
D. E. S. U.=Delhi Electric Supply Undertaking.

TABLE NO. 39—contd.

(GWH)

Name of the Board/Undertaking	Energy received from self generating industries	Energy available for supply (including sales outside the state (2+3+4+5))	Energy sold to	
			Licenseses within the State	Other Boards/Undertakings/D. V. C.
(1)	(5)	(6)	(7)	(8)
Haryana . . . . .	..	3,122.64	..	31.22
Himachal Pradesh . . . . .	..	621.32	..	309.21
Jammu & Kashmir . . . . .	..	676.24	..	9.75
Punjab . . . . .	..	5,095.05	152.61	416.14
Rajasthan . . . . .	..	3,665.18	4.15	85.36
Uttar Pradesh	0.11	9,806.50	37.56	285.08
B. B. M. B. . . . .	..	9,907.41	..	9,651.79
D. E. S. U. . . . .	..	2,254.80	378.25	..
Gujarat	59.99	7,081.79	1,100.97	82.66
Madhya Pradesh . . . . .	..	5,411.90	7.31	30.90
Maharashtra . . . . .	..	13,270.61	4,241.07	418.40
Bihar	1.16	4,024.19	17.55	375.19
Orissa	1.05	3,372.69	5.63	417.90
West Bengal . . . . .	..	3,317.36	1,259.25	7.36
D. V. C. . . . .	..	5,163.82	..	5,066.73
Andhra Pradesh	0.80	5,827.06	60.19	294.38
Karnataka . . . . .	..	6,928.63	19.43	504.44
Kerala . . . . .	..	5,162.24	105.10	2,161.87
Tamil Nadu . . . . .	..	10,195.11	179.52	355.05
Assam . . . . .	..	787.21	..	30.00
Meghalaya . . . . .	..	213.77	..	152.16

TABLE No. 39—Contd.

Name of the Board/Undertaking	Energy sold to Ultimate Consumers	Total Sold (7+8+9)	(GWH)	
			Transformation, Transmission & Distribution losses & energy unaccounted for	
			GWH (6-10)	% of Col. 6
(1)	(9)	(10)	(11)	(12)
Haryana	2,414.55	2,445.77	676.87	21.68
Himachal Pradesh	191.18	500.39	120.93	19.46
Jammu & Kashmir	387.59	397.34	278.90	41.24
Punjab	3,537.34	4,106.09	988.96	19.41
Rajasthan	2,600.73	2,690.24	974.94	26.60
Uttar Pradesh	7,656.94	7,979.58	1,826.92	18.53
B. B. M. B. . . . .	..	9,651.79	255.62	2.58
D. E. S. U.	1,553.31	1,931.56	323.24	14.34
Gujarat	4,713.57	5,897.20	1,184.59	16.73
Madhya Pradesh	4,278.38	4,316.59	1,095.31	20.24
Maharashtra	6,256.31	10,915.78	2,354.83	17.74
Bihar	2,677.65	3,070.39	953.80	23.70
Orissa	2,333.24	2,756.77	615.92	18.26
West Bengal	1,620.41	2,887.02	430.34	12.97
D. V. C. . . . .	..	5,066.73	97.09	1.88
Andhra Pradesh	4,275.61	4,630.18	1,196.88	20.54
Karnataka	4,884.88	5,408.75	1,519.88	21.94
Kerala	2,307.24	4,574.21	588.03	11.39
Tamil Nadu	7,761.39	8,295.96	1,899.15	18.63
Assam	597.73	627.73	159.48	20.26
Meghalaya	46.50	198.66	15.11	7.07

Notes :—For details of interstate transfer of energy please refer Table No. 44.

TABLE NO. 40

Statement showing Pilferage/Misuse of Energy as Reported by State Electricity Boards during 1978-79

Name of the Region	Name of the Electricity Board	No. of cases where inspections were carried out	No. of cases where theft or misuse was detected	Estimated quantity of energy considered as pilferage or misuse (GWH)
Northern Region	Haryana	968	122	N.A.
	Himachal Pradesh	630	230	N.A.
	Jammu & Kashmir	N.A.	N.A.	N.A.
	Punjab	3,396	131	2.08
	Rajasthan	7,544	479	1.57
	Uttar Pradesh	28,891	3,807	8.21
Western Region	Gujarat	4,615	1,482	3.96
	Madhya Pradesh	446,742	377	N.A.
	Maharashtra	2,844	1,569	N.A.
Eastern Region	Bihar	1,277	975	N.A.
	Orissa	..	..	..
	West Bengal	N.A.	N.A.	N.A.
Southern Region	Andhra Pradesh	7,553	2,615	12.92
	Karnataka	N.A.	N.A.	N.A.
	Kerala	N.A.	N.A.	N.A.
	Tamil Nadu	90,240	264	0.48
North Eastern Region	Assam	N.A.	26	N.A.
	Meghalaya	..	..	..

NOTE :—N.A.=Data not available.

TABLE NO. 41
Maximum Demand & Net Energy Generation
(UTILITIES ONLY)
Primemoverwise—Regionwise/Statewise during 1978-79

Region	Name of State /UTs	TOTAL		
		Aggregate Maximum Demand (MW)	Net Generation (GWH)	Auxiliary Consumption (%)
<i>Northern Region</i>	Haryana	897.26	3,372.56	2.14
	Himachal Pradesh	94.45	395.33	0.58
	Jammu & Kashmir	134.30	526.82	1.23
	Punjab	1,529.01	5,944.33	2.12
	Rajasthan	803.08	3,526.87	1.94
	Uttar Pradesh	2,576.59	9,378.51	7.50
	Chandigarh	2.00	0.05	37.50
	Delhi	252.50	1,283.53	9.17
	Central Sector	687.00	1,331.65	13.57
	SUB-TOTAL	6,976.19	26,159.65	5.04
<i>Western Region</i>	Gujarat	1,606.44	7,273.73	8.97
	Madhya Pradesh	1,065.01	4,818.84	8.09
	Maharashtra	2,577.60	14,785.61	4.56
	Goa, Daman & Diu . . . . .	..	..	..
	D. & N. Haveli . . . . .	..	..	..
	Central Sector	405.25	2,338.30	7.16
		SUB-TOTAL	5,654.30	29,216.48	6.49
<i>Eastern Region</i>	Bihar	516.06	2,137.64	13.56
	Orissa	721.00	3,251.27	2.78
	West Bengal	1,009.30	4,688.44	8.88
	D. V. C.	1,038.00	4,880.83	10.32
	A. & N. Islands	4.50	5.58	6.38
	Sikkim	2.39	7.27	3.20
	Central Sector . . . . .	..	..	..
	SUB-TOTAL	3,291.25	14,971.03	8.82
<i>Southern Region</i>	Andhra Pradesh	1,415.50	5,835.90	5.86
	Karnataka	1,047.70	5,863.04	0.28
	Kerala	996.50	5,152.58	0.73
	Tamil Nadu	1,782.00	6,305.95	4.57
	Pondicherry . . . . .	..	..	..
	Lakshadweep	0.54	0.87	1.14
	Central Sector	596.00	2,212.00	11.27
		SUB-TOTAL	5,838.24	25,370.34	3.80
<i>North Eastern Region</i>	Assam	120.00	635.05	3.57
	Manipur	7.60	18.66	9.51
	Meghalaya	126.50	213.77	0.78
	Nagaland	2.50	1.53	1.29
	Tripura	7.10	31.30	1.07
	Arunachal Pradesh	3.52	9.70	4.90
	Mizoram	1.37	1.71	7.57
	Central Sector . . . . .	..	..	..
	SUB-TOTAL	268.59	911.72	2.99
	TOTAL (ALL INDIA)	22,023.57	96,629.22	5.75

TABLE NO. 41—Contd.

Name of State/ U. Ts.	HYDRO		
	Aggregate Maximum Demand (MW)	Net Generation (GWH)	Auxiliary Consumption (%)
Haryana	697.00	3,133.36	0.21
Himachal Pradesh	93.79	395.27	0.58
Jammu & Kashmir	120.00	522.98	0.54
Punjab	1,142.51	5,191.01	0.22
Rajasthan	662.49	2,935.70	0.18
Uttar Pradesh	991.79	3,680.49	0.31
Chandigarh . . . . .	..	..	..
Delhi . . . . .	..	..	..
Central Sector . . . . .	..	..	..
SUB-TOTAL	3,707.58	15,858.81	0.25
Gujarat	223.00	1,155.00	0.51
Madhya Pradesh	193.00	861.69	0.12
Maharashtra	1,221.60	7,010.20	0.43
Goa, Daman & Diu . . . . .	..	..	..
D. & N. Haveli . . . . .	..	..	..
Central Sector . . . . .	..	..	..
SUB-TOTAL	1,637.60	9,026.89	0.41
Bihar	82.88	116.04	0.63
Orissa	574.00	2605.23	0.49
West Bengal	20.85	55.58	2.15
D. V. C.	64.00	221.18	1.15
A. & N. Islands . . . . .	..	..	..
Sikkim	1.92	5.55	0.72
Central Sector . . . . .	..	..	..
SUB-TOTAL	743.65	3,003.58	0.58
Andhra Pradesh	758.00	3,306.60	0.53
Karnataka	1,047.70	5,863.04	0.28
Kerala	996.50	5,152.58	0.73
Tamil Nadu	1,286.40	4,515.36	0.25
Pondicherry . . . . .	..	..	..
Lakshadweep . . . . .	..	..	..
Central Sector . . . . .	..	..	..
SUB-TOTAL	4,088.60	18,837.58	0.44
Assam . . . . .	..	..	..
Manipur	0.60	1.38	1.43
Meghalaya	124.90	212.42	0.44
Nagaland	1.50	0.97	1.02
Tripura	6.80	30.36	1.08
Arunachal Pradesh	2.52	7.99	4.88
Mizoram . . . . .	..	..	..
Central Sector . . . . .	..	..	..
SUB-TOTAL	136.32	253.12	0.67
TOTAL (ALL INDIA)	10,313.75	46,979.98	0.38

TABLE NO. 41—Contd.

Name of State/U. Ts.	STEAM		
	Aggregate Maximum Demand (MW)	Net Generation (GWH)	Auxiliary Consumption (%)
Haryana	197.40	639.10	10.64
Himachal Pradesh . . . . .	..	..	..
Jammu and Kashmir	10.80	3.21	53.27
Punjab	385.00	753.12	13.47
Rajasthan	137.64	590.58	9.85
Uttar Pradesh	1,573.30	5,692.51	11.63
Chandigarh . . . . .	..	..	..
Delhi	238.50	1,280.53	9.18
Central Sector	487.00	906.85	14.27
SUB-TOTAL	3,029.64	9,865.90	11.57
Gujarat	1,354.75	5,997.29	10.57
Madhya Pradesh	872.00	3,957.12	9.66
Maharashtra	1,356.00	7,775.41	8.00
Goa, Daman & Diu . . . . .	..	..	..
D. & N. Haveli . . . . .	..	..	..
Central Sector	29.25	207.51	10.50
SUB-TOTAL	3,612.00	17,937.33	9.27
Bihar	428.30	2,020.80	14.20
Orissa	147.00	646.04	11.05
West Bengal	973.90	4,618.04	8.97
D. V. C.	974.00	4,659.65	10.72
A. & N. Islands	1.00	1.82	11.65
Sikkim . . . . .	..	..	..
SUB-TOTAL	2,524.20	11,946.35	10.68
Andhra Pradesh	657.50	2,529.30	12.03
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu	495.60	1,790.59	13.99
Pondicherry . . . . .	..	..	..
Lakshadweep . . . . .	..	..	..
Central Sector	596.00	2,212.00	11.27
SUB-TOTAL	1,749.10	6,531.89	12.32
Assam	60.00	255.15	5.75
Manipur . . . . .	..	..	..
Meghalaya	1.10	0.40	63.64
Nagaland . . . . .	..	..	..
Tripura . . . . .	..	..	..
Arunachal Pradesh . . . . .	..	..	..
Mizoram . . . . .	..	..	..
SUB-TOTAL	61.10	255.55	5.99
TOTAL (ALL INDIA)	10,976.04	46,537.02	10.55

TABLE No. 41—Contd.

Name of State/U. Ts.	DIESEL		
	Aggregate Maximum Demand (MW)	Net Generation (GWH)	Auxiliary Consumption (%)
Haryana	2.86	0.10	Neg.
Himachal Pradesh	0.66	0.06	Neg.
Jammu & Kashmir	3.50	0.63	10.00
Punjab	1.50	0.20	Neg.
Rajasthan	2.95	0.59	7.81
Uttar Pradesh . . . . .	..	..	..
Chandigarh	2.00	0.05	37.50
Delhi	14.00	3.00	1.96
Central Sector . . . . .	..	..	..
SUB-TOTAL	27.47	4.63	4.34
Gujarat	1.69	0.09	..
Madhya Pradesh	0.01	0.03	..
Maharashtra . . . . .	..	..	..
Goa, Daman & Diu . . . . .	..	..	..
Dadra and Nagar Haveli . . . . .	..	..	..
Central Sector . . . . .	..	..	..
SUB-TOTAL	1.70	0.12	..
Bihar	4.88	0.80	5.88
Orissa . . . . .	..	..	..
West Bengal	14.55	14.82	3.77
D. V. C. . . . .	..	..	..
Andaman & Nicobar	3.50	3.76	3.59
Islands . . . . .	..	..	..
Sikkim	0.47	1.72	10.42
SUB-TOTAL	23.40	21.10	4.40
Andhra Pradesh . . . . .	..	..	..
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu . . . . .	..	..	..
Pondicherry . . . . .	..	..	..
Lakshadweep	0.54	0.87	1.14
Central Sector . . . . .	..	..	..
SUB-TOTAL	0.54	0.87	1.14
Assam	10.00	1.90	5.00
Manipur	7.00	17.28	10.09
Meghalaya	0.50	0.95	5.00
Nagaland	1.00	0.56	1.75
Tripura	0.30	0.94	1.05
Arunachal Pradesh	1.00	1.71	5.00
Mizoram	1.37	1.71	7.57
SUB-TOTAL	21.17	25.05	8.54
TOTAL (ALL INDIA)	74.28	51.77	6.38

TABLE No. 41—Contd.

Name of State/U. Ts.	GAS		
	Aggregate Maximum Demand (MW)	Net Generation (GWH)	Auxiliary Consumption (%)
Haryana
Himachal Pradesh
Jammu and Kashmir
Punjab
Rajasthan
Uttar Pradesh	11.50	5.51	4.01
Chandigarh
Delhi
Central Sector
SUB-TOTAL	11.50	5.51	4.01
Gujarat	27.00	121.35	1.65
Madhya Pradesh
Maharashtra
Goa, Daman & Diu
Dadra & Nagar Haveli
Central Sector
SUB-TOTAL	27.00	121.35	1.65
Bihar
Orissa
West Bengal
D. V. C.
A. & N. Islands
Sikkim
Central Sector
SUB-TOTAL
Andhra Pradesh
Karnataka
Kerala
Tamil Nadu
Pondicherry
Lakshadweep
Central Sector
SUB-TOTAL
Assam	50.00	378.00	2.02
Manipur
Meghalaya
Nagaland
Tripura
Arunachal Pradesh
Mizoram
SUB-TOTAL	50.00	378.00	2.02
TOTAL (ALL INDIA)	88.50	504.86	1.96

TABLE No. 41—Contd.

Name of State/U. Ts.	NUCLEAR		
	Aggregate Maximum Demand (MW)	Net Generation (GWH)	Auxiliary Consumption (%)
Haryana
Himachal Pradesh
Jammu & Kashmir
Punjab
Rajasthan
Uttar Pradesh
Chandigarh
Delhi
Central Sector	200.00	424.80	12.05
SUB-TOTAL	200.00	424.80	12.05
Gujarat
Madhya Pradesh
Maharashtra
Goa, Daman & Diu
Dadra & Nagar Haveli
Central Sector	376.00	2,130.79	6.82
SUB-TOTAL	376.00	2,130.79	6.82
Bihar
Orissa
West Bengal
D. V. C.
A. & N. Islands
Sikkim
SUB-TOTAL
Andhra Pradesh
Karnataka
Kerala
Tamil Nadu
Pondicherry
Lakshadweep
SUB-TOTAL
Assam
Manipur
Meghalaya
Nagaland
Tripura
Arunachal Pradesh
Mizoram
SUB-TOTAL
TOTAL (ALL INDIA)	576.00	2,555.59	7.73

NOTE :—Maximum demand and Net Generation of jointly owned Projects have been shown divided between the partner states as per their theoretical shares.

TABLE NO. 42

Share of participating states in jointly owned power stations
during 1978-79

Name of Power Station	Name of participating States	Share of participating States		Total capacity (MW)
		%	I. C. (MW)	
<i>Bhakra Beas Management Board :</i>				
(a) Bhakra Nangal Complex(Hydro)	Haryana	84.78 × 40%	408.47	1,204.50*
	Punjab	84.78 × 60%	612.70	
	Rajasthan	15.22	183.33	
(b) Dehar (Hydro)	Haryana	32	211.20	660.00
	Punjab	48	316.80	
	Rajasthan	20	132.00	
(c) Pong (Hydro)	Haryana	16.6	39.84	240.00
	Punjab	24.9	59.76	
	Rajasthan	58.5	140.40	
Indraprastha Extn. (Steam)	Delhi	66.67	125.00	187.50
	Haryana	33.33	62.50	
<i>Chambal Projects :</i>				
(a) Gandhi Sagar (Hydro)	Madhya Pradesh	50	57.50	115.00
	Rajasthan	50	57.50	
(b) Jawahar Sagar (Hydro)	Madhya Pradesh	50	49.50	99.00
	Rajasthan	50	49.50	
(c) Rana Pratap Sagar (Hydro)	Madhya Pradesh	50	86.00	172.00
	Rajasthan	50	86.00	
(d) Satpura (Steam)	Madhya Pradesh	60	187.50	312.50
	Rajasthan	40	125.00	
Machkund (Hydro)	Andhra Pradesh	70	80.33	114.75
	Orissa	30	34.42	
Tungbhadra Dam & Hampi (Hydro)	Andhra Pradesh	80	57.60	72.00
	Karnataka	20	14.40	

NOTE :—(*) It comprise of capacity of Ganguwal 77.25 MW, Kotla 77.25 MW Bhakra left Bank 450 MW and Bhakra right Bank 600 MW.
I. C. means Installed Capacity.

TABLE NO. 42 Contd.

Name of Power Station	Energy generated (GWH)		Energy Off-take by States **(GWH)	
	Gross	Net		
<i>Bhakra Beas Management Board</i>				
(a) Bhakra Nangal complex (Hydro)	6,820.80	6,806.61	Haryana	2,542.45
			Punjab	3,602.70
(b) Dehar (Hydro)	2,019.45	2,015.41	Rajasthan	1,981.97
			Jammu & Kashmir	125.88
(c) Pong (Hydro)	1,087.56	1,085.39	Nangal	
			Fertilizers	984.99
			I. B. Bhakra	10.00
			Chandigarh	191.19
			Himachal Pradesh	212.61
			(Old & New including BSL)	
			B. B. M. B.	255.62
			System losses	
ndraprashta Extn. (Steam) (Unit 2, 3 & 4)	1,098.62	1,012.82	Delhi	850.13
			Haryana	162.69
<i>Chambal Projects :</i>				
(a) Gandhi Sagar (Hydro)	622.59	621.75		
(b) Jawahar Sagar (Hydro)	451.01	450.56	Madhya Pradesh	2,045.15
(c) Rana Pratap Sagar (Hydro)	651.90	651.07	Rajasthan	1,112.23
(d) Satpura (Steam)	1,589.08	1,434.00		
<i>Mochkund (Hydro)</i>	<i>771.80</i>	<i>769.51</i>	Andhra Pradesh	<i>473.11</i>
			Orissa	<i>296.40</i>
<i>ungabhadra Dam & Hampi (Hydro)</i>	<i>287.70</i>	<i>283.80</i>	Andhra Pradesh	<i>186.48</i>
			Karnataka	<i>97.32</i>

NOTE : ** Including losses.

I. B. Bhakara means Irrigation Board Bhakara.

TABLE NO. 43

Installed capacity, energy generated, energy sent out by Central Govt. projects, D.V.C. during 1978-79

Name of Power Station	Installed Capacity (MW)	Energy generated(GWH)		Off-take by States including losses
		Gross	Net	
Badarpur Thermal Power Station (Steam)	510.00	1,055.00	905.00£	Delhi 688.91 Haryana 77.73 H. P. (Baira Siul) 16.11 J. & K. (Salal H. E. Project) 13.08 Rajasthan 58.96 U. P. 47.99 Total 902.78
Pong (Talwara) (Steam)	10.00	2.75	1.85	Punjab 1.85
Rajasthan Atomic Power Project (Nuclear)	220.00	483.00	424.80	Rajasthan 424.80
Tarapore Atomic Power Station (Nuclear)	420.00	2,286.68	2,130.79	Gujarat 999.16 Maharashtra 1,131.63 TOTAL 2,130.79
Kalyan Steam Power Station (Chola-Central Railways)	96.00	231.85	207.51	Maharashtra 207.51
Damodar Vally Corporation@	1,421.50	5,442.64	4,880.83	Bihar 3054.07* West Bengal 2,012.66** TOTAL 5,066.73@@
Neyveli Lignite Corporation (Steam)	600.00	2,493.00	2,212.00\$	Tamil Nadu 1,917.00

NOTES :-

£2.22 GWH (difference between net generation and energy sent out) has been consumed by Badarpur power within works and colony.

@D. V. C. is owned by three partners viz. Central Govt., Bihar Govt. and West Bengal Govt.

@@Net generation does not tally with the total energy sent out by D. V. C. since it includes energy purchased by D. V. C.

*Includes 1665.66 GWH direct sales by D. V. C. to ultimate consumers in Bihar Area.

**Includes 720.80 GWH direct sales by D. V. C. to ultimate consumers in West Bengal Area.

\$295.00 GWH (difference between net generation and energy sent out) has been consumed by Neyveli Lignite Corp. within works .

