



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

PUBLIC ELECTRICITY SUPPLY ALL INDIA STATISTICS

**GENERAL REVIEW
1979-80**

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 Central Electricity Authority. This publication presents, in a summarised form, the salient features of the progress and development of electricity supply industry in the Union of India. The pattern followed this year is broadly the same as in the last year.

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 it is intended to present, in the publication 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 the publication 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 and financial 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 figure furnished for the previous year. In such cases approximate computation had to be resorted to in order to avoid further delay in the 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. Suggestion for improvements 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.

January, 1982.
NEW DELHI.

S. N. ROY
CHAIRMAN
CENTRAL ELECTRICITY AUTHORITY

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SECTION I
ORGANISATIONAL STRUCTURE OF
ELECTRICITY SUPPLY INDUSTRY IN INDIA

ORGANISATION

During the year under review there was no change in number of State Electricity Boards and Electricity Departments, Undertakings. There were 18 State Electricity Boards in the country. All the States except Sikkim, Manipur, Nagaland & Tripura have State Electricity Boards. During the year 1979-80 two private and one municipal licensees were taken over by the State Electricity Boards of the respective States and two new private licensees were formed in West Bengal State. Thus there were in all 34 private licensees and 17 municipal licensees operating at the end of the year 1979-80. Out of 34 private licensees 16 were co-operative societies.

The number of State Electricity Boards, Undertakings and Licensees are shown in tables of 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 Electricity Board, Chandigarh	3-5-1967
2.	Himachal Pradesh	Himachal Pradesh, S.E.B., Simla	31-8-1971
3.	Jammu & Kashmir	Jammu & Kashmir S.E.B. Jammu/Srinagar.	5-9-1972
4.	Punjab	Punjab S.E.B., Patiala	3-5-1967
5.	Rajasthan	Rajasthan S.E.B., Jaipur	1-7-1957
6.	Uttar Pradesh	Uttar Pradesh S.E.B, Lucknow	1-4-1959
<i>Western Region</i>			
7.	Gujarat	Gujarat Electy. Board, Baroda	1-5-1960
8.	Madhya Pradesh	Madhya Pradesh S.E.B., Jabalpur	1-4-1957
9.	Maharashtra	Maharashtra S.E.B., Bombay	20-6-1960
<i>Southern Region</i>			
10.	Andhra Pradesh	Andhra Pradesh S.E.B., Hyderabad	1-4-1959
11.	Karnataka	Karnataka E.B., Bangalore	30-9-1957
12.	Kerala	Kerala S.E.B., Trivandrum	31-3-1957
13.	Tamil Nadu	Tamil Nadu Electricity Board, Madras	1-7-1957
<i>Eastern Region</i>			
14.	Bihar	Bihar S.E.B., Patna	1-4-1958
15.	Orissa	Orissa S.E.B., Bhubaneswar	1-3-1961
16.	West Bengal	West Bengal S.E.B., Calcutta	1-5-1956
<i>North Eastern Region</i>			
17.	Assam	Assam S.E.B., Gauhati	1-6-1958
18.	Meghalaya	Meghalaya S.E.B., 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	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, Coala	Bombay	Central Government
6.	Neyveli Lignite Corporation	Neyveli	Central Government
7.	Beas Dam Talwara* . . . . .	..	Central Government
8.	Damoder Valley Corporaption	Calcutta	Central Government
9.	Karnataka Power Corporation	Bangalore	Karnataka Govt.
10.	Bilimela Generation Divn	Bhubaneshwar	Orissa Govt.
11.	Bhakra Beas Management Board	Chandigarh	Punjab, Haryana and Rajasthan Governments.
12.	Machkund Hydro Electric Project . . . . .	..	Andhra Pradesh/Orissa Governments.
13.	Tungabhadra Hydro Electric Project . . . . .	..	Andhra Pradesh /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	Aizawl	
8.	Pondicherry*	Pondicherry	

*Non-Generating Undertakings.

TABLE NO. 3

Distribution of Licensees Undertaking (1) Generating & Distributing (2) Generating, Purchasing & Distributing (3) Purchasing and 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 . . . . .	..	..	1	1
TOTAL SOUTHERN REGION		..	..	5	5
<i>(D) Eastern Region :</i>					
1.	Bihar . . . . .	..	..	1	1
2.	Orissa . . . . .	..	..	1	1
3.	West Bengal . . . . .	..	3	5	8
TOTAL EASTERN REGION		..	3	7	10
<i>(E) North Eastern Region :</i>					
TOTAL (ALL INDIA)		..	5	29	34

TABLE NO. 4

Distribution of Municipal Undertakings

Sl. No.	Region/State	Number of Municipalities			Total
		Generating and Distributing	Generating, Purchasing & Distributing	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	3	4
2.	Maharashtra . . . . .	..	..	4	4
TOTAL WESTERN REGION		..	1	7	8
<i>(C) Southern Region :</i>					
1.	Kerala . . . . .	..	..	1	1
2.	Tamil Nadu . . . . .	..	..	5	5
TOTAL SOUTHERN REGION		..	..	6	6
<i>(D) Eastern Region :</i>					
TOTAL EASTERN REGION		..	..	..	..
<i>(E) North Eastern Region :</i>					
TOTAL NORTH EASTERN REGION		..	..	..	..
TOTAL (ALL INDIA)		..	2	15	17

TABLE NO. 5

Acquisition of Electricity Supply Undertakings During 1979-80

Sl. No.	Name of the Undertaking	Prior Ownership	Date of Acquisition	By whom acquired
(A) Generating, Purchasing and Distributing				
(B) Purchasing & Distributing				
(a) <i>Western Region :</i>				
1.	Pellad	Municipality	31-12-1979	Gujarat Electricity Board
(b) <i>Southern Region :</i>				
1.	Cochin	Company	12-11-1979	Kerala State Electy. Board
(c) <i>Eastern Region :</i>				
1.	Asansol	Company	16-4-1979	West Bengal State Electy. Board.

TABLE NO. 6

New Electricity Supply Undertakings Started Operating During the Year 1979-80.

1. Sundarban Electric Supply Company, P.O. & Vill. Basanti, Distt. 24 Parganas, West Bengal. Date of issue of License 8-11-1979.
2. Singur Haripal Rural Electric Co-operative Society Ltd., P.O. Singur, Distt. Hooghli, West Bengal. Date of Issue of License 1-2-1980.

SECTION II
GENERATING CAPACITY (UTILITIES)

INSTALLED GENERATING CAPACITY

During the year under review Installed Generating Capacity under Public Utilities in the country increased to 28447.83 MW as on 31-3-1980 as compared to 26680.06 MW as on 31st March, 1979, registering an increase of 6.63% 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 1767.77 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 56.21%, 40.02%, 2.25%, 0.94% and 0.58% respectively.

There were 102 steam stations and 149 hydro stations having 327 and 497 Nos. of generating set with total capacity of 15991.13 MW and 11383.97 MW respectively as on 31st March, 1980.

Besides Power Stations of Public Utilities, generating capacity of Captive Plants of various industries registered an increase of 9.54% during the year 1979-80. Generating capacity of Captive Plants increased from 2555.28 MW to 2799.07 MW which comprise of Hydro 2.61 MW, Steam 2021.61 MW Gas Turbine 54.27 MW and 720.58 MW of Diesel generating sets.

In addition to the above, captive plants of 60.44 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 31307.34 MW as on 31st March, 1980.

The various tables in this section give the detailed salient features of the Installed Generating Capacity in the country as on 31st March, 1980.

TABLE NO. 7

All India Installed Generating Capacity
UTILITIES AND NON-UTILITIES
 Primemover wise as on 31st March, 1980.

Category	Year	Total	Hydro	Steam	Diesel	Gas	Nuclear	
Utilities	31-3-79	26680.06	10833.07	14874.93	164.06	168.00	640.00	
	31-3-80	28447.83	11383.97	15991.13	164.73	268.00	640.00	
	%increase	6.63	5.08	7.50	0.41	59.52	..	
Non-Utilities	Selected Industries(I)	31-3-79	2555.28	3.61	1949.23	559.17	44.27	..
	31-3-80	2799.07	2.61	2021.61	720.58	54.27	..	
	%increase	9.54	..	3.71	28.87	22.59	..	
Railways (II)	31-3-79	62.31	..	23.46	38.85	..	..
	31-3-80	60.44	—	19.96	40.48	—	—	
	%increase	(-)3.01	..	(-)14.92	4.20	..	..
Total Non-Utilities (I+II)	31-3-79	2617.59	2.61	1972.69	598.02	44.27	..	
	31-3-80	2859.51	2.61	2041.57	761.06	54.27	..	
	%increase	9.24	..	3.49	27.26	22.59	..	
All India Capacity (Utilities + Non-Utilities)	31-3-79	29297.65	10835.68	16847.62	762.08	212.27	640.00	
	31-3-80	31307.34	11386.58	18032.70	925.79	322.27	640.00	
	%increase	6.86	5.08	7.03	21.48	51.82	..	

TABLE NO. 8

All India Installed Generating Capacity
UTILITIES ONLY

Ownershipwise and Primemoverwise as on 31st March, 1980.

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	9,348.60	32.86	4.68
	(b) Electricity Departments/Government Undertakings/Corporation/Central Govt. Sector	1,750.37	6.15	8.23
	(c) Municipalities . . . . .	..	..	..
	SUB-TOTAL (a+b+c)	11,098.97	39.01	5.22
<i>(d) Private Sector</i>				
	Companies	285.00	1.00	..
	TOTAL (HYDRO) (a+b+c+d)	11,383.97	40.02	5.09
II STEAM				
<i>Public Sector</i>				
	(a) State Electricity Boards	11,821.85	41.56	10.53
	(b) Electricity Deptts./Govt. Undertakings/Corporation/Central Govt. Sector	2,809.60	9.88	(-)-0.35
	(c) Municipalities	255.80	0.89	..
	SUB-TOTAL (a+b+c)	14,887.25	52.33	8.10
<i>(d) Private Sector</i>				
	Companies	1,103.88	3.88	..
	TOTAL (STEAM) (a+b+c+d)	15,991.13	56.21	7.50
III DIESEL				
<i>Public Sector</i>				
	(a) State Electricity Boards	107.32	0.38	(-)-0.60
	(b) Electricity Deptts./Govt. Undertakings/Corporations/Central Govt. Sector	36.69	0.12	3.73
	(c) Municipalities	20.72	0.08	..
	SUB-TOTAL (a+b+c)	164.73	0.58	0.41
<i>(d) Private Sector</i>				
	Companies . . . . .	..	..	..
	TOTAL (DIESEL) (a+b+c+d)	164.73	0.58	0.41

TABLE NO. 8—Contd.

Sl. No.	Type of Primemover & Ownership	Installed Plant Capacity (MW)	% to Total All India	% increase installed capacity over the previous year
IV GAS TURBINE				
<i>Public Sector</i>				
(a)	State Electricity Boards	268.00	0.94	59.52
(b)	Electricity Deptts./Govt. Undertakings/Corporations/Central Govt. Sector . . . . .	..	..	..
(c)	Municipalities . . . . .	..	..	..
	SUB-TOTAL (a+b+c)	268.00	0.94	59.52
<i>(d) Private Sector</i>				
	Companies . . . . .	..	..	..
	TOTAL (GAS) (a+b+c+d)	268.00	0.94	59.52
V. NUCLEAR				
<i>Public Sector</i>				
(a)	State Electricity Boards . . . . .	..	..	..
(b)	Electricity Deptts./Govt. Undertakings/Corpnns/Central Govt. Sector	640.00	2.25	..
(c)	Municipalities . . . . .	..	..	..
	SUB-TOTAL (a+b+c)	640.00	2.25	..
<i>(d) Private Sector</i>				
	Companies . . . . .	..	..	..
	TOTAL (NUCLEAR) (a+b+c+d)	640.00	2.25	..
VI GRAND TOTAL (I + II + III + IV + V)				
<i>Public Sector</i>				
(a)	State Electricity Boards (18 Nos.)	21,545.77	75.74	8.26
(b)	Electricity Deptts./Govt. Undertakings/Corpnns/Central Govt. Sector (25 Nos.)	5,236.66	18.41	2.43
(c)	Municipalities (17 Nos.)	276.52	0.97	..
	SUB-TOTAL (60 Nos.) (a+b+c)	27058.95	95.12	6.99
<i>(d) Private Sector</i>				
	Companies (34 Nos.)	1,388.88	4.88	..
	TOTAL (ALL INDIA) (94 Nos) (a+b+c+d)	28447.83	100.00	6.63

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, 1980

Region	State/U.Ts.	TOTAL		
		31-3-79	31-3-80	% Increase
<i>Northern Region</i>	Haryana	977.73	1,080.93	10.56
	Himachal Pradesh	112.78	113.53	0.67
	Jammu & Kashmir	171.18	206.18	20.45
	Punjab	1,541.34	1,536.34	(-)-0.32
	Rajasthan	819.58	819.58	...
	Uttar Pradesh	3,075.66	3,339.66	8.58
	Chandigarh	2.00	2.00	..
	Delhi	275.80	275.80	..
	Central Sector	740.00	850.00	14.86
	SUB-TOTAL	7,716.07	8,224.02	6.58
<i>Western Region</i>	Gujarat	2,216.22	2,212.22	(-)-0.18
	Madhya Pradesh	1,318.02	1,528.00	15.93
	Maharashtra	3,322.30	3,552.30	6.92
	Goa, Daman & Diu . . . . .	..	..	..
	D & N Haveli . . . . .	..	..	..
	Central Sector	516.00	516.00	..
	SUB-TOTAL	7,372.54	7,808.52	5.91
<i>Eastern Region</i>	Bihar	891.08	890.45	(-)-0.07
	Orissa	922.92	922.92	..
	West Bengal	1,510.54	1,610.54	6.62
	D. V. C.	1,421.50	1,421.50	..
	A. N. Islands	6.01	6.01	..
	Sikkim	3.04	3.32	9.21
	Central Sector . . . . .	..	12.00	..
	SUB-TOTAL	4,755.09	4,866.74	2.35
<i>Southern Region</i>	Andhra Pradesh	1,620.43	1,930.43	19.30
	Karnataka	1,144.80	1,334.80	16.60
	Kerala	1,011.50	1,011.50	..
	Tamil Nadu	2,119.00	2,329.00	9.91
	Pondicherry . . . . .	..	..	..
	Lakshadweep	1.55	1.58	1.94
	Central Sector	600.00	600.00	..
	SUB-TOTAL	6,497.28	7,207.31	10.93
<i>North Eastern Region</i>	Assam	161.78	161.78	..
	Manipur	15.00	15.00	..
	Meghalaya	131.16	131.16	..
	Tripura	14.07	15.98	13.57
	Arunachal Pradesh	10.72	10.77	0.47
	Mizoram	2.69	2.89	7.43
	Nagaland	3.66	3.66	..
	SUB-TOTAL	339.08	341.24	0.64
	TOTAL ALL INDIA	26,680.06	28,447.83	6.63

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 31-3-1980.

(In M. W.)

Region	State/U. Ts.	PUBLIC SECTOR		
		State Electricity Boards		
		31-3-79	31-3-80	% Increase
<i>Northern Region</i>	Haryana	977.73	1,080.93	10.56
	Himachal Pradesh	112.78	113.53	0.67
	Jammu & Kashmir	171.18	206.18	20.45
	Punjab	1,541.34	1,536.34	(-)0.32
	Rajasthan	819.58	819.58	..
	Uttar Pradesh	3,075.66	3,339.66	8.58
	Chandigarh . . . . .	..	..	..
	Delhi . . . . .	..	..	..
	Central Sector . . . . .	..	..	..
	SUB-TOTAL	6,698.27	7,096.22	5.94
<i>Western Region</i>	Gujarat	1,888.00	1,884.00*	(-)0.21
	Madhya Pradesh	1,318.02	1,528.00	15.93
	Maharashtra	2,699.80	2,929.80	8.52
	Goa, Daman & Diu . . . . .	..	..	..
	D & N Haveli . . . . .	..	..	..
	Central Sector . . . . .	..	..	..
	SUB-TOTAL	5,905.82	6,341.80	7.38
<i>Eastern Region</i>	Bihar	871.08	870.45	(-)0.07
	Orissa	528.50	528.50	..
	West Bengal	786.66	886.66	12.71
	D. V. C. . . . .	..	..	..
	A & N Islands . . . . .	..	..	..
	Sikkim . . . . .	..	..	..
	Central Sector . . . . .	..	..	..
		SUB-TOTAL	2,186.24	2,285.61	4.55
<i>Southern Region</i>	Andhra Pradesh	1,482.50	1,792.50	20.91
	Karnataka	206.20	396.20	92.14
	Kerala	1,011.50	1,011.50	..
	Tamil Nadu	2,119.00	2,329.00	9.91
	Pondicherry . . . . .	..	..	..
	Lakshadweep . . . . .	..	..	..
	Central Sector . . . . .	..	..	..
	SUB-TOTAL	4,819.20	5,529.20	14.73
<i>North Eastern Region</i>	Assam	161.78	161.78	..
	Manipur . . . . .	..	..	..
	Meghalaya	131.16	131.16	..
	Nagaland . . . . .	..	..	..
	Tripura . . . . .	..	..	..
	Arunachal Pradesh . . . . .	..	..	..
	Mizoram . . . . .	..	..	..
	SUB-TOTAL	292.94	292.94	..
	TOTAL ALL INDIA	19,902.47	21,545.77	8.26

NOTE.—*Includes 15 M. W. Capacity of Bhavnagar Electricity Supply Company, which was acquired by Gujarat Electricity Board and the sets were closed & under disposal.

TABLE NO. 10—Contd.

State/U. Ts.	PUBLIC SECTOR		
	Electricity Deptt./Govt. Undertakings		
	31-3-79	31-3-80	% Increase
Haryana	..	..	..
Himachal Pradesh	..	..	..
Jammu & Kashmir	..	..	..
Punjab	..	..	..
Rajasthan	..	..	..
Uttar Pradesh	..	..	..
Chandigarh	2.00	2.00	..
Delhi	..	..	..
Central Sector	740.00	850.00	14.86
SUB-TOTAL	742.00	852.00	14.82
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	1,421.50	..
Andaman & Nicobar Islands	6.01	6.01	..
Sikkim	3.04	3.32	9.21
Central Sector	..	12.00	..
SUB-TOTAL	2,129.97	2,142.25	0.58
Andhra Pradesh	137.93	137.93	..
Karnataka	938.60	938.60	..
Kerala	..	..	..
Tamil Nadu	..	..	..
Pondicherry	..	..	..
Lakshadweep	1.55	1.58	1.94
Central Sector	600.00	600.00	..
SUB-TOTAL	1,678.08	1,678.11	neg.
Assam	..	..	..
Manipur	15.00	15.00	..
Meghalaya	..	..	..
Nagaland	3.66	3.66	..
Tripura	14.07	15.98	13.57
Arunachal Pradesh	10.72	10.77	0.47
Mizoram	2.69	2.89	7.43
SUB-TOTAL	46.14	48.30	4.68
TOTAL ALL INDIA	5,112.19	5,236.66	2.43

TABLE No. 10—Contd.

State/U. Ts.	PUBLIC SECTOR		
	Municipalities ¹		
	31-3-79	31-3-80	% 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
Delhi & Nagar Haveli
Central sector
SUB-TOTAL	0.72	0.72	..
Bihar
Orissa
West Bengal
D. V. C.
Andaman & Nicobar Islands
Sikkim
Central Sector
SUB-TOTAL
Andhra Pradesh
Karnataka
Kerala
Tamil Nadu
Pondicherry
Lakshadweep
Central Sector
SUB-TOTAL
Assam
Manipur
Meghalaya
Nagaland
Tripura
Arundhachal Pradesh
Mizoram
SUB-TOTAL
TOTAL ALL INDIA	276.52	276.52	..

TABLE No. 10—Contd.

State/U. Ts.	PRIVATE SECTOR		
	31-3-79	31-3-80	% Increase
Haryana
Himachal Pradesh
Jammu & Kashmir
Punjab
Rajasthan
Uttar Pradesh
Chandigarh
Delhi
Central Sector
SUB-TOTAL
Gujarat	327.50	327.50	..
Madhya Pradesh
Maharashtra	622.50	622.50	..
Goa, Daman & Diu
Dadra & Nagar Haveli
Central Sector
SUB-TOTAL	950.00	950.00	..
Bihar
Orissa
West Bengal	438.88	438.88	..
D. V. C.
Andaman & Nicobar Islands
Sikkim
Central Sector
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	1,388.88	..

TABLE NO. 11
Installed Generating Capacity
UTILITIES ONLY
PRIMEMOVERWISE
 Regionwise/Statewise as on 31st March, 1980.

(In M. W.)

Region	State/U. Ts.	HYDRO		
		31-3-1979	31-3-80	% Increase
<i>Northern Region</i>	Haryana	659.51	659.51	..
	Himachal Pradesh	110.27	111.02	0.69
	Jammu & Kashmir	141.92	176.92	24.66
	Punjab	1,082.26	1,082.26	..
	Rajasthan	648.73	648.73	..
	Uttar Pradesh	1,075.94	1,147.94	6.69
	Chandigarh . . . . .	..	..	..
	Delhi . . . . .	..	..	..
	Central Sector . . . . .	..	120.00	..
	SUB-TOTAL	3,718.63	3,946.38	6.12
<i>Western Region</i>	Gujarat	300.00	300.00	..
	Madhya Pradesh	193.00	193.00	..
	Maharashtra	1,277.30	1,297.30	1.56
	Goa, Daman & Diu . . . . .	..	..	..
	D & N Haveli . . . . .	..	..	..
	Central Sector . . . . .	..	..	..
	SUB-TOTAL	1,770.30	1,790.30	1.13
<i>Eastern Region</i>	Bihar	85.00	85.00	..
	Orissa	664.42	664.42	..
	West Bengal	38.51	38.51	..
	D. V. C.	104.00	104.00	..
	A. & N. Islands . . . . .	..	..	..
	Sikkim	2.55	2.95	15.69
Central Sector . . . . .	..	12.00	..	
	SUB-TOTAL	894.48	906.88	1.39
<i>Southern Region</i>	Andhra Pradesh	777.93	877.93	12.85
	Karnataka	1,144.80	1,334.80	16.60
	Kerala	1,011.50	1,011.50	..
	Tamil Nadu	1,369.00	1,369.00	..
	Pondicherry . . . . .	..	..	..
	Lakshadweep . . . . .	..	..	..
	Central Sector . . . . .	..	..	..
	SUB-TOTAL	4,303.23	4,593.23	6.74
<i>North Eastern Region</i>	Assam . . . . .	..	..	..
	Manipur	0.60	0.60	..
	Meghalaya	126.71	126.71	..
	Nagaland	1.50	1.50	..
	Tripura	10.00	10.00	..
	Arunachal Pr. desh	7.62	8.37	9.84
	Mizoram . . . . .	..	..	..
		SUB-TOTAL	146.43	147.18	0.51
	TOTAL (ALL INDIA)	10,833.07	11,383.97	5.08

TABLE NO. 11—Contd.

State/U. Ts.	STEAM		
	31-3-79	31-3-80	% Increase
Haryana	314.30	417.50	32.83
Himachal Pradesh . . . . .	..	..	..
Jammu & Kashmir	22.50	22.50	..
Punjab	446.00	440.00	(-11.12)
Rajasthan	158.00	158.00	..
Uttar Pradesh	1,981.10	2,173.10	9.69
Chandigarh . . . . .	..	..	..
Delhi	255.80	255.80	..
Central Sector	520.00	510.00	(-1)9.2
SUB-TOTAL	3,696.70	3,976.90	7.58
Gujarat	1,859.00	1,855.00*	(-0.62)
Madhya Pradesh	1,125.00	1,335.00	18.67
Maharashtra	2,045.00	2,255.00	10.27
Goa, Daman & Diu . . . . .	..	..	..
Dadra & Nagar Haveli . . . . .	..	..	..
Central Sector	96.00	96.00	..
SUB-TOTAL	5,125.00	5,541.00	8.12
Bihar	792.50	792.50	..
Orissa	258.25	258.25	..
West Bengal	1,448.88	1,448.88	..
D. V.C.	1,317.50	1,317.50	..
A. & N. Islands	1.10	1.10	..
Sikkim . . . . .	..	..	..
Central Sector . . . . .	..	..	..
SUB-TOTAL	3,818.23	3,818.23	..
Andhra Pradesh	822.50	1,032.50	25.53
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu	750.00	960.00	28.00
Pondicherry . . . . .	..	..	..
Lakshadweep . . . . .	..	..	..
Central Sector	600.00	600.00	..
SUB-TOTAL	2,172.50	2,592.50	19.33
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	15,991.13	7.50

NOTE.—Includes 15 M.W. capacity of Bhavnagar Electricity Supply Company, which was acquired by Gujarat Electricity Board & the sets were closed & under disposal.

TABLE NO. 11—Contd.

State/U. Ts.	DIESEL		
	31-3-79	31-3-80	%Increase
Haryana	3.92	3.92	..
Himachal Pradesh	2.51	2.51	..
Jammu & Kashmir	6.76	6.76	..
Punjab	14.08	14.08	..
Rajasthan	12.85	12.85	..
Uttar Pradesh	6.12	6.12	..
Chandigarh	2.00	2.00	..
Delhi	20.00	20.00	..
Central Sector . . . . .	..	..	..
SUB-TOTAL	68.24	68.24	..
Gujarat	3.22	3.22	..
Madhya Pradesh	0.02	..	..
Maharashtra . . . . .	..	..	..
Goa, Daman & Diu . . . . .	..	..	..
Dadra & Nagar Haveli . . . . .	..	..	..
Central Sector . . . . .	..	..	..
SUB-TOTAL	3.24	3.22	(-)0.62
Bihar	13.58	12.95	(-)4.64
Orissa	0.25	0.25	..
West Bengal	23.15	23.15	..
D. V. C. . . . .	..	..	..
A. & N. Islands	4.91	4.91	..
Sikkim	0.49	0.37	(-)24.49
Central Sector . . . . .	..	..	..
SUB-TOTAL	42.38	41.63	(-)1.77
Andhra Pradesh . . . . .	..	..	..
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu . . . . .	..	..	..
Pondicherry . . . . .	..	..	..
Lakshadweep	1.55	1.58	1.94
Central Sector . . . . .	..	..	..
SUB-TOTAL	1.55	1.58	1.94
Assam	20.28	20.28	..
Manipur	14.40	14.40	..
Meghalaya	1.95	1.95	..
Nagaland	2.16	2.16	..
Tripura	4.07	5.98	46.93
Arunachal Pradesh	3.10	2.40	(-)32.58
Mizoram	2.69	2.89	7.43
SUB-TOTAL	48.65	50.06	2.90
TOTAL (ALL INDIA)	164.06	164.73	0.41

TABLE NO. 11—Contd.

State/U. Ts.	GAS		
	31-3-79	31-3-80	% Increase
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	..	100.00	..
D. V. C.	..	..	..
A. N. & Islands	..	..	..
Sikkim	..	..	..
Central Sector	..	..	..
SUB-TOTAL	..	100.00	..
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	268.00	59.52

TABLE NO. 11—Contd.

State/U. Ts.	NUCLEAR		
	31-3-79	31-3-80	% Increase
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
Central Sector
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)	640.00	640.00	..

TABLE NO. 12
Installed Generating Capacity of State Electricity Boards
PRIMEMOVERWISE
as on 31st March, 1980

		(MW)		
Region	State/UTs.	HYDRO		
		31-3-79	31-3-80	% Increase
<i>Northern Region</i>	Haryana	659.51	659.51	..
	Himachal Pradesh	110.27	111.02	0.68
	Jammu & Kashmir	141.92	176.92	24.66
	Punjab	1,082.26	1,082.26	..
	Rajasthan	648.73	648.73	..
	Uttar Pradesh	1,075.94	1,147.94	6.69
	SUB-TOTAL	3,718.63	3,826.38	2.90
<i>Western Region</i>	Gujarat	300.00	300.00	..
	Madhya Pradesh	193.00	193.00	..
	Maharashtra	992.30	1,012.30	2.02
	SUB-TOTAL	1,485.30	1,505.30	1.35
<i>Eastern Region</i>	Bihar	65.00	65.00	..
	Orissa	270.00	270.00	..
	West Bengal	38.51	38.51	..
	SUB-TOTAL	373.51	373.51	..
<i>Southern Region</i>	Andhra Pradesh	640.00	740.00	15.63
	Karnataka	206.20	396.20	92.14
	Kerala	1,011.50	1,011.50	..
	Tamil Nadu	1,369.00	1,369.00	..
	SUB-TOTAL	3,226.70	3,516.70	8.99
<i>North Eastern Region</i>	Assam . . . . .	..	..	..
	Meghalaya	126.71	126.71	..
	SUB-TOTAL	126.71	126.71	..
	TOTAL (ALL INDIA)	8,930.85	9,348.60	4.68

TABLE No. 12--Contd.

(MW)

State/UTs.	STEAM		
	31-3-79	31-3-80	% Increase
Haryana	314.30	417.50	32.83
Himachal Pradesh . . . . .	..	..	..
Jammu & Kashmir	22.50	22.50	..
Punjab	445.00	440.00	(-)1.12
Rajasthan	158.00	158.00	..
Uttar Pradesh	1,981.10	2,173.10	9.69
SUB-TOTAL	2,920.90	3,211.10	9.94
Gujarat	1,531.50	1,527.50*	(-)0.26
Madhya Pradesh	1,125.00	1,335.00	18.67
Maharashtra	1,707.50	1,917.50	12.30
SUB-TOTAL	4,364.00	4,780.00	9.53
Bihar	792.50	792.50	..
Orissa	258.25	258.25	..
West Bengal	725.00	725.00	..
SUB-TOTAL	1,775.75	1,775.75	..
Andhra Pradesh	822.50	1,032.50	25.53
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu	750.00	960.00	28.00
SUB-TOTAL	1,572.50	1,992.50	26.71
Assam	60.00	60.00	..
Meghalaya	2.50	2.50	..
SUB-TOTAL	62.50	62.50	..
TOTAL (ALL INDIA)	10,695.65	11,821.85	10.53

NOTE.—*Includes 15 M.W. Capacity of Bhavnagar Electricity Supply Company, which was acquired by Gujarat Electricity Board & the sets were closed & under disposal.

TABLE No. 12—Contd.

State/U.Ts.	DIESEL		
	31-3-79	31-3-80	% Increase
Haryana	3.92	3.92	..
Himachal Pradesh	2.51	2.51	..
Jammu & Kashmir	6.76	6.76	..
Punjab	14.08	14.08	..
Rajasthan	12.85	12.85	..
Uttar Pradesh	6.12	6.12	..
SUB-TOTAL	46.24	46.24	..
Gujarat	2.50	2.50	..
Madhya Pradesh	0.02	..	..
Maharashtra . . . . .	..	..	..
SUB-TOTAL	2.52	2.50	(—)0.79
Bihar	13.58	12.95	(—)4.64
Orissa	0.25	0.25	..
West Bengal	23.15	23.15	..
SUB-TOTAL	36.98	36.35	(—)1.70
Andhra Pradesh . . . . .	..	..	..
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu . . . . .	..	..	..
SUB-TOTAL . . . . .	..	..	..
Assam	20.28	20.28	..
Meghalaya	1.95	1.95	..
SUB-TOTAL	22.23	22.23	..
TOTAL (ALL INDIA)	107.97	107.32	(—)0.60

TABLE 12—(contd.)

State/U. Ts.	GAS		
	31-3-79	31-3-80	% 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 . . . . .	..	100.00	..
SUB-TOTAL . . . . .	..	100.00	..
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	268.00	59.52

TABLE NO. 12—Concl'd.

State/U.Ts.	TOTAL		
	31-3-79	31-3-80	% Increase
Haryana	977.73	1,080.93	10.56
Himachal Pradesh	112.78	113.53	0.67
Jammu & Kashmir	171.18	206.18	20.45
Punjab	1,541.34	1,536.34	(—)0.32
Rajasthan	819.58	819.58	..
Uttar Pradesh	3,075.66	3,339.66	8.58
SUB-TOTAL	6,698.27	7,096.22	5.94
Gujarat	1,888.00	1,884.00	(—)0.21
Madhya Pradesh	1,318.02	1,528.00	15.93
Maharashtra	2,699.80	2,929.80	8.52
SUB-TOTAL	5,905.82	6,341.80	7.38
Bihar	871.08	870.45	(—)0.07
Orissa	528.50	528.50	..
West Bengal	786.66	886.66	12.71
SUB-TOTAL	2,186.24	2,285.61	4.55
Andhra Pradesh	1,482.50	1,792.50	20.91
Karnataka	206.20	396.20	92.14
Kerala	1,011.50	1,011.50	..
Tamil Nadu	2,119.00	2,329.00	9.91
SUB-TOTAL	4,819.20	5,529.20	14.73
Assam	161.78	161.78	..
Meghalaya	131.16	131.16	..
SUB-TOTAL	292.94	292.94	..
TOTAL (ALL INDIA)	19,902.47	21,545.77	8.26

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

TABLE No. 13

Installed Generating Capacity of Electricity Deptt./Govt. Undertakings, Municipalities & Private Sector

PRIMEMOVERWISE

Regionwise as on 31-3-1980

Ownership	TOTAL			
	31-3-79	31-3-80	% Increase	
<i>I. Electricity Deptt./Govt. Undertaking/Corporation/Central Sector</i>				
<i>Northern Region</i>	Chandigarh	2.00	2.00	..
	Central Sector	740.00	850.00	14.86
<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	3.32	9.21
	West Bengal	285.00	285.00	..
	D. V. C.	1,421.50	1,421.50	..
	A& N Islands	6.01	6.01	..
	Central Sector . . . . .	..	12.00	..
<i>Southern Region</i>	Andhra Pradesh	137.93	137.93	..
	Karnataka	938.60	938.60	..
	Lakshadweep	1.55	1.58	1.94
	Central Sector	600.00	600.00	..
<i>North Eastern Region</i>	Manipur	15.00	15.00	..
	Nagaland	3.66	3.66	..
	Tripura	14.07	15.98	13.57
	Arunachal Pradesh	10.72	10.77	0.47
	Mizoram	2.69	2.89	7.43
	TOTAL (I)	5,112.19	5,236.66	2.43
<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	327.50	..
	Maharashtra	622.50	622.50	..
<i>Eastern Region</i>	West Bengal	438.88	438.88	..
	TOTAL (III)	1,388.88	1,388.88	..