TABLE NO. 44
Statement showing inter-state transfer of power
Regionwise/Statewise during 1978-79

Name of Supplier	Name of Purchaser	Energy transferred (GWH)
<i>Northern Region :</i>		
Haryana S. E. B.	Himachal Pradesh S. E. B.	0.69
Haryana S. E. B.	Punjab S. E. B.	30.53
Himachal Pradesh S. E. B.	Punjab S. E. B.	71.54
Himachal Pradesh S. E. B.	Uttar Pradesh S. E. B.	237.67
Jammu and Kashmir S. E. B.	Punjab S. E. B.	9.75
Punjab S. E. B.	Jammu & Kashmir S. E. B.	149.42
Punjab S. E. B.	Haryana S. E. B.	38.18
Punjab S. E. B.	Chandigarh	14.49
Punjab S. E. B.	Uttar Pradesh S. E. B.	86.32
Punjab S. E. B.	Rajasthan S. E. B.	63.48
Punjab S. E. B.	Delhi	53.07
Punjab S. E. B.	Himachal Pradesh S. E. B.	11.18
Rajasthan S. E. B.	Delhi	36.79
Rajasthan S. E. B.	Uttar Pradesh S. E. B.	38.21
Rajasthan S. E. B.	Punjab S. E. B.	10.36
Uttar Pradesh S. E. B.	Rajasthan S. E. B.	6.17
Uttar Pradesh S. E. B.	Himachal Pradesh S. E. B.	1.51
Uttar Pradesh S. E. B.	Delhi	17.58
<i>Western Region</i>		
Gujarat S. E. B.	Maharashtra	69.05
Gujarat S. E. B.	Goa, Daman & Diu	7.08
Gujarat S. E. B.	Dadra and Nagar Haveli	6.53
Madhya Pradesh S. E. B.	Maharashtra S. E. B.	30.90
Maharashtra S. E. B.	Madhya Pradesh S. E. B.	103.16
Maharashtra S. E. B.	Goa, Daman & Diu	2.18
<i>Eastern Region :</i>		
Bihar S. E. B.	Orissa S. E. B.	60.70
Bihar S. E. B.	D. V. C.	198.23
Bihar S. E. B.	West Bengal S. E. B.	63.05
Orissa S. E. B.	Bihar S. E. B.	380.94
West Bengal S. E. B.	Bihar S. E. B.	1.37
West Bengal S. E. B.	Sikkim	3.00
Damodar Valley Corpn.	Bihar S. E. B.	1,388.31
Damodar Valley Corpn.	West Bengal S. E. B.	378.82
Damodar Valley Corpn.	Durgapur Project Ltd.	62.79
Damodar Valley Corpn.	Dishergarh E. S. Co.	99.07
Damodar Valley Corpn.	Seebpore E. S. Co.	232.92
Damodar Valley Corpn.	Calcutta E. S. Corpn. or Co.	518.26
Durgapur Project Ltd.	Damodar Valley Corpn.	84.76

TABLE NO. 44—Contd.

Name of Supplier	Name of Purchaser	Energy transferred (GWH)
<i>Southern Region :</i>		
Andhra Pradesh S. E. B.	Tamil Nadu S. E. B.	181.50
Andhra Pradesh S. E. B.	Karnataka S. E. B.	103.22
Karnataka S. E. B.	Andhra Pradesh S. E. B.	51.26
Karnataka S. E. B.	Tamil Nadu S. E. B.	139.58
Karnataka S. E. B.	Kerala S. E. B.	8.96
Kerala S. E. B.	Tamil Nadu S. E. B.	1,651.08
Kerala S. E. B.	Karnataka S. E. B.	510.79
Tamil Nadu S. E. B.	Karnataka S. E. B.	146.78
Tamil Nadu S. E. B.	Kerala S. E. B.	0.70
Tamil Nadu S. E. B.	Andhra Pradesh S. E. B.	67.10
Tamil Nadu S. E. B.	Pondicherry	140.47
<i>North Eastern Region :</i>		
Assam S. E. B.	Nagaland	25.96
Assam S. E. B.	Arunachal Pradesh	1.43
Assam S. E. B.	Tripura	1.72
Assam S. E. B.	Manipur	0.11
Meghalaya S. E. B.	Assam S. E. B.	152.16
Nagaland	Manipur	0.19
Arunachal Pradesh	Mizoram	2.80
Mizoram	Arunachal Pradesh	1.50
<i>Inter-Regional Transfers of Power</i>		
<i>Northern Region :</i>		
Uttar Pradesh S. E. B.	<i>Western Region :</i> Madhya Pradesh S. E. B.	140.93
Uttar Pradesh S. E. B.	<i>Eastern Region :</i> Bihar S. E. B.	108.18
<i>Western Region :</i>		
Maharashtra S. E. B.	<i>Southern Region :</i> Karnataka S. E. B.	313.06
<i>Eastern Region :</i>		
Bihar S. E. B.	<i>Northern Region :</i> Uttar Pradesh S. E. B.	17.69
Orissa S. E. B.	<i>Western Region :</i> Madhya Pradesh S. E. B.	25.91
Orissa S. E. B.	<i>Southern Region</i> Andhra Pradesh S. E. B.	11.05
<i>Southern Region</i>		
Karnataka S. E. B.	<i>Western Region</i> Maharashtra S. E. B.	74.42
Karnataka S. E. B.	Goa, Daman & Diu	230.22
Andhra Pradesh S. E. B.	<i>Eastern Region</i> Orissa S. E. B.	9.66
<i>Outside the Country</i>		
Uttar Pradesh S. E. B.	Nepal	10.71
Bihar S. E. B.	Nepal	35.52
West Bengal S. E. B.	Bhutan	2.99
Assam S. E. B.	Bhutan	0.78
Nepal	Bihar S. E. B.	6.49

NOTE :—

1. D. V. C. is being treated as a separate entity for the purpose of this table.
2. Energy sent out to various States from jointly owned projects have been shown in Table No. 42.

SECTION-VI
OPERATING DATA
UTILITIES

The coal consumption by various steam stations in the country was 30.07 million tonnes during 1978-79 as compared to 28.86 million tonnes during the previous year indicating an increase of 4.19%. Consumption of other fossil viz. Lignite decreased by 11.41% and those of furnace oil, wood diesel & Kerosene oil and L.S.H.S./H.H.S. increased by 27.84%, 56.12%, 4.36% and 6.83% respectively as compared to previous year. Total fuel Consumption for steam stations (coal equivalent with average calorific value as 5000 K. Cal/Kg) increased by 4.08% during 1978-79.

12 power stations reported an overall thermal efficiency ranging between 20 to 25% and generated 6725.56 Gwh i.e., 12.93% of total steam generation, 27 power stations had an overall thermal efficiency in the range of 25 to 30% and produced 21797.12 Gwh which represented 41.90% of total steam generation.

11 Power Stations reported an overall thermal efficiency above 30% and generated 18255.53 Gwh which covered 35.09% of total steam generation during 1978-79.

This section depicts the Statewise and Regionwise picture of fuel consumption by various types plants. Two new tables, one showing the manpower engaged in various State Electricity Boards and the other indicating the Simultaneous Peak Demand in various regions have been introduced for the first time in this General Review.

TABLE No. 45

Consumption of fossil fuels for electricity generation from thermal stations
(BY KIND OF FUELS)
Regionwise/Statewise during 1978-79

Region	State/U.Ts.	STEAM STATIONS		
		Coal (MT)	Lignite (MT)	Furnace Oil (KL)
<i>Northern Region</i>	Haryana	2,48,460	..	4,692
	Himachal Pradesh	..	..	..
	Jammu and Kashmir	5,852	..	..
	Punjab	5,56,367	..	27,837
	Rajasthan	29,212	..	..
	Uttar Pradesh	51,48,584	..	86,900
	Chandigarh	..	..	..
	Delhi	11,78,165	..	17,041
	Central Sector	6,27,723	..	28,527
	SUB-TOTAL	77,94,363	..	1,64,997
<i>Western Region</i>	Gujarat	19,45,970	3,234	8,13,145
	Madhya Pradesh	39,48,406	..	47,650
	Maharashtra	40,94,996	..	26,612
	Goa, Daman & Diu	..	..	..
	Dadra & Nagar Haveli	..	..	..
	Central Sector	2,31,715	..	..
		SUB-TOTAL	1,02,21,087	3,234	8,87,407
<i>Eastern Region</i>	Bihar	16,24,968	..	20,390
	Orissa	5,38,572	..	..
	West Bengal	32,33,169	..	8,236
	D.V.C.	31,96,379	..	28,434
	Andaman & Nicobar Islands	..	12,068(A)	..
	Sikkim	..	..	..
		SUB-TOTAL	85,93,088	12,068(A)	57,060
<i>Southern Region</i>	Andhra Pradesh	20,24,778	..	60,927
	Karnataka	..	..	..
	Kerala	..	..	..
	Tamil Nadu	14,29,752	..	84,513
	Pondicherry	..	..	..
	Lakshadweep	..	..	..
	Central Sector	..	24,18,893	2,16,330
		SUB-TOTAL	34,54,530	24,18,893	3,61,770
<i>North Eastern Region</i>	Assam	..	..	18,101
	Manipur	..	..	..
	Meghalaya	2,369	..	..
	Nagaland	..	..	..
	Tripura	..	..	..
	Arunachal Pradesh	..	..	..
	Mizoram	..	..	..
		SUB-TOTAL	2,369	..	18,101
	TOTAL (ALL INDIA)	3,00,65,437	24,22,127 12,068(A)	14,89,335

(A) Wood fuel

MT—Metric Tonne

KL—kilo Litre

TABLE No. 45—Contd.

State/U.Ts.	STEAM STATIONS		
	Light Diesel Oil (KL)	LSHS/HHS* (MT)	Natural Gas (Million Cu. Mts.)
Haryana	1,748	..	..
Himachal Pradesh	..	..	..
Jammu and Kashmir	1,582	..	..
Punjab	3,423	..	..
Rajasthan	57	..	..
Uttar Pradesh	59,606	..	..
Chandigarh	..	..	..
Delhi	..	..	..
Central Sector	..	..	..
SUB-TOTAL	66,416	..	..
Gujarat	4,964	94,597	125.07
Madhya Pradesh	575	..	..
Maharashtra	9,036+167(B)	4,11,402	1,63,202(MT)(C)
Goa, Daman and Diu	..	..	..
Dadra & Nagar Haveli	..	..	..
Central Sector	..	..	..
SUB-TOTAL	14,575+167(B)	5,05,999	125.07+1,63,202 (MT), (C)
Bihar	2,065	35,050	..
Orissa	1,443	..	..
West Bengal	46,362	..	..
D.V.C.	23,583	..	..
Andaman & Nicobar Islands	338	..	..
Sikkim	..	..	..
SUB-TOTAL	73,791	35,050	..
Andhra Pradesh	4,252	..	..
Karnataka	..	..	..
Kerala	..	..	..
Tamil Nadu	315	..	..
Pondicherry	..	..	..
Lakshadweep	..	..	..
Central Sector	..	..	..
SUB-TOTAL	4,567	..	..
Assam	..	38,861	34.97
Manipur	..	..	..
Meghalaya	..	..	..
Nagaland	..	..	..
Tripura	..	..	..
Arunachal Pradesh	..	..	..
Mizoram	..	..	..
SUB-TOTAL	..	38,861	34.97
TOTAL (ALL INDIA)	1,59,349+167(B)	5,79,910	160.04+1,63,202 (MT) (C)

(B) Kerosene oil, Ignition oil

*LSHS—Low Sulphur Heavy Stock; HHS—Hot Heavy Stock

(C)—Refinery gas.

TABLE NO. 45—Contd.

State/U.Ts.	STEAM STATIONS		
	Heat Input (K.Cal. x 109)	Gross Generation (GWH)	Average heat input (K.Cal/KWH)
Haryana	1,468.32	348.99	4,207
Himachal Pradesh . . . . .	..	..	..
Jammu and Kashmir	41.28	6.87	6,009
Punjab	2,776.19	870.38	3,190
Rajasthan	141.48	19.49	7,259
Uttar Pradesh	25,309.60	6,441.67	3,929
Chandigarh . . . . .	..	..	..
Delhi	6,128.98	1,776.24	3,451
Central Sector	3,550.45	1,057.75	3,357
SUB-TOTAL	39,416.30	10,521.39	3,746
Gujarat	21,197.65	6,706.20	3,161
Madhya Pradesh	16,033.63	5,015.75	3,197
Maharashtra	24,187.36	8,451.26	2,862
Goa, Daman and Diu . . . . .	..	..	..
Dadra & Nagar Haveli . . . . .	..	..	..
Central Sector	1,232.72	231.85	5,317
SUB-TOTAL	62,651.36	20,405.06	3,070
Bihar	8,112.87	2,355.24	3,445
Orissa	2,426.87	726.27	3,342
West Bengal	18,276.05	5,072.94	3,603
D.V.C.	16,396.93	5,218.89	3,142
Andaman & Nicobar Islands	39.58	2.06	19,214
Sikkim . . . . .	..	..	..
SUB-TOTAL	45,252.30	13,375.40	3,383
Andhra Pradesh	8,955.10	2,875.30	3,114
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu	7,352.43	2,081.77	3,532
Pondicherry . . . . .	..	..	..
Lakshadweep . . . . .	..	..	..
Central Sector	7,983.67	2,493.00	3,202
SUB-TOTAL	24,291.20	7,450.07	3,261
Assam	887.84	270.72	3,280
Manipur . . . . .	..	..	..
Meghalaya	17.77	1.10	16,155
Nagaland . . . . .	..	..	..
Tripura . . . . .	..	..	..
Arunachal Pradesh . . . . .	..	..	..
Mizoram . . . . .	..	..	..
SUB-TOTAL	905.61	271.82	3,332
TOTAL (ALL INDIA)	1,72,516.77	52,023.74	3,316

TABLE No. 45—Contd.

State/UTs	GAS STATIONS	
	Natural Gas (Million Cu.Mts.)	Generation (GWH)
Haryana
Himachal Pradesh
Jammu & Kashmir
Punjab
Rajasthan
Uttar Pradesh
Chandigarh	1,450(Diesel Oil)	5.74
Delhi
Central Sector
SUB-TOTAL	1,450 (D.Oil)	5.74
Gujarat	48.24	123.39
Madhya Pradesh
Maharashtra
Goa, Daman & Diu
Dadra & Nagar Haveli
Central Sector
SUB-TOTAL	48.24	123.39
Bihar
Orissa
West Bengal
D.V.C.
A & N Islands
Sikkim
SUB-TOTAL
Andhra Pradesh
Karnataka
Kerala
Tamil Nadu
Pondicherry
Lakshadweep
Central Sector
SUB-TOTAL
Assam ¹	178.42	385.81
Manipur
Meghalaya
Nagaland
Tripura
Arunachal Pradesh
Mizoram
SUB-TOTAL	178.42	385.81
TOTAL (ALL INDIA)	226.66 (N.Gas) 1450 (D.Oil)	514.94

D. Oil—Diesel Oil in Kilo Litres.

TABLE No. 45—Contd.

State/UTs	DIESEL STATIONS		
	Diesel Oil (K. Lts)	Generation (GWH)	Average Oil Consumed Lts./kWh
Haryana	30	0.10	0.30
Himachal Pradesh	20	0.06	0.33
Jammu & Kashmir	185	0.70	0.26
Punjab	66	0.20	0.33
Rajasthan	218	0.64	0.34
Uttar Pradesh . . . . .	..	..	..
Chandigarh	26	0.08	0.33
Delhi	920	3.06	0.30
Central Sector . . . . .	..	..	..
SUB-TOTAL	1,465	4.84	0.30
Gujarat	33	0.09	0.37
Madhya Pradesh	10	0.03	0.33
Maharashtra . . . . .	..	..	..
Goa, Daman & Diu . . . . .	..	..	..
Dadra & Nagar Haveli . . . . .	..	..	..
Central Sector . . . . .	..	..	..
SUB-TOTAL	43	0.12	0.36
Bihar	296	0.85	0.35
Orissa . . . . .	..	..	..
West Bengal	5300	15.40	0.34
D.V.C. . . . .	..	..	..
A & N Islands	1026	3.90	0.26
Slkkm	633	1.92	0.31
SUB-TOTAL	7,222	22.07	0.33
Andhra Pradesh . . . . .	..	..	..
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu . . . . .	..	..	..
Pondicherry . . . . .	..	..	..
Lakshadweep	433	0.88	0.49
Central Sector . . . . .	..	..	..
SUB-TOTAL	433	0.88	0.49
Assam	760	2.00	0.38
Manipur	5,766	19.22	0.30
Meghalaya	480	1.00	0.48
Nagaland	270	0.57	0.47
Tripura	298	0.95	0.31
Arunachal Pradesh	750	1.80	0.42
Mizoram	800	1.85	0.43
SUB-TOTAL	9,124	27.39	0.33
TOTAL (ALL INDIA)	18,287	55.30	0.33

TABLE No. 46

*Classification of steam stations efficiencywise
during 1978-79*

Overall Thermal Efficiency	No. of Generating stations	Aggregate installed capacity (MW)	Energy Generated by the group (GWH)
Under 10%	25*	1,068.45	79.35
Above 10% & upto 15%	18	434.88	1,045.48
Above 15% & upto 20%	15	1,090.50	4,120.70
Above 20% & upto 25%	12	1,931.50	6,725.56
Above 25% & upto 30%	27	6,523.10	21,797.12
Above 30%	11	3,826.50	18,255.53
TOTAL	108	14,874.93	52,023.74

* Includes 12 power stations having total aggregate capacity of 970.35 MW but having nil generation, some of these stations were commissioned at the few end of the year 1978-79.

TABLE NO. 47

Salient operating data for steam power stations
(UTILITIES ONLY)
during 1978-79

Items	1977-78	1978-79	% increase
(i) No. of stations	101	108	6.93
(ii) Aggregate installed capacity (MW)	12,681.33	14,874.93	17.30
(iii) Total energy generated (gross) (GWH)	50,556.77	52,023.74	2.90
(iv) Installed capacity of plants (above 50 MW)	12,029.00	14,239.00	18.37
(v) Energy generated from plants (above 50 MW)	48,527.00	50,187.74	3.42
(vi) kWh/kW installed from plants (above 50 MW)	4,034*	3,525*	..
(vii) Fuel used : (ALL STATIONS) :			
(a) (i) Coal (Tonnes)	2,88,57,195	30,06,543	4.19
(ii) Average calorific value k.cal/kg.	4,756	4,705	..
(b) (i) Lignite (tonnes)	2,734,063	24,22,127	(-)11.41
(ii) Average calorific value k.cal/kg.	2,494	2,443	..
(c) (i) Wood (Tonnes)	7,730	12,068	56.12
(ii) Average calorific value k. cal/kg.	3,879	3,000	..
(d) (i) Furnace Oil (K. Litrs.)	1,164,958	14,89,335	27.84
(ii) Average calorific value k. cal/litre	10,633	10,326	..
(e) (i) Diesel oil and kerosene oil (K. Ltrs.)	1,52,829	1,59,516	4.38
(ii) Average calorific value k. cal/Litre	9,780	10,042	..
(f) (i) LSHS & HHS (tonnes)	5,42,828	5,79,910	6.83
(ii) Average calorific value (K. cal./litre)	10,243	10,386	..
(g) Overall thermal efficiency for plants above 50MW	26.98	26.48	..
(h) Total fuel consumption (coal equivalent at 5000 cal/kg. tonnes).	3,31,50,740	3,45,03,354	4.08

* KWH/KW is low as compared to previous year since a few generating sets were added at the end of year 1978-79.

TABLE NO. 48

Actual Simultaneous Peak Demand @
Regionwise-During 1978-79

Region	Month in which Demand was maximum	Actual Peak Demand (MW)
Northern	January, 79	4,691
Western	December, 78	4,486
Eastern	August, 78	2,240
Southern	November, 78	4,004
North-Eastern	September, 78	158
All-India Aggregate Peak Demand		15,579*

NOTE :-

* This is non-coincident aggregate of simultaneous Peak Demand of various regions in the country.

@ Figures of Peak Demand are of actual simultaneous Peak Demand on the system irrespective of power restrictions.

Source—Progress Reports of Regional Electricity Boards.

TABLE NO. 49

Manpower engaged in state electricity boards, DVC & DESU as on 31-3-1979 as reported by State Electricity Boards

Name of Electy. Board/Undertaking	REGULAR			
	Managerial and Higher Executives	Technical and Scientific Officers	Technical Supervisory Staff	Technicians and Operation Staff
	1	2	3	4
<i>Northern Region</i>				
Haryana	9	146	660	17,543
Jammu & Kashmir	Details	Not	Available	
Punjab	Details	Not	Available	
Rajasthan	7	861	20,718**	..
D.E.S.U. . . . .	..	432@	1,131	16,402
<i>Western Region</i>				
Gujarat	12	1,086	2,591	9,948
Madhya Pradesh	13	1,890	3,256	23,873
Maharashtra	18	4,560	8,431	39,091
<i>Eastern Region</i>				
D.V.C.	7	1,064	627	3,836
<i>Southern Region</i>				
Andhra Pradesh	15	1,043	3,619	28,876
Karnataka	6	2,094	1,558	9,633
Kerala	8	699	827	13,201
Tamil Nadu	Details	Not	Available	
<i>North Eastern Region</i>				
Meghalaya	Details	not	Available	

Note :—

Data in respect of State Electy. Boards of Himachal Pradesh, Uttar Pradesh, Bihar, Orissa, West Bengal & Assam are not available.

** Includes technicians & operating staff.

@ Includes managerial & higher executives.

TABLE No. 49—Contd.

Name of Electy. Board/Undertaking	REGULAR		NON-REGULAR	
	Non-Technical	Total Regular (1 to 5)	Technical Trainees and Apprentices	Work Charge Staff
	5	6	7	8
<i>Northern Region</i>				
Haryana	7,509	25,867	29	3,679
Jammu and Kashmir	Details not Available	8288	Data not Available	
Punjab	Details not Available	46,909	Data not Available	
Rajasthan	12,301	33,887	..	8,399
D.E.S.U.	6,438	24,403	Data not Available	
<i>Western Region</i>				
Gujarat	9,584	23,221	573	536
Madhya Pradesh	15,079	44,120	1,105	2,054
Maharashtra	16,190	68,290	Data not Available	
<i>Eastern Region</i>				
D.V.C.	10,775	16,309	42	..
<i>Southern Region</i>				
Andhra Pradesh	11,475	45,528	507	3,934
Karnataka	20,419	33,710	262	894
Kerala	10,688	25,423	130	..
Tamil Nadu	Details not Available	95,221	Data not Available	
<i>North Eastern Region</i>				
Meghalaya	Details not Available	3,267	Data not Available	

TABLE No. 49—Contd.

Name of Electy. Board/Undertaking	Casual	Non-Regular (7 to 9)	Regular and non-Regular (6 + 10)
	9	10	11
<i>Northern Region</i>			
Haryana	233	3,941	29,808
Jammu and Kashmir	Data not Available		8,288*
Punjab	Data not Available		46,909*
Rajasthan	14,500	22,899	56,786
D.E.S.U.	Data not Available		24,403*
<i>Western Region</i>			
Gujarat	2,824	3,933	27,154
Madhya Pradesh	29,742	32,901	77,021
Maharashtra	Data not Available		68,290*
<i>Eastern Region</i>			
D.V.C.	1,500	1,542	17,851
<i>Southern Region</i>			
Andhra Pradesh	1,443	5,884	51,412
Karnataka	3,511	4,657	33,377
Kerala . . . . .	..	130	25,553*
Tamil Nadu	Data not Available		95,221
<i>North Eastern Region</i>			
Meghalaya	Data not Available		3,267*

*Figures pertain to REGULAR EMPLOYEES only.

SECTION-VII
TRANSMISSION AND DISTRIBUTION

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TRANSMISSION AND DISTRIBUTION

I. *Transmission and Distribution Lines* :—

An extensive network of Transmission & Distribution lines has been developed over the years for evacuating power produced in the various generating stations and distributing the same of the consumers. Depending upon the quantum of power and the distance involved, lines of appropriate voltages are laid. The nominal Extra High Voltage lines in vogue are 400 KV, 230/220 KV, 132 KV, 110 KV and 66 KV. 400 KV E.H.V. lines have been introduced so far by the SEBs of U.P. and Maharashtra only.

The standard voltages of operation on the Distribution side are 33 KV, 22 KV, 11KV, 400/230 Volts besides 6.6 KV, 3.3 KV and 2.2 KV. The low voltage system has 3 Phase 4 Wires giving 400/420 Volts between 2 Phases and 230/240 Volts between Phase and Neutral. This has been universally adopted in the country.