TABLE NO. 13—Contd.

Ownership	HYDRO		
	31-3-79	31-3-80	% Increase
<i>I. Electricity Deptt./Govt. Undertaking/Corporation/Central Sector</i>			
<i>Northern Region</i>	Chandigarh	..	..
	Central Sector	120·00	..
<i>Western Region</i>	Central Sector	..	..
<i>Eastern Region</i>	Bihar	20·00	..
	Orissa	394·42	..
	Sikkim	2·55	15·69
	West Bengal	..	..
	D. V. C.	104·00	..
	A & N Islands	..	..
	Central Sector	12·00	..
<i>Southern Region</i>	Andhra Pradesh	137·93	..
	Karnataka	938·60	..
	Lakshadweep	..	..
	Central Sector	..	..
<i>North Eastern Region</i>	Manipur	0·60	..
	Nagaland	1·50	..
	Tripura	10·00	..
	Arunachal Pradesh	7·62	9·84
	Mizoram	..	..
	TOTAL (I)	1,617·22	8·23
<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	..
<i>Eastern Region</i>	West Bengal	..	..
<i>North Eastern Region</i>	Meghalaya	..	..
	TOTAL (III)	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	31-3-80	% Increase
<i>I. Electricity Deptt. (Govt. Undertaking) Corporation Central Sector</i>			
<i>Northern Region</i>	Chandigarh	..	..
	Central Sector	520.00	510.00 (-)1.92
<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	1,317.50 ..
	A & N Islands	1.10	1.10 ..
	Central Sector	..	..
<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	2,809.60 (-)0.35
<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	327.50 ..
	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	1,103.88 ..

TABLE NO. 13—Contd.

	Ownership	DIESEL		
		31-3-79	31-3-80	% Increase
<i>I. Electricity Deptt./Govt. Undertaking/Corporation/Central Sector</i>				
<i>Northern Region</i>	Chandigarh	2.00	2.00	..
	Central Sector	..	..	..
<i>Western Region</i>	Central Sector	..	..	..
<i>Eastern Region</i>	Bihar	..	..	..
	Orissa	..	..	..
	Sikkim	0.49	0.37	(—)24.49
	West Bengal	..	..	..
	D. V. C.	..	..	..
	A & N Islands	4.91	4.91	..
	Central Sector	..	..	..
<i>Southern Region</i>	Andhra Pradesh	..	..	..
	Karnataka	..	..	..
	Lakshadweep	1.55	1.58	1.94
	Central Sector	..	..	..
<i>North Eastern Region</i>	Manipur	14.40	14.40	..
	Nagaland	2.16	2.16	..
	Tripura	4.07	5.98	46.93
	Arunachal Pradesh	3.10	2.40	(—)32.58
	Mizoram	2.69	2.89	7.43
	TOTAL (I)	35.37	36.69	3.73
<i>II. Municipalities</i>				
<i>Northern Region</i>	Delhi	20.00	20.00	..
<i>Western Region</i>	Gujarat	0.72	0.72	..
<i>Eastern Region</i>	West Bengal	..	..	..
	TOTAL (II)	20.72	20.72	..
<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. 13—Contd.

Ownership	NUCLEAR		
	31-3-79	31-3-80	% Increase
<i>I. Electricity Deptt./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 year 1979-80

(A) HYDRO

Sl. No.	Installed at	State (ownership)	Date of Addition	No. of sets	Capacity of each set (MW)	Total capacity (MW)
1.	Rukti	H. P. (S.E.B.)	13-11-79	2	0.375	0.75
2.	Lower Jhelum	J & K (S.E.B.)	12-10-79	1	35.00	35.00
3.	Garhwal-Rishikesh-Chilla	U.P. (S.E.B.)	28-3-80	2	36.00	72.00
4.	Baira Siul	H. P. (Central Sector)	29-3-80	2	60.00	120.00
5.	Koyna Dam (Power House-II)	Maharashtra (S.E.B.)	30-3-80	1	20.00	20.00
6.	Rimbi	Sikkim (Govt. Deptt.)	1979-80	2	0.20	0.40
7.	Lower Lagyap	Sikkim (Central Sector)	16-7-79 } 1-11-79 }	2	6.00	12.00
8.	Nagarjunasagar	A.P. (S.E.B.)	20-3-80	1	100.00	100.00
9.	Kalinadi	Karnataka (S.E.B.)	22-12-79	1	135.00	135.00
10.	Linganmakki	Karnataka (S. E. B.)	6-6-79 } 15-3-80 }	2	27.50	55.00
11.	Itanagar	Arunachal Pradesh (Govt. Deptt.)	Feb. '80	3	0.25	0.75
(TOTAL HYDRO)				19		550.90

TABLE NO. 14—Contd.

(B) STEAM AND GAS

Sl. No.	Installed at	State (Ownership)	Date of Addition	No. of Sets	Capacity of each set (MW)	Total Capacity (MW)
1.	Panipat	Haryana (S.E.B.)	21-2-80	1	110.00	110.00
2.	Obra	U. P. (S.E.B.)	26-1-80	1	200.00	200.00
3.	Satpura	M. P. (S.E.B.)	28-3-80	1	210.00	210.00
4.	Nasik	Maharashtra (S. E. B.)	31-3-80	1	210.00	210.00
5.	Kasba*	West Bengal	9-7-79 } 29-8-79 }	2	20.00	40.00
6.	Siliguri*	West Bengal	4-10-79	1	20.00	20.00
7.	Haldia*	West Bengal	12-12-79 } 23-1-80 }	2	20.00	40.00
8.	Vijayawada	Andhra Pradesh (S.E.B.)	1-11-79	1	210.00	210.00
9.	Tuticorin	Tamil Nadu (S.E.B.)	30-3-80	1	210.00	210.00
TOTAL STEAM				6		1,150.00
TOTAL GAS				5		100.00
TOTAL (STEAM + GAS)				11		1,250.00
TOTAL (HYDRO + STEAM + GAS)				30		1,800.90

NOTE.—No nuclear unit was added during the year 1979-80.

S.E.B. = State Electricity Board.

* Gas Stations.

TABLE NO. 15

*Addition/Deletion of Plant Capacity**Primemoverwise-Regionwise/Statewise during the year 1979-80.*

(In MW)

Region	Name of State/Uts.	Hydro	Steam	Diesel
<i>Northern region</i>	Haryana	..	(-) 110.00 (-) 6.80 (A)	..
	Himachal Pradesh	0.75	..	..
	Jammu & Kashmir	35.00	..	..
	Punjab	..	(-) 5.00 (B)	..
	Rajasthan	..	..	..
	Uttar Pradesh	72.00	200.00 (-) 8.00 (C)	..
	Central Sector	120.00	(-) 10.00 (D)	..
	B. B. M. B.	..	..	..
	SUB-TOTAL	227.75	280.20	..
<i>Western region</i>	Gujarat	..	(-) 4.00 (E)	..
	Madhya Pradesh	..	210.00	(-) 0.02 (F)
	Maharashtra	20.00	210.00	..
		SUB-TOTAL	20.00	416.00	(-) 0.02
<i>Eastern region</i>	Bihar	..	..	(-) 0.63 (G)
	Orissa	..	..	..
	West Bengal	..	..	..
	D. V. C.	..	..	..
	A & N Islands	..	..	..
	Sikkim	(+) 0.40 (H)	..	(-) 0.12 (I)
	Central Sector	12.00	..	..
	SUB-TOTAL	12.40	..	(-) 0.75
<i>Southern region</i>	Andhra Pradesh	100.00	210.00	..
	Karnataka	190.00	..	..
	Tamil Nadu	..	210.00	..
	Lakshadweep	..	..	(+) 0.03 (J)
		SUB-TOTAL	290.00	420.00	(+) 0.03
<i>North Eastern region</i>	Assam	..	..	..
	Manipur	..	..	..
	Meghalaya	..	..	..
	Nagaland	..	..	..
	Tripura	..	..	(+) 1.91 (K)
	Arunachal Pradesh	0.75	..	(-) 0.70 (L)
	Mizoram	..	..	(+) 0.20 (M)
		SUB-TOTAL	0.75	..	(+) 1.41
	TOTAL (ALL INDIA)	550.90	1,116.20	(-) 0.67

TABLE No. 15—Contd.

Name of State/UTs.	GAS	TOTAL			
Haryana	103.20			
Himachal Pradesh	0.75			
Jammu & Kashmir	35.00			
Punjab	(—)5.00			
Rajasthan			
Uttar Pradesh	264.00			
Central Sector	110.00			
B. B. M. B.			
SUB-TOTAL	507.95			
Gujarat	(—)4.00			
Madhya Pradesh	209.98			
Maharashtra	230.00			
SUB-TOTAL	435.98			
Bihar	(—)0.63			
Orissa			
West Bengal	100.00	100.00			
D. V. C.			
A & N Islands			
Sikkim	0.28			
Central Sector	12.00			
SUB-TOTAL	100.00	111.65			
Andhra Pradesh	310.00			
Karnataka	190.00			
Tamil Nadu	210.00			
Lakshadweep	0.03			
SUB-TOTAL	710.03			
Assam			
Manipur			
Meghalaya			
Nagaland			
Tripura	1.91			
Arunachal Pradesh	0.05			
Mizoram	0.20			
SUB-TOTAL	2.16			
TOTAL (ALL INDIA)	100.00	1,767.77			
	Hydro	Steam	Diesel	Gas	Total
Gross Addition	550.90	1,150.00	2.11	100.00	1,803.01
Deletion/Retirements	(—)33.80	(—)0.65	..	(—)34.45
Reporting Differences	(—)0.79	..	(—)0.79
NET ADDITIONS	550.90	1,116.20	0.67	100.00	1,767.77

TABLE NO. 15—*Contd.***NOTE:—**

- (A) 6.80 M.W. capacity of Surajpur Steam Power House deleted.
- (B) 5.00 M.W. capacity of Nangal Steam Power House deleted.
- (C) 8.00 M. W. capacity of Allahabad Steam Power House deleted.
- (D) 10.00 M.W. capacity of Pong Steam Power House deleted.
- (E) 4.00 M.W. capacity of Sikka Steam Power House deleted.
- (F) 0.02 M.W. capacity of Saugor Diesel Power House deleted.
- (G) 0.63 M.W. deletion of capacity in different diesel Power Houses.
- (H) 0.40 M. W. addition of capacity in Rimbi Hydro Power House.
- (I) (—) 0.12 M.W. capacity reporting difference in Mangan diesel Power House.
- (J) (+) 0.03 M.W. capacity reporting difference in diesel Power House.
- (K) (+) 1.91 M. W. capacity addition in different diesel Power Houses.
- (L) (—) 0.70 M. W. capacity reporting difference in different diesel Power Houses.
- (M) (+) 0.20 M. W. addition in Lawngthlai diesel Power House.

TABLE NO. 16

*Classification of Undertakings * Capacitywise as on 31-3-1980.*

Range of installed capacity (M.W.)	No. of Undertakings	Aggregate installed capacity of the group (MW)	% to Total Installed Capacity	Energy generated by the group (GWH)	% to Total generation
Upto 1.00	1	0.72	Neg.	Neg.	Neg.
Over 1.00 and Upto 5.00	5	13.45	0.05	10.16	0.01
Over 5.00 and Upto 10.00	2	14.39	0.05	33.81	0.03
Over 10.00 and Upto 25.00	6	91.75	0.32	152.84	0.15
Over 25.00 and Upto 50.00 . . . . .	..	..	..	..	..
Over 50.00 and Upto 100.00	2	168.00	0.59	519.23	0.50
Above 100.00	32	28,159.52	98.99	1,03,911.22	99.31
TOTAL	48	28,447.83	100.00	1,04,627.26	100.00

Neg : Negligible.

* : Generating.

TABLE NO. 17

Classification of Power Stations Capacitywise as on 31-3-1980.

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	30	14.65	0.13
Over 1.00 upto 10.00	27	99.92	0.88
Over 10.00 upto 50.00	40	1,214.15	10.66
Over 50.00 upto 100.00	22	1,628.50	14.31
Over 100.00 upto 500.00	26	5,715.75	50.21
Above 500.00	4	2,711.00	23.81
TOTAL	149	11,383.97	100.00
<i>Steam Stations</i>			
Upto 1.00	1	0.75	Neg.
Over 1.00 upto 10.00	16	88.58	0.55
Over 10.00 upto 50.00	25	512.80	3.21
Over 50.00 upto 100.00	14	1,070.00	6.69
Over 100.00 upto 500.00	39	9,625.00	60.19
Above 500.00	7	4,694.00	29.36
TOTAL	102	15,991.13	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	Kwh/Kw.
<i>Hydro Station</i>				
Upto 1.00	18.26	0.04	14.22	1,246
Over 1.00 upto 10.00	347.91	0.77	39.75	3,482
Over 10.00 upto 50.00	4,285.42	9.42	40.30	3,530
Over 50.00 upto 100.00	5,825.42	12.81	40.83	3,577
Over 100.00 upto 500.00	22,024.66	48.43	43.98	3,853
Above 500.00	12,975.69	28.53	54.63	4,786
TOTAL	45,477.55	100.00	45.61	3,995
<i>Steam Station</i>				
Upto 1.00 . . . . .	..	..	..	..
Over 1.00 upto 10.00	199.35	0.36	25.70	2,251
Over 10.00 upto 50.00	1,201.43	2.15	26.75	2,343
Over 50.00 upto 100.00	5,163.84	9.27	55.09	4,826
Over 100.00 upto 500.00	34,445.63	61.82	40.86	3,579
Above 500.00	14,709.58	26.40	35.78	3,134
TOTAL	55,719.83	100.00	39.77	3,484

TABLE NO. 18

Classification of Sets Prime-moverwise-Capacitywise as on 31-3-1980

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	147	43.47	0.38	14	12.85	0.08
Over 1.00 and upto 5.00	52	175.30	1.54	73	262.48	1.64
Over 5.00 and Upto 10.00	59	483.80	4.25	26	206.45	1.29
Over 10.00 and Upto 20.00	74	1,066.15	9.36	37	577.25	3.61
Over 20.00 and upto 30.00	36	899.25	7.90	30	900.00	5.63
Over 30.00 and upto 50.00	51	2,097.00	18.42	28	1,350.60	8.45
Over 50.00 and upto 100.00	64	4,724.00	41.50	59	4,201.50	26.27
Over 100.00 and upto 200.00	14	1,895.00	16.65	52	6,800.00	42.52
Above 200.00 . . . . .	..	..	..	8	1,680.00	10.51
TOTAL	497	11,383.97	100.00	327	15,991.13	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	7.46	..	..	..
Over 10.00 and upto 20.00	7	125.00	46.64	..	..	..
Over 20.00 and upto 30.00	5	123.00	45.90	..	..	..
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	14	268.00	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—Voltagewise As on 31-3-1980.

VOLTAGEWISE

Voltage of Generation	Type of Primemover	No. of Sets	Aggregate Capacity (MW)
<i>Alternating Current</i>			
1. 33 KV	STEAM	10	330.00
2. 10.5 KV to 13.8 KV.	HYDRO	298	10,990.40
	STEAM	244	15,144.70
	GAS	14	268.00
	NUCLEAR	3	640.00
3. 5 KV to 6.6 KV	HYDRO	45	284.00
	STEAM	40	431.61
4. 2 KV to 3.9 KV	HYDRO	55	86.91
	STEAM	30	87.42
5. 400 Voltage to 460 Voltage	HYDRO	99	22.66
	STEAM	3	0.40
TOTAL	HYDRO	497	11,383.97
	STEAM	327	15,991.13
	GAS	14	268.00
	NUCLEAR	3	640.00

SECTION III
GENERATION (UTILITIES)

GENERATION

The All India gross electricity generation by the public utilities was 104627.26 GWH during 1979-80 as compared to 102522.52 GWH during 1978-79 thereby registering an increase of only 2.05% in Electricity production. During the year generation was low mainly due to poor rainfall causing low generation from Hydel Plants.

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 53.25%, 43.47%, 0.05%, 0.48% & 2.75% respectively during the year 1979-80.

There were 104 steam stations and 149 Hydro stations existing in the country as on 31st March, 1980 generating 55719.83 GWH and 45477.55 GWH respectively. B.B. M.B. Complex the biggest of all the systems resulted in the maximum electricity production of 9903.55 GWH during the year.