The table below depicts the length of lines operating at various voltages as on 31-3-1979 with comparative increase over previous year :—

Voltages	Length of Lines (ckt kms).		% Increase
	31-3-1979	31-3-1978	
400 KV	718	375	91.47
230/220 KV	27,196	25,822	5.32
132/110/90 KV	54,186	52,323	3.56
78/66 KV	26,594	25,694	(—)0.37
33/22 KV	1,51,579	1,43,597	5.56
15/11 KV	6,63,573	6,21,932	6.70
6.6/3.3/2.2 KV	8,228	8,179	0.60
Distribution lines upto 500 Volts	12,13,845	11,20,158	8.36
TOTAL	21,45,919	19,93,080	7.35

The state of Tamil Nadu has the largest T & D network of 309821 ckt. kilometres. Apart from Tamil Nadu, States of Punjab, Rajasthan, Uttar Pradesh, Gujarat, Madhya Pradesh, Maharashtra, Bihar, Andhra Pradesh and Karnataka have more than 1 lakh ckt. kms. of T. & D. Lines.

III. *Transformers* :

The total number of step up transformers installed at various Generating Stations and Sub-Stations in the country as on 31st March, 1979 were 1211 having aggregate capacity of 31190.83 MVA. The numbers and capacity of Step Down and Distribution Transformers as on same date were 9818 and 472738 numbers with aggregate capacity of 83747.58 MVA and 36364.52 MVA respectively.

TABLE NO. 50

Length of transmission and distribution lines
Regionwise/Statewise as on 31st March, 1979

(Circuit Kilometers)

Region	State/U.Ts.	Total	400 KV (O.H.)	230 KV (O.H.)	220 KV (O.H.)
<i>Northern Region</i>	Haryana	95,263	..	..	..
	Himachal Pradesh	22,430	..	..	..
	Jammu & Kashmir (R)	18,495	..	..	124
	Punjab	1,98,258	..	..	3,302(A)
	Rajasthan	1,17,154	..	..	1,250
	Uttar Pradesh	2,36,708	375	..	2,988
	Chandigarh	1,010	..	..	..
	Delhi	15,036	..	..	280
	SUB-TOTAL	6,15,364	375	..	7,944
<i>Western Region</i>	Gujarat	1,25,421	..	..	2,632
	Madhya Pradesh	1,65,259	..	..	2,669
	Maharashtra	2,33,730	343*	..	3,535
	Goa, Daman & Diu	4,685	..	..	24
	D & N Haveli	361	..	..	..
	SUB-TOTAL	5,29,456	343	..	8,860
<i>Eastern Region</i>	Bihar	1,02,335	..	..	779
	Orissa	47,831	..	..	1,536
	West Bengal (P)	66,446	..	..	724
	D.V.C.	3,149	..	..	..
	A & N Islands	442	..	..	..
	Sikkim	384	..	..	..
	SUB-TOTAL	2,20,587	..	..	3,339
<i>Southern Region</i>	Andhra Pradesh	1,76,267	..	..	1,900(B)
	Karnataka	2,07,821	..	..	2,730
	Kerala	57,412	..	..	834
	Tamil Nadu	3,09,821	..	1,776(B)	..
	Pondicherry	2,765	..	..	..
	Lakshadweep	96	..	..	..
	SUB-TOTAL	7,54,182	..	1,776(B)	5,484
<i>North Eastern Region</i>	Assam	15,595	..	..	93
	Manipur**	970	..	..	..
	Meghalaya	3,350	..	..	..
	Nagaland	2,884	..	..	..
	Tripura	2,206	..	..	..
	Arunachal Pradesh	1,056	..	..	..
	Mizoram	269	..	..	..
	SUB-TOTAL	26,330	..	..	93
	TOTAL (ALL INDIA)	21,45,919	718	1,776(B)	25,420

(R)—Data of Kashmir Region repeated due to non-availability of information.

*—Charged at 220 KV.

(A)—1978-79 figures have gone down as compared to previous year because length of B3MB system was wrongly included by Punjab Electricity Board in its returns last year.

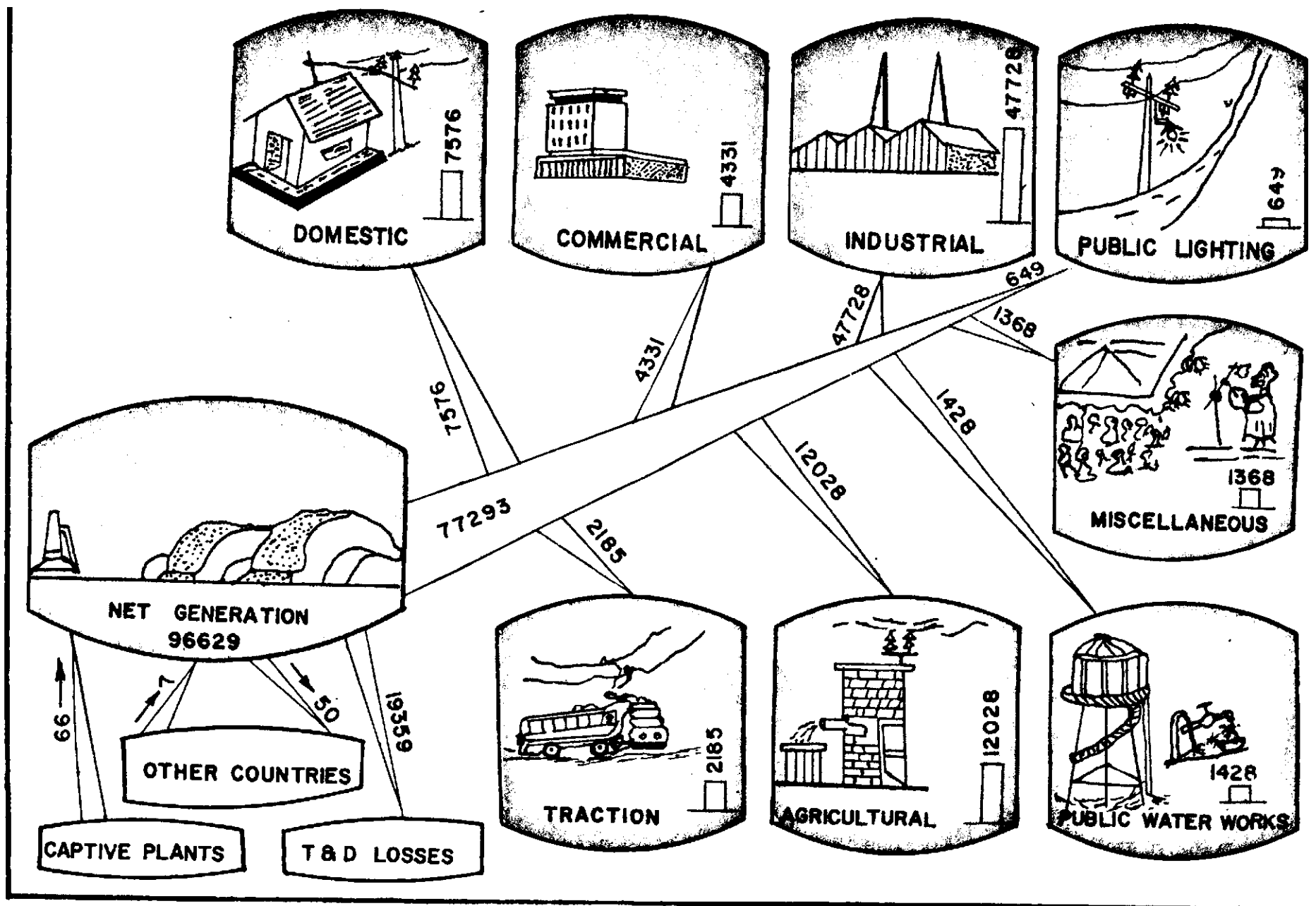


TABLE NO. 50—Contd.

(Circuit Kilometers)

Name of State /U.T.	132 KV	110/90 KV	78/66 KV	33 KV	
	(O.H.)	(O.H.)	(O.H.)	(O.H.)	(U.G.)
Haryana	1,161	..	846	2,900	..
Himachal Pradesh	22	..	87	1,087	..
Jammu & Kashmir (R)	519	..	274	744	..
Punjab	1,929(A)	..	1,745(A)	2,801	..
Rajasthan	3,968	..	415	11,698	..
Uttar Pradesh	6,731	..	2,732	19,449	154
Chandigarh . . . . .	..	..	..	26	..
Delhi . . . . .	..	..	9	295	309
SUB-TOTAL	14,330	..	6,153	39,030	463
Gujarat	3,208	..	5,209	3,432	..
Madhya Pradesh	5,546	..	362	17,545	..
Maharashtra	3,829	2,822	2,832	9,047	..
Goa, Daman & Diu . . . . .	..	77	..	569	..
D & N Haveli . . . . .	..	..	..	..	..
SUB-TOTAL	12,583	2,899	8,403	33,563	..
Bihar	3,061	..	..	8,768	..
Orissa	1,926	..	341	6,186	5
West Bengal (P)	1,724	..	579	3,878	565
D.V.C.	2,505	..	..	629	..
A & N Islands . . . . .	..	..	..	..	..
Sikkim . . . . .	..	..	..	..	..
SUB-TOTAL	9,216	..	920	19,461	570
Andhra Pradesh	3,684	..	2,305	9,852	..
Karnataka . . . . .	..	4,132	3,084	2,962	..
Kerala . . . . .	..	1,525	1,879	..	..
Tamil Nadu . . . . .	..	4,592(B)	2,839(B)	3,766	134
Pondicherry . . . . .	..	24	..	..	..
Lakshadweep . . . . .	..	..	..	..	..
SUB-TOTAL	3,684	10,273	10,107	16,580	134
Assam	662	..	681	3,065	..
Manipur** . . . . .	..	..	128	..	..
Meghalaya	319(B)	..	..	665	..
Nagaland	72	..	..	654	..
Tripura	148	..	98	283	..
Arunachal Pradesh . . . . .	..	..	..	341	..
Mizoram . . . . .	..	..	99(B)	..	..
SUB-TOTAL	1,201	..	1,006	5,013	..
TOTAL (ALL-INDIA)	41,014	13,172	26,594	1,10,617	1,167

(P)—Data of West Bengal State Electricity Board repeated due to non-availability of information.

(B)—1978-79 figures have gone down because of revision of data by Electricity Board/Electricity Department.

TABLE NO. 50—Contd.

State/U.T.	22/20 kV		15/11 kV		6.6 kV	
	O.H.	U.G.	O.H.	U.G.	O.H.	U.G.
Haryana	..	..	33,523	..	..	..
Himachal Pradesh	1,852	..	5,148	..	..	..
Jammu & Kashmir (R)	..	..	4,536	..	550	..
Punjab	..	..	34,552	59	..	..
Rajasthan	..	..	41,630	..	61	..
Uttar Pradesh	..	..	1,07,943	1,406	325	535
Chandigarh	..	..	355	..	..	..
Delhi	..	..	1,694	2,037	39	155
SUB-TOTAL	1,852	..	2,29,381	3,502	975	690
Gujarat	8,177	..	42,309	976	5	1
Madhya Pradesh	..	..	47,437	..	13	34
Maharashtra	9,815	507	62,915	982	64	910
Goa, Daman & Diu	..	..	1,403	3	..	..
D & N Haveli	..	..	156	..	..	..
SUB-TOTAL	17,992	507	54,220	1,961	82	1,005
Bihar	..	..	40,112	..	..	..
Orissa	..	..	20,105	93	..	..
West Bengal (P)	..	60	30,559	446	300	2,046
D.V.C.	..	..	15	..	..	..
A & N Islands	..	..	170	..	..	..
Sikkim	..	..	136	..	..	..
SUB-TOTAL	..	60	91,097	539	300	2,046
Andhra Pradesh	..	..	58,737	..	..	..
Karnataka	..	..	58,176	345	..	..
Kerala	160	..	12,809	..	7	..
Tamil Nadu	18,824	..	42,180	709	27	53
Pondicherry	400	..	129	..	..	..
Lakshadweep	..	..	..	..	..	..
SUB-TOTAL	19,384	..	1,72,031	1,054	34	53
Assam	..	..	6,078	..	..	..
Manipur**	..	..	221	..	..	..
Meghalaya	..	..	1,447	..	..	..
Nagaland	..	..	841	..	..	..
Tripura	..	..	962	..	..	..
Arunachal Pradesh	..	..	197	..	..	..
Mizoram	..	..	42	..	..	..
SUB-TOTAL	..	..	9,788	..	..	..
TOTAL (ALL-INDIA)	39,228	567	6,56,517	7,056	1,391	3,794

** Data of 1977-78 repeated due to non-availability of information from Electricity Department.

TABLE NO. 50--Contd.

(Circuit Kilometres)

Name of State/U.Ts.	3.3/2.2 kV		Distribution lines upto 500 volts.
	O.H.	U.G.	
Haryana . . . . .	..	..	57,833
Himachal Pradesh	147	..	14,087
Jammu and Kashmir (R) . . . . .	..	..	11,748
Punjab . . . . .	..	..	63,880
Rajasthan	38	..	58,094
Uttar Pradesh	399	230	93,391
Chandigarh . . . . .	..	..	629
Delhi . . . . .	..	..	10,218
SUB-TOTAL	584	230	3,09,880
Gujarat	14	125	59,363 @
Madhya Pradesh . . . . .	..	..	91,653
Maharashtra	195	71	1,35,803 @
Goa, Daman and Diu . . . . .	..	..	2,699
Dadra and Nagar Haveli . . . . .	..	..	205
SUB-TOTAL	209	196	2,89,633
Bihar . . . . .	..	..	49,615
Orissa . . . . .	..	..	17,639
West Bengal (P)	42	53	25,450
D.V.C. . . . .	..	..	..
A & N Islands . . . . .	..	..	272
Sikkim	18	..	230
SUB-TOTAL	60	63	93,216
Andhra Pradesh . . . . .	..	..	99,789
Karnataka	1,631	52	1,34,709
Kerala . . . . .	..	..	40,173
Tamil Nadu	5	..	2,34,916
Pondicherry	8	..	2,204
Lakshadweep	5	..	91
SUB-TOTAL	1,649	52	5,11,887
Assam . . . . .	..	..	5,016
Manipur ** . . . . .	..	..	621
Meghalaya . . . . .	..	..	919
Nagaland . . . . .	..	..	1,317
Tripura . . . . .	..	..	710
Arunachal Pradesh . . . . .	..	..	518
Mizoram . . . . .	..	..	128
SUB-TOTAL . . . . .	..	..	9,229
TOTAL (ALL-INDIA)	2,502	541	1,123,845

NOTE: In some cases, 1978—79 figures may not be consistent with the last year figures because of improper reporting or revision of data by Electricity Board/Licensees.

@ Includes 6.6/5 kV & 3.3/2.2 kV lines of Electricity Board.

TABLE NO. 51

Length of transmission and distribution lines in state electricity boards as on 31st March, 1979

(Circuit Kilometres)

Region	Name of the Board	Total	400kV	230 kV	220 kV
			(O.H.)	(O.H.)	(O.H.)
Northern Region	Haryana	96,263	..	..	..
	Himachal Pradesh	22,430	..	..	..
	Jammu & Kashmir (R)	18,495	..	..	124
	Punjab	1,03,410	..	..	548(A)
	Rajasthan	1,16,669	..	..	1,250
	Uttar Pradesh	2,34,430	375	..	2,988
	SUB-TOTAL	5,91,697	375	..	4,910
Western Region	Gujarat	1,18,413	..	..	2,632
	Madhya Pradesh	1,64,259	..	..	2,669
	Maharashtra	2,19,714	343*	..	3,535
	SUB-TOTAL	5,02,386	343	..	8,836
Eastern Region	Bihar	1,02,335	..	..	779
	Orissa	47,387	..	..	1,536
	West Bengal (P)	57,037	..	..	724
	SUB-TOTAL	2,06,759	..	..	3,039
Southern Region	Andhra Pradesh	1,71,706	..	..	1,900 (B)
	Karnataka	2,06,167	..	..	2,730
	Kerala	56,858	..	..	854
	Tamil Nadu	3,08,668	..	1,776(B)	..
	SUB-TOTAL	7,43,399	..	1,776	5,484
North Eastern Region	Assam	15,595	..	..	93
	Meghalaya	3,350	..	..	..
	SUB-TOTAL	18,945	..	..	93
	TOTAL (ALL-INDIA)	20,63,186	718	1,776	22,362

NOTE: (R)—Data of Kashmir Region repeated due to non-availability of information.

* Charged at 220 kV.

(A) Figures have gone down as compared to previous year because length of BBMB system was wrongly included by Punjab S.E.B. in its returns last years.

TABLE NO. 51—Contd.

(Circuit Kilometres)

Name of the Board	132 kV	110/90 kV	78/66 kV	33 kV	
	(O. H.)	(O. H.)	(O. H.)	(O. H.)	(U. G.)
Haryana	1,161	..	846	2,900	..
Himachal Pradesh	22	..	87	1,087	..
Jammu & Kashmir (R)	519	..	274	744	..
Punjab	1,913(A)	..	1,630(A)	2,801	..
Rajasthan	3,968	..	415	11,698	..
Uttar Pradesh	6,731	..	2,782	19,449	134
SUB-TOTAL	14,314	..	6,034	38,679	134
Gujarat	3,146	..	5,088	3,402	..
Madhya Pradesh	5,546	..	362	17,545	..
Maharashtra	3,829	1,368	2,832	9,047	..
SUB-TOTAL	12,521	1,368	8,282	29,994	..
Bihar	3,061	..	..	8,768	..
Orissa	1,926	..	341	6,186	5
West Bengal (P)	1,668	..	579	3,827	11
SUB-TOTAL	6,655	..	920	18,781	16
Andhra Pradesh	3,492	..	2,092	9,852	..
Karnataka . . . . .	..	4,132	3,084	2,962	..
Kerala . . . . .	..	1,525	1,879	..	..
Tamil Nadu . . . . .	..	4,592(B)	2,839(B)	3,766	134
SUB-TOTAL	3,492	10,249	9,894	16,580	134
Assam	662	..	681	3,065	..
Meghalaya	319(B)	..	..	665	..
SUB-TOTAL	981	..	681	3,730	..
TOTAL (ALL-INDIA)	37,963	11,617	25,811	1,07,764	304

(P) Data repeated due to non-availability of information.

(B) Figures have gone down as compared to previous year due to revision of data by Electricity Board.

TABLE No. 51—Contd.

(Circuit Kilometres)

Name of the Board	22 kV		15/11 kV		6.6 kV	
	(O.H.)	(U.G.)	(O.H.)	(U.G.)	(O.H.)	(U.G.)
Haryana . . . . .	..	..	33,523	..	..	..
Himachal Pradesh	1,852	..	5,148	..	..	..
Jammu & Kashmir (R) . . . . .	..	..	4,536	..	550	..
Punjab . . . . .	..	..	34,481	..	..	..
Rajasthan . . . . .	..	..	41,495	..	61	..
Uttar Pradesh . . . . .	..	..	1,07,432	658	325	535
SUB-TOTAL	1,852	..	2,26,615	658	936	535
Gujarat	8,177	..	41,380	..	..	..
Madhya Pradesh . . . . .	..	..	47,160	..	13	34
Maharashtra	9,336	14	61,869	195	..	..
SUB-TOTAL	17,513	14	1,50,409	195	13	34
Bihar . . . . .	..	..	40,112	..	..	..
Orissa . . . . .	..	..	19,896	93	..	..
West Bengal (P) . . . . .	..	..	30,167	266	266	258
SUB-TOTAL . . . . .	..	..	90,175	359	266	258
Andhra Pradesh . . . . .	..	..	57,472	..	..	..
Karnataka . . . . .	..	..	57,644	345	..	..
Kerala	160	..	12,645	..	..	..
Tamil Nadu	18,815	..	42,055	697	27	53
SUB-TOTAL	18,975	..	1,69,816	1,042	27	53
Assam . . . . .	..	..	6,078	..	..	..
Meghalaya . . . . .	..	..	1,447	..	..	..
SUB-TOTAL . . . . .	..	..	7,525	..	..	..
TOTAL (ALL INDIA)	38,340	14	6,44,540	2,254	1,242	880

NOTE: (R) Data of Kashmir Region repeated due to non-availability of information.
(P) Data repeated due to non-availability of information from Board.

TABLE No. 51—Contd.

Name of the Board	3.3/2.2 kV		Distribution Lines up to 500 volts
	(O.H.)	(U.G.)	
	Haryana . . . . .	..	..	57,833
Himachal Pradesh	147	..	14,087
Jammu & Kashmir (R) . . . . .	..	..	11,748
Punjab . . . . .	..	..	62,037
Rajasthan	38	..	57,744
Uttar Pradesh	399	230	92,372
SUB-TOTAL	584	230	2,95,821
Gujarat . . . . .	..	..	54,588@
Madhya Pradesh . . . . .	..	..	90,930
Maharashtra . . . . .	..	..	1,27,346@
SUB-TOTAL	..	..	2,72,864
Bihar . . . . .	..	..	49,615
Orissa . . . . .	..	..	17,404
West Bengal (P)	17	38	19,216
SUB-TOTAL	17	38	86,235
Andhra Pradesh . . . . .	..	..	50,898
Karnataka	1,631	52	1,33,587
Kerala . . . . .	..	..	39,795
Tamil Nadu	5	..	2,33,909
SUB-TOTAL	1,636	52	5,04,189
Assam . . . . .	..	..	5,016
Meghalaya . . . . .	..	..	919
SUB-TOTAL	..	..	5,935
TOTAL (ALL INDIA)	2,237	320	11,65,044

(@) Includes line length of 3.3. & 6.6 kV also separate break up of which is not available.

NOTE : In certain cases, 1978-79 figures may not be consistent with the last year figures because of estimation of data due to improper reporting or revision of data by Electricity Board.

TABLE NO. 52
 Number of transformers and their aggregate capacity
 (UTILITIES ONLY)
 Regionwise/Statewise as on 31st March, 1979

Region	State/U.Ts	Step-up		Step-down	
		Number	Aggregate capacity (KVA)	Number	Aggregate capacity (KVA)
<i>Northern Region</i>	Haryana	9	2,96,000	344	19,87,370
	Himachal Pradesh	32(A)	1,47,270	94(A)	1,89,397
	Jammu & Kashmir (E)	57	3,01,000	73	3,25,000
	Punjab	49	31,84,510	399	65,67,500
	Rajasthan	36	6,11,187	937	31,56,200
	Uttar Pradesh	142	35,91,885	1,912	1,56,97,550
	Chandigarh	2	1,500	6	36,000
	Delhi	19(R)	11,85,000(R)	102	14,26,500
	SUB-TOTAL	346	93,18,352	3,867	2,93,85,517
<i>Western Region</i>	Gujarat	49	26,68,700	479	66,21,250
	Madhya Pradesh	43	16,47,610	832	49,54,250
	Maharashtra	101	41,27,400	650(B)	1,21,71,550(B)
	Goa, Daman & Diu . . . . .	..	..	18	1,32,950
	D & N Haveli . . . . .	..	..	..	..
	SUB-TOTAL	193	84,43,710	1,979	2,38,80,000
<i>Eastern Region</i>	Bihar	34	10,35,200	564	29,66,880
	Orissa	52	12,47,700	301	15,24,910
	West Bengal (P)	116	11,92,493	513	42,04,320
	D.V.C.	19(R)	16,70,000(R)	51	13,55,200
	A & N Islands	9	5,215	..	..
	Sikkim	9	3,500	..	..
	SUB-TOTAL	239	51,54,108	1,429	1,00,51,310
<i>Southern Region</i>	Andhra Pradesh	86	18,01,360	864	66,12,000
	Karnataka	76	13,15,800	402	37,15,980
	Kerala	54	11,97,975	194	23,53,500
	Tamil Nadu	130	35,25,130	823	70,83,470
	Pondicherry . . . . .	..	..	..	..
	Lakshadweep	1	100	..	..
	SUB-TOTAL	347	78,40,365	2,283	1,97,64,950
<i>North Eastern Region</i>	Assam	33	2,36,760	172	5,29,713
	Manipur (R)	12	9,000	..	..
	Meghalaya	12	1,54,550	20	69,200
	Nagaland	5	3,000	41	21,327
	Tripura (B)	7	23,760	10	40,500
	Arunachal Pradesh	16	6,825	15	2,580
	Mizoram	1(C)	400(C)	2	2,500
	SUB-TOTAL	86	4,34,295	260	6,65,820
	TOTAL (ALL INDIA)	1,211	3,11,90,830	9,818	8,37,47,597

(A) Number has gone down as compared to previous year due to deletions of some transformers as reported by Board.