Besides electricity generation by the Public Utilities, during the year under review captive plants of selected industries produced 8157.04 GWH comprising of 7225.60 GWH from Steam, 15.06 GWH from Hydro, 825.71 GWH from Diesel and 90.67 GWH from Gas Turbine plants respectively. Apart from the above, Electricity Generation from captive plants of Railways was 35.67 GWH which comprised of 25.63 GWH from Steam and 10.04 GWH from Diesel plants respectively.

To sum up, total electricity production in the country including that from Captive plants during the year 1979-80 was 112819.97 GWH as compared to 110129.61 GWH during the year 1978-79, recording an increase of 2.44%.

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)
Primumoverwise during the year 1979-80

		(GWH)			
Category	Year	Total	Hydro	Steam	
Utilities	1978-79	1,02,522.52	47,158.86	52,023.74	
	1979-80	1,04,627.26	45,477.55	55,719.83	
	%Increase	2.05	(-)-34.47	7.10	
Non-Utilities	Selected Industries (I)	1978-79	7,572.62	13.22	7,211.30
		1979-80	8,157.04	15.06	7,225.60
		%Increase	7.72	13.92	0.20
	Railways (II)	1978-79	34.47	..	25.99
		1979-80	35.67	..	25.63
		%increase	3.48	..	(-)-1.39
	Total Non-Utilities (I+II)	1978-79	7,607.09	13.22	7,237.29
		1979-80	8,192.71	15.06	7,251.23
		%increase	7.70	13.92	0.19
	All India Gross Generation (Utilities+ Non-utilities)	1978-79	1,10,129.61	47,172.08	59,261.03
		1979-80	1,12,819.97	45,492.61	62,971.06
		%Increase	2.44	(-)-3.56	6.26

TABLE NO. 20—Contd.

		(In GWH)		
Category	Year	Diesel	Gas	Nuclear
Utilities	1978-79	55.30	514.94	2,769.68
	1979-80	53.32	499.97	2,876.59
	%Increase	(-)-3.48	(-)-2.91	3.86
Selected Industries (I)	1978-79	299.13	48.97	..
	1979-80	825.71	90.67	..
	%Increase	176.04	85.15	..
Railways (II)	1978-79	8.48	..	..
	1979-80	10.04	..	..
	%Increase	18.40	..	..
Total Non-Utilities (I)+(II)	1978-79	307.61	48.97	..
	1979-80	835.75	90.67	..
	%Increase	171.69	85.15	..
All India Gross Generation (Utilities+ Non-Utilities)	1978-79	362.91	563.91	2,769.68
	1979-80	889.07	590.64	2,876.59
	%Increase	144.98	4.74	3.86

NOTE :- GWH= Million KWH.

TABLE NO. 21
All India Electricity Generation
(UTILITIES ONLY)
Ownershipwise and Primemoverwise during 1979-80

Sl. No.	Type of primemover and Ownership	Generation (Gross) GWH	% To All India Total	% Increase in generation over the previous year
I. HYDRO				
<i>Public Sector</i>				
	(a) State Electricity Boards	37,165.40	35.52	(—)2.31
	(b) Electricity Deptt./Govt. Undertaking Corporation/Central Sector	7,004.35	6.70	(—)8.16
	(c) Municipalities . . . . .	..	..	..
	Sub-Total	44,169.75	42.22	(—)3.29
<i>Private Sector</i>				
	Companies	1,307.80	1.25	(—)11.99
	Total(Hydro)	45,477.55	43.47	(—)3.47
II. STEAM				
<i>Public Sector</i>				
	(a) State Electricity Boards	39,563.89	37.81	11.40
	(b) Electricity Deptt./Govt. Undertakings Corporation Central Govt. Sector.	9,380.74	8.97	(—)3.27
	(c) Municipalities	1,465.38	1.40	3.93
	Sub-Total	50,410.01	48.18	8.12
<i>Private Sector</i>				
	Companies	5,309.82	5.07	(—)1.66
	Total(Steam)	55,719.83	53.25	7.10
III. DIESEL				
<i>Public Sector</i>				
	(a) State Electricity Boards	26.63	0.03	26.51
	(b) Electricity Deptts./Govt. Undertakings Corporation/Central Govt. Sector.	25.33	0.02	(—)18.74
	(c) Municipalities	1.36	Neg.	(—)55.84
	Sub-Total	53.32	0.05	(—)3.48
<i>Private Sector</i>				
	Companies . . . . .	..	..	..
	Total(Diesel)	53.32	0.05	(—)3.48

TABLE NO. 21—Concl'd.

Sl. No.	Type of Primemover and ownership	Generation (Gross)(GWH)	% to All India Total	% increase in generation over previous year
IV. GAS TURBINES				
<i>Public Sector</i>				
(a)	State Electricity Board	499.97	0.48	(—)2.91
(b)	Electricity D:pts./Govt. Undertakings Corporation/Central Govt. Sector.	..	..	..
(c)	Municipalities	..	..	..
	Sub-Total	499.97	0.48	(—)2.91
<i>Private Sector</i>				
	Companies	..	..	..
	Total (Gas)	499.97	0.48	(—)2.91
V. NUCLEAR				
<i>Public Sector</i>				
(a)	State Electricity Boards	..	..	..
(b)	Electricity D:pts./Govt. Undertakings Corporation/Central Govt. Sector.	2,876.59	2.75	3.86
(c)	Municipalities	..	..	..
	Sub-Total	2,876.59	2.75	3.86
<i>Private Sector</i>				
	Companies	..	..	..
	Total (Nuclear)	2,876.59	2.75	3.86
VI. GRAND TOTAL (I to V)				
<i>Public Sector</i>				
(a)	State Electricity Boards (18 Nos.)	77,255.89	73.84	4.26
(b)	Electricity D:pts./Govt. Undertakings Corporation/Central Govt. Sector. (25 Nos.)	19,287.01	18.44	(—)4.17
(c)	Municipalities (17 Nos.)	1,466.74	1.40	3.80
	Sub-Total (60 Nos)	98,009.64	93.68	2.48
<i>Private Sector</i>				
	Companies (34 Nos)	6,617.62	6.32	(—)3.89
	Total (All-India) (94 Nos.)	1,04,627.26	100.00	2.05

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

TABLE NO. 22

*All India Gross Energy Generation
(UTILITIES' ONLY)
Regionwise/Statewise during 1979-80.*

(IN GWH)

Region	State, Uts.	Energy Generation		
		1978-79	1979-80	%increase
<i>Northern Region</i>	Haryana	3,855.12	3,968.45	2.94
	Himachal Pradesh	397.63	354.91	(-)10.74
	Jammu & Kashmir	533.40	689.76	29.31
	Punjab	6,072.85	6,234.83	2.67
	Rajasthan	3,596.76	3,725.40	3.58
	Uttar Pradesh	10,139.46	10,123.84	(-)0.15
	Chandigarh	0.08	0.06	(-)25.00
	Delhi	1,413.09	1,466.74	3.80
	Central Sector	1,540.75	2,663.31	72.86
	SUB-TOTAL	27,549.14	29,227.30	6.09
<i>Western Region</i>	Gujarat	7,990.60	8,851.96	10.78
	Madhya Pradesh	5,242.90	5,722.38	9.15
	Maharashtra	15,491.46	15,503.54	0.08
	Goa, Daman & Diu	..	..	..
	Dadra & Nagar Haveli	..	..	..
	Central Sector	2,518.53	1,999.03	(-)20.63
	SUB-TOTAL	31,243.49	32,076.91	2.67
<i>Eastern Region</i>	Bihar	2,472.87	2,641.18	6.81
	Orissa	3,344.38	2,725.83	(-)18.50
	West Bengal	5,145.14	5,393.97	4.84
	D. V. C.	5,442.64	4,619.74	(-)15.12
	A & N Islands	5.96	6.69	12.25
	Sikkim	7.51	5.50	(-)26.74
	Central Sector	..	..	..
	SUB-TOTAL	16,418.50	15,392.91	(-)6.25
<i>Southern Region</i>	Andhra Pradesh	6,199.42	6,505.85	4.94
	Karnataka	5,879.76	5,464.07	(-)7.07
	Kerala	5,190.23	5,118.70	(-)1.38
	Tamil Nadu	6,608.26	7,573.23	14.60
	Pondicherry	..	..	..
	Lakshadweep	0.88	1.10	25.00
	Central Sector	2,493.00	2,369.00	(-)4.97
	SUB-TOTAL	26,371.55	27,031.95	2.50
<i>North Eastern Region</i>	Assam	658.53	512.42	(-)22.19
	Manipur	20.62	17.02	(-)17.46
	Meghalaya	215.45	315.58	46.47
	Nagaland	1.55	1.94	25.16
	Tripura	31.64	39.30	24.21
	Arunachal Pradesh	10.20	10.37	1.67
	Mizoram	1.85	1.56	(-)15.68
		SUB-TOTAL	939.84	898.19	(- )4.43
GRAND TOTAL (ALL INDIA)		102,522.52	104,627.26	2.05

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

(ii) GWH= Million KWH

TABLE NO. 23
Gross Energy Generation
(UTILITIES ONLY)
Ownershipwise-Regionwise/Statewise during 1979-80

(IN GWH)

Region	State/U. Ts.	Public Sector		
		State Electricity Board		
		1978-79	1979-80	%increase
<i>Northern Region</i>	Haryana	3,855.12	3,968.45	2.94
	Himachal Pradesh	397.63	354.91	(-)10.74
	Jammu & Kashmir	533.40	689.76	29.31
	Punjab	6,072.85	6,234.83	2.67
	Uttar Pradesh	10,139.46	10,123.84	(-)0.15
	Rajasthan	3,596.76	3,725.40	3.58
	Chandigarh	..	..	..
	Delhi	..	..	..
	Central Sector	..	..	..
	SUB-TOTAL	24,595.22	25,097.19	2.04
<i>Western Region</i>	Gujarat	6,641.55	7,398.70	11.40
	Madhya Pradesh	5,242.90	5,722.38	9.15
	Maharashtra	11,658.46	12,042.24	3.29
	Goa, Daman & Diu	..	..	..
	Dadra & Nagar Haveli	..	..	..
	Central Sector	..	..	..
	SUB-TOTAL	23,542.91	25,163.32	6.88
<i>Eastern Region</i>	Bihar	2,459.62	2,620.90	6.56
	Orissa	1,771.05	1,332.16	(-)24.78
	West Bengal	2,747.52	2,895.13	5.37
	D. V. C.	..	..	..
	Andaman & Nicobar Islands	..	..	..
	Sikkim	..	..	..
	Central Sector	..	..	..
	SUB-TOTAL	6,978.19	6,848.19	(-)1.86
<i>Southern Region</i>	Andhra Pradesh	5,429.00	5,729.70	5.54
	Karnataka	880.49	897.56	1.94
	Kerala	5,190.23	5,118.70	(-)1.38
	Tamil Nadu	6,608.26	7,573.23	14.60
	Pondicherry	..	..	..
	Lakshadweep	..	..	..
	Central Sector	..	..	..
	SUB-TOTAL	18,107.98	19,319.19	6.69
<i>North Eastern Region</i>	Assam	658.53	512.42	(-)22.19
	Manipur	..	..	..
	Meghalaya	215.45	315.58	46.47
	Nagaland	..	..	..
	Tripura	..	..	..
	Arunachal Pradesh	..	..	..
	Mizoram	..	..	..
	SUB-TOTAL	873.98	828.00	(-)5.26
	TOTAL (ALL INDIA)	74,098.28	77,255.89	4.26

NOTE :-GWH = Million KWH.

TABLE NO. 23—Contd.

State/Uts.	Public Sector		
	Electricity Department/Govt. Undertaking/Corporation/Central Sector		
	1978-79	1979-80	%increase
Haryana	..	..	..
Himachal Pradesh	..	..	..
Jammu & Kashmir	..	..	..
Punjab	..	..	..
Rajasthan	..	..	..
Uttar Pradesh	..	..	..
Chandigarh	0.08	0.06	(-)25.00
Delhi	..	..	..
Central Sector	1,540.75	2,663.31	72.86
SUB-TOTAL	1,540.83	2,663.37	72.85
Gujarat	..	..	..
Madhya Pradesh	..	..	..
Maharashtra	..	..	..
Goa, Daman & Diu	..	..	..
Dadra & Nagar Haveli	..	..	..
Central Sector	2,518.53	1,999.03	(-)20.63
SUB-TOTAL	2,518.53	1,999.03	(-)20.63
Bihar	13.25	20.28	53.06
Orissa	1,573.33	1,393.67	(-)11.42
West Bengal	694.29	795.78	14.62
D. V. C.	5,442.64	4,619.74	(-)15.12
Andaman & Nicobar Islands	5.96	6.69	12.25
Sikkim	7.51	5.50	(-)26.74
Central Sector	..	..	..
SUB-TOTAL	7,736.98	6,841.66	(-)15.12
Andhra Pradesh	770.42	776.15	0.42
Karnataka	4,999.27	4,566.51	(-)8.66
Kerala	..	..	..
Tamil Nadu	..	..	..
Pondicherry	..	..	..
Lakshadweep	0.88	1.10	25.00
Central Sector	2,493.00	2,369.00	(-)4.97
SUB-TOTAL	8,263.57	7,712.76	(-)6.67
Assam	..	..	..
Manipur	20.62	17.02	(-)17.46
Meghalaya	..	..	..
Nagaland	1.55	1.94	25.16
Tripura	31.64	39.30	24.21
Arunachal Pradesh	10.20	10.37	1.67
Mizoram	1.85	1.56	(-)15.68
SUB-TOTAL	65.86	70.19	6.57
TOTAL (ALL INDIA)	20,125.77	19,287.01	(-)4.17

TABLE NO. 23—Contd.

State/U. Ts.	Public Sector		
	Municipalities		
	1978-79	1979-80	% increase
Haryana
Himachal Pradesh
Jammu & Kashmir
Punjab
Rajasthan
Uttar Pradesh
Chandigarh
Delhi	1413.09	1,466.74	3.80
Central Sector
SUB-TOTAL	1,413.09	1,466.74	3.80
Gujarat	0.02	..	..
Madhya Pradesh
Maharashtra
Goa, Daman & Diu
Dadra & Nagar Haveli
Central Sector
SUB-TOTAL	0.02	..	..
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
Manipur
Meghalaya
Nagaland
Tripura
Arunachal Pradesh
Mizoram
SUB-TOTAL
TOTAL (ALL INDIA)	1,413.11	1,466.74	3.80

TABLE No. 23—Concl'd.

State/U. Ts.	Private Sector		
	Companies		
	1978-79	1979-80	% increase
Haryana
Himachal Pradesh
Jammu & Kashmir
Punjab
Rajasthan
Uttar Pradesh
Chandigarh
Delhi
Central Sector
SUB-TOTAL
Gujarat	1,349.03	1,453.26	7.73
Madhya Pradesh
Maharashtra	3,833.00	3,461.30	(-)9.70
Goa, Daman & Diu
Dadra & Nagar Haveli
Central Sector
SUB-TOTAL	5,182.03	4,914.56	(-)5.16
Bihar
Orissa
West Bengal	1,703.33	1,703.06	(-)0.02
D. V. C.
Andaman & Nicobar Islands
Sikkim
Central Sector
SUB-TOTAL	1,703.33	1,703.06	(-)0.02
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	6,617.62	(-)3.89

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 mover wise-Region wise/Statewise during 1979-80.

Region	State/U.Ts.	(GWH)		
		HYDRO		
		1978-79	1979-80	%Increase
<i>Northern Region</i>	Haryana	3,139.82	3,070.93	(-)-2.19
	Himachal Pradesh	397.57	354.88	(-)-10.74
	Jammu & Kashmir	525.83	677.00	28.75
	Punjab	5,202.27	5,091.77	(-)-2.12
	Rajasthan	2,941.00	3,016.99	2.58
	Uttar Pradesh	3,692.05	3,265.80	(-)-11.55
	Chandigarh	..	..	..
	Delhi	..	..	..
Central Sector	..	..	..
	SUB-TOTAL	15,898.54	15,477.37	(-)-2.65
<i>Western Region.</i>	Gujarat	1,160.92	1,206.33	3.91
	Madhya Pradesh	862.75	790.78	(-)-8.34
	Maharashtra	7,040.20	5,948.31	(-)-15.51
	Goa, Daman & Diu	..	..	..
	Dadra & Nagar Haveli	..	..	..
	Central Sector	..	..	..
	SUB-TOTAL	9,063.87	7,945.42	(-)-12.34
<i>Eastern Region .</i>	Bihar	116.78	77.77	(-)-33.40
	Orissa	2,618.11	2,028.13	(-)-22.53
	West Bengal	56.80	32.71	(-)-42.41
	D. V. C.	223.75	190.56	(-)-14.83
	A & N Islands	..	..	..
	Sikkim	5.59	4.70	(-)-15.92
	Central Sector	..	..	..
	SUB-TOTAL	3,021.03	2,333.87	(-)-22.75
<i>Southern Region</i>	Andhra Pradesh	3,324.12	32,38.25	(-)-2.58
	Karnataka	5,879.76	5,464.07	(-)-7.07
	Kerala	5,190.23	5,118.70	(-)-1.38
	Tamil Nadu	4,526.49	5,532.81	22.23
	Pondicherry	..	..	..
	Lakshadweep	..	..	..
	Central Sector	..	..	..
	SUB-TOTAL	18,920.60	19,353.83	2.29
<i>North Eastern Region</i>	Assam	..	..	..
	Manipur	1.40	2.97	12.14
	Meghalaya	213.35	314.58	47.45
	Nagaland	0.98	1.35	37.76
	Tripura	30.69	39.01	27.11
	Arunachal Pradesh	8.40	9.15	8.93
	Mizoram	..	..	..
	SUB-TOTAL	254.82	367.06	44.05
	TOTAL (ALL INDIA)	47,158.86	45,477.55	(-)-3.47

TABLE NO. 24—Contd.

State/UTs.	STEAM		
	1978-79	1979-80	%Increase
Haryana	715.20	897.46	25.48
Himachal Pradesh . . . . .	..	..	..
Jammu & Kashmir	6.87	12.06	75.55
Punjab	870.38	1,140.52	31.04
Rajasthan	655.12	707.92	8.06
Uttar Pradesh	6,441.67	6,854.31	6.41
Chandigarh . . . . .	..	..	..
Delhi	1,410.03	1,465.38	3.93
Central Sector	1,057.75	1,532.33	44.87
SUB—TOTAL	11,157.02	12,609.98	13.02
Gujarat	6,706.70	7,569.78	12.88
Madhya Pradesh	4,380.12	4,931.60	12.59
Maharashtra	8,451.26	9,555.23	13.06
Goa, Daman & Diu . . . . .	..	..	..
Dadra & Nagar Haveli . . . . .	..	..	..
Central Sector	231.85	253.42	9.30
SUB—TOTAL	19,769.43	22,310.03	12.85
Bihar	2,355.24	2,561.55	8.76
Orissa	726.27	697.70	(—)3.93
West Bengal	5,072.94	5,238.88	3.27
D.V.C.	5,218.89	4,429.18	(—)15.13
A & N Islands	2.06	1.03	(—)50.00
Sikkim . . . . .	..	..	..
Central Sector . . . . .	..	..	..
SUB—TOTAL	13,375.40	12,928.34	(—)3.34
Andhra Pradesh	2,875.30	3,267.60	13.64
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu	2,081.77	2,040.42	(—)1.99
Pondicherry . . . . .	..	..	..
Lakshadweep . . . . .	..	..	..
Central Sector	2,493.00	2,369.00	(—)4.97
SUB—TOTAL	7,450.07	7,677.02	3.05
Assam	270.72	194.46	(—)28.17
Manipur . . . . .	..	..	..
Meghalaya	1.10	..	..
Nagaland . . . . .	..	..	..
Tripura . . . . .	..	..	..
Arunachal Pradesh . . . . .	..	..	..
Mizoram . . . . .	..	..	..
SUB—TOTAL	271.82	194.46	(—)28.46
TOTAL (ALL INDIA)	52,023.74	55,719.83	7.10

TABLE NO. 24—Contd.

State/Uts.	DIESEL		
	1978-79	1979-80	% Increase
Haryana	0.10	0.06	(—)40.00
Himachal Pradesh	0.06	0.03	(—)50.00
Jammu & Kashmir	0.70	0.70	..
Punjab	0.20	2.54	1,170.00
Rajasthan	0.64	0.49	(—)23.44
Uttar Pradesh . . . . .	..	..	..
Chandigarh	0.08	0.06	(—)25.00
Delhi	3.06	1.36	(—)55.56
Central Sector . . . . .	..	..	..
SUB—TOTAL	4.84	5.24	8.26
Gujarat	0.09	0.06	(—)33.33
Madhya Pradesh	0.03	..	..
Maharashtra . . . . .	..	..	..
Goa, Daman & Diu . . . . .	..	..	..
Dadra & Nagar Haveli . . . . .	..	..	..
Central Sector . . . . .	..	..	..
SUB—TOTAL	0.12	0.06	(—)50.00
Bihar	0.85	1.86	118.82
Orissa . . . . .	..	..	..
West Bengal	15.40	19.89	29.16
D.V.C. . . . .	..	..	..
A. & N. Islands	3.90	5.66	45.13
Sikkim	1.92	0.80	(—)58.33
Central Sector . . . . .	..	..	..
SUB—TOTAL	22.07	28.21	27.82
Andhra Pradesh . . . . .	..	..	..
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu . . . . .	..	..	..
Pondicherry . . . . .	..	..	..
Lakshadweep	0.88	1.10	25.00
Central Sector . . . . .	..	..	..
SUB—TOTAL	0.88	1.10	25.00
Assam	2.00	..	..
Manipur	19.22	14.05	(—)26.90
Meghalaya	1.00	1.00	..
Nagaland	0.57	0.59	3.51
Tripura	0.95	0.29	(—)69.47
Arunachal Pradesh	1.80	1.22	(—)32.22
Mizoram	1.85	1.56	(—)15.69
SUB—TOTAL	27.39	18.71	(—)31.69
TOTAL (ALL INDIA)	55.30	53.32	(—) 3.48

TABLE NO. 24—Contd.

State/Uts.	GAS		
	1978-79	1979-80	% Increase
Haryana
Himachal Pradesh
Jammu & Kashmir
Punjab
Rajasthan
Uttar Pradesh	5.74	3.73	(-)35.02
Chandigarh
Delhi
Central Sector
SUB—TOTAL	5.74	3.73	(-)35.02
Gujarat	123.39	75.79	(-)38.52
Madhya Pradesh
Maharashtra
Goa, Daman & Diu
Dadra & Nagar Haveli
Central Sector
SUB—TOTAL	123.39	75.79	(-)38.52
Bihar
Orissa
West Bengal	102.49	..
D.V.C.
A&N Islands
Sikkim
Central Sector
SUB—TOTAL	102.49	..
Andhra Pradesh
Karnataka
Kerala
Tamil Nadu
Pondicherry
Lakshadweep
SUB—TOTAL
Assam	385.81	317.96	(-)17.59
Manipur
Meghalaya
Nagaland
Tripura
Arunachal Pradesh
Mizoram
SUB—TOTAL	385.81	317.96	(-)17.59
TOTAL (ALL-INDIA)	514.94	499.97	(-)2.91

TABLE No. 24—Contd.

State/UTs.	NUCLEAR		
	1978-79	1979-80	% Increase
Haryana
Himachal Pradesh
Jammu & Kashmir
Punjab
Rajasthan
Uttar Pradesh
Chandigarh
Delhi
Central Sector	483.00	1,130.98	134.16
SUB—TOTAL	483.00	1,130.98	134.16
Gujarat
Madhya Pradesh
Maharashtra
Goa, Daman & Diu
Dadra and Nagar Haveli
Central Sector	2,286.68	1,745.61	(—)23.66
SUB—TOTAL	2,286.68	1,745.61	(—)23.66
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
Nagaland
Tripura
Arunachal Pradesh
Mizoram
SUB—TOTAL
TOTAL (ALL-INDIA)	2,769.68	2,876.59	3.86

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
Prime moverwise during 1979-80

Region	Name of the Board	Total		
		1978-79	1979-80	% Increase
<i>Northern Region</i>	Haryana	3,855.12	3,968.45	2.94
	Himachal Pradesh	397.63	354.91	(—)10.74
	Jammu & Kashmir	533.40	689.76	29.31
	Punjab	6,072.85	6,234.83	2.67
	Rajasthan	3,596.76	3,725.40	3.58
	Uttar Pradesh	10,139.46	10,123.84	(—)0.15
	SUB-TOTAL	24,595.22	25,097.19	2.04
<i>Western Region</i>	Gujarat	6,641.55	7,398.70	11.40
	Madhya Pradesh	5,242.90	5,722.38	9.15
	Maharashtra	11,658.46	12,042.24	3.29
	SUB-TOTAL	23,542.91	25,163.32	6.88
<i>Eastern Region</i>	Bihar	2,459.62	2,620.90	6.58
	Orissa	1,771.05	1,332.16	(—)24.78
	West Bengal	2,747.52	2,895.13	5.37
	SUB-TOTAL	6,978.19	6,848.19	(—)1.86
<i>Southern Region</i>	Andhra Pradesh	5,429.00	5,729.70	5.54
	Karnataka	880.49	897.56	1.94
	Kerala	5,190.23	5,118.70	(—)1.38
	Tamil Nadu	6,608.26	7,573.23	14.60
	SUB-TOTAL	18,107.98	19,319.19	6.69
<i>North Eastern Region</i>	Assam	658.53	512.42	(—)19.22
	Meghalaya	215.45	315.58	46.47
	SUB-TOTAL	873.98	828.00	(—)5.26
	TOTAL (ALL INDIA)	74,098.28	77,255.89	4.26

TABLE NO. 25—Contd.

Name of the Board	HYDRO		
	1978-79	1979-80	% Increase
Haryana	3,139.82	3,070.93	(—)2.19
Himachal Pradesh	397.57	354.88	(—)10.74
Jammu & Kashmir	525.83	677.00	28.75
Punjab	5,202.27	5,091.77	(—)2.12
Rajasthan	2,941.00	3,016.99	2.58
Uttar Pradesh	3,692.05	3,265.80	(—)11.55
SUB—TOTAL	15,898.54	15,471.37	(—)2.65
Gujarat	1,160.92	1,206.33	3.91
Madhya Pradesh	862.75	790.78	(—)8.34
Maharashtra	5,554.20	4,640.51	(—)16.45
SUB—TOTAL	7,577.87	6,637.62	(—)12.41
Bihar	103.53	57.49	(—)44.47
Orissa	1,044.78	634.46	(—)39.27
West Bengal	56.80	32.71	(—)42.41
SUB—TOTAL	1,205.11	724.66	(—)39.87
Andhra Pradesh	2,553.70	2,462.10	(—)3.59
Karnataka	880.49	897.56	1.94
Kerala	5,190.23	5,118.70	(—)1.38
Tamil Nadu	4,526.49	5,532.81	22.23
SUB—TOTAL	13,150.91	14,011.17	6.54
Assam . . . . .	..	..	..
Meghalaya	213.35	314.58	47.45
SUB—TOTAL	213.35	314.58	47.45
TOTAL (ALL INDIA)	38,045.78	37,165.40	(—)2.31

TABLE NO. 25—Contd.

(GWH)

Name of the Board	•STEAM		
	1978-79	1979-80	% Increase
Haryana	715.20	897.46	25.48
Himachal Pradesh . . . . .	..	..	..
Jammu & Kashmir	6.87	12.06	75.55
Punjab	870.38	1,140.52	31.04
Rajasthan	655.12	707.92	8.06
Uttar Pradesh	6,441.67	6,854.31	6.41
SUB—TOTAL	8,689.24	9,612.27	10.62
Gujarat	5,357.17	6,116.52	14.17
Madhya Pradesh	4,380.12	4,931.60	12.59
Maharashtra	6,104.26	7,401.73	21.26
SUB—TOTAL	15,841.55	18,449.85	16.46
Bihar	2,355.24	2,561.55	8.76
Orissa	726.27	697.70	(—)3.23
West Bengal	2,675.32	2,740.04	2.42
SUB—TOTAL	5,756.83	5,999.29	4.21
Andhra Pradesh	2,875.30	3,267.60	13.64
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu	2,081.77	2,040.42	(—)1.99
SUB—TOTAL	4,957.07	5,308.02	7.08
Assam	270.72	194.46	(—)28.17
Meghalaya	1.10	..	..
SUB—TOTAL	271.82	194.46	(—)28.46
TOTAL (ALL INDIA)	35,516.51	39,563.89	11.40

TABLE NO. 25—Contd.

(GWH)

Name of the Board	DIESEL		
	1978-79	1979-80	% Increase
Haryana	0.10	0.06	(—)40.00
Himachal Pradesh	0.06	0.03	(—)50.00
Jammu & Kashmir	0.70	0.70	..
Punjab	0.20	2.54	1,170.00
Rajasthan	0.64	0.49	(—)23.44
Uttar Pradesh . . . . .	..	..	..
SUB—TOTAL	1.70	3.82	124.71
Gujarat	0.07	0.06	(—)14.29
Madhya Pradesh	0.03	..	..
Maharashtra . . . . .	..	..	..
SUB—TOTAL	0.10	0.06	(—)40.00
Bihar	0.85	1.86	118.82
Orissa . . . . .	..	..	..
West Bengal	15.40	19.89	29.16
SUB—TOTAL	16.25	21.75	33.85
Andhra Pradesh . . . . .	..	..	..
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu . . . . .	..	..	..
SUB—TOTAL . . . . .	..	..	..
Assam	2.00	..	..
Meghalaya	1.00	1.00	..
SUB—TOTAL	3.00	1.00	(—)66.67
TOTAL (ALL INDIA).	21.05	26.63	26.51

TABLE NO. 25—Contd.

(GWH)

Name of the Board	GAS		
	1978-79	1979-80	% Increase
Haryana . . . . .		..	..
Himachal Pradesh . . . . .	..	..	..
Jammu & Kashmir . . . . .	..	..	..
Punjab . . . . .	..	..	..
Rajasthan . . . . .	..	..	..
Uttar Pradesh	5.74	3.73	(-)35.02
SUB--TOTAL	5.74	3.73	(-)35.02
Gujarat	123.39	75.79	(-)38.52
Madhya Pradesh . . . . .	..	..	..
Maharashtra . . . . .	..	..	..
SUB--TOTAL	123.39	75.79	(-)38.52
Bihar . . . . .	..	..	..
Orissa . . . . .	..	..	..
West Bengal . . . . .	..	102.49	..
SUB--TOTAL . . . . .	..	102.49	..
Andhra Pradesh . . . . .	..	..	..
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu . . . . .	..	..	..
SUB--TOTAL . . . . .	..	..	..
Assam	385.81	317.96	(-)17.59
Meghalaya . . . . .	..	..	..
SUB--TOTAL	385.81	317.96	(-)17.59
TOTAL (ALL INDIA)	514.94	499.87	(-)2.91

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 1979-80.

(GWH)

Region	Ownership	TOTAL		
		1978-79	1979-80	% Increase
I. Electricity Deptt./Govt. undertaking/Corpn./Central Sector				
Northern Region	Chandigarh	0.08	0.06	(-)25.00
	Central Sector	1,540.75	2,663.31	72.86
Western Region	Central Sector	2,518.53	1,929.03	(-)20.63
Eastern Region	Bihar	13.25	23.28	53.06
	Orissa	1,573.33	1,393.67	(-)11.42
	Sikkim	7.51	5.50	(-)26.74
	West Bengal	694.29	795.78	14.62
	D.V.C.	5,442.64	4,619.74	(-)15.12
	A & N Islands	5.96	6.69	12.25
	Central Sector . . . . .	..	..	..
Southern Region	Andhra Pradesh	770.42	776.15	0.42
	Karnataka	4,999.27	4,566.51	(-)8.66
	Lakshadweep	0.83	1.10	25.00
	Central Sector	2,493.00	2,369.00	(-)4.97
North Eastern Region.	Manipur	20.62	17.02	(-)17.46
	Nagaland	1.55	1.94	25.16
	Tripura	31.64	39.30	24.21
	Arunachal Pradesh	10.20	10.37	1.67
	Mizoram	1.85	1.56	(-)15.68
TOTAL (I)		20,125.77	19,287.01	(-)4.17
II. Municipalities				
Northern Region	Delhi	1,413.09	1,466.74	3.80
Western Region	Gujarat	0.02	..	..
Eastern Region	West Bengal . . . . .	..	..	..
TOTAL (II)		1,413.11	1,466.74	3.80
III. Private Licensees				
Western Region	Gujarat	1,349.03	1,453.26	7.73
	Maharashtra	3,833.00	3,461.30	(-)9.70
Eastern Region	West Bengal	1,703.33	1,703.03	(-)0.02
TOTAL (III)		6,885.36	6,617.62	(-)3.89

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

TABLE NO. 26—Contd.

Ownership	HYDRO		
	1978-79	1979-80	% Increase
<i>I. Electricity Deptt./Govt. Undertaking/Corpn., Central Sector</i>			
N.R.	Chandigarh . . . . .	..	..
	Central Sector . . . . .	..	..
W.R.	Central Sector . . . . .	..	..
E.R.	Bihar	13.25	20.28
	Orissa	1,573.33	1,393.67
	Sikkim	5.59	4.70
	West Bengal . . . . .	..	..
	D.V.C.	223.75	190.56
	A & N Islands . . . . .	..	..
	Central Sector . . . . .	..	..
S.R.	Andhra Pradesh	770.42	776.15
	Karnataka	4,999.27	4,566.51
	Lakshadweep . . . . .	..	..
	Central Sector . . . . .	..	..
N.E.R.	Manipur	1.40	2.97
	Nagaland	0.98	1.35
	Tripura	30.69	39.01
	Arunachal Pradesh	8.40	9.15
	Mizoram . . . . .	..	..
	TOTAL (I)	7,627.08	7,004.35
			(-)8.16
<i>II. Municipalities</i>			
N.R.	Delhi . . . . .	..	..
W.R.	Gujarat . . . . .	..	..
E.R.	West Bengal . . . . .	..	..
	TOTAL (II) . . . . .	..	..
<i>III. Private Licencees</i>			
W.R.	Gujarat . . . . .	..	..
	Maharashtra	1,486.00	1,307.80
E.R.	West Bengal . . . . .	..	..
	TOTAL (III)	1,486.00	1,307.80
			(-)11.99

TABLE NO. 26—Contd.