(B) Previous year data was estimated due to non-availability of information from Board/Electy. Deptt.

(C) Figure has gone down as compared to previous year due to revision of data by Electy. Deptt.

(E) Data estimated due to non-availability of information from Kashmir Region.

TABLE No. 52—Contd.

State/U.Ts.	Distribution	
	Number	Aggregate capacity (KVA)
Haryana	27,495	20,85,270
Himachal Pradesh	2,754	1,69,244
Jammu and Kashmir (E)	2,700	3,50,000
Punjab	30,639	24,09,150
Rajasthan	24,361	18,28,375
Uttar Pradesh	98,237	46,43,773
Chandigarh	340	93,000
Delhi	2,796	9,67,768
SUB-TOTAL	1,89,322	1,25,46,580
Gujarat	37,575	30,84,394
Madhya Pradesh	25,443	20,02,458
Maharashtra	48,228(B)	51,40,857(B)
Goa, Daman & Diu	947	72,203
D & N Haveli	68	4,166
SUB-TOTAL	1,12,261	1,03,04,078
Bihar	21,210	16,40,188
Orissa	9,973	6,57,264
West Bengal (P)	15,635	11,03,039
D.V.C. . . . .	..	..
A & N Islands	50	5,150
Sikkim	95	8 000
SUB-TOTAL	46,963	34,13,641
Andhra Pradesh	32,403	22,56,081
Karnataka	32,060	21,62,660
Kerala	10,491	9,03,307
Tamil Nadu	44,005	41,83,397
Pondicherry	509	50,800
Lakshadweep	2	75
SUB-TOTAL	1,19,470	95,56,320
Assam	3,285	4,41,728
Manipur (R)	121	8,400
Meghalaya	459	27,006
Nagaland	314	26,624
Tripura	450	30,350
Arunachal Pradesh	54	3,968
Mizoram	39	5,828
SUB-TOTAL	4,722	5,43,904
TOTAL (ALL INDIA)	4,72,738	3,63,64,523

(P) Data of West Bengal Board of 1977-78 repeated due to non-availability of information.

(R) Data of 1977-78 repeated due to non-availability of information.

NOTE 1

In certain cases, capacity of step-up transformers in respect of generating sets added during the year has not been reported as such, capacity of step-up transformers for these units have been estimated.

TABLE NO. 53

Number of transformers and their aggregate capacity

(UTILITIES ONLY)

In State Electricity Board as on 31st March, 1979

Region	Name of the Board	Step-up Transformers		Step-down Transformers	
		Number	Aggregate capacity (KVA)	Number	Aggregate capacity (KVA)
Northern Region	Haryana	9	2,96,000	344	19,87,370
	Himachal Pradesh	32(A)	1,47,270	94(A)	1,89,397
	Jammu & Kashmir (E)	57	3,01,000	273	3,25,000
	Punjab	23	6,34,010	336	37,59,500
	Rajasthan	35	3,61,187	937	31,56,200
	Uttar Pradesh	142	35,91,885	1,912	1,56,97,550
	SUB-TOTAL	298	53,31,352	3,896	2,51,15,017
Western Region	Gujarat	35	21,73,400	440	64,52,250
	Madhya Pradesh	43	16,47,610	832	49,54,250
	Maharashtra	65	27,87,000	425(B)	87,09,300(B)
	SUB-TOTAL	143	66,08,010	1,697	2,01,15,800
Eastern Region	Bihar	34	10,35,200	564	29,66,880
	Orissa	32	8,22,500	299	15,21,710
	West Bengal (R)	96	8,10,043	360	22,70,770
	SUB-TOTAL	162	26,67,743	1,223	67,59,360
Southern Region	Andhra Pradesh	60	16,44,980	855	63,79,500
	Karnataka	76	13,15,800	402	37,15,980
	Kerala	54	11,97,975	194	23,53,500
	Tamil Nadu	119	25,40,130	804	67,43,470
	SUB-TOTAL	309	66,93,885	2,255	1,93,92,450
North Eastern Region	Assam	33	2,36,760	172	5,29,713
	Meghalaya	12	1,54,550	20	69,200
	SUB-TOTAL	45	3,91,310	192	5,98,913
	TOTAL (ALL INDIA)	957	2,16,97,300	9,263	7,19,81,540

(A) Number has gone down as compared to previous year due to deletions of small transformers as reported by Board.

(B) 1977-78 data was estimated due to non-availability of information.

(E) Estimated due to non-availability of information from Kashmir Region.

(R) Data for 1977-78 repeated due to non-availability of information.

TABLE NO. 53—Contd.

Name of the Board	Distribution Transformers	
	Number	Aggregate Capacity(KVA)
Haryana	27,495	20,85,270
Himachal Pradesh	2,754	1,69,244
Jammu and Kashmir (E)	2,700	3,50,000
Punjab	30,473	23,43,250
Rajasthan	24,282	18,22,520
Uttar Pradesh	97,293	46,12,814
SUB-TOTAL	1,85,002	1,13,83,098
Gujarat	35,865	27,09,203
Madhya Pradesh	25,443	20,02,458
Maharashtra	44,956(B)	39,86,009(B)
SUB-TOTAL	1,06,274	86,97,670
Bihar	21,210	16,40,188
Orissa	9,870	6,52,772
West Bengal (R)	14,246	6,87,936
SUB-TOTAL	45,326	29,80,896
Andhra Pradesh	31,642	21,99,474
Karnataka	31,671	21,38,111
Kerala	10,330	8,84,377
Tamil Nadu	43,626	41,24,700
SUB-TOTAL	1,17,269	93,46,662
Assam	3,285	4,41,728
Meghalaya	459	27,006
SUB-TOTAL	3,744	4,68,734
TOTAL (ALL INDIA)	4,57,615	3,28,77,060

NOTE :

- (i) In certain cases capacity of step-up transformers in respect of generating sets added during the year have not been reported, as such, capacity of step-up transformers for these units have been estimated.
- (ii) In certain cases number of aggregate capacity of transformers have gone down as compared to last year due to estimation of data because of improper reporting or revision of data by State Electricity Boards at later stages.

SECTION VIII

UTILISATION

UTILISATION

I. Energy Consumption :

Electricity consumption by various categories of consumers served by utilities during the year under review was 77292.82 Gwh registering an increase of 11.61% over the previous year.

As in the preceding year, the major portion of electricity viz. 58541.24 Gwh representing 86.5% of the total energy consumption was distributed by the Public Sector and remaining 13.5% was distributed by the Private Sector. Out of the 86.5% of energy distributed by the Public Sector, 75.7% was sold by the 18 State Electricity Boards and balance 10.8% was supplied by the Municipalities and Electricity Departments of States and Union Territories. Out of 13.5% of energy distributed by the Private Sector, the 3 major Private licensees viz. Tata's Electric Companies, Calcutta Electric Supply Corporation and Ahmedabad Electricity Supply Co., distributed 4.5%, 3.7% and 2.0% of energy distributed by whole Private Sector to its consumers respectively. The details of energy sold by various agencies are enumerated in the following table :

Sl. No.	Ownership	Energy sold to ultimate consumers (GWH)	% to total consumption	% Increase over 1977-78
1.	State Electricity Boards	58,541.24	75.7	13.4
2.	Electricity Departments	4,661.75	6.0	11.5
3.	Municipalities (Including DESU)	3,694.23	4.8	7.3
4.	Private Licensees (Including Co-operatives)	10,395.60	13.5	4.0
TOTAL		77,292.82	100.00	11.61

As regards the energy consumed by various classes of consumers, the Industrial Category of consumers, as usual, consumed highest energy and was 61.75% of the total energy sold by public utilities as compared to 61.56% during 1977-78. However, the energy sales to Industrial consumers registered an increase of 11.94% over the previous year.

Agricultural consumers remained the second largest category amongst the consumers of electricity, consuming 15.56% of total energy sales as compared to 14.60% during the previous year. Percentage increase in consumption of energy by Agricultural consumers being 19.0% as compared to previous year.

There was 2.19% decrease in energy consumption by commercial consumers due to the fact that the energy consumed by non-traction, non-industrial and MES consumers which was hether to taken under Commercial category has been taken under Miscellaneous Category during 1978-79 thereby increasing the energy consumption by Miscellaneous Category of consumers by 62.17% as compared to 1977-78.

II. Per Capita, Consumption :

The Per Capita Consumption of electricity in the country was 130.94 Kwh during 1978-79 as compared to 120.73 Kwh during 1977-78 registering an increase of 8.5%. Western region has the maximum per capita consumption of 182.12 kwh followed by Southern, Northern, Eastern and North-Eastern Regions with figure of 133.39, 124.07, 103.57 and 31.82 kwh respectively.

Among the States, Punjab with per capita of 303.14 kwh was at the top followed by Gujarat, Maharashtra and Haryana having per capita of 237.19, 229.61 and 211.41 kwh respectively. However, Union Territory of Delhi had the highest per capita consumption of electricity of 361.89 kwh in the country during the year followed by Chandigarh (350.89 kwh).

III. Electrical Accidents :

While utilising the electricity, several accidents occurred at various electrical installations. During the year 1978-79, total number of electrical accidents reported were 5036 which comprised of 1969 fatal, 2237 non-fatal accidents of human and 830 fatal accidents of animals. Corresponding figures for the year 1977-78 were 1944 fatal, 2217 non-fatal accidents to human and 1088 fatal accidents of animals.

The various tables in the Section depict the energy consumed by different categories of consumers in various States/Electricity Boards, etc., Per Capita Consumption of electricity and electrical accidents.

TABLE NO. 54
All India Energy Sales
 (UTILITIES ONLY)
 During 1978-79

Category	Energy sold during 1978-79 (GWH)	Percentage to to- tal sales	Energy sold during 1977-78 (GWH)	Percentage increase over 1977-78
Domestic	7,575.66	9.80	6,821.31	11.06
Commercial	4,330.58	5.60	4,427.59	(-)2.19
Industrial Power	47,727.70	61.75	42,635.20	11.94
Public Lighting	649.40	0.84	618.76	4.95
Railways/Tramways	2,185.58	2.83	2,296.81	(-)4.84
Agriculture	12,027.85	15.56	10,107.36	19.00
Public Water Works & Sewage				
Pumping.	1,427.73	1.85	1,504.24	(-)5.09
Miscellaneous	1,368.32	1.77	843.76	62.17
TOTAL	77,292.82	100.00	69,255.03	11.61

TABLE NO. 55

Energy Sales to ultimate consumers

(UTILITIES ONLY)

Ownershipwise-Regionwise/Statewise during the year 1978-79

Region	State/U.Ts.	Total Energy Sold (GWH)	Public Sector	
			State Electricity (GWH)	Boards % to total
<i>Northern Region</i>	Haryana	2,414.55	2,414.55	100.00
	Himachal Pradesh	207.29	191.18	92.23
	Jammu & Kashmir	400.67	387.59	96.74
	Punjab	4,656.04	3,537.34	75.97
	Rajasthan	2,603.96	2,600.73	99.88
	Uttar Pradesh	7,688.03	7,656.94	99.60
	Chandigarh	154.11	..	..
	Delhi	1,893.38	..	..
	SUB-TOTAL	20,018.03	16,788.33	83.87
<i>Western Region</i>	Gujarat	6,851.54	4,713.57	68.80
	Madhya Pradesh	4,282.47	4,278.38	99.90
	Maharashtra	12,894.46	6,256.31	48.52
	Goa, Daman and Diu	176.53	..	..
	Dadra & Nagar Haveli	4.63	..	..
	SUB-TOTAL	24,209.63	15,248.26	62.98
<i>Eastern Region</i>	Bihar	4,357.30	2,677.65	61.45
	Orissa	2,335.37	2,333.24	99.91
	West Bengal	5,820.24	1,620.41	27.84
	Andaman & Nicobar Islands	6.63	..	..
	Sikkim	8.27	..	..
	SUB-TOTAL	12,527.81	6,631.30	52.93
<i>Southern Region</i>	Andhra Pradesh	4,319.33	4,275.61	98.99
	Karnataka	4,899.23	4,884.88	99.71
	Kerala	2,362.56	2,307.24	97.66
	Tamil Nadu	8,136.40	7,761.39	95.39
	Pondicherry	120.92	..	..
	Lakshadweep	0.68	..	..
	SUB-TOTAL	19,839.12	19,229.12	96.92
<i>North Eastern Region</i>	Assam	597.73	597.73	100.00
	Manipur	6.23	..	..
	Meghalaya	46.50	46.50	100.00
	Nagaland	17.46	..	..
	Tripura	21.20	..	..
	Arunachal Pradesh	6.51	..	..
	Mizoram	2.60	..	..
	SUB-TOTAL	698.23	644.23	92.27
	TOTAL (ALL INDIA)	77,292.82	58,541.24	75.74

TABLE NO. 55—Contd.

State/U.Ts.	Public Sector			
	Municipalities		Govt. Depts./Govt. Undertaking/Corporation	
	(GWH)	% to total	(GWH)	% to total
Haryana . . . . .	..	..	..	..
Uttar Pradesh . . . . .	..	..	16.11	7.77
Jammu & Kashmir . . . . .	..	..	13.08	3.26
Punjab	121.86	2.62	996.84	21.41
Rajasthan . . . . .	..	..	..	..
Uttar Pradesh . . . . .	..	..	..	..
Chandigarh . . . . .	..	..	154.11	100.00
Delhi	1,891.16	99.88	2.22	0.12
SUB-TOTAL	2,013.02	10.05	1,182.36	5.91
Gujarat	179.79	2.62	..	..
Madhya Pradesh . . . . .	..	..	..	..
Maharashtra	1,402.90	10.88	207.51	1.61
Goa, Daman and Diu . . . . .	..	..	176.53	100.00
Dadra & Nagar Haveli . . . . .	..	..	4.63	100.00
SUB-TOTAL	1582.69	6.54	388.67	1.61
Bihar . . . . .	..	..	1,665.65	38.23
Orissa . . . . .	..	..	..	..
West Bengal . . . . .	..	..	939.57	16.14
Andman & Nicobar Island . . . . .	..	..	6.63	100.00
Sikkim . . . . .	..	..	8.27	100.00
SUB-TOTAL . . . . .	..	..	2,620.12	20.92
Andhra Pradesh . . . . .	..	..	..	..
Karnataka . . . . .	..	..	..	..
Kerala	18.51	0.78	..	..
Tamil Nadu	80.01	0.98	295.00	3.63
Pondicherry . . . . .	..	..	120.92	100.00
Lakshadweep . . . . .	..	..	0.68	100.00
SUB-TOTAL	98.52	0.50	416.60	2.10
Assam . . . . .	..	..	..	..
Manipur . . . . .	..	..	6.23	100.00
Meghalaya . . . . .	..	..	..	..
Nagaland . . . . .	..	..	17.46	100.00
Tripura . . . . .	..	..	21.20	100.00
Arunachal Pradesh . . . . .	..	..	6.51	100.00
Mizoram . . . . .	..	..	2.60	100.00
SUB-TOTAL . . . . .	..	..	54.00	7.73
TOTAL (ALL INDIA)	3,694.23	4.78	4,661.75	6.03

TABLE NO. 55—Contd.

State/U.T.	Private Sector	
	Companies	
	(GWH)	% to total
Haryana . . . . .	..	..
Himachal Pradesh . . . . .	..	..
Jammu & Kashmir . . . . .	..	..
Punjab . . . . .	..	..
Rajasthan	3.23	0.12
Uttar Pradesh	31.09	0.40
Chandigarh . . . . .	..	..
Delhi . . . . .	..	..
	SUB-TOTAL	34.32
		0.17
Gujarat	1,958.18	28.58
Madhya Pradesh	4.09	0.10
Maharashtra	5,027.74	38.99
Goa, Daman & Diu . . . . .	..	..
Dadra & Nagar Haveli . . . . .	..	..
	SUB-TOTAL	6,990.01
		28.87
Bihar	14.00	0.32
Orissa	2.13	0.09
West Bengal	3,260.26	56.02
Andaman & Nicobar Islands . . . . .	..	..
Sikkim . . . . .	..	..
	SUB-TOTAL	3,276.39
		26.15
Andhra Pradesh	43.72	1.01
Karnataka	14.35	0.29
Kerala	36.81	1.56
Tamil Nadu . . . . .	..	..
Pondicherry . . . . .	..	..
Lakshadweep . . . . .	..	..
	SUB-TOTAL	94.88
		0.48
Assam . . . . .	..	..
Manipur . . . . .	..	..
Meghalaya . . . . .	..	..
Nagaland . . . . .	..	..
Tripura . . . . .	..	..
Arunachal Pradesh . . . . .	..	..
Mizoram . . . . .	..	..
	SUB-TOTAL	..
		..
	TOTAL (ALL INDIA)	10,395.60
		13.45

TABLE No. 56

Energy Sales to ultimate Consumers

(UTILITIES ONLY)

Categorywise—Regionwise/Statewise during the year 1978-79

(GWH)

Region	State/UTs.	Total energy sold	Domestic	Commercial
<i>Northern Region</i>	Haryana	2,414.55	181.98	70.60
	Himachal Pradesh	207.29	49.81	26.96
	Jammu & Kashmir	400.67	81.66	34.40
	Punjab	4,656.04	400.23	135.82
	Rajasthan	2,603.96	178.65	131.45
	Uttar Pradesh	7,688.03	757.63	75.06
	Chandigarh	154.11	46.80	25.74
	Delhi	1,893.38	593.74	512.11
	SUB-TOTAL	20,018.03	2,290.50	1,012.14
<i>Western Region</i>	Gujarat	6,851.54	575.83	286.55
	Madhya Pradesh	4,282.47	269.90	195.61
	Maharashtra	12,894.46	1,423.35	913.87
	Goa, Daman & Diu	176.53	23.47	11.27
	Dadra and Nagar Haveli	4.63	0.68	0.29
		SUB-TOTAL	24,209.63	2,293.23	1,407.59
<i>Eastern Region</i>	Bihar*	4,357.30	185.80	121.50
	Orissa	2,335.37	96.21	77.90
	West Bengal*	5,820.24	709.41	568.51
	Andaman & Nicobar Islands	6.63	2.21	2.35
	Sikkim	8.27	5.01	0.80
		SUB-TOTAL	12,527.81	998.64	771.06
<i>Southern Region</i>	Andhra Pradesh	4,319.33	425.02	193.79
	Karnataka	4,899.23	504.69	103.39
	Kerala	2,362.56	291.80	151.92
	Tamil Nadu	8,136.40	663.80	645.38
	Pondicherry	120.92	14.68	6.76
	Lakshadweep	0.68	0.48	0.15
		SUB-TOTAL	19,839.12	1,900.47	1,101.39
<i>North Eastern Region</i>	Assam	597.73	55.11	22.12
	Manipur	6.23	4.77	0.57
	Meghalaya	46.50	11.76	9.10
	Nagaland	17.46	5.30	3.00
	Tripura	21.20	10.90	2.84
	Arunacha Pradesh	6.51	3.17	0.37
	Mizoram	2.60	1.81	0.40
		SUB-TOTAL	698.23	92.82	38.40
	TOTAL (ALL INDIA)	77,292.82	7,575.66	4,330.58

*Includes D.V.C's. sales to ultimate consumers in Bihar and West Bengal.

TABLE No. 56—Contd.

(GWH)				
State/U.Ts.	Industrial power (Low & Medium Voltage)	Industrial power (High Voltage)	Public Lighting	Traction
Haryana	298.27	865.31	7.68	..
Himachal Pradesh	69.99	(A)	1.96	..
Jammu & Kashmir	121.25	(A)	6.04	..
Punjab	505.34	1,849.04(B)	12.78	..
Rajasthan	285.49	1,272.50	19.69	..
Uttar Pradesh	721.48	3,252.63	31.90	274.23
Chandigarh	29.33	41.06	3.07	..
Delhi	199.55	367.17	43.97	..
SUB-TOTAL	2,230.70	7,647.71	127.09	274.23
Gujarat	721.71	3,764.60	65.12	128.65
Madhya Pradesh	291.18	2,821.31	33.18	101.50
Maharashtra	1,141.82	6,651.18	133.03	786.27
Goa, Daman & Diu	12.77	95.83	2.37	..
Dadra and Nagar Haveli	0.42	2.67	0.13	..
SUB-TOTAL	2,167.90	13,335.59	233.83	1,016.42
Bihar	293.94	3,105.25	6.38	371.25
Orissa	73.13	1,899.93	7.59	89.22
West Bengal	385.65	3,441.65	46.69	386.16
Andaman & Nicobar Islands	1.60	..	0.24	..
Sikkim	2.32	..	0.05	..
SUB-TOTAL	756.64	8,446.83	60.95	846.63
Andhra Pradesh	327.47	2,208.80	39.22	..
Karnataka	424.38	3,449.72	56.59	..
Kerala	214.82	1,556.20	35.32	..
Tamil Nadu	626.36	3,822.47	86.59	48.30
Pondicherry	9.39	58.11	2.10	..
Lakshadweep	0.03	..	0.02	..
SUB-TOTAL	1,602.45	11,095.30	219.84	48.30
Assam	166.09	257.75	4.50	..
Manipur	0.70	..	0.17	..
Meghalaya	3.69	11.26	1.20	..
Nagaland	0.78	..	0.41	..
Tripura	3.58	..	0.37	..
Arunachal Pradesh	0.52	..	0.93	..
Mizoram	0.21	..	0.11	..
SUB-TOTAL	175.57	269.01	7.69	..
TOTAL (ALL INDIA)	6,933.26	40,794.44	649.40	2,185.58

(A) Included in Industrial (Low & medium) voltage.

(B) Includes 984.99 GWH sales to Nangal fertilizers by BBMB.

TABLE NO. 56—Contd.