Ownership s	STEAM			
	1978-79	1979-80	% Increase	
<i>I. Electricity Deptt., Govt. Undertaking (Corporation) Central Sector.</i>				
N.R.	Chandigarh	..	..
	Central Sector	1,057.75	1,532.33	44.87
W.R.	Central Sector	231.85	253.42	9.30
E.R.	Bihar	..	..	..
	Orissa	..	..	..
	Sikkim	..	..	..
	West Bengal	694.29	795.78	14.62
	D.V.C.	5,218.89	4,429.18	(-)15.13
	A & N Islands	2.06	1.03	(-)50.00
	Central Sector	..	..	..
S.R.	Andhra Pradesh	..	..	..
	Karnataka	..	..	..
	Lakshadweep	..	..	..
	Central Sector	2,493.00	2,369.00	(-)4.97
N.E.R.	Mizoram	..	..	..
	Nagaland	..	..	..
	Tripura	..	..	..
	Assam	..	..	..
	Mizoram	..	..	..
	TOTAL (I)	9,697.84	9,380.74	(-)3.27
<i>II. Municipalities.</i>				
N.R.	Delhi	1,410.03	1,465.38	3.93
W.R.	Gujarat	..	..	..
E.R.	West Bengal	..	..	..
	TOTAL (II)	1,410.03	1,465.38	3.93
<i>III. Private Licensees.</i>				
W.R.	Gujarat	1,349.03	1,453.26	7.73
	Maharashtra	2,347.00	2,153.50	(-)8.24
E.R.	West Bengal	1,703.33	1,703.06	(-)0.02
	TOTAL (III)	5,399.36	5,309.82	(-)1.66

TABLE NO. 26—Contd.

Ownership	DIESEL			
	1978-79	1979-80	% Increase	
<i>I. Electricity Deptt./Govt. Undertaking/Corporation/Central Sector.</i>				
N.R.	Chandigarh	0.08	0.06	(-)25.00
	Central Sector . . . . .	..	..	..
W.R.	Central Sector . . . . .	..	..	..
E.R.	Bihar . . . . .	..	..	..
	Orissa . . . . .	..	..	..
	Sikkim	1.92	0.80	(-)58.33
	West Bengal . . . . .	..	..	..
	D.V.C. . . . .	..	..	..
	A & N Islands	3.90	5.66	45.13
	Central Sector . . . . .	..	..	..
S.R.	Andhra Pradesh . . . . .	..	..	..
	Karnataka . . . . .	..	..	..
	Lakshadweep	0.88	1.10	25.00
	Central Sector . . . . .	..	..	..
N.E.R.	Manipur	19.22	14.05	(-)26.90
	Nagaland	0.57	0.59	3.51
	Tripura	0.95	0.29	(-)69.47
	Arunachal Pradesh	1.80	1.22	(-)32.33
	Mizoram	1.85	1.56	(-)15.68
	TOTAL (I)	31.17	25.33	(-)18.74
<i>II. Municipalities.</i>				
N.R.	Delhi	3.06	1.36	(-)55.56
W.R.	Gujarat	0.02	..	..
E.R.	West Bengal . . . . .	..	..	..
	TOTAL (II)	3.08	1.36	(-)55.84
<i>III. Private Licensees.</i>				
W.R.	Gujarat . . . . .	..	..	..
	Maharashtra . . . . .	..	..	..
E.R.	West Bengal . . . . .	..	..	..
	TOTAL (III)	..	..	..

TABLE 26—contd.

Ownership	NUCLEAR		
	1978-79	1979-80	%Increase
I. Electricity Deptt. Govt. Undertaking, Corporation, Central Sector.			
N.R.	Chandigarh	..	..
	Central Sector	483.00	1,130.98
			134.16
W.R.	Central Sector	2,286.68	1,745.61
			(-)23.66
E.R.	Bihar	..	..
	Orissa	..	..
	Sikkim	..	..
	West Bengal	..	..
	D.V.C.	..	..
	A & N Islands	..	..
S.R.	Andhra Pradesh	..	..
	Karnataka	..	..
	Lakshadweep	..	..
	Central Sector	..	..
N.E.R.	Manipur	..	..
	Nagaland	..	..
	Tripura	..	..
	Arunachal Pradesh	..	..
	Mizoram	..	..
	TOTAL (I)	2,769.68	2,876.59
			3.86
II. Municipalities			
N.R.	Delhi	..	..
W.R.	Gujarat	..	..
E.R.	West Bengal	..	..
	TOTAL (II)	..	..
III. Private Licensees.			
W.R.	Gujarat	..	..
	Maharashtra	..	..
E.R.	West Bengal	..	..
	TOTAL (III)	..	..

TABLE NO. 27

*Classification of Undertakings**
GENERATIONWISE--1979-80.

Range of generation (GWH)	No. of undertakings	Total energy generated by the groups (GWH)	% to Total	Installed capacity of the group (MW)	% to Total
Under 1.00	4	0.06	Neg.	134.72	0.47
Over 1.00 upto 10.00	5	16.79	0.02	17.46	0.06
Over 10.00 upto 25.00	3	47.67	0.04	45.77	0.16
Over 25.00 upto 50.00	2	66.42	0.06	24.36	0.09
Over 50.00 upto 100.00	1	65.87	0.06	18.00	0.06
Over 100.00 upto 250.00 . . . . .	..	..	..	..	..
Over 250.00 upto 500.00	4	1,189.72	1.14	412.69	1.45
Over 500.00 upto 1000.00	5	3,700.52	3.54	1,163.91	4.09
Over 1000.00 upto 5000.00	16	39,596.59	37.84	10,280.12	36.14
Over 5000.00 upto 10000.00	6	37,777.54	36.11	10,081.34	35.44
Above 10000.00	2	22,166.08	21.19	6,269.46	22.04
TOTAL	48	1,04,627.26	100.00	28,447.83	100.00

* Generating.

SECTION IV
CAPTIVE PLANTS

CAPTIVE PLANTS

As in previous years industrial sector continued to be the largest constituent of energy consumption. Besides generation by utilities, a number of industries representing primary production of infrastructure materials such as iron and steel, aluminium, cement, paper, fertilizers, etc. have their own captive plants to supplement purchase from utilities or for emergency use in case of power cut or producing energy as by-product of industrial process.

Based on data received from 2216 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 and textiles consumed more than 1500 GWH during 1979-80 details of which are enumerated below :

Sl. No.	Category	Number of industries covered	Energy consumption (GWH)		% increase/decrease
			1978-79	1979-80	
1	Aluminium (P)	7	3,731.41	3,699.45	(-)0.86
2	Cement (P)	49	2,050.30	1,734.23	(-)15.42
3	Chemicals	167	4,046.69	5,011.32	23.84
4	Fertilizers	28	4,417.73	4,256.36	(-)3.65
5	Iron & steel (P)	12	4,978.45	4,445.57	(-)10.70
6	Paper	58	1,552.47	1,617.15	4.17
7	Textiles	455	5,750.34	5,743.23	(-)0.12
TOTAL		769	26,527.39	26,507.31	(-)0.08

NOTE : (P) = Primary

It is significant from the above table that nearly 72.58% of the total consumption 36519.44 GWH by 2216 industries is accounted for by mere 769 industries out of the above major categories.

Out of total generation of 8157.04 GWH by industrial captive plants, eight industrial categories viz. Aluminium (Primary), fertilizers, iron and steel (Primary), mineral oil and petroleum, paper, sugar, textiles and chemicals generated 7099.89 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	1,101.84
Fertilizers	520.32
Iron & Steel (P)	2,143.81
Mineral Oil & Petroleum	553.10
Paper	672.20
Sugar	731.59
Textile	858.42
Chemical	508.61
TOTAL	7,099.89

Nearly 87.04% of the captive generation is accounted for by these eight categories of industries.

Apart from industrial captive plants, railways have also got captive generating sets which are mainly used as stand by and for emergency purposes. Total capacity of captive plants of Railways during 1979-80 was 60.44 MW and 35.07 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, 1980.*

(in KW)				
Region	States/UTs	Aluminium(P)	Aluminium (S)	Automobiles
<i>Northern Region</i>	Haryana . . . . .	..	144	1,258
	Himachal Pradesh . . . . .	..	..	..
	Jammu & Kashmir . . . . .	..	..	..
	Punjab . . . . .	..	..	220
	Rajasthan . . . . .	..	..	..
	Uttar Pradesh	1,25,000	..	..
	Chandigarh . . . . .	..	..	..
	Delhi . . . . .	..	..	..
	SUB-TOTAL	1,25,000	144	1,478
<i>Western Region</i>	Gujarat . . . . .	..	..	..
	Madhya Pradesh . . . . .	..	..	..
	Maharashtra . . . . .	..	872	5,752
	Goa, Daman & Diu . . . . .	..	..	..
	D & N Haveli . . . . .	..	..	..
	SUB-TOTAL . . . . .	..	872	5,752
<i>Eastern Region</i>	Bihar . . . . .	..	4,175	..
	Orissa . . . . .	..	210	..
	West Bengal	18,450	300	1,320
	A & N Islands . . . . .	..	..	..
	Sikkim . . . . .	..	..	..
	SUB-TOTAL	18,450	4,685	1,320
<i>Southern Region</i>	Andhra Pradesh . . . . .	..	..	..
	Karnataka	350	220	4,640
	Kerala . . . . .	..	400	..
	Tamil Nadu . . . . .	..	..	..
	Pondicherry . . . . .	..	..	..
	Lakshadweep . . . . .	..	..	..
	SUB-TOTAL	350	620	4,640
<i>North Eastern Region</i>	Assam . . . . .	..	..	..
	Manipur . . . . .	..	..	..
	Meghalaya . . . . .	..	..	..
	Nagaland . . . . .	..	..	..
	Tripura . . . . .	..	..	..
	Arunachal Pradesh . . . . .	..	..	..
	Mizoram . . . . .	..	..	..
		SUB-TOTAL
	TOTAL (ALL INDIA)	1,43,800	6,321	13,190

TABLE NO. 28—Contd.

State/UTs	Cement(P)	Cement (S)	Chemicals	Collieries
Haryana	2,700	3,546	1,960	..
Himachal Pradesh . . . . .	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	..
Punjab . . . . .	..	..	777	..
Rajasthan	29,550	..	4,500	..
Uttar Pradesh	567	..	16,366	..
Chandigarh . . . . .	..	..	1,200	..
Delhi . . . . .	..	..	22,500	..
SUB-TOTAL	32,817	3,546	47,303	..
Gujarat	16,175	630	48,215	..
Madhya Pradesh	19,305	266	980	3,600
Maharashtra . . . . .	..	1,218	58,414	..
Goa, Daman & Diu . . . . .	..	..	8,996	..
D & N Haveli . . . . .	..	..	..	..
SUB-TOTAL	35,480	2,114	1,16,605	3,600
Bihar	32,144	..	..	30,080
Orissa	210	790	..	..
West Bengal	688	781	6,379	..
A & N Islands . . . . .	..	..	..	..
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	33,042	1,571	6,379	30,080
Andhra Pradesh	1,686	..	492	39,700
Karnataka	20,220	..	2,536	..
Kerala . . . . .	..	..	1,629	..
Tamil Nadu	4,049	1,296	8,932	..
Pondicherry . . . . .	..	..	..	..
Lakshadweep . . . . .	..	..	..	..
SUB-TOTAL	25,955	1,296	13,526	39,700
Assam . . . . .	..	390	428	715
Manipur . . . . .	..	..	..	..
Meghalaya . . . . .	..	..	..	..
Nagaland . . . . .	..	..	..	..
Tripura . . . . .	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL . . . . .	..	390	428	715
TOTAL (ALL INDIA)	1,27,294	8,917	1,84,241	74,095

TABLE No. 28—Contd.

State/UTs	Engineering (Elec)	Fertilizer	Food Products	Heavy Engineering
Haryana	2,021	1,500	90	..
Himachal Pradesh . . . . .	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	..
Punjab	150	545	1,599	..
Rajasthan	389	35,160	320	727
Uttar Pradesh	15,734	..	5,013	3,853
Chandigarh	112	..	..	..
Delhi . . . . .	..	..	294	..
SUB-TOTAL	18,406	37,205	7,316	4,580
Gujarat	590	2,358	62	..
Madhya Pradesh	3,348	..	1,478	..
Maharashtra	10,661	1,352	4,591	7,532
Goa, Daman & Diu . . . . .	..	..	..	..
D & N Haveli . . . . .	..	..	..	..
SUB-TOTAL	14,599	3,710	6,131	7,532
Bihar	1,260	81,780	..	2,664
Orissa . . . . .	..	..	..	..
West Bengal	4,605	2,250	12,830	4,342
A & N Islands . . . . .	..	..	..	..
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	5,865	84,030	12,830	7,006
Andhra Pradesh	716	534	1,264	2,486
Karnataka	9,479	..	1,084	6,958
Kerala . . . . .	..	17,150	1,185	..
Tamil Nadu	1,064	3,049	1,763	4,352
Pondicherry . . . . .	..	..	..	..
Lakshadweep . . . . .	..	..	..	..
SUB-TOTAL	11,259	20,733	5,296	13,796
Assam . . . . .	..	1,750	1,062	..
Manipur . . . . .	..	..	..	..
Meghalaya . . . . .	..	..	..	..
Nagaland . . . . .	..	..	..	..
Tripura . . . . .	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL . . . . .	..	1,750	1,062	..
TOTAL (ALL INDIA)	50,129	147,428	32,635	32,914

TABLE NO. 28—Contd.

Stats/UTs	Iron & steel (P)	Iron & steel (S)	Jute	Light Engineering
Haryana . . . . .	..	3,306	..	5,955
Himachal Pradesh . . . . .	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	399
Punjab . . . . .	..	115	..	1,554
Rajasthan . . . . .	..	280	..	3,883
Uttar Pradesh . . . . .	..	1,321	2,278	4,464
Chandigarh . . . . .	..	..	..	20
Delhi . . . . .	..	..	..	..
SUB-TOTAL . . . . .	..	5,022	2,278	16,275
Gujarat . . . . .	..	1,435	..	980
Madhya Pradesh	36,000	..	..	..
Maharashtra . . . . .	..	5,140	..	12,418
Goa, Daman & Diu . . . . .	..	..	..	..
Dadra & Nagar Haveli . . . . .	..	..	..	..
SUB-TOTAL	36,000	6,575	..	13,398
Bihar	2,65,000	4,220	4,900	..
Orissa	1,40,152	..	..	..
West Bengal	80,000	624	98,739	1,030
A & N Islands . . . . .	..	..	..	..
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	4,85,152	4,844	1,03,639	21,030
Madhya Pradesh . . . . .	..	..	3,747	..
Karnataka	1,760	..	..	5,119
Kerala . . . . .	..	..	..	779
Tamil Nadu . . . . .	..	618	..	4,880
Pondicherry . . . . .	..	..	..	..
Lakshadweep . . . . .	..	..	..	..
SUB-TOTAL	1,760	618	3,747	10,778
Assam . . . . .	..	..	150	..
Manipur . . . . .	..	..	..	..
Meghalaya . . . . .	..	..	..	..
Nagaland . . . . .	..	..	..	..
Tripura . . . . .	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL . . . . .	..	..	150	..
TOTAL (ALL INDIA)	5,22,912	17,059	1,09,814	41,481

TABLE 28—Contd.

State/UTs	Mineral Oil & Petroleum	Mining & Quarrying	Miscellaneous	Non-Ferrous	Paper
Haryana . . . . .	..	..	4,994	136	9,750
Himachal Pradesh . . . . .	..	..	364	..	..
Jammu & Kashmir . . . . .	..	..	..	..	..
Punjab . . . . .	..	..	1,867	..	..
Rajasthan . . . . .	..	..	..	19,062	..
Uttar Pradesh . . . . .	..	..	8,535	..	11,840
Chandigarh . . . . .	..	..	720	..	..
Delhi . . . . .	..	..	..	..	..
SUB-TOTAL . . . . .	..	..	16,480	19,198	21,590
Gujarat	24,000	200	236	..	6,000
Madhya Prauesh . . . . .	..	..	1,930	1,385	33,000
Maharashtra . . . . .	..	..	8,191	48	9,125
Goa, Daman & Diu . . . . .	..	100	248	..	..
Dadra & Nagar Haveli . . . . .	..	..	..	..	..
SUB-TOTAL	24,000	300	10,605	1,433	48,125
Bihar	24,000	..	800	9,980	32
Orissa . . . . .	..	..	..	998	16,700
West Bengal	31,625	..	11,344	..	39,141
A & N Islands . . . . .	..	..	..	..	..
Sikkim . . . . .	..	..	..	..	..
SUB-TOTAL	55,625	..	12,144	10,978	55,873
Andhra Pradesh	75	..	3,051	621	35,400
Karnataka . . . . .	..	..	3,959	9,331	11,913
Kerala . . . . .	..	..	440	..	180
Tamil Nadu	22,400	..	2,335	..	7,500
Pondicherry . . . . .	..	..	..	..	..
Lakshadweep . . . . .	..	..	..	..	..
SUB-TOTAL	22,475	..	9,787	9,952	54,993
Assam	43,766	..	755	..	3,300
Manipur . . . . .	..	..	..	..	..
Meghalaya . . . . .	..	..	..	..	..
Nagaland . . . . .	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..	..
Mizoram . . . . .	..	..	..	..	..
SUB-TOTAL	43,766	..	755	..	3,300
TOTAL (ALL-INDIA)	1,45,866	300	49,769	41,561	1,83,881

TABLE NO. 28—Concl'd.

State/UTs	Plastic	Rubber	Sugar	Textile	Total
Haryana . . . . .	..	1,831	9,578	12,979	61,748
Himachal Pradesh . . . . .	..	..	..	..	364
Jammu & Kashmir . . . . .	..	..	..	..	399
Punjab . . . . .	..	..	9,082	6,632	22,541
Rajasthan . . . . .	..	..	1,120	17,778	1,12,769
Uttar Pradesh . . . . .	..	1,376	1,15,340	36,509	3,48,196
Chandigarh . . . . .	..	..	..	..	2,052
Delhi . . . . .	..	..	..	8,388	31,182
SUB-TOTAL . . . . .	..	3,207	1,35,120	82,286	5,79,251
Gujarat . . . . .	..	..	27,595	34,446	1,62,922
Madhya Pradesh . . . . .	..	..	5,315	66,108	1,72,715
Maharashtra	1,304	4,871	1,35,638	74,725	3,41,852
Goa, Daman & Diu . . . . .	..	..	..	9	9,353
Dadra & Nagar Haveli . . . . .	..	..	..	..	..
SUB-TOTAL	1,304	4,871	1,68,548	1,75,288	6,86,842
Bihar . . . . .	..	..	19,115	..	4,80,150
Orissa . . . . .	..	..	1,685	2,000	1,62,745
West Bengal	125	7,200	800	8,191	3,30,764
A & N Islands . . . . .	..	..	..	..	..
Sikkim . . . . .	..	..	..	..	..
SUB-TOTAL	125	7,200	21,600	10,191	9,73,659
Andhra Pradesh	2,970	..	50,529	12,577	1,55,785
Karnataka . . . . .	..	100	40,668	19,718	1,38,055
Kerala . . . . .	..	880	4,805	12,607	40,055
Tamil Nadu	1,760	2,455	41,681	53,396	1,61,530
Pondicherry . . . . .	..	..	3,500	3,014	6,514
Lakshadweep . . . . .	..	..	..	..	..
SUB-TOTAL	4,730	3,435	1,41,183	1,01,312	5,01,939
Assam . . . . .	..	..	2,567	1,000	55,883
Manipur . . . . .	..	..	..	..	..
Meghalaya . . . . .	..	..	..	..	..
Nagaland . . . . .	..	..	1,500	..	1,500
Tripura . . . . .	..	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..	..
Mizoram . . . . .	..	..	..	..	..
SUB-TOTAL . . . . .	..	..	4,067	1,000	57,383
TOTAL (ALL-INDIA)	6,159	18,713	4,70,518	3,70,077	27,99,074

TABLE NO. 29

Gross Electricity Generation by Selected Industries
Regionwise/Statewise during 1979-80

(GWH)				
Region	State/UTs.	Aluminium (P)	Aluminium (S)	Automobiles
<i>Northern Region</i>	Haryana . . . . .	..	0.01	1.66
	Himachal Pradesh . . . . .	..	..	..
	Jammu & Kashmir . . . . .	..	..	..
	Punjab . . . . .	..	..	..
	Rajasthan . . . . .	..	..	..
	Uttar Pradesh	1,101.84	..	..
	Chandigarh . . . . .	..	..	..
	Delhi . . . . .	..	..	..
	SUB-TOTAL	1,101.84	0.01	1.66
<i>Western Region</i>	Gujarat . . . . .	..	..	..
	Madhya Praesh . . . . .	..	..	..
	Maharashtra . . . . .	..	2.47	8.77
	Goa, Daman & Diu . . . . .	..	..	..
	Dadra & Nagar Haveli . . . . .	..	..	..
		SUB-TOTAL	2.47	8.77
<i>Eastern Region</i>	Bihar . . . . .	..	23.05	..
	Orissa . . . . .	..	0.02	..
	West Bengal . . . . .	..	0.05	..
	Andaman & Nicobar Islands . . . . .	..	..	..
	Sikkim . . . . .	..	..	..
	SUB-TOTAL . . . . .	..	23.12	..
<i>Southern Region</i>	Andhra Pradesh . . . . .	..	..	..
	Karnataka . . . . .	..	0.34	2.68
	Kerala . . . . .	..	0.02	..
	Tamil Nadu . . . . .	..	..	..
	Pondicherry . . . . .	..	..	..
	Lakshadweep . . . . .	..	..	..
		SUB-TOTAL	0.36	2.68
<i>North Eastern Region</i>	Assam . . . . .	..	..	..
	Manipur . . . . .	..	..	..
	Meghalaya . . . . .	..	..	..
	Nagaland . . . . .	..	..	..
	Tripura . . . . .	..	..	..
	Arunachal Pradesh . . . . .	..	..	..
	Mizoram . . . . .	..	..	..
		SUB-TOTAL
	TOTAL (ALL-TOTAL)	1,101.84	25.96	13.11

TABLE NO. 29—Contd.

(GWH)				
State/UTs	Cement (P)	Cement (S)	Chemicals	Collieries
Haryana	0.91	7.02	1.06	..
Himachal Pradesh . . . . .	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	..
Punjab . . . . .	..	..	0.20	..
Rajasthan	50.90	..	31.32	..
Uttar Pradesh	0.01	..	37.98	..
Chandigarh . . . . .	..	..	0.22	..
Delhi . . . . .	..	..	119.31	..
SUB-TOTAL	51.82	7.02	190.09	..
Gujarat	55.53	0.24	163.73	..
Madhya Pradesh	116.28	0.01	0.18	6.30
Maharashtra . . . . .	..	1.76	90.42	..
Goa, Daman & Diu . . . . .	..	..	45.30	..
Dadra & Nagar Haveli . . . . .	..	..	..	..
SUB-TOTAL	171.81	2.01	299.63	6.30
Bihar	104.28	..	..	38.62
Orissa . . . . .	..	0.03	..	..
West Bengal	0.01	0.31	5.28	..
Andaman & Nicobar Islands . . . . .	..	..	..	..
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	104.29	0.34	5.28	38.62
Andhra Pradesh	0.99	..	..	126.37
Karnataka	39.38	..	2.33	..
Kerala . . . . .	..	..	0.01	..
Tamil Nadu	0.88	0.45	11.19	..
Pondicherry . . . . .	..	..	..	..
Lakshadweep . . . . .	..	..	..	..
SUB-TOTAL	41.25	0.45	13.53	126.37
Assam . . . . .	..	..	0.08	0.04
Manipur . . . . .	..	..	..	..
Meghalaya . . . . .	..	..	..	..
Nagaland . . . . .	..	..	..	..
Tripura . . . . .	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL . . . . .	..	..	0.08	0.04
TOTAL (ALL INDIA)	369.17	9.82	508.61	171.33

TABLE No. 29—Contd.

(GWH)				
State/UTs.	Engineering (Elect.)	Fertilizer	Food Products	Heavy Engineering
Haryana	1.24	0.07	..	..
Himachal Pradesh . . . . .	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	..
Punjab	0.02	..	0.72	..
Rajasthan	0.14	252.15	0.03	0.12
Uttar Pradesh	33.18	..	4.39	3.37
Chandigarh	0.01	..	..	..
Delhi . . . . .	..	..	0.07	..
SUB-TOTAL	34.59	252.22	5.21	3.49
Gujarat	0.06	0.01	..	..
Madhya Pradesh	4.66	..	0.05	..
Maharashtra	17.81	0.12	3.43	11.07
Goa, Daman & Diu . . . . .	..	..	..	..
Dadra & Nagar Haveli . . . . .	..	..	..	..
SUB-TOTAL	22.53	0.13	3.48	11.07
Bihar	0.46	206.92	..	4.14
Orissa . . . . .	..	..	..	..
West Bengal	4.91	2.99	10.90	0.64
A & N Islands . . . . .	..	..	..	..
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	5.37	209.91	10.90	4.78
Andhra Pradesh	0.21	0.34	1.44	0.42
Karnataka	11.60	..	1.28	4.28
Kerala . . . . .	..	56.58	0.15	..
Tamil Nadu	1.32	0.59	0.40	1.60
Pondicherry . . . . .	..	..	..	..
Lakshadweep . . . . .	..	..	..	..
SUB-TOTAL	13.13	57.51	3.27	6.30
Assam . . . . .	..	0.55	0.10	..
Manipur . . . . .	..	..	..	..
Meghalaya . . . . .	..	..	..	..
Nagaland . . . . .	..	..	..	..
Tripura . . . . .	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL . . . . .	..	0.55	0.10	..
TOTAL (ALL-INDIA)	75.62	520.32	22.96	25.64

TABLE NO. 29—Contd.

(GWH)				
State/UTs.	Iron & Steel (P)	Iron & Steel (S)	Jute	Light Engineering
Haryana	2.43	..	6.88
Himachal Pradesh
Jammu & Kashmir	0.04
punjab	0.02	..	0.63
Rajasthan	0.05	..	3.22
Uttar Pradesh	2.33	3.64	1.11
Chandigarh
Delhi
SUB-TOTAL	4.83	3.64	11.88
Gujarat	0.32	..	0.04
Madhya Pradesh	238.76	..	..	..
Maharashtra	5.28	..	18.19
Goa, Daman & Diu
Dadra & Nagar Haveli
SUB-TOTAL	238.76	5.60	..	18.23
Bihar	1,088.34	4.18	0.21	..
Orissa	600.77	..	..	..
West Bengal	215.94	0.03	152.70	0.55
A & N Islands
Sikkim
SUB-TOTAL	1,905.05	4.21	152.91	0.55
Andhra Pradesh	4.15	..
Karnataka	5.91
Kerala	0.03
Tamil Nadu	0.16	..	4.58
Pondicherry
Lakshadweep
SUB-TOTAL	0.16	4.15	10.52
Assam
Manipur
Meghalaya
Nagaland
Tripura
Arunachal Pradesh
Mizoram
SUB-TOTAL
TOTAL (ALL-INDIA)	2,143.81	14.80	160.70	41.18

TABLE NO. 29—Contd.

State/UTs.	Mineral Oil & Petroleum	Mining & Quarrying	Miscellaneous	Non-Ferrous	Paper
Haryana . . . . .	..	..	5.80	0.36	67.24
Himachal Pradesh . . . . .	..	..	0.09	..	..
Jammu & Kashmir . . . . .	..	..	..	..	..
Punjab . . . . .	..	..	1.02	..	..
Rajasthan . . . . .	..	..	..	4.43	..
Uttar Pradesh . . . . .	..	..	8.04	..	20.08
Chandigarh . . . . .	..	..	..	..	..
Delhi . . . . .	..	..	..	..	..
SUB-TOTAL . . . . .	..	..	14.95	4.79	87.32
Gujarat	143.78	0.05	0.02	..	15.92
Madhya Pradesh . . . . .	..	..	0.48	0.09	114.98
Maharashtra . . . . .	..	..	9.05	..	22.84
Goa, Daman & Diu . . . . .	..	0.01	..	..	..
Dadra & Nagar Haveli . . . . .	..	..	..	..	..
SUB-TOTAL	143.78	0.06	9.55	0.09	153.74
Bihar	92.90	..	0.69	31.06	..
Orissa . . . . .	..	..	..	0.01	97.89
West Bengal	100.43	..	11.46	..	117.85
A & N Islands . . . . .	..	..	..	..	..
Sikkim . . . . .	..	..	..	..	..
SUB-TOTAL	193.33	..	12.15	31.07	215.74
Andhra Pradesh . . . . .	..	..	0.99	0.02	144.95
Karnataka . . . . .	..	..	3.54	1.68	32.43
Kerala . . . . .	..	..	..	..	..
Tamil Nadu	120.41	..	1.40	..	26.93
Pondicherry . . . . .	..	..	..	..	..
Lakshadweep . . . . .	..	..	..	..	..
SUB-TOTAL	120.41	..	5.93	1.70	204.31
Assam	105.58	..	0.23	..	11.09
Manipur . . . . .	..	..	..	..	..
Meghalaya . . . . .	..	..	..	..	..
Nagaland . . . . .	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..	..
Mizoram . . . . .	..	..	..	..	..
SUB-TOTAL	105.58	..	0.23	..	11.09
TOTAL (ALL-INDIA)	563.10	0.06	42.81	37.65	672.20

TABLE No. 29—Contd.

(GWH)					
State/UTs.	Plastic	Rubber	Sugar	Textile	Total
Haryana	2.47	22.20	20.06	139.41
Himachal Pradesh	0.09
Jammu & Kashmir	0.04
Punjab	8.16	4.49	15.26
Rajasthan	0.62	16.18	359.16
Uttar Pradesh	4.65	184.73	40.14	1,445.49
Chandigarh	0.23
Delhi	19.91	139.29
SUB-TOTAL	7.12	215.71	100.78	2,098.97
Gujarat	47.09	68.47	495.26
Madhya Pradesh	7.57	209.56	698.92
Maharashtra	1.22	15.19	240.52	232.26	680.40
Goa, Daman & Diu	45.31
Dadra & Nagar Haveli
SUB-TOTAL	1.22	15.19	295.18	510.29	1,919.89
Bihar	17.04	..	1,611.89
Orissa	2.12	11.31	712.15
West Bengal	8.40	0.14	9.18	641.77
A & N Islands
Sikkim
SUB-TOTAL	8.40	19.30	20.49	296.81
Andhra Pradesh	7.22	..	44.05	12.47	343.62
Karnataka	0.19	52.82	61.31	219.77
Kerala	7.18	25.79	89.76
Tamil Nadu	2.49	4.51	88.55	125.62	391.08
Pondicherry	4.79	1.67	6.46
Lakshadweep
SUB-TOTAL	9.71	4.70	197.39	226.86	1,050.69
Assam	1.33	..	119.00
Manipur
Meghalaya
Nagaland	2.68	..	2.68
Tripura
Arunachal Pradesh
Mizoram
SUB-TOTAL	4.01	..	121.68
TOTAL (ALL-INDIA)	10.93	35.41	731.59	858.42	8,157.04

TABLE No. 30

*Electricity Production and Consumption in selected industries Industry wise
During 1979-80*

Name of the Industry	No. of factories covered	INSTALLED CAPACITY(KW)			
		Steam	Diesel	Hydro/Gas	Total
Aluminium (P)	7	143,450	350	..	143,800
Aluminium (S)	12	4,000	2,321	..	6,321
Automobile	15	..	13,190	..	13,190
Cement (P)	49	116,850	10,444	..	127,294
Cement (S)	24	..	8,917	..	8,917
Chemical	160	92,868	71,373	20,000(G)	184,241
Collieries	441	59,800	14,295	..	74,095
Electrical Engg.	80	15,440	34,689	..	50,129
Fertilizer	28	137,280	10,148	..	147,428
Food Products	115	2,100	30,535	..	32,635
Heavy Engineering	34	..	32,914	..	32,914
Iron & Steel (P)	12	521,800	1,112	..	522,912
Iron & Steel (S)	118	..	17,059	..	17,059
Jute	75	26,110	83,704	..	109,814
Light Engineering	119	..	41,481	..	41,481
Mineral Oil & Petroleum	16	107,900	3,696	34,270(G)	145,866
Mining & Quarrying	16	..	300	..	300
Miscellaneous	111	3,466	46,303	..	49,769
Non-Ferrous	32	6,000	35,561	..	41,561
Paper	58	176,425	7,456	..	183,881
Plastic	8	2,970	3,189	..	6,159
Rubber	15	..	18,713	..	18,713
Sugar	216	434,100	36,418	..	470,518
Textile	455	171,053	196,412	2,612 (H)	370,077
TOTAL :	2,216	2,021,612	720,580	54,270 (Gas) 2,612 (Hydro)	279,9074

TABLE No. 30—Contd.