State/U.Ts.	(GWH)		
	Agriculture	Public Water Works and sewage pump- ing	Miscellaneous
Haryana	917.49	23.32	49.90*
Himachal Pradesh	3.22	(A)	55.35
Jammu & Kashmir	22.36	39.24	95.72*
Punjab	1,651.73	7.53(C)	93.57*
Rajasthan	513.16	121.66	81.36
Uttar Pradesh	2,414.64	109.26	51.20
Chandigarh	1.02	3.43	3.66*
Delhi	(A)	130.84	46.00*
SUB-TOTAL	5,523.62	435.28	476.76
Gujarat	1,110.97	170.57	27.54
Madhya Pradesh	281.79	150.68	137.32**
Maharashtra	1,381.26	259.27	204.41*
Goa, Daman & Diu	2.35	20.97	7.50
Dadra and Nagar Haveli	0.35	0.09	..
SUB-TOTAL	2,776.72	601.58	376.77
Bihar	204.61	53.53	15.04
Orissa	34.62	25.76	31.01
West Bengal	68.31	163.40	50.46
Andaman and Nicobar Islands . . . . .	..	0.20	0.03
Sikkim . . . . .	..	0.09	..
SUB-TOTAL	307.54	242.98	96.54
Andhra Pradesh	842.85	43.61	238.57**
Karnataka	341.89	(A)	18.57
Kerala	82.44	30.91	0.05
Tamil Nadu	2,119.82	57.06	66.62
Pondicherry	25.73	4.15	..
Lakshadweep . . . . .	..	..	..
SUB-TOTAL	3,412.73	134.83	323.81
Assam	5.00	10.50	76.66*
Manipur . . . . .	..	0.02	..
Meghalaya	0.79	0.15	8.55
Nagaland . . . . .	..	0.32	7.65*
Tripura	1.45	1.91	0.15
Arunachal Pradesh . . . . .	..	0.09	1.43
Mizoram . . . . .	..	0.07	..
SUB-TOTAL	7.24	13.06	94.44
TOTAL (ALL INDIA)	12,027.85	1,427.73	1,358.32

(C)— It does not include energy supplied by P.S.E.B. to public Water Works consumers which has been included in agricultural Category.

*Includes bulk supply to MES.

**Includes bulk supply to non-traction and non-industrial consumers.

TABLE NO. 57

Energy Sales by State Electricity Boards
Categorywise-Regionwise during 1978-79

(GWH)

Region	Name of the Board	Total sold to ultimate Consumers	Domestic	Commercial
<i>Northern Region</i>	Haryana	2,414.55	181.98	70.60
	Himachal Pradesh	191.18	49.81	26.96
	Jammu & Kashmir	387.59	81.66	34.40
	Punjab	3,537.34	364.44	115.44
	Rajasthan	2,600.73	177.98	131.45
	Uttar Pradesh	7,656.94	756.16	75.06
	SUB-TOTAL	16,788.33	1,612.03	453.91
<i>Western Region</i>	Gujarat	4,713.57	327.03	66.57
	Madhya Pradesh	4,278.38	269.52	195.36
	Maharashtra	6,256.31	524.06	282.00
	SUB-TOTAL	15,248.26	1,120.61	543.93
<i>Eastern Region</i>	Bihar (A)	2,677.65	184.00	121.07
	Orissa	2,333.24	95.46	77.61
	West Bengal (A)	1,620.41	119.48	115.16
	SUB-TOTAL	6,631.30	398.94	313.84
<i>Southern Region</i>	Andhra Pradesh	4,275.61	421.96	192.70
	Karnataka	4,884.88	502.74	102.94
	Kerala	2,307.24	280.21	142.85
	Tamil Nadu	7,761.39	635.21	620.43
	SUB-TOTAL	19,229.12	1,840.12	1,058.92
<i>North Eastern Region</i>	Assam	597.73	55.11	22.12
	Meghalaya	46.50	11.76	9.10
	SUB-TOTAL	644.23	66.87	31.22
TOTAL (ALL INDIA)		58,541.24	5,038.57	2,401.82

(A)—Excludes D.V.C.'s sales to ultimate consumers in Bihar and West Bengal.

TABLE NO. 57—Contd.

(GWH)			
Name of the Board	Industrial (Low & Medium Voltage)	Industrial (High Voltage)	Public Lighting
Haryana	298.27	865.31	7.68
Himachal Pradesh	69.99	(B)	1.96
Jammu & Kashmir	121.25	(B)	6.04
Punjab	471.98	846.40	10.02
Rajasthan	284.49	1,272.50	19.61
Uttar Pradesh	705.39	3,252.63	31.90
SUB-TOTAL	1,951.37	6,236.84	77.21
Gujarat	462.93	2,538.86	43.00
Madhya Pradesh	290.57	2,821.31	33.09
Maharashtra	547.02	2,953.00	76.46
SUB-TOTAL	1,300.52	8,313.17	152.55
Bihar	290.44	1,601.51	5.98
Orissa	72.43	1,899.93	7.54
West Bengal	127.49	830.54	8.88
SUB-TOTAL	490.36	4,331.98	22.40
Andhra Pradesh	322.10	2,208.80	38.69
Karnataka	421.88	3,448.32	56.27
Kerala	196.16	1,542.85	33.17
Tamil Nadu	611.18	3,522.42	82.56
SUB-TOTAL	1,551.32	10,722.39	210.69
Assam	166.09(C)	257.75	4.50
Meghalaya	3.69	11.26	1.20
SUB-TOTAL	169.78	269.01	5.70
TOTAL (ALL INDIA)	5,463.35	29,873.39	468.55

NOTE.—(B)—Included in Industrial (Low & Medium) voltage.
 (C)—Includes 105.76 GWH sales to tea gardens.

TABLE NO. 57—Contd.

Name of the State Electricity Board	Traction	Agriculture	Public Water Works	Miscellaneous
Haryana . . . . .	..	917.49	23.32	49.90*
Himachal Pradesh . . . . .	..	3.22	(B)	39.24
Jammu & Kashmir . . . . .	..	22.36	39.24	82.64*
Punjab . . . . .	..	1,650.32	(D)	78.74*
Rajasthan . . . . .	..	511.68	121.66	81.36
Uttar Pradesh	274.23	2,401.11	109.26	51.20
SUB-TOTAL	274.23	5,506.18	293.48	383.08
Gujarat	128.65	1,074.81	71.22	0.50
Madhya Pradesh	101.50	279.08	150.65	137.30**
Maharashtra	152.76	1,299.69	221.00	200.32*
SUB-TOTAL	382.91	2,653.58	442.87	338.12
Bihar	224.41	196.71	53.53	..
Orissa	89.22	34.28	25.76	31.01
West Bengal	279.79	68.27	20.34	50.46
SUB-TOTAL	593.42	299.26	99.63	81.47
Andhra Pradesh . . . . .	..	809.24	43.61	238.51**
Karnataka . . . . .	..	334.16	(B)	18.57
Kerala . . . . .	..	82.34	29.66	..
Tamil Nadu	48.30	2,118.39	56.40	66.50
SUB-TOTAL	48.30	3,344.13	129.67	323.58
Assam . . . . .	..	5.00	10.50	76.66*
Meghalaya . . . . .	..	0.79	0.15	8.55
SUB-TOTAL . . . . .	..	5.79	10.65	85.21
TOTAL (ALL INDIA)	1,298.86	11,808.94	976.30	1,211.46

NOTE.—(D)—Included in Agriculture category

* —Includes bulk supply to MES

** —Includes bulk supply to non-traction and non-industrial consumers.

TABLE NO. 58

Energy Sales by Private Licensees
Categorywise- Regionwise/Statewise during 1978-79

(GWH)				
Region	State/U.Ts.	Total sold to ultimate consumers	Domestic	Commercial
<i>Northern Region</i>	Rajasthan	3.23	0.67	(A)
	Uttar Pradesh	31.09	1.47	..
	SUB-TOTAL	34.32	2.14	..
<i>Western Region</i>	Gujarat	1,958.18	189.87	215.97
	Madhya Pradesh	4.09	0.38	0.25
	Maharashtra	5,027.74	425.21	149.56
	SUB-TOTAL	6,990.01	615.46	365.78
<i>Eastern Region</i>	Bihar	14.00	1.80	0.40
	Orissa	2.13	0.75	0.29
	West Bengal	3,260.26	583.28	452.21
	SUB-TOTAL	3,276.39	585.83	452.90
<i>Southern Region</i>	Andhra Pradesh	43.72	3.06	1.09
	Karnataka	14.35	1.95	0.45
	Kerala	36.81	7.31	3.62
	SUB-TOTAL	94.88	12.32	5.16
TOTAL (ALL INDIA)		10,395.60	1,215.75	823.84

(A)—Included in Domestic category.

TABLE NO. 58—Contd.

State/U.Ts	(GWH)			
	Industrial power (low & medium voltage)	Industrial power (high voltage)	Public Lighting	Traction
Rajasthan	1.00	..	0.08	..
Uttar Pradesh	16.09	..	..	..
SUB-TOTAL	17.09	..	0.08	..
Gujarat	236.42	1,152.07	18.65	..
Madhya Pradesh	0.61	..	0.09	..
Maharashtra	390.26	3,514.18	30.93	426.00
SUB-TOTAL	627.29	4,666.25	49.67	426.00
Bihar	3.50	..	0.40	..
Orissa	0.70	..	0.05	..
West Bengal	256.05	1,770.10	37.31	28.00
SUB-TOTAL	260.25	1,770.10	37.76	28.00
Andhra Pradesh	5.37	..	0.53	..
Karnataka	2.50	1.40	0.32	..
Kerala	15.34	9.49	0.65	..
SUB-TOTAL	23.21	10.89	1.50	..
TOTAL (ALL INDIA)	927.84	6,447.24	89.01	454.00

TABLE No. 58—Contd.

State/U.Ts	Agricultural	Public Water Works & Se- wage pumping	Miscellaneous
Rajasthan	1.48	..	..
Uttar Pradesh	13.53	..	..
SUB-TOTAL	15.01	..	..
Gujarat	29.57	88.67	26.96
Madhya Pradesh	2.71	0.03	0.02
Maharashtra	80.70	10.90	..
SUB-TOTAL	112.98	99.60	26.98
Bihar	7.90	..	..
Orissa	0.34	..	..
West Bengal . . . . .	..	133.31	..
SUB-TOTAL	8.24	133.31	..
Andhra Pradesh	33.61	..	0.06
Karnataka	7.73	..	..
Kerala . . . . .	..	0.35	0.05
SUB-TOTAL	41.34	0.35	0.11
TOTAL (ALL INDIA)	177.57	233.26	27.09

TABLE NO. 59

Energy sales to ultimate consumers by Electricity Departments, Central Sector, Corporations, Government undertakings & Municipalities.

Categorywise/Regionwise/Statewise during 1978-79

(GWH)

Region	States/U.Ts. ²	Total Energy Sold	Domestic]	Commercial
I. Municipalities				
Northern Region	Punjab	121.86	35.79	18.53
	D.E.S.U. & N.D.M.C.	1,891.16	591.52	512.11
Western Region	Gujarat	179.79	58.93	4.01
	Maharashtra	1,402.90	474.08	482.31
Southern Region	Kerala	18.51	4.28	5.45
	Tamil Nadu	80.01	28.59	24.95
II. Govt. Depts./Central Sector Undertakings/Corporation				
Northern Region	Punjab (BBMB)	994.99	..	..
	Punjab (Pong)	1.85	..	1.85
	H.P. (Bairasiul)	16.11	..	..
	J & K (Salal)	13.08	..	..
	Chandigarh	154.11	46.80	25.74
	Central Sector (Badarpur TPS)	2.22	2.22	..
Western Region	Maharashtra (Chola)	207.51	..	..
	D & N Haveli	4.63	0.68	0.29
	Goa, Daman & Diu	176.53	23.47	11.27
Eastern Region	D.V.C. (In Bihar)	1,665.65	..	0.03
	D.V.C. (In W.B.)	720.80	..	0.04
	Sikkim	8.27	5.01	0.80
	West Bengal	218.77	6.65	1.10
	(D.P.L.) A & N Islands	6.63	2.21	2.35
Southern Region	Lakshadweep	0.68	0.48	0.15
	Pondicherry	120.92	14.68	6.76
	Central Sector	295.00	..	..
North Eastern Region	Manipur	6.23	4.77	0.57
	Nagaland	17.46	5.30	3.00
	Tripura	21.20	10.90	2.84
	Arunachal Pradesh	6.51	3.17	0.37
	Mizoram	2.60	1.81	0.40
TOTAL (I+II)		8,355.98	1,321.34	1,104.92

TABLE NO. 59—Contd.

		(GWH)			
Ownership	States/U.Ts.†	Industrial Power (Low & Medium Voltage)	Industrial Power High Voltages	Public Lighting	Traction
I. Municipalities					
	Punjab	33.36	17.65	2.76	..
	D.E.S.U. and N.D.M.C.	199.55	367.17	43.97	..
	Gujarat	22.36	73.67	3.47	..
	Maharashtra	204.54	184.00	25.64	..
	Kerala	3.32	3.86	1.50	..
	Tamil Nadu	15.18	5.05	4.03	..
II. Govt. Deptts./ Undertakings					
	Punjab (BBMB) . . . . .	..	984.99	..	..
	Punjab (Pong) . . . . .	..	..	..	..
	H.P. (Bairasiul) . . . . .	..	..	..	..
	J & K (Safal) . . . . .	..	..	..	..
	Chandigarh	29.33	41.06	3.07	..
	Central Sector (Badarpur TPS)	..	..	..	..
	Maharashtra (Chola) . . . . .	..	..	..	207.51
	D & N Haveli	0.42	2.67	0.13	..
	Goa, Daman & Diu	12.77	95.83	2.37	..
	D.V.C. (In Bihar) . . . . .	..	1,503.74	..	146.84
	D.V.C. (In W.B.) . . . . .	..	624.39	..	78.37
	Sikkim	2.32	..	0.05	..
	West Bengal (D.P.L.)	2.11	198.62	0.50	..
	A & N Islands	1.60	..	0.24	..
	Lakshadweep	0.03	..	0.02	..
	Pondicherry	9.39	58.11	2.10	..
	Central Sector (Neyveli)	..	295.00	..	..
	Manipur	0.70	..	0.17	..
	Nagaland	0.78	..	0.41	..
	Tripura	3.58	..	0.37	..
	Arunachal Pradesh	0.52	..	0.93	..
	Mizoram	0.21	..	0.11	..
	TOTAL (I + II)	542.07	4,473.81	91.84	432.72

TABLE No. 59—Contd.

(GWH)			
States/U.Ts.	Agricultural	Public Water works & se-wage pumping	Miscellaneous
I. Municipalities—			
Punjab	1.41	7.53	4.83
D.E.S.U. & N.D.M.C.	(B)	130.84	46.00
Gujarat	6.59	10.68	0.08
Maharashtra	0.87	27.37	4.09
Kerala	0.10	..	..
Tamil Nadu	1.43	0.66	0.12
II. Govt. Deptt./Undertaking			
B.B.M.B. in Punjab . . . . .	..	..	10.00(C)
Punjab (Pong) . . . . .	..	..	..
H.P. (Baira-Siul) . . . . .	..	..	16.11
J & K (Salal H.E.P.) . . . . .	..	..	13.08
Chandigarh	1.02	3.43	3.66
Central Sector (B.T.P.S.) . . . . .	..	..	..
Maharashtra (Chola) . . . . .	..	..	..
D & N Haveli	0.35	0.09	..
Goa, Daman & Diu	2.35	20.97	7.50
D.V.C. (in Bihar) . . . . .	..	..	15.04
D.V.C. (in West Bengal) . . . . .	..	..	..
Sikkim . . . . .	..	0.09	..
West Bengal (D.P.L.)	0.04	9.75	..
A & N Islands . . . . .	..	0.20	0.03
Lakshadweep . . . . .	..	..	..
Pondicherry	25.73	4.15	..
Central Sector (Neyveli) . . . . .	..	..	..
Manipur . . . . .	..	0.02	..
Nagaland . . . . .	..	0.32	7.65
Tripura	1.45	1.91	0.15
Arunachal Pradesh . . . . .	..	0.09	1.43
Mizoram . . . . .	..	0.07	..
TOTAL (I+II)	41.34	218.17	129.77

(B) — Included in industrial (Low & Medium) voltage category.

(C) — Sales to Irrigation Board.

TABLE NO. 60

Pattern of energy sales (Categorywise)
Regionwise/Statewise during 1978-79

Region	State/.UTs.	Total Sales (GWH)	Percentage to total Sales	
			Domestic	Commercial
<i>Northern Region</i>	Haryana	2,414.55	7.54	2.92
	Himachal Pradesh	207.29	24.03	13.01
	Jammu & Kashmir	400.67	20.38	8.59
	Punjab	4,656.04	8.60	2.92
	Rajasthan	2,603.96	6.86	5.05
	Uttar Pradesh	7,688.03	9.85	0.98
	Chandigarh	154.11	30.37	16.70
	Delhi	1,893.38	31.36	27.05
	SUB-TOTAL	20,018.03	11.44	5.06
<i>Western Region</i>	Gujarat	6,851.54	8.40	4.18
	Madhya Pradesh	4,282.47	6.30	4.57
	Maharashtra	12,894.46	11.04	7.09
	Goa, Daman & Diu	176.53	13.30	6.38
	D & N Haveli	4.63	14.69	6.26
		SUB-TOTAL	24,209.63	9.47	5.81
<i>Eastern Region.</i>	Bihar	4,357.30	4.26	2.79
	Orissa	2,335.37	4.12	3.34
	West Bengal	5,820.24	12.19	9.77
	A & N Islands	6.63	33.33	35.45
	Sikkim	8.27	60.58	9.67
		SUB-TOTAL	12,527.81	7.97	6.15
<i>Southern Region</i>	Andhra Pradesh	4,319.33	9.84	4.49
	Karnataka	4,899.23	10.30	2.11
	Kerala	2,362.56	12.35	6.43
	Tamil Nadu	8,136.40	8.16	7.93
	Pondicherry	120.92	12.14	5.59
	Lakshadweep	0.68	70.59	22.06
		SUB-TOTAL	19, 839.12	9.58	5.55
<i>North Eastern Region.</i>	Assam	597.73	9.22	3.70
	Manipur	6.23	76.56	9.15
	Meghalaya	46.50	25.29	19.57
	Nagaland	17.46	30.36	17.18
	Tripura	21.20	51.41	13.40
	Arunachal Pradesh	6.51	48.69	5.68
	Mizoram	2.60	69.62	15.38
		SUB-TOTAL	698.23	13.29	5.50
	TOTAL (ALL INDIA)	77,292.82	9.80	5.60

TABLE NO. 60—Contd.

State/U.Ts .	Percentage to total sales		
	Industrial Power	Public Lighting	Traction
Haryana	48.19	0.32	..
Himachal Pradesh	33.76	0.95	..
Jammu & Kashmir	30.26	1.51	..
Punjab	50.57	0.27	..
Rajasthan	59.83	0.76	..
Uttar Pradesh	51.69	0.41	3.57
Chandigarh	45.68	1.99	..
Delhi	29.93	2.32	..
SUB-TOTAL	49.35	0.64	1.37
Gujarat	65.48	0.95	1.88
Madhya Pradesh	72.68	0.77	2.37
Maharashtra	60.44	1.03	6.10
Goa, Daman & Diu	61.52	1.34	..
D & N Haveli	66.74	2.81	..
SUB-TOTAL	64.04	0.97	4.20
Bihar	78.01	0.15	8.52
Orissa	84.49	0.32	3.82
West Bengal	65.76	0.80	6.63
A & N Islands	24.13	3.62	..
Sikkim	28.05	0.61	..
SUB-TOTAL	73.46	0.49	6.76
Andhra Pradesh	58.72	0.91	..
Karnataka	79.08	1.15	..
Kerala	74.96	1.50	..
Tamil Nadu	54.68	1.07	0.59
Pondicherry	55.82	1.74	..
Lakshadweep	4.41	2.94	..
SUB-TOTAL	64.01	1.11	0.24
Assam	70.91	0.75	..
Manipur	11.24	2.73	..
Meghalaya	32.15	2.58	..
Nagaland	4.47	2.35	..
Tripura	16.89	1.74	..
Arunachal Pradesh	7.99	14.29	..
Mizoram	8.08	4.23	..
SUB-TOTAL	63.67	1.10	..
TOTAL (ALL INDIA)	61.75	0.84	2.83

TABLE 60—Contd.

State/U.Ts.	Percentage to total sales		
	Agriculture	Public Water Works	Miscellaneous
Haryana	38.00	0.96	2.07
Himachal Pradesh	1.55	..	26.70
Jammu & Kashmir	5.58	9.79	23.89
Punjab	35.47	0.16	2.01
Rajasthan	19.71	4.67	3.12
Uttar Pradesh	31.41	1.42	0.67
Chandigarh	0.66	2.23	2.37
Delhi . . . . .	..	6.91	2.43
SUB-TOTAL	27.59	2.17	2.38
Gujarat	16.22	2.49	0.40
Madhya Pradesh	6.58	3.52	3.21
Maharashtra	10.71	2.01	1.58
Goa, Daman & Diu.	1.33	11.88	4.25
D & N Haveli	7.56	1.94	..
SUB-TOTAL	11.47	2.48	1.56
Bihar	4.70	1.23	0.34
Orissa	1.48	1.10	1.33
West Bengal	1.17	2.81	0.87
A & N Islands . . . . .	..	3.02	0.45
Sikkim . . . . .	..	1.09	..
SUB-TOTAL	2.46	1.94	0.77
Andhra Pradesh	19.51	1.01	5.52
Karnataka	6.98	..	0.38
Kerala	3.49	1.27	Neg.
Tamil Nadu	26.05	0.70	0.82
Pondicherry	21.28	3.43	..
Lakshadweep . . . . .	..	..	..
SUB-TOTAL	17.20	0.68	1.63
Assam	0.84	1.76	12.82
Manipur . . . . .	..	0.32	..
Meghalaya	1.70	0.32	18.39
Nagaland . . . . .	..	1.83	43.81
Tripura	6.84	9.01	0.71
Arunachal Pradesh . . . . .	..	1.38	21.97
Mizoram . . . . .	..	2.69	..
SUB-TOTAL	1.04	1.87	13.53
TOTAL (ALL INDIA)	15.56	1.85	1.77

TABLE NO. 61
Annual per capita consumption of electricity
 (UTILITIES & NON-UTILITIES),
 Categorywise-Regionwise/Statewise during 1978-79

(In KWH)

Region	State/U.Ts.	Utilities		
		Population (Million)*	Domestic	Commercial
<i>Northern Region</i>	Haryana	11.84	15.37	3.96
	Himachal Pradesh	4.04	12.33	6.67
	Jammu & Kashmir	5.64	14.48	6.10
	Punjab	15.41	25.97	8.81
	Rajasthan	31.52	5.67	4.17
	Uttar Pradesh	101.29	7.48	0.74
	Chandigarh	0.44	105.36	58.50
	Delhi	5.61	105.84	91.29
	SUB-TOTAL	175.79	13.03	5.76
<i>Western Region</i>	Gujarat	31.46	18.30	9.11
	Madhya Pradesh	50.43	5.35	3.88
	Maharashtra	58.35	24.39	15.66
	Goa, Daman and Diu	1.08	21.73	10.44
	Dadra & Nagar Haveli	0.084	8.10	3.45
		SUB-TOTAL	141.404	16.22	9.95
<i>Eastern Region</i>	Bihar	65.29	2.85	1.86
	Orissa	25.81	3.73	3.02
	West Bengal	53.17	13.34	10.69
	Andaman & Nicobar Islands	0.17	13.00	13.82
	Sikkim	0.24	20.88	3.33
		SUB-TOTAL	144.68	6.90	5.33
<i>Southern Region</i>	Andhra Pradesh	49.48	8.59	3.92
	Karnataka	34.04	14.83	3.04
	Kerala	24.90	11.72	6.10
	Tamil Nadu	45.87	14.47	14.07
	Pondicherry	0.56	26.21	12.07
	Lakshadweep	0.035	13.71	4.29
		SUB-TOTAL	154.885	12.27	7.11
<i>North-Eastern Region</i>	Assam	18.58	2.97	1.19
	Manipur	1.36	3.51	0.42
	Meghalaya	1.24	9.48	7.34
	Nagaland	0.67	7.91	4.48
	Tripura	1.97	5.53	1.44
	Arunachal Pradesh	0.60	5.28	0.62
	Mizoram	0.38	4.76	1.05
		SUB-TOTAL	24.80	3.74	1.55
	TOTAL (ALL INDIA)	641.559@	11.81	6.75

*Figures of population as on 30th Sept., 1978, (mid-financial year) are based on mid-year estimates (1971 census)

@Total may not tally due to rounding off.

TABLE NO. 61—Contd.

(In KWH)

State/U.Ts.	Utilities		
	Industrial Water works, Trac-tion & Miscellaneous	Public Lighting	Agriculture
Haryana	104.45	0.53	77.49
Himachal Pradesh	30.92	0.49	0.80
Jammu & Kashmir	45.43	1.07	3.96
Punjab	159.34	0.83	107.19
Rajasthan	55.87	0.62	16.28
Uttar Pradesh	43.53	0.31	23.84
Chandigarh	176.09	6.98	2.32
Delhi	132.53	7.84	—(A)
SUB-TOTAL	62.94	0.72	31.42
Gujarat	153.00	2.07	35.31
Madhya Pradesh	69.45	0.66	5.59
Maharashtra	154.98	2.28	23.67
Goa, Daman & Diu	126.91	2.19	2.18
Dadra & Nagar Haveli	37.85	1.55	4.17
SUB-TOTAL	123.75	1.65	19.64
Bihar	58.80	0.10	3.13
Orissa	82.10	0.29	1.34
West Bengal	83.27	0.88	1.28
Andaman & Nicobar Islands	10.77	1.41	..
Sikkim	10.04	0.21	..
SUB-TOTAL	71.81	0.42	2.13
Andhra Pradesh	56.96	0.79	17.03
Karnataka	114.36	1.65	10.04
Kerala	72.33	1.42	3.31
Tamil Nadu	109.73	1.89	46.21
Pondicherry	127.95	3.75	45.95
Lakshadweep	0.86	0.57	..
SUB-TOTAL	85.26	1.42	22.03
Assam	27.50	0.24	0.27
Manipur	0.52	0.13	..
Meghalaya	19.07	0.97	0.64
Nagaland	13.06	0.61	..
Tripura	2.86	0.19	0.74
Arunachal Pradesh	3.40	1.55	..
Mizoram	0.74	0.29	..
SUB-TOTAL	22.26	0.31	0.29
TOTAL (ALL INDIA)	82.16	1.01	18.75

(A)—Included in Industrial Low & Medium Category.

TABLE No. 61—Contd.

(IN KWH)			
State/U.Ts.	Total Utilities	KWH from self generation of non-utilities	Total Utilities non-utilities
Haryana	203.93	7.48	211.41
Himachal Pradesh	51.31	..	51.31
Jammu & Kashmir	71.04	0.01	71.05
Punjab	302.14	1.00	303.14
Rajasthan	82.61	10.37	92.93
Uttar Pradesh	75.90	12.09	87.99
Chandigarh	350.25	0.64	350.89
Delhi	337.50	24.39	351.89
SUB-TOTAL	113.87	10.20	124.07
Gujarat	217.79	13.40	231.19
Madhya Pradesh	84.93	11.54	96.47
Maharashtra	220.98	8.63	229.61
Goa, Daman & Diu	163.45	40.53	203.98
Dadra & Nagar Haveli	55.12	..	55.12
SUB-TOTAL	171.21	10.97	182.18
Bihar	66.74	20.72	87.46
Orissa	90.48	24.22	114.70
West Bengal	109.46	8.99	118.45
Andaman & Nicobar Islands	39.00	..	39.00
Sikkim	34.46	..	34.46
SUB-TOTAL	86.59	16.98	103.57
Andhra Pradesh	87.29	5.73	93.02
Karnataka	143.93	4.81	148.74
Kerala	94.88	2.55	97.43
Tamil Nadu	177.36	6.67	184.05
Pondicherry	215.93	8.51	224.44
Lakshadweep	19.43	..	19.43
SUB-TOTAL	128.09	5.30	133.39
Assam	32.17	4.77	36.94
Manipur	4.58	..	4.58
Meghalaya	37.50	..	37.50
Nagaland	26.06	3.74	29.80
Tripura	10.76	..	10.76
Arunachal Pradesh	10.85	..	10.85
Mizoram	6.84	..	6.84
SUB-TOTAL	28.15	3.67	31.82
TOTAL (ALL INDIA)	120.48	10.46	130.94

TABLE NO. 62

Energy consumption per square kilometer and per thousand population
(UTILITIES ONLY)
Regionwise/Statewise during 1978-79

Region	State/U.Ts.	Population (Million)	Area in 1000 Kilometres	Sq.	Total Energy Consumption (GWH)
<i>Northern Region</i>	Haryana	11.84	54.22		2,414.55
	Himachal Pradesh	4.04	55.67		207.29
	Jammu & Kashmir	5.64	222.24		400.67
	Punjab	15.41	50.36		4,656.04
	Rajasthan	31.52	342.21		2,603.96
	Uttar Pradesh	101.29	294.41		7,688.03
	Chandigarh	0.44	0.11		154.11
	Delhi	5.61	1.48		1,893.38
	SUB-TOTAL	175.79	1,010.70		20,018.03
<i>Western Region</i>	Gujarat	31.46	195.98		6,851.54
	Madhya Pradesh	50.43	442.84		4,282.47
	Maharashtra	58.35	307.76		12,894.46
	Goa, Daman & Diu	1.08	3.81		176.53
	Dadra & Nagar Haveli	0.084	0.49		4.63
		SUB-TOTAL	141.404	950.88		24,209.63
<i>Eastern Region.</i>	Bihar	65.29	173.88		4,357.30£
	Orissa	25.81	155.78		2,335.37
	West Bengal	53.17	87.86		5,820.24£
	A. & N. Islands	0.17	8.29		6.63
	Sikkim	0.24	7.30		8.27
		SUB-TOTAL	144.68	433.11		12,527.81
<i>Southern Region</i>	Andhra Pradesh	49.48	276.81		4,319.33
	Karnataka	34.04	191.77		4,899.23
	Kerala	24.90	38.86		2,362.56
	Tamil Nadu	45.87	130.07		8,136.40
	Pondicherry	0.56	0.48		120.92
	Lakshadweep	0.035	0.03		0.68
		SUB-TOTAL	154.885	638.02		19,839.12
<i>North Eastern Region</i>	Assam	18.58	78.52		597.73
	Manipur	1.36	22.36		6.23
	Meghalaya	1.24	22.49		46.50
	Nagaland	0.67	16.53		17.46
	Tripura	1.97	10.48		21.20
	Arunachal Pradesh	0.60	83.58		6.51
	Mizoram	0.38	21.09		2.60
		SUB-TOTAL	24.80	255.05		698.23
	TOTAL (ALL-INDIA)	641.559@	3,287.78@		77,292.82

NOTE :-

§—Source for area figures is Statistical Abstract India 1977 published by Central Statistical Organisation.

£—Includes consumption by ultimate consumers of D.V.C. in Valley area of Bihar & West Bengal respectively.

@—Totals may not tally due to rounding off.

TABLE No. 62—C *ntd.*

State/U.Ts.	Energy consumed per thousand of population (kWh)	Energy consumed per square Kilometer (kWh)
Haryana	2,03,932	54,603
Himachal Pradesh	51,309	3,724
Jammu and Kashmir	71,041	1,803
Punjab	3,02,144	92,455
Rajasthan	82,613	7,609
Uttar Pradesh	75,901	26,113
Chandigarh	3,50,250	14,01,000
Delhi	3,37,501	12,79,311
SUB-TOTAL	1,13,875	19,806
Gujarat	2,17,786	34,960
Madhya Pradesh	84,927	9,671
Maharashtra	2,20,985	41,898
Goa, Daman & Diu	1,63,454	46,333
Dadra and Nagar Haveli	55,119	9,449
SUB-TOTAL	1,71,209	25,460
Bihar	66,738	25,059
Orissa	90,483	14,991
West Bengal	1,09,465	66,244
A. & N. Islands	39,000	800
Sikkim	34,458	1,137
SUB-TOTAL	86,590	28,925
Andhra Pradesh	87,294	15,604
Karnataka	1,43,926	25,547
Kerala	94,882	60,797
Tamil Nadu	1,77,380	62,554
Pondicherry	2,15,929	2,51,917
Lakshadweep	19,429	22,667
SUB-TOTAL	1,28,089	31,095
Assam	32,171	7,612
Manipur	4,581	279
Meghalaya	37,500	2,068
Nagaland	26,060	1,056
Tripura	1,07,611	2,023
Arunachal Pradesh	10,850	78
Mizoram	6,842	123
SUB-TOTAL	28,154	2,738
TOTAL (ALL—INDIA)	1,20,477	23,509

TABLE No. 63

Electrical accidents during 1978-79

State/U.Ts./Central Undertakings	Total		Power Houses & Sub-Stations			
	Fatal	Non-Fatal	Electric Supply Undertaking		Industrial Undertaking	
			Fatal	Non-Fatal	Fatal	Non-Fatal
Andhra Pradesh	145+35*	117	..	7	..	..
Assam	16+7*	19	1	3	1+1*	1
Bihar	18	22	2	3	..	1
Gujarat	172+160*	215	10+9*	26	6	17
Haryana			Data Not Available			
Himachal Pradesh (B)	14+12*	43	Details Not Available			
Jammu & Kashmir	19	4	2	1	1	1
Karnataka	145+87*	139	..	4	..	..
Kerala	103+54*	155	..	4	..	..
Madhya Pradesh	163+55*	108	2	13	1	2
Maharashtra	337+100*	397	12	14	10+2*	10
Manipur	3+2*	1	..	..	..	..
Meghalaya	1	3	..	..	..	..
Nagaland	2	5	..	1	..	..
Orissa	69+15*	58	11	16	4	1
Punjab		Data Not Available				
Rajasthan	67+18*	112	2	5	..	..
Sikkim	1	1	..	..	..	..
Tamil Nadu	219+78*	159	..	..	..	..
Tripura	1+3*	8	..	..	..	..
Uttar Pradesh	270+175*	278	15	44	..	..
West Bengal	100+25*	232	6	5	1	2
Mines(A)	9	20	..	..	..	1
Central Govt. }	2	5	2	5	..	..
Installations }						
Railways	29+1*	44	..	..	..	..
<i>Union Territories</i>						
A. & N. Islands	1	2	..	..	..	..
Arunachal Pradesh	2	1	..	1	..	..
Chandigarh	1+1*	3	..	2	..	..
D. & N. Haveli	1	..	..	..	..	..
Delhi	37+3*	74	..	4	..	..
Goa Daman & Diu	16	11	..	1	..	..
Lakshadweep	Nil	Nil	..	..	..	..
Mizoram	1	..	..	..	..	..
Pondicherry	5	1	..	..	..	..
TOTAL (ALL-INDIA)	1,969+830*	2,237	65+9*	159	24+3*	37

*Accidents involving Animals.

(P) Partial Data.

(A) Data partial as information in respect of 2 out of 5 zones is not available.

TABLE NO. 63—Contd.

States/U.Ts./Central Undertakings	Transmission Lines			
	Electric Supply	Undertaking	Industrial	Undertaking
	Fatal	Non-Fatal	Fatal	Non-Fatal
Andhra Pradesh	3	2	..	..
Assam	7+1*	8	..	..
Bihar	1	1	..	1
Gujarat	43+20*	37	5	6
Harayana		Data Not Available		
Himachal Pradesh		Details Not Available		
Jammu & Kashmir	11	2	..	..
Karnataka	33+13*	49	..	..
Kerala	4	1	..	..
Madhya Pradesh	30+6*	22	..	..
Maharashtra	58+10*	62	18+1*	18
Manipur	1	..	..	..
Meghalaya	..	..	..	..
Nagaland	1	4	..	..
Orissa	10	11	..	..
Punjab		Data Not Available		
Rajasthan	9+2*	25	1	2
Sikkim	1	..	..	..
Tamil Nadu	3	4	2	11
Tripura	1+1*	5	..	..
Uttar Pradesh	121+26*	126	1	4
West Bengal	29	67	..	..
Mines (A)	..	..	6	10
Central Govt. } Installations }	..	..	..	..
Railways	..	..	..	..
<i>Union Territories</i>				
A. & N. Islands	..	1	..	..
Arunachal Pradesh	1	..	..	..
Chandigarh	..	..	..	..
D. & N. Haveli	..	..	..	..
Delhi	..	..	..	..
Goa, Daman & Diu	1	1	..	..
Lakshadweep	..	..	..	..
Mizoram	..	..	..	..
Pondicherry	..	1	..	..
TOTAL (ALL-INDIA)	368+79*	429	33+1*	52

* Accidents involving animals.

TABLE No. 63—Contd.

State/U.Ts./Central Undertakings	Distribution Lines			
	Electric Supply Undertaking		Industrial Undertaking	
	Fatal	Non-Fatal	Fatal	Non-Fatal
Andhra Pradesh	134+34*	104	8	4
Assam	7+5*	6	..	1
Bihar	12	8	3	8
Gujarat	68+130*	117	40+1*	12
Haryana		Data Not Available		
Himachal Pradesh		Details Not Available		
Jammu & Kashmir	3	..	2	..
Karnataka	109+74*	79	3	7
Kerala	99+54*	142	..	8
Madhya Pradesh	117+49*	51	13	20
Maharashtra	171+84*	245	68+3*	48
Manipur	2+2*	1	..	..
Meghalaya	1	3	..	..
Nagaland	1	..	..	..
Orissa	42+13*	18	2+2*	12
Punjab		Data Not Available		
Rajasthan	50+16*	72	5	8
Sikkim . . . . .	..	1	..	..
Tamil Nadu	209+63*	139	5+15*	5
Tripura	2*	3	..	..
Uttar Pradesh	129+149*	100	4	4
West Bengal	29+25*	69	35	89
Mines (A)	1	3	2	6
Central Govt. Installations. } . . . . .	..	..	..	..
Railways	18+1*	23	11	20
<i>Union Territories</i>				
A. & N. Islands	1	1	..	..
Arunachal Pradesh	1	..	..	..
Chandigarh	1+1*	1	..	..
D. & N. Haveli	1	..	..	..
Delhi	17+3*	67	20	3
Goa, Daman & Diu	15	9	..	..
Lakshadweep . . . . .	..	..	..	..
Mizoram	1	..	..	..
Pondicherry	5	..	..	..
TOTAL (ALL-INDIA)	1,244+705*	1,262	221+21*	255

*Accidents involving animals.

SECTION-IX
CONSUMER AND CONNECTED LOAD

CONSUMERS AND CONNECTED LOAD

During the year under review, 1531 thousands additional electricity connections were given to different categories of consumers bringing the total number of consumers to 27.40 million as on 31st Mrch, 1979 recording an increase of 5.92% over the previous year. The corresponding Connected Load of all types of Consumers rose to 52010.64 M.W. as compared to 48832.96 M.W. as on 31-3-78 registering an increase of 6.51% over the previous year.

Domestic category continued to have the maximum number of consumers benefiting from electricity followed by Commercial and Agricultural categories. However, the Industrial Consumers had the maximum connected load of 20730 M.W. followed by Agricultural and Domestic Sectors having connected load of 13851 M.W. and 10982 M.W. respectively.

Tables in this Section show the details of consumers and connected load of different categories in various States/Union Territories.

TABLE NO. 64

*Classification of Consumers and connected load
(UTILITIES ONLY)
Regionwise/Statewise as on 31-3-1979*

Region	State/U.Ts.	Total		Domestic	
		Connected load (KW)	Consumers	Connected load (KW)	Consumers
<i>Northern Region</i>	Haryana	19,51,906	9,81,671	2,08,878	6,32,595
	Himachal Pradesh	3,48,798	3,75,782	1,51,372	3,23,541
	Jammu & Kashmir (E)	1,91,574	2,91,304	59,172	2,42,809
	Punjab	30,07,353	18,49,088	6,77,604	13,25,140
	Rajasthan	22,15,880	10,42,000	3,97,406	6,70,814
	Uttar Pradesh	45,21,855	19,36,157	8,24,091	15,16,121
	Chandigarh	1,94,271	67,937	98,609	57,995
	Delhi	11,32,423	9,57,223	4,63,032-A	7,51,605A
	SUB—TOTAL	1,35,64,060	75,43,362	28,80,164	55,20,620
<i>Western Region</i>	Gujarat	44,58,930	26,80,432	11,56,137@	22,82,391@
	Madhya Pradesh	26,94,726	14,49,713	4,58,232	8,15,254
	Maharashtra	86,35,440	40,95,073	21,10,107	28,07,145
	Goa, Daman & Diu	1,98,658	1,04,959	71,669	85,015
	D. & N. Haveli	3,465	3,056	1,205	2,626
		SUB—TOTAL	1,59,91,219	83,33,233	37,97,350	59,92,430
<i>Eastern Region</i>	Bihar	19,95,753	8,49,110	22,50,99	4,54,782
	Orissa	10,48,248	3,98,138	1,70,221	2,83,815
	West Bengal	29,98,103	11,79,681	7,94,305	7,96,353
	D.V.C.	52,0,030	35	..	..
	A. & N. Islands	7,213	11,425	3,270	8,608
	Sikkim	6,782	3,100	6,000	3,000
		SUB—TOTAL	65,76,129	24,41,489	11,98,895	15,46,558
<i>Southern Region</i>	Andhra Pradesh	38,94,146	20,01,341	6,33,700	12,65,552
	Karnataka	30,73,236	19,93,839	7,29,766	14,37,474
	Kerala	17,32,295	12,05,475	5,37,744	8,48,385
	Tamil Nadu	66,18,979	35,80,836	10,71,329	19,58,634
	Pondicherry	98,715	52,891	22,679	34,538
	Lakshadweep	2,601	3,998	1,955	3,584
		SUB—TOTAL	1,54,19,972	88,38,380	29,97,173	55,48,167
<i>North Eastern Region</i>	Assam	3,59,188	1,25,665	60,900	87,500
	Manipur	7,972	18,575	4,202	18,000
	Meghalaya	28,205	24,938	11,204	20,867
	Nagaland	37,095	32,685	21,914	26,935
	Tripura	17,538	21,978	6,000	16,000
	Arunachal Pradesh	4,025	10,962	2,554	8,842
	Mizoram	5,234	4,890	1,960	3,762
		SUB—TOTAL	4,59,257	2,39,693	1,08,734	1,81,906
	TOTAL (ALL—INDIA)	5,20,10,637	2,73,96,157	1,09,82,316	1,87,89,681

(E) — Data of Kashmir Region estimated due to non-availability of information.

(A) — Figures have gone down as compared to previous year due to amalgamation of light/power consumers and revision of NDMC data.

(@) — The connected load and consumers of Gujarat Electricity Board of Commercial Category have been included in Domestic Category.

TABLE NO. 64—Contd.

State/U.Ts.	Commercial		Industrial (LV & MV)	
	Connected Load (KW)	Consumers	Connected Load (KW)	Consumers
Haryana	75,322	1,31,483	3,84,921	34,099
Himachal Pradesh	47,493	45,435	78,299	4,974
Jammu & Kashmir	18,240	18,591	70,650	6,702
Punjab	2,11,133	2,43,003	6,07,730	56,828
Rajasthan	1,57,836	2,12,927	3,88,600	38,358
Uttar Pradesh	86,062*	45,509*	8,86,531	97,981
Chandigarh	48,621	8,321	13,659	931
Delhi	3,19,731(A)	1,71,121(A)	2,98,360	33,479
SUB—TOTAL	9,64,438	8,96,390	27,28,750	2,71,352
Gujarat]	1,52,387	97,431	8,69,156	1,07,724
Madhya Pradesh	2,49,171	2,97,613	4,67,663	49,612
Maharashtra	6,65,367	5,93,984	12,34,592	1,26,293
Goa, Daman & Diu	15,560	15,576	22,016	2,334
Dadra & Nagar Haveli	40	73	980	73
SUB—TOTAL	10,82,525	10,04,677	25,94,409	2,86,036
Bihar	1,24,775	1,87,456	4,70,070	54,417
Orissa	82,540	92,067	1,79,709	11,581
West Bengal	4,71,408	2,89,890	4,07,775	68,103
D.V.C.	30	3	..	..
A. & N. Islands	1,311	2,622	2,450	153
Sikkim	(B)	(B)	750	20
SUB—TOTAL	6,80,064	5,72,038	10,60,754	1,34,274
Andhra Pradesh	3,69,815	2,89,279	4,74,050	43,176
Karnataka	1,45,605	2,02,425	3,96,211	61,274
Kerala	1,66,814	2,53,246	3,64,008	31,304
Tamil Nadu	4,90,607	5,69,905	8,36,703	1,47,355
Pondicherry	6,976	9,603	22,322	1,508
Lakshadweep	418	342	176	28
SUB—TOTAL	11,80,235	13,24,800	20,93,470	2,84,645
Assam	40,500	32,800	1,34,600	3,433
Manipur	341	35	3,122	473
Meghalaya	3,805	3,831	3,893	102
Nagaland	5,197	5,034	3,101	356
Tripura	1,885	5,000	6,900	700
Arunachal Pradesh	506	540	200	3
Mizoram	2,920	400	185	4
SUB—TOTAL	55,154	47,640	1,52,001	5,075
TOTAL (ALL—INDIA)	39,62,416	38,45,545	66,29,384	9,81,382

*—No. of consumers and their connected load reported last year have been reclassified by Board.

(B)—Included in Domestic category.

(LV & MV) —Means Low and Medium Voltage.

TABLE No. 64—Contd.

State/U.Ts.	Industrial (High Voltage)		Public Lighting	
	Connected Load (KW)	Consumers	Connected Load (KW)	Consumers
Haryana	3,88,977	637	3,834	571
Himchal Pradesh	(C)	(C)	1,080	159
Jammu & Kashmir (E)	(C)	(C)	320(D)	39(D)*
Punjab	6,29,875	819	3,883	493
Rajsthan	4,14,361	297	8,195**	2,782**
Uttar Pradesh	10,34,572	2,225	13,059	3,403
Chandigarh	21,701	57	1,106	124
Delhi	(C)	(C)	12,625	978
SUB—TOTAL	24,89,486	4,035	45,102	8,549
Gujarat	8,89,823	1,338	24,825	7,356
Madhya Pradesh	536,010	666	22,039	8,036
Maharashtra	23,92,487	3,246	41,179	16,396
Goa, Daman & Diu	70,809	111	1,024	270
D. & N. Haveli	600	7	250	45
SUB—TOTAL	38,89,729	5,368	89,317	32,103
Bihar	5,41,177	1,104	17,008**	5,577**
Orissa	4,78,989	242	10,698	2,590
West Bengal	9,80,627	1,811	13,897	428
D.V.C.	4,25,000	21	..	..
A. & N. Islands . . . . .	..	..	117	37
Sikkim . . . . .	..	..	32	80
SUB—TOTAL	24,25,793	3,178	31,752	8,712
Andhra Pradesh	8,68,667	1,046	30,602	17,747
Karnataka	7,96,551	1,006	24,590	8,273
Kerala	4,17,566**	620	14,222	5,024
Tamil Nadu	11,28,107	1,243	50,765	36,945
Pondicherry	19,470	23	678	27
Lakshadweep . . . . .	..	..	52	44
SUB—TOTAL	32,30,361	3,938	1,20,909	68,060
Assam	61,081	20	4,250	460
Manipur	(C)	(C)	87	60
Meghalaya	4,231	1	257**	70**
Nagaland . . . . .	..	..	992	317
Tripura . . . . .	..	..	250	100
Arunachal Pradesh . . . . .	..	..	300	943
Mizoram . . . . .	..	..	49	720
SUB—TOTAL	65,312	21	6,185	2,670
TOTAL (ALL—INDIA)	1,21,00,681	16,540	2,93,265	1,20,094

NOTE.— **No. of consumers/Connected Load reported last year have been revised by Board.

(D)—Consumers & Connected Load of Kashmir Region are included in Industrial (LV & MV) Category.

(C) Included in Industrial Low & Medium Voltage.

TABLE NO. 64—Contd.

State/U.Ts.	Traction		Agricultural	
	Connected load (KW)	Consumers	Connected load (KW)	Consumers
Haryana . . . . .	..	..	8,44,984	1,81,232
Himachal Pradesh . . . . .	..	..	15,891	1,640
Jammu & Kashmir . . . . .	..	..	15,647	885
Punjab . . . . .	..	..	8,74,128	2,24,718
Rajasthan . . . . .	..	..	7,56,301	1,54,841
Uttar Pradesh	1,06,955	4	15,09,218	2,67,791
Chandigarh . . . . .	..	..	1,692	372
Delhi . . . . .	..	..	(C)	(C)
SUB-TOTAL	1,06,955	4	40,17,861	8,31,479
Gujarat	50,000	5	12,20,027	1,78,888
Madhya Pradesh	43,500	6	6,94,306	2,76,870
Maharashtra	1,44,800	8	18,32,134	5,40,258
Goa, Daman & Diu . . . . .	..	..	9,447	1,590
D. & N. Haveli . . . . .	..	..	350	202
SUB-TOTAL	2,38,300	19	37,56,264	9,97,808
Bihar	1,50,960	7	4,54,101	1,45,115
Orissa	22,900	4	58,377	7,079
West Bengal	1,21,267	13	1,26,345	21,133
D.V.C.	90,000	7	..	..
A. & N. Islands . . . . .	..	..	..	..
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	3,85,127	31	6,38,823	1,73,327
Andhra Pradesh . . . . .	..	..	14,55,061	3,62,465
Karnataka . . . . .	..	..	9,14,038	2,81,442
Kerala . . . . .	..	..	2,00,08	66,420
Tamil-Nadu	53,189	8	28,01,236	8,40,532
Pondicherry . . . . .	..	..	23,435	7,180
Lakshadweep . . . . .	..	..	..	..
SUB-TOTAL	53,189	8	54,13,778	15,58,039
Assam . . . . .	..	..	21,750	1,063
Manipur . . . . .	..	..	..	..
Meghalaya . . . . .	..	..	1,120**	35**
Nagaland . . . . .	..	..	..	..
Tripura . . . . .	..	..	1,243	100
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL . . . . .	..	..	24,113	1,198
TOTAL (ALL-INDIA)	78, 3,571	62	1,38,50,839	35,61,851

**—No. of consumers/connected load reported last year have been revised by the Board.

(C)—Included in Industrial low & medium voltage category.

TABLE No. 64—Contd.

State/U.Ts.	Public Water Works		Miscellaneous	
	Connected load (KW)	Consumers	Connected load (KW)	Consumers
Haryana	15,341	949	29,649	105
Himachal Pradesh	(C)	(C)	54,663	33
Jammu & Kashmir (E)	9,216	315	18,329	1,963
Punjab	3,000(F)	86(F)	..	1
Rasajthan	40,659	2,722	45,522	1,459
Uttar Pradesh	37,067	1,026	24,300	2,097
Chandigarh	3,818	132	5,065	5
Delhi	37,675	39	..	1
SUB-TOTAL	1,53,776	5,269	1,77,528	5,664
Gujarat	86,150	5,226	10,425	73
Madhya Pradesh	45,456	1,644	1,78,347	12
Maharashtra	88,213	3,776	1,26,561	3,967
Goa, Daman & Diu	4,038	32	4,095	31
D. & N. Haveli	40	31	..	..
SUB-TOTAL	2,23,897	10,709	3,19,428	4,083
Bihar	22,563	652	..	..
Orissa	14,801	636	30,013	124
West Bengal	45,804	456	36,675	1,500
D.V.C. . . . .	..	..	5,000	4
A. & N. Islands	65	5	..	..
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	83,233	1,743	71,688	1,628
Andhra Pradesh	20,587	1,112	41,664	20,964
Karnataka	66,475	1,945	..	..
Kerala	11,853	475	80	1
Tamil Nadu	52,323	8,161	1,34,720	18,053
Pondicherry	3,155	12	..	..
Laksha dweep . . . . .	..	..	..	..
SUB-TOTAL	1,54,393	11,705	1,76,464	39,018
Assam	3,907	33	32,200	356
Manipur	220	5	..	..
Meghalaya	564	17	3,131	15
Nagaland	275	17	5,616	26
Tripura	960	75	300	3
Arunachal Pradesh	15	2	450	630
Mizoram	120	4	..	..
SUB-TOTAL	6,061	153	41,697	1,030
TOTAL (ALL-INDIA)	6,21,360	29,579	7,86,805	51,423

(C)—Included in Industrial (LV & MV) category.

(F)—Consumers & connected load of Punjab State Electricity Board are included in Agricultural category.

NOTE.—In certain cases, figures for the year 1978-79 may not be consistent with the previous years figures because of improper reporting or revision of last year data by Electricity Boards/licenceses.

TABLE No. 65

Average electricity consumption per consumer
Regionwise/Statewise—Categorywise during 1978-79

(in thousand KWH)

Region	State/U. Ts.	Total Average All-categories	Domestic	Commercial
<i>Northern Region</i>	Haryana	2.46	0.29	0.54
	Himachal Pradesh	0.55	0.15	0.59
	Jammu & Kashmir	1.38	0.34	0.89
	Punjab	2.52	0.30	0.56
	Rajasthan	2.40	0.27	0.62
	Uttar Pradesh	3.97	0.50	1.65
	Chandigarh	2.27	0.81	3.09
	Delhi	1.98	0.79	2.09
	SUB-TOTAL	2.65	0.41	1.13
<i>Western Region</i>	Gujarat	2.56	0.25	2.94
	Madhya Pradesh	2.95	0.33	0.65
	Maharashtra	3.15	0.51	1.54
	Goa, Daman & Diu	1.68	0.28	0.72
	D. & N. Haveli	1.51	0.26	3.97
		SUB-TOTAL	2.91	0.38	1.40
<i>Eastern Region</i>	Bihar (A)	5.13	0.41	0.65
	Orissa	5.86	0.34	0.85
	West Bengal (A)	4.93	0.89	1.96
	A. & N. Islands	0.58	0.26	0.90
	Sikkim	2.67	1.67	..
		SUB-TOTAL	5.13	0.64	1.35
<i>Southern Region</i>	Andhra Pradesh	2.16	0.33	0.67
	Karnataka	2.46	0.35	0.51
	Kerala	1.96	0.34	0.60
	Tamil Nadu	2.27	0.34	1.13
	Pondicherry	2.29	0.43	0.70
	Lakshadweep	0.17	0.14	0.44
		SUB-TOTAL	2.24	0.34	0.83
<i>North Eastern Region</i>	Assam	4.76	0.63	0.67
	Manipur	0.33	0.27	16.29
	Meghalaya	1.87	0.56	2.38
	Nagaland	0.53	0.20	0.59
	Tripura	0.96	0.68	0.57
	Arunachal Pradesh	0.59	0.36	0.69
	Mizoram	0.53	0.48	1.00
		SUB-TOTAL	2.91	0.51	0.81
	TOTAL (ALL-INDIA)	2.82	0.40	1.13

(A)—Including D.V.C.

TABLE No. 65—Contd.

(In thousand KWH)

State/U. Ts.	Industrial L.V. & MV.	Industrial H.V.	Public Lighting
Haryana	8.75	1,358.41	13.45
Himachal Pradesh	14.07	..	12.33
Jammu & Kashmir	18.09	..	154.87
Punjab	9.22	2,257.67	25.92
Rajasthan	7.44	4,284.51	7.08
Uttar Pradesh	7.36	1,461.86	9.37
Chandigarh	31.50	720.35	24.76
Delhi	5.96	..	44.96
SUB-TOTAL	8.22	1,895.34	14.87
Gujarat	6.70	2,813.60	8.85
Madhya Pradesh	5.87	4,236.20	4.13
Maharashtra	9.04	2,049.04	8.11
Goa, Daman & Diu	5.47	863.33	8.78
D. & N. Haveli	5.75	381.43	2.89
SUB-TOTAL	7.58	2,484.28	7.28
Bihar (A)	5.40	2,813.73	1.14
Orissa	6.31	7,850.95	2.93
West Bengal (A)	5.66	1,900.41	109.09
A. & N. Islands	10.45	..	6.49
Sikkim	116.00	..	0.63
SUB-TOTAL	5.64	2,657.91	7.00
Andhra Pradesh	7.58	2,111.66	2.21
Karnataka	6.93	3,429.15	6.84
Kerala	6.86	2,510.00	7.03
Tamil Nadu	4.25	3,075.20	2.34
Pondicherry	6.23	2,526.50	77.78
Lakshadweep	1.07	..	0.45
SUB-TOTAL	5.63	2,817.50	3.23
Assam	48.38	12,887.50	9.78
Manipur	1.47	..	2.83
Meghalaya	36.18	11,260.00	17.14
Nagaland	2.19	..	1.29
Tripura	5.11	..	3.70
Arunachal Pradesh	104.00	..	0.99
Mizoram	52.50	..	0.15
SUB-TOTAL	34.60	12,810.00	2.88
TOTAL (ALL-INDIA)	7.06	2,466.41	5.41

NOTE : LV & MV means Low and Medium Voltage.
H.V. Means High Voltage.

TABLE NO. 65—Contd.

(In thousand RWH)

State/U. Ts.	Traction	Agricultural	Public Water Works
Haryana . . . . .	..	5.06	24.57
Himachal Pradesh . . . . .	..	1.96	..
Jammu & Kashmir . . . . .	..	25.27	124.57
Punjab . . . . .	..	7.35	87.56
Rajasthan . . . . .	..	3.31	44.70
Uttar Pradesh	68,557.50	9.02	106.49
Chandigarh . . . . .	..	2.74	25.98
Delhi . . . . .	..	..	3,354.87
SUB-TOTAL	68,557.50	6.64	82.61
Gujarat	25,730.00	6.21	32.64
Madhya Pradesh	16,916.67	1.02	91.65
Maharashtra	98,283.75	2.56	68.66
Goa, Daman & Diu . . . . .	..	1.48	65.53
D. & N. Haveli . . . . .	..	1.73	2.90
SUB-TOTAL	53,495.78	2.78	56.18
Bihar (A)	53,035.71	1.41	82.10
Orissa	22,305.00	4.89	40.50
West Bengal (A)	29,704.62	3.23	363.11
A. & N. Islands . . . . .	..	..	40.00
Sikkim . . . . .	..	..	..
SUB-TOTAL	27,310.65	1.77	139.40
Andhra Pradesh . . . . .	..	2.32	39.22
Karnataka . . . . .	..	1.21	..
Kerala . . . . .	..	1.24	63.18
Tamil Nadu	6037.50	2.52	6.99
Pondicherry . . . . .	..	3.58	345.83
Lakshadweep . . . . .	..	..	..
SUB-TOTAL	6,037.50	2.19	11.52
Assam . . . . .	..	4.70	318.18
Manipur . . . . .	..	..	4.00
Meghalaya . . . . .	..	22.57	8.82
Nagaland . . . . .	..	..	18.82
Tripura . . . . .	..	14.50	25.47
Arunachal Pradesh . . . . .	..	..	45.00
Mizoram . . . . .	..	..	17.50
SUB-TOTAL . . . . .	..	6.04	85.36
TOTAL(ALL-INDIA)	35,251.29	3.38	48.27

TABLE NO. 66

Average connected load per consumer

Regionwise/Statewise-Categorywise as on 31st March, 1979

(In KW)

Region	State/U.T.s.	Total Average (All Categories)	Domestic	Commercial
<i>Northern Region</i>	Haryana	1.99	0.33	0.57
	Himachal Pradesh	0.93	0.47	1.04
	Jammu & Kashmir	0.66	0.24	0.47
	Punjab	1.63	0.51	0.87
	Rajasthan	2.04	0.59	0.74
	Uttar Pradesh	2.34	0.54	1.89
	Chandigarh	2.86	1.70	5.84
	Delhi	1.18	0.62	1.87
	SUB-TOTAL	1.80	0.52	1.08
<i>Western Region</i>	Gujarat	1.66	0.51	1.56
	Madhya Pradesh	1.86	0.56	0.84
	Maharashtra	2.11	0.75	1.12
	Goa, Daman & Diu	1.89	0.84	1.00
	D. & N. Haveli	1.13	0.46	0.55
	SUB-TOTAL	1.92	0.63	1.08
<i>Eastern Region</i>	Bihar	2.35	0.49	0.67
	Orissa	2.63	0.60	0.90
	West Bengal	2.54	1.00	1.63
	D.V.C.	14,858.00	..	..
	A. & N. Islands	0.63	0.38	0.50
	Sikkim	2.19	2.00	..
	SUB-TOTAL	2.69	0.78	1.19
<i>Southern Region</i>	Andhra Pradesh	1.95	0.50	1.28
	Karnataka	1.54	0.51	0.72
	Kerala	1.44	0.63	0.66
	Tamil Nadu	1.85	0.55	0.86
	Pondicherry	1.87	0.66	0.73
	Lakshadweep	0.65	0.55	1.22
	SUB-TOTAL	1.74	0.54	0.89
<i>North Eastern Region</i>	Assam	2.86	0.73	1.23
	Manipur	0.43	0.23	9.74
	Meghalaya	1.13	0.54	0.99
	Nagaland	1.13	0.81	1.03
	Tripura	0.80	0.38	0.38
	Arunachal Pradesh	0.37	0.29	0.94
	Mizoram	1.07	0.52	7.30
	SUB-TOTAL	1.92	0.60	1.16
	TOTAL (ALL-INDIA)	1.90	0.58	1.03

TABLE NO. 66—Contd.

State/U. Ts.	Industrial LV & MV	Industrial HV	Public Lighting
Haryana	11.29	610.64	6.71
Himahal Pradesh	15.75	..	6.79
Jammu & Kashmir	10.54	..	8.21
Punjab	11.08	769.08	7.88
Rajasthan	10.13	1,395.15	2.95
Uttar Pradesh	9.05	464.98	3.84
Chandigarh	14.67	380.72	8.72
Delhi	8.91	..	13.93
SUB-TOTAL	10.06	616.97	5.28
Gujarat]	8.07	665.04	3.37
Madhya Pradesh	9.43	804.82	2.74
Maharashtra	9.78	1,045.13	2.51
Goa, Daman & Diu	9.43	637.92	3.79
D. & N. Haveli	13.42	85.71	5.56
SUB-TOTAL	9.07	724.61	2.78
Bihar	8.64	490.20	1.26
Orissa	15.52	1,979.29	4.13
West Bengal	5.99	541.48	32.41
D.V.C. . . . .	..	20,238.09	..
A. & N. Islands	16.10	..	3.16
Sikkim	37.50	..	0.40
SUB-TOTAL	7.90	763.31	3.64
Andhra Pradesh	10.98	830.46	1.72
Karnataka	6.47	791.80	2.97
Kerala	11.63	673.49	2.83
Tamil Nadu	5.68	907.57	1.37
Pondicherry	14.80	846.52	25.11
Lakshadweep	6.29	..	1.18
SUB-TOTAL	7.35	820.30	1.78
Assam.	39.21	3,054.05	9.24
Manipur	6.57	..	1.45
Meghalaya	38.17	4,231.00	3.67
Nagaland	8.71	..	3.13
Tripura	9.86	..	2.50
Arunachal Pradesh	40.00	..	0.32
Mizoram	46.25	..	0.07
SUB-TOTAL	29.95	3,110.10	2.32
TOTAL (ALL INDIA)	8.79	731.60	2.44

TABLE No. 66—Contd.

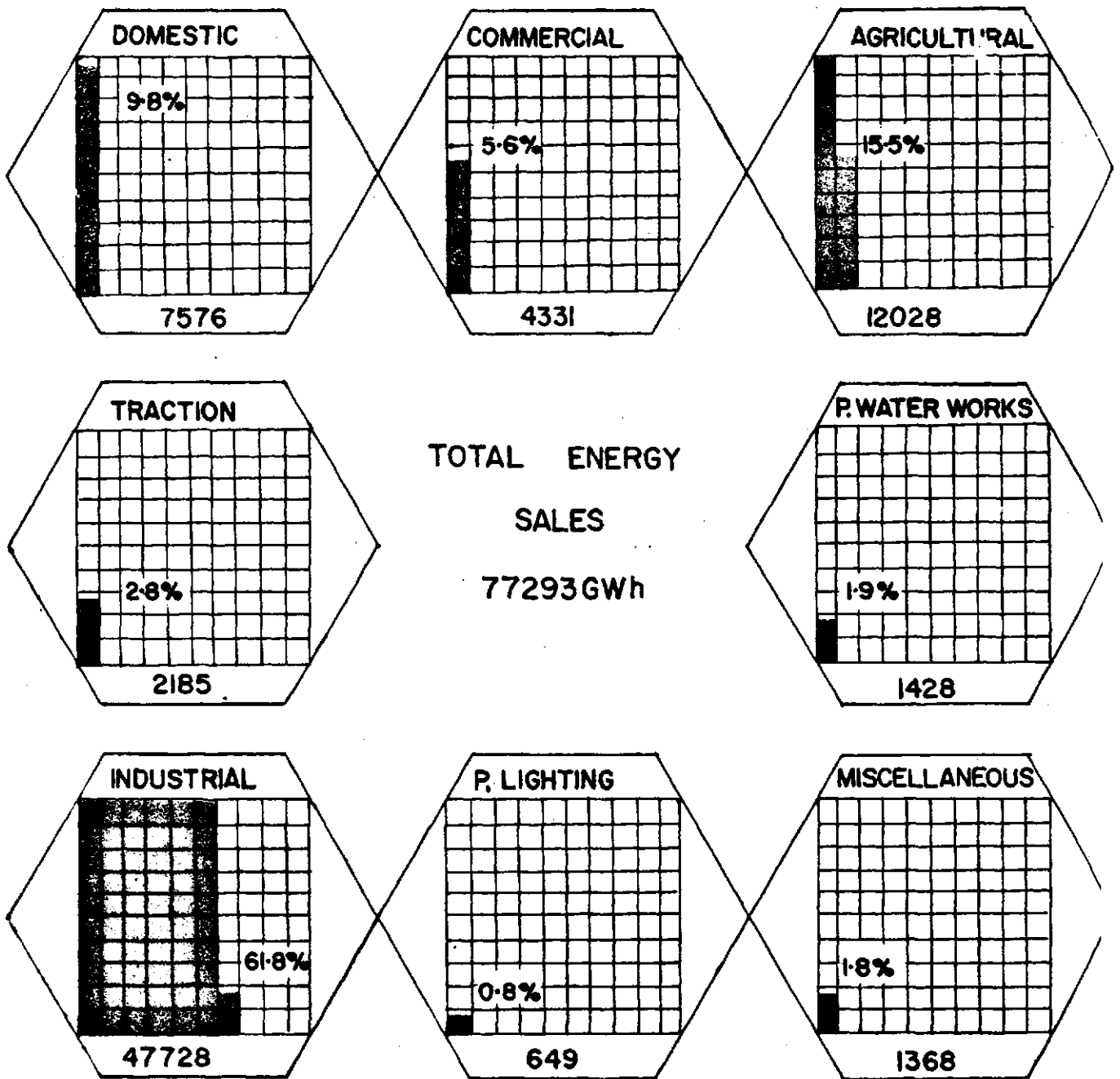
(In K W)s

State/U.Ts.	Traction	Agricultural	Public Water Works
Haryana . . . . .	..	4.66	16.16
Himachal Pradesh . . . . .	..	9.69	..
Jammu & Kashmir . . . . .	..	17.68	29.26
Punjab . . . . .	..	3.89	34.88
Rajasthan . . . . .	..	4.88	17.51
Uttar Pradesh	26,738.75	5.64	36.13
Chandigarh . . . . .	..	4.55	23.92
Delhi . . . . .	..	..	966.02
SUB-TOTAL	26,738.75	4.83	29.19
Gujarat	10,000.00	6.82	16.48
Madhya Pradesh	7,250.00	2.51	27.65
Maharashtra	18,100.00	3.39	23.36
Goa, Daman & Diu . . . . .	..	5.94	126.19
D. & N. Haveli . . . . .	..	1.73	1.29
SUB-TOTAL	12,542.11	3.76	20.91
Bihar	21,565.71	3.13	34.61
Orissa	5,725.00	8.25	23.27
West Bengal	9,328.23	5.98	101.79
D.V.C.	12,857.14	..	..
A. & N. Islands . . . . .	..	..	13.00
Sikkim . . . . .	..	..	..
SUB-TOTAL	12,423.45	3.68	47.75
Andhra Pradesh . . . . .	..	4.01	18.51
Karnataka . . . . .	..	3.25	..
Kerala . . . . .	..	3.31	24.95
Tamil Nadu	6,648.63	3.33	6.41
Pondicherry . . . . .	..	3.26	262.92
Lakshadweep . . . . .	..	..	..
SUB-TOTAL	6,648.63	3.47	13.19
Assam . . . . .	..	20.46	118.39
Manipur . . . . .	..	..	44.00
Meghalaya . . . . .	..	32.00	33.17
Nagaland . . . . .	..	..	16.18
Tripura . . . . .	..	12.43	12.80
Arunachal Pradesh . . . . .	..	..	7.50
Mizoram . . . . .	..	..	30.00
SUB-TOTAL . . . . .	..	20.13	39.61
TOTAL (ALL-INDIA)	12,638.24	3.89	21.01

SECTION X
URBAN AND RURAL ELECTRIFICATION

197—198

ENERGY SALES DURING 1978-79 (UTILITIES)



URBAN AND RURAL ELECTRIFICATION

For the economic upliftment of rural sector, availability of electricity is one of the important pre-requisites and it is the policy of State and Central Governments to extend electricity rapidly to the rural areas. During the year 1978-79, 15907 villages have been benefited by electricity bringing the total number of villages electrified to 232770 as on 31-3-79, which represents 40.42% of the total registered villages in the country. The States of Punjab & Haryana and U.T.s of Chandigarh, Delhi and Pondicherry have already achieved 100% electrification of their villages. Other States, which are not much lagging behind in this field are Tamil Nadu (98.7%) Kerala (98.4%), and Union Territories of Goa, Daman & Diu (85.8%) and Lakshadweep (90.00%).

As regards the region-wise progress in rural electrification, southern region tops with 67.64% of the total villages covered by electricity. The rural population enjoying the benefits of village electrification was 62.1% as on 31-3-79 compared to 59.8% during the last year i.e. as on 31-3-78. Out of 3126 towns in the country 3124 towns stand electrified as on 31-3-79.

Tempo of pumpset energisation was maintained during 1978-79. This has helped agricultural consumers to improve the productivity of their agricultural operations. The total number of energised pumpsets in the country were 3598775 as on 31-3-79. Tamil Nadu continued to have maximum number of energised pumpsets (843046 Nos.) followed by Maharashtra (537295) and Andhra Pradesh (359003).

Salient features of Urban and Rural electrification are covered in various tables of this Section.

TABLE NO. 67

Town electrified in various population groups (1971 Census)

Regionwise/Statewise as on 31st March, 1979

Region	State/U.Ts.	Total Number	POPULATION GROUPS		
			Below 5000	5000 to 9999	10000 to 19999 ⁹
<i>Northern Region</i>	Haryana	65	5	20	15
	Himachal Pradesh	36	23	6	5
	Jammu and Kashmir	45	20	17	3
	Punjab	108	11	30	33
	Rajasthan	157	4	41	67
	Uttar Pradesh	325	17	94	100
	Chandigarh	2	..	..	1
	Delhi	3	..	..	—
	SUB-TOTAL	741	80	208	224
<i>Western Region.</i>	Gujarat	216	4	71	73
	Madhya Pradesh	250	12	96	74
	Maharashtra	289	14	70	98
	Goa, Daman & Diu	13	4	4	1
	Dadra & Nagar Haveli . . . . .	..	..	..	..
	SUB-TOTAL	768	34	241	246
<i>Eastern Region.</i>	Bihar	202	12	47	72
	Orissa	81	2	30	23
	West Bengal	223	9	59	59
	Andaman and Nicobar Islands	1	..	..	..
	Sikkim	7	6	..	1
	SUB-TOTAL	514	29	136	155
<i>Southern Region.</i>	Andhra Pradesh	224	8	45	79
	Karnataka	245	26	51	105
	Kerala	88	2	9	25
	Tamil Nadu	439	101	97	118
	Pondicherry	6	..	2	..
	Lakshadweep . . . . .	..	..	..	..
	SUB-TOTAL	1,002	137	204	327
<i>North Eastern Region</i>	Assam	72	8	23	26
	Manipur	8	3	4	..
	Meghalaya	6	1	1	3
	Nagaland	3	..	..	2
	Tripura	6	..	1	4
	Arunachal Pradesh	4	3	1	..
	Mizoram	2	..	1	..
	SUB-TOTAL	101	15	31	35
	TOTAL (ALL-INDIA)	3,126	295	820	987

PER CAPITA CONSUMPTION OF ELECTRICITY IN VARIOUS REGIONS 1978-79

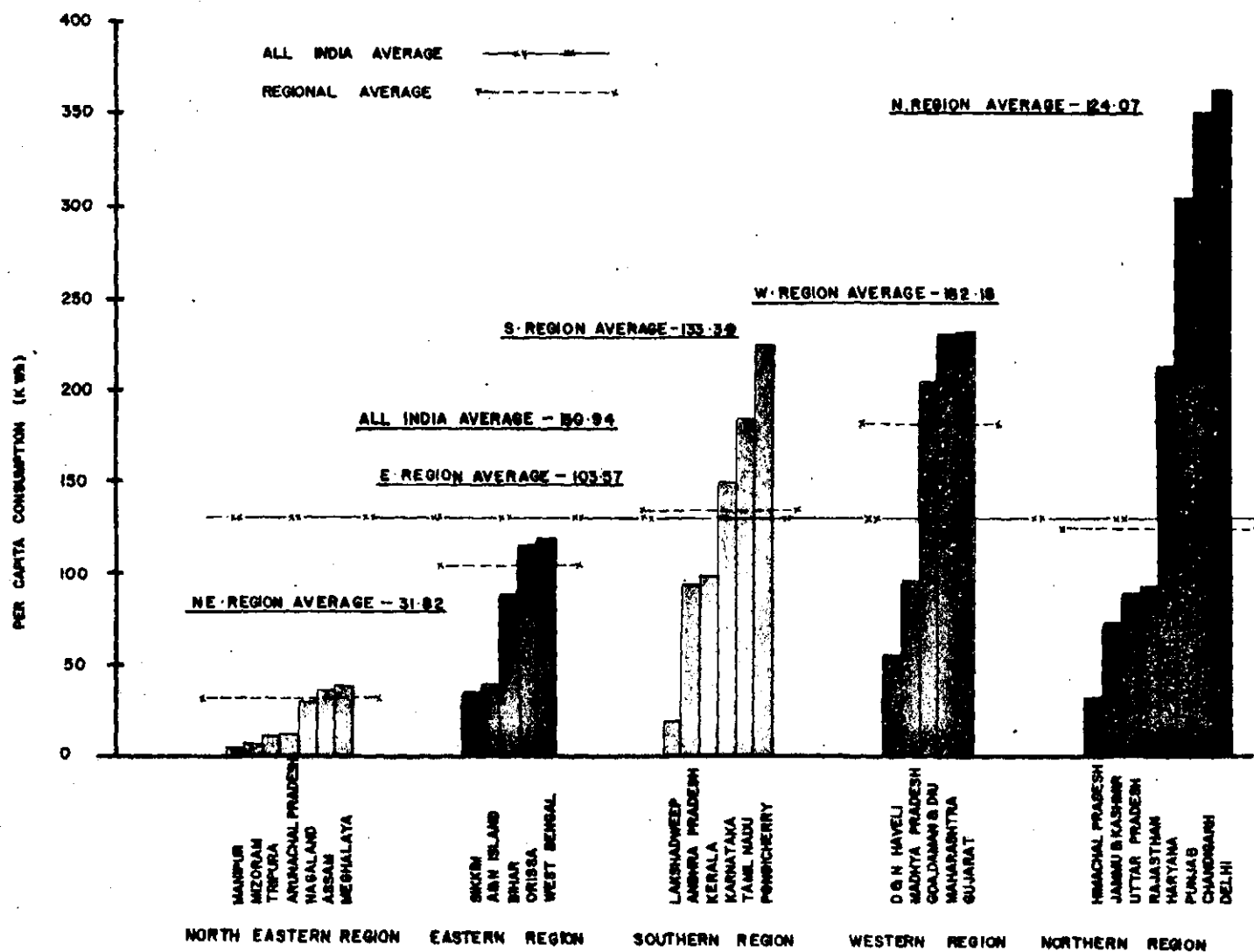


TABLE NO. 67—Contd.

State/U.Ts.	POPULATION GROUPS				
	20000 to 49999	50000 to 99999	Over one lakh	Total number electrified	Electrified during 1978-79
Haryana	14	9	2	65	..
Himachal Pradesh	1	1	..	36	..
Jammu and Kashmir	3	..	2	45	..
Punjab	22	8	4	108	..
Rajasthan	31	7	7	157	..
Uttar Pradesh	71	21	22	325	..
Chandigarh . . . . .	..	..	1	2	..
Delhi . . . . .	..	1	2	3	..
SUB-TOTAL	142	47	40	741	..
Gujarat	42	18	7	215	..
Madhya Pradesh	43	14	11	250	..
Maharashtra	65	25	17	289	1
Goa, Daman & Diu	3	1	..	13	..
Dadra & Nagar Haveli . . . . .	..	..	..	..	..
SUB-TOTAL	153	58	35	767	1
Bihar	51	11	9	202	..
Orissa	20	2	4	81	..
West Bengal	49	31	15	222	..
Andaman & Nicobar Islands	1	..	..	1	..
Sikkim . . . . .	..	..	..	7	..
SUB-TOTAL	121	44	28	513	..
Andhra Pradesh	61	18	13	224	..
Karnataka	42	11	10	245	..
Kerala	40	7	5	88	..
Tamil Nadu	79	27	17	439	..
Pondicherry	3	1	..	6	..
Lakshadweep . . . . .	..	..	..	..	..
SUB-TOTAL	225	64	45	1,002	..
Assam	9	5	1	72	..
Manipur . . . . .	..	..	1	8	..
Meghalaya . . . . .	..	1	..	6	..
Nagaland	1	..	..	3	..
Tripura . . . . .	..	..	1	6	..
Arunachal Pradesh . . . . .	..	..	..	4	..
Mizoram	1	..	..	2	..
SUB-TOTAL	11	6	3	101	..
TOTAL (ALL-INDIA)	652	219	151	3,124	1

TABLE No. 68

Villages electrified in various population groups (1971 Census) & rural population benefited by Electricity
Regionwise/Statewise as on 31st March, 1979

Region	State/U.Ts.	Total No. of villages	VILLAGES ELECTRIFIED IN VARIOUS POPULATION GROUPS			
			Below 500	500-999	1000-1999	
<i>Northern Region</i>	Haryana	6,731	2,018	1,909	1,673	
	Himachal Pradesh	16,916	7,425	657	205	
	Jammu and Kashmir (+)	6,503	2,425	1,230	606	
	Punjab	12,188	5,136	3,577	2,392	
	Rajasthan	33,305	5,797	3,377	2,147	
	Uttar Pradesh (+)	112,561	16,928	10,266	6,310	
	Chandigarh	26	8	10	7	
	Delhi	243	43	53	79	
	SUB-TOTAL	188,473	39,780	21,079	13,419	
<i>Western Region</i>	Gujarat	18,275	1,541	2,802	3,126	
	Madhya Pradesh	70,883	8,335	6,090	3,698	
	Maharashtra	35,778	6,360	7,266	6,230	
	Goa, Daman and Diu	409	93	76	80	
	Dadra & Nagar Haveli	72	13	12	22	
		SUB-TOTAL	125,417	16,342	16,246	13,156
<i>Eastern Region</i>	Bihar	67,566	6,521	4,869	4,216	
	Orissa	46,992	7,516	4,835	2,504	
	West Bengal	38,074	3,162	3,367	3,264	
	Andaman & Nicobar Islands	390	40	13	17	
	Sikkim (:)	215	10	24	13	
		SUB-TOTAL	153,237	17,249	13,108	10,014
<i>Southern Region</i>	Andhra Pradesh	27,221	1,824	3,239	5,137	
	Karnataka	26,826	5,652	4,629	3,468	
	Kerala	1,268	4	2	16	
	Tamil Nadu	15,735	2,801	3,399	4,541	
	Pondicherry	333	162	85	57	
	Lakshadweep	10	..	..	1
		SUB-TOTAL	71,393	10,443	11,354	13,220
<i>North Eastern Region</i>	Assam (+)	21,995	1,476	810	509	
	Manipur (+)	1,949	84	68	69	
	Meghalaya	4,583	332	98	38	
	Nagaland	960	128	68	58	
	Tripura	4,727	151	208	135	
	Arunachal Pradesh (+)	2,973	192	31	5	
	Mizoram	229	4	2	1	
		SUB-TOTAL	37,416	2,367	1,285	815
		TOTAL (ALL-INDIA)	575,936	8,6181	63,072	50,624

TABLE No. 68—Contd.

State/U.Ts.	VILLAGES ELECTRIFIED IN VARIOUS POPULATION GROUPS			
	2000—4999	5000—9999	10,000 & above	Total electrified
Haryana	975	148	8	6,731
Himachal Pradesh	40	2	..	8,329
Jammu and Kashmir (+)	160	7	..	4,428*
Punjab	940	79	2	12,126£
Rajasthan	901	79	10	12,311
Uttar Pradesh (+)	2,496	279	19	36,298
Chandigarh . . . . .	..	1	..	26
Delhi	60	6	2	243
SUB-TOTAL	5,572	601	41	80,492
Gujarat	1,744	235	16	9,464
Madhya Pradesh	1,136	85	6	19,350
Maharashtra	2,963	490	75	23,384
Goa, Daman & Diu	77	23	2	351
Dadra & Nagar Haveli	5	..	..	52
SUB-TOTAL	5,925	833	99	52,601
Bihar	2,573	449	75	18,703
Orissa	692	19	2	15,568
West Bengal	2,033	297	40	12,163
Andaman & Nicobar Islands	1	..	..	71
Sikkim (+)	1	..	..	48
SUB-TOTAL	5,300	765	117	46,553
Andhra Pradesh	4,471	702	80	15,453
Karnataka	1,731	231	9	15,720
Kerala	119	303	804	1,248
Tamil Nadu	3,892	752	140	15,525
Pondicherry	26	3	..	333
Lakshadweep	6	2	..	9
SUB-TOTAL	10,245	1,993	1,033	48,288
Assam (+)	195	11	..	3,001
Manipur (+)	51	2	..	274
Meghalaya	6	..	..	474
Nagaland	15	1	..	270
Tripura	64	8	..	566
Arunachal Pradesh (+)	2	..	..	230
Mizoram	13	1	..	21
SUB-TOTAL	346	23	..	4,836
TOTAL (ALL-INDIA)	27,388	4,215	1,290	232,770

NOTE : * Figure provisional.

(+) Population wise break up estimated.

(£) 62 villages have been declared un-inhabited.

TABLE No. 68—Contd.

State/U.Ts.	%age electrified	Villages electrified during 1978-79	Total Population@ (lakhs)	Rural population benefited (lakhs)	%age benefited
Haryana	100.00	(**)	82.64	82.64	100.00
Himachal Pradesh	49.24	576	32.19	20.55	63.8
Jammu and Kashmir	68.09	414	37.59	25.13	66.9
Punjab	100.00	(**)	103.35	103.35	100.0
Rajasthan	36.96	2,312	212.22	113.26	53.4
Uttar Pradesh (+)	32.25	1,272	759.53	318.09	41.9
Chandigarh	100.00	(**)	0.24	0.24	100.0
Delhi	100.00	(**)	4.19	4.19	100.0
SUB-TOTAL	42.71	4,574	1,231.95	667.45	54.2
Gujarat	51.79	1,343	192.01	137.11	71.4
Madhya Pradesh	27.30	3,000	348.69	155.43	44.6
Maharashtra	65.36	1,904	547.01	286.32	82.5
Goa, Daman & Diu	85.82	5	6.31	6.23	98.7
Dadra & Nagar Haveli	72.22	3	0.74	0.61	82.4
SUB-TOTAL	41.94	6,255	894.76	585.70	65.5
Bihar	27.68	499	507.19	224.59	44.3
Orissa	33.13	1,407	200.99	109.80	54.6
West Bengal	31.95	494	333.45	165.25	49.6
Andaman & Nicobar Islands	18.21	2	0.89	0.45	50.6
Sikkim (+)	22.33	..	1.90	0.32	16.8
SUB-TOTAL	30.38	2,402	1,044.42	500.41	47.9
Andhra Pradesh	56.77	826	351.00	292.95	83.5
Karnataka	58.60	560	221.77	165.33	74.6
Kerala	98.42	24	178.81	177.15	99.1
Tamil Nadu	98.67	3	287.34	286.42	99.7
Pondicherry	100.00	(**)	2.73	2.73	100.0
Lakshadweep	90.00	..	0.318	0.317	99.7
SUB-TOTAL	67.64	1,413	1,041.97	924.897	88.8
Assam (+)	13.64	825	133.36	30.46	22.8
Manipur (+)	14.06	39	9.31	5.06	54.4
Meghalaya	10.34	78	8.65	2.12	24.5
Nagaland	28.13	34	4.65	2.09	44.9
Tripura	11.97	156	13.94	5.40	38.7
Arunachal Pradesh	7.74	120	4.50	1.04	23.1
Mizoram	9.17	11	2.95	0.53	18.0
SUB-TOTAL	12.92	1,263	177.36	46.70	26.3
TOTAL (ALL-INDIA)	40.42	15,907	4,390.46	2,725.16	62.1

NOTE : (+) Populationwise break-up estimated.

(**) 100% villages electrification already achieved.

@ Figure pertains to rural population only.

TABLE No. 69

Irrigation pumpsets energised
Regionwise/Statewise as on 31st March, 1979

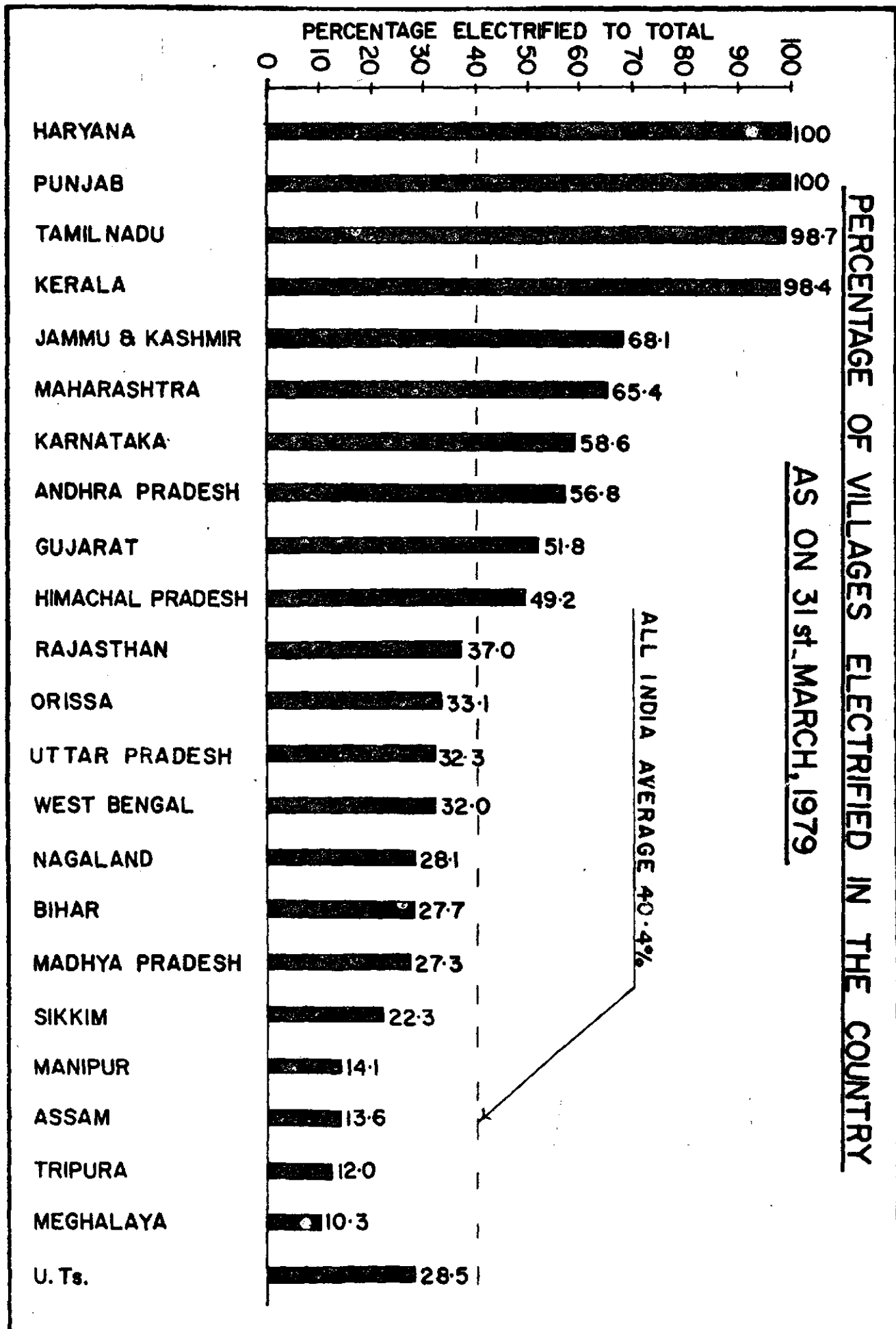
Region	States/U.Ts.	No. of Pumpsets Energised	Agricultural Consumption	
			Quantum (GWH)	% to total consumption in the State
<i>Northern</i>	Haryana	181,232	917.49	38.00
	Himachal Pradesh	1,548	3.22	1.55
	Jammu & Kashmir	902	22.36	5.58
	Punjab	233,218	1,651.73	35.47
	Rajasthan	155,098	513.16	19.71
	Uttar Pradesh	324,337	2,414.64	31.41
	Chandigarh	504	1.02	0.66
	Delhi	10,084	(A)	..
	SUB-TOTAL	906,923	5,523.62	27.59
<i>Western</i>	Gujarat	177,798	1,110.97	16.22
	Madhya Pradesh	244,853	281.79	6.58
	Maharashtra	537,295	1,381.26	10.71
	Goa, Daman & Diu	1,590	2.35	1.33
	Dadra & Nagar Haveli	202	0.35	7.56
		SUB-TOTAL	961,738	2,776.72	11.47
<i>Eastern</i>	Bihar	143,615	204.61	4.70
	Orissa	9,266	34.62	1.48
	West Bengal	22426,	68.31	1.17
	A. & Nicobar Islands	1	..	..
	Sikkim	Nil	..	..
		SUB-TOTAL	175,308	307.54	2.46
<i>Southern</i>	Andhra Pradesh	359,003	842.85	19.51
	Karnataka	277,482	341.89	6.98
	Kerala	66,240	82.44	3.49
	Tamil Nadu	843,046	2,119.82	26.05
	Pondicherry	7,553	25.73	21.28
	Lakshadweep	Nil	..	..
		SUB-TOTAL	1,553,324	3,412.73	17.20
<i>North Eastern</i>	Assam	1,250	5.00	0.84
	Manipur	Nil	..	..
	Meghalaya	47	0.79	1.70
	Nagaland	1	..	..
	Tripura	184	1.45	6.84
	Arunachal Pradesh	Nil	..	..
	Mizoram	Nil	..	..
		SUB-TOTAL	1,482	7.24	1.04
	TOTAL (ALL-INDIA)	3,598,775	12,027.85	15.56

NOTE (A) : Agricultural consumption is included in industrial Low and Medium Voltage category and can be worked out separately.

TABLE No. 69—Contd.

States/U.Ts.	Agricultural connected load (KW)	Average capacity per pumpset (KW)	Average Consumption per pumpset (KWH)	Consumption per unit of connected load (GWH/KW)
Haryana	844,984	4.66	5,062	1,086
Himachal Pradesh	15,891	10.27	2,080	203
Jammu & Kashmir	15,647	17.35	24,789	1,429
Punjab	874,128	3.75	7,082	1,890
Rajasthan	756,301	4.88	3,309	678
Uttar Pradesh	1,509,218	4.65	7,445	1,600
Chandigarh	1,692	3.36	2,024	603
Delhi . . . . .	..	..	..	..
SUB-TOTAL	4,017,861	4.43	6,090	1,374
Gujarat	1,220,027	6.86	6,248	911
Madhya Pradesh	694,306	2.84	1,151	406
Maharashtra	1,832,134	3.41	2,571	754
Goa, Daman & Diu	9,447	5.94	1,478	249
Dadra & Nagar Haveli	350	1.73	1,733	1,000
SUB-TOTAL	3,756,264	3.91	2,887	739
Bihar	454,101	3.16	1,425	451
Orissa	58,377	6.30	3,736	593
West Bengal	126,345	5.63	3,046	541
A. Nicobar Islands . . . . .	..	Neg.	..	..
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	638,823	3.64	1,754	481
Andhra Pradesh	1,455,061	4.05	2,348	579
Karnataka	914,038	3.29	1,232	374
Kerala	220,008	3.32	1,245	375
Tamil Nadu	2,801,236	3.32	2,514	757
Pondicherry	23,435	3.10	3,407	1,098
Lakshadweep . . . . .	..	..	..	..
SUB-TOTAL	5,413,778	3.49	2,197	630
Assam	21,750	17.40	4,000	230
Manipur . . . . .	..	..	..	..
Meghalaya	1,120	23.83	16,808	705
Nagaland . . . . .	..	Neg.	..	..
Tripura	1,243	6.76	7,880	1,167
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL	24,113	16.27	4,885	300
TOTAL (ALL-INDIA)	1,3850,839	3.85	3,342	868

Neg=Negligible



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