(GWH)

Name of the Industry	ENERGY GENERATED			
	Steam	Diesel	Hydro/Gas	Total
Aluminium (P)	1,101.84	..	..	1,101.84
Aluminium (S)	23.01	2.95	..	25.96
Automobile	..	13.11	..	13.11
Cement (P)	366.25	2.92	..	369.17
Cement (S)	..	9.82	..	9.82
Chemical	402.87	78.22	27.52(G)	508.61
Collicries	163.17	8.16	..	171.33
Electrical Engg.	33.14	42.48	..	75.62
Fertilizer	519.17	1.15	..	520.32
Food Products	..	22.96	..	22.96
Heavy Engineering	..	25.64	..	25.64
Iron & Steel (P)	2,143.81	..	..	2,143.81
Iron & Steel (S)	..	14.80	..	14.80
Jute	63.07	97.63	..	160.70
Light Engineering	..	41.18	..	41.18
Mineral Oil & Petroleum	487.83	12.12	63.15(G)	563.10
Mining & Quarrying	..	0.06	..	0.06
Miscellaneous	4.13	38.68	..	42.81
Non-Ferrous	20.66	16.99	..	37.65
Paper	666.28	5.92	..	672.20
Plastic	7.22	3.71	..	10.93
Rubber	..	35.41	..	35.41
Sugar	709.86	21.73	..	731.59
Textile	513.29	330.07	15.06(H)	858.42
TOTAL	7,225.60	825.71	90.67 (Gas) 15.06 (Hydro)	8,157.04

TABLE No. 30—Contd.

((GWH))

Name of the Industry	Energy used in station Auxiliary	Energy purchased from Utilities	Energy used in Industry
Aluminium (P)	92.86	2,690.47	3,699.45
Aluminium (S)	3.57	61.13	82.52
Automobile	0.58	147.10	159.63
Cement(P)	39.35	1,404.48	1,734.23
Cement(S)	0.66	292.30	301.46
Chemical	32.32	4,525.90	5,011.32
Collieries	16.11	1,307.72	1,461.76
Electrical Engg.	5.45	454.19	524.36
Fertilizer	48.41	3,786.22	4,256.36
Food Products	0.91	274.62	285.59
Heavy Engineering	1.16	562.92	587.40
Iron & Steel(P)	324.46	2,630.52	4,445.57
Iron & Steel(S)	0.69	1,307.35	1,321.46
Jute	8.44	549.70	700.19
Light Engineering	1.57	501.70	541.31
Mineral Oil & Petroleum	54.05	307.16	759.37
Mining & Quarrying	..	66.44	66.50
Miscellaneous	2.48	757.66	797.99
Non-Ferrous	3.04	1,233.00	1,267.61
Paper	65.90	1,043.12	1,617.15
Plastic	1.01	137.32	147.24
Rubber	1.66	149.01	182.76
Sugar	68.41	160.80	823.98
Textile	75.97	4,964.64	5,743.23
TOTAL	849.06	29,315.47	36,519.44

TABLE No. 30—*Concl'd.*

(GWH)

Name of Industry	Energy sold to (GWH)		Aggregate Max. Demand (KW)	
	Utilities	Non-Utilities	Generation	Purchase
Aluminium (P)	124,000	527,950
Aluminium (S)	4,679	19,022
Automobile	8,470	53,414
Cement (P)	..	0.07	88,715	350,859
Cement (S)	4,567	60,552
Chemical	1.83	0.12	125,844	761,436
Collieries	0.83	0.35	43,343	303,906
Electrical Engg.	36,751	170,030
Fertilizer	0.09	1.68	90,688	686,121
Food Products	14,666	75,864
Heavy Engineering	20,138	167,183
Iron & Steel (P)	..	4.30	403,050	622,290
Iron & Steel (S)	9,331	482,708
Jute	..	1.77	68,524	117,314
Light Engineering	22,800	188,080
Mineral Oil & Petroleum	55.24	1.60	98,960	93,348
Mining & Quarrying	150	25,949
Miscellaneous	28,586	213,138
Non-Ferrous	23,875	310,671
Paper	..	32.27	122,526	221,415
Plastic	3,596	38,145
Rubber	13,475	59,033
Sugar	340,859	88,068
Textile	..	3.86	235,882	1,043,509
TOTAL	57.99*	46.02	1,933,474	6,679,985

* This does not include 3.52 GWH energy purchased by A & N Islands Elect. Deptt.

TABLE NO. 31

*Installed Capacity, Electricity Generation and Consumption in Selected Industries
Regionwise/Statewise during 1979-80*

Region	State/Uts.	No. of Industrial units covered	Installed Capacity (KW)			
			Steam	Diesel	Hydro/ Gas	Total
<i>Northern Region</i>	Haryana	64	28,548	33,200	..	61,748
	Himachal Pradesh	4	..	364	..	364
	Jammu & Kashmir	1	..	399	..	399
	Punjab	48	10,642	11,899	..	22,541
	Rajasthan	68	72,204	40,565	..	112,769
	Uttar Pradesh	170	277,306	70,890	..	348,196
	Chandigarh	6	..	2,052	..	2,052
	Delhi	13	29,500	1,682	..	31,182
	SUB—TOTAL	374	418,200	161,051	..	579,251
<i>Western Region</i>	Gujarat	216	125,890	37,032	..	162,922
	Madhya Pradesh	109	164,369	8,346	..	172,715
	Maharashtra	404	151,038	170,814	20,000(G)	341,852
	Goa, Daman & Diu	10	7,500	1,853	..	9,353
	D & N Haveli . . . . .	..	..	..	..	..
	SUB—TOTAL	739	448,797	218,045	20,000	686,842
<i>Eastern Region</i>	Bihar	249	450,370	29,780	..	480,150
	Orissa	34	160,385	2,360	..	162,745
	West Bengal	390	193,225	137,539	..	330,764
	A & N Islands . . . . .	..	..	..	..	..
	Sikkim . . . . .	..	..	..	..	..
	SUB—TOTAL	673	803,980	169,679	..	973,659
<i>Southern Region</i>	Andhra Pradesh	87	134,010	21,775	..	155,785
	Karnataka	116	78,145	57,298	2,612(H)	138,055
	Kerala	56	33,300	6,755	..	40,055
	Tamil Nadu	136	84,260	77,270	..	161,530
	Pondicherry	11	4,395	2,119	..	6,514
	Lakshadweep . . . . .	..	..	..	..	..
	SUB—TOTAL	406	334,110	165,217	2,612	501,939
<i>North Eastern Region</i>	Assam	22	15,025	6,588	342,70(G)	55,883
	Manipur . . . . .	..	..	..	..	..
	Meghalaya	1	..	..	..	..
	Nagaland	1	1,500	..	..	1,500
	Tripura . . . . .	..	..	..	..	..
	Arunachal Pradesh . . . . .	..	..	..	..	..
	Mizoram . . . . .	..	..	..	..	..
	SUB—TOTAL	24	16,525	6,588	34,270	57,383
	TOTAL (ALL INDIA)	2,216	2,021,612	720,580	54,270(G) 2,612(H)	2,79,074

NOTE :— G=Gas
H=Hydro

TABLE NO. 31—Contd.

State/UTs	Aggregate Maximum Demand (KW)		Energy Generation (GWH)			
	Generation	Purchase	Steam	Diesel	Hydro/Gas	Total
Haryana	42,049	127,028	105.43	33.98	..	139.41
Himachal Pradesh	170	3,681	..	0.09	..	0.09
Jammu & Kashmir	250	896	..	0.04	..	0.04
Punjab	11,153	231,397	9.21	6.05	..	15.26
Rajasthan	80,281	256,567	338.12	21.04	..	359.16
Uttar Pradesh	282,466	591,943	1379.39	66.10	..	1445.49
Chandigarh	650	5,922	..	0.23	..	0.23
Delhi	25,600	23,281	139.22	0.07	..	139.29
SUB-TOTAL	442,619	1,240,715	1971.37	127.60	..	2098.97
Gujarat	102,399	677,815	466.75	28.51	..	495.26
Madhya Pradesh	124,958	502,156	694.74	4.18	..	698.92
Maharashtra	240,844	963,008	342.03	310.85	27.52(G)	680.40
Goa, Daman & Diu	6,850	15,691	45.14	0.17	..	45.31
D & N Haveli	..	..	..	..	..	..
SUB-TOTAL	475,051	2,158,670	1548.66	343.71	27.52	1919.89
Bihar	323,892	601,571	1583.24	28.65	..	1611.89
Orissa	124,973	330,135	712.09	0.06	..	712.15
West Bengal	193,754	641,278	500.12	141.65	..	641.77
A & N Islands	..	..	..	..	..	..
Sikkim	..	..	..	..	..	..
SUB-TOTAL	642,619	1,572,984	2795.45	170.36	..	2965.81
Andhra Pradesh	87,973	358,799	330.05	13.57	..	343.62
Karnataka	96,962	588,951	152.16	52.55	15.06(H)	219.77
Kerala	27,526	260,687	89.46	0.30	..	89.76
Tamil Nadu	125,573	429,302	287.10	103.98	..	391.08
Pondicherry	3,240	13,041	5.25	1.21	..	6.46
Lakshadweep	..	..	..	..	..	..
SUB-TOTAL	321,274	1,650,780	864.02	171.61	15.06	1050.69
Assam	30,911	51,316	43.42	12.43	63.15(G)	119.00
Manipur	..	..	..	..	..	..
Meghalaya	..	5,020	..	..	..	..
Nagaland	1,000	500	2.68	..	..	2.68
Tripura	..	..	..	..	..	..
Arunachal Pradesh	..	..	..	..	..	..
Mizoram	..	..	..	..	..	..
SUB-TOTAL	31,911	56,836	46.10	12.43	63.15	121.68
TOTAL (ALL INDIA)	1,933,474	6,679,985	7225.60	825.71	90.67(G) 15.06(H)	8157.04

TABLE NO. 31—Contd.

State/UTs	Energy used in Auxiliaries	Energy Purchased from		Energy used in Industries	Energy sold to	
		Utilities	Non-Utilities		Utilities	Non-Utilities
Haryana	12.92	421.11	..	547.60	..	..
Himachal Pradesh . . . . .	..	10.88	..	10.97	..	..
Jammu & Kashmir . . . . .	..	1.36	..	1.40	..	..
Punjab	1.00	1227.30	..	1241.56	..	..
Rajasthan	23.85	1015.22	..	1350.53	..	..
Uttar Pradesh	123.87	1959.37	..	3280.92	..	0.07
Chandigarh	0.01	18.63	..	18.85	..	..
Delhi	19.17	80.09	..	200.13	..	0.08
SUB-TOTAL	180.82	4733.96	..	6651.96	..	0.15
Gujarat	34.57	4119.30	..	4564.28	14.73	0.98
Madhya Pradesh	104.19	2565.08	..	3154.91	..	4.90
Maharashtra	48.62	4334.53	..	4964.69	..	1.62
Goa, Daman & Diu	0.57	58.49	..	103.23	..	..
Dadra & Nagar Haveli . . . . .	..	..	..	..	..	..
SUB-TOTAL	187.95	11077.40	..	12787.11	14.73	7.50
Bihar	241.86	2425.89	..	3793.84	0.40	1.68
Orissa	68.86	1345.56	..	1987.21	..	1.64
West Bengal	71.24	2395.99	..	2964.75	..	1.77
A & N Islands . . . . .	..	..	..	..	..	..
Sikkim . . . . .	..	..	..	..	..	..
SUB-TOTAL	381.96	6167.44	..	8745.80	0.40*	5.09
Andhra Pradesh	29.69	1415.40	..	1695.88	0.83	32.62
Karnataka	16.57	2366.35	..	2569.55	..	..
Kerala	9.90	1161.37	..	1241.23	..	..
Tamil Nadu	34.30	2117.34	..	2474.12	..	..
Pondicherry	0.57	50.26	..	56.15	..	..
Lakshadweep . . . . .	..	..	..	..	..	..
SUB-TOTAL	91.03	7110.72	..	8036.93	0.83	32.62
Assam	7.03	215.23	..	284.51	42.03	0.66
Manipur . . . . .	..	..	..	..	..	..
Meghalaya . . . . .	..	10.53	..	10.53	..	..
Nagaland	0.27	0.19	..	2.60	..	..
Tripura . . . . .	..	..	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..	..	..
Mizoram . . . . .	..	..	..	..	..	..
SUB-TOTAL	7.30	225.95	..	297.64	42.03	0.66
TOTAL (ALL INDIA)	849.06	29315.47	..	36,519.44	57.99*	46.02

*This does not include 3.52 GWH energy purchased by A & N Islands, Electricity Department.

TABLE No. 32

Energy Consumption Selected Industries
Regionwise/Statewise During 1979-80

(GWH)				
Region	State/UTs	Aluminium (P)	Aluminium (S)	Automobile
<i>Northern Region</i>	Haryana . . . . .	..	1.01	9.03
	Himachal Pradesh . . . . .	..	..	..
	Jammu & Kashmir . . . . .	..	..	..
	Punjab . . . . .	..	..	12.73
	Rajasthan . . . . .	..	..	..
	Uttar Pradesh	1440.75	..	..
	Chandigarh . . . . .	..	..	..
	Delhi . . . . .	..	..	..
	SUB-TOTAL	1440.75	1.01	21.76
<i>Western Region</i>	Gujarat . . . . .	..	..	..
	Madhya Pradesh	647.99	..	2.08
	Maharashtra . . . . .	..	25.07	57.61
	Goa, Daman & Diu . . . . .	..	..	..
	Dadra, Nagar Haveli . . . . .	..	..	..
		SUB-TOTAL	647.99	25.07	59.69
<i>Eastern Region</i>	Bihar . . . . .	..	19.89	..
	Orissa	216.66	3.96	..
	West Bengal	5.91	25.22	55.60
	A & N Islands . . . . .	..	..	..
	Sikkim . . . . .	..	..	..
		SUB-TOTAL	222.57	49.07	55.60
<i>Southern Region</i>	Andhra Pradesh . . . . .	..	..	..
	Karnataka	686.48	2.59	22.58
	Kerala	243.63	5.78	..
	Tamil Nadu	458.03	..	..
	Pondicherry . . . . .	..	..	..
	Lakshadweep . . . . .	..	..	..
	SUB-TOTAL	1388.14	8.37	22.58
<i>North Eastern Region</i>	Assam . . . . .	..	..	..
	Manipur . . . . .	..	..	..
	Meghalaya . . . . .	..	..	..
	Nagaland . . . . .	..	..	..
	Tripura . . . . .	..	..	..
	Arunachal Pradesh . . . . .	..	..	..
	Mizoram . . . . .	..	..	..
		SUB-TOTAL
	TOTAL (ALL INDIA)	3,699.45	83.52	159.63

Note : P=Primary S=Secondary.

TABLE NO. 32—Contd.

State/UTs	Cement(P)	Cement(S)	Chemicals	Collieries
Haryana	49.92	10.97	11.93	..
Himachal Pradesh . . . . .	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	..
Punjab . . . . .	..	..	4.95	..
Rajasthan	188.14	..	188.50	..
Uttar Pradesh	73.76	..	280.30	4.92
Chandigarh . . . . .	..	..	7.51	..
Delhi . . . . .	..	..	135.50	..
SUB-TOTAL	311.82	10.97	628.69	4.92
Gujarat	170.63	39.82	1930.87	..
Madhya Pradesh	243.05	161.14	262.92	281.87
Maharashtra	50.86	18.41	698.36	63.27
Goa, Daman & Diu . . . . .	..	..	62.92	..
Dadra & Nagar Haveli . . . . .	..	..	..	..
SUB-TOTAL	464.54	219.37	2955.07	345.14
Bihar	253.49	..	29.51	541.83
Orissa	52.88	54.98	44.93	44.55
West Bengal	28.57	5.88	247.32	292.40
A & N Islands . . . . .	..	..	..	..
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	334.94	60.86	321.76	878.78
Andhra Pradesh	151.48	..	160.90	227.81
Karnataka	187.62	..	268.51	..
Kerala	7.63	..	295.98	..
Tamil Nadu	247.45	4.86	378.37	..
Pondicherry . . . . .	..	..	..	..
Lakshadweep . . . . .	..	..	..	..
SUB-TOTAL	594.18	4.86	1103.76	227.81
Assam	18.22	5.40	2.04	5.11
Manipur . . . . .	..	..	..	..
Meghalaya	10.53	..	..	..
Nagaland . . . . .	..	..	..	..
Tripura . . . . .	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL	28.75	5.40	2.04	5.11
TOTAL (ALL INDIA)	1,734.23	301.46	5,011.32	1,461.76

TABLE NO. 32—Contd.

Name of State/UTs	Electrical Engineering	Fertilizer	Food Products	Heavy Engg.
Haryana	12.20	101.21	2.82	..
Himachal Pradesh . . . . .	..	..	0.54	..
Jammu & Kashmir . . . . .	..	..	..	..
Punjab	0.28	943.38	24.40	..
Rajasthan	4.68	300.49	20.33	3.14
Uttar Pradesh	90.72	472.09	35.62	28.26
Chandigarh	1.00	..	..	..
Delhi . . . . .	..	..	11.11	..
SUB-TOTAL	108.88	1,817.17	94.82	31.40
Gujarat	17.18	446.52	35.88	..
Madhya Pradesh	61.90	..	14.71	..
Maharashtra	156.72	387.00	46.41	66.38
Goa, Daman & Diu . . . . .	..	..	..	..
Dadra & Nagar Haveli . . . . .	..	..	..	..
SUB-TOTAL	235.80	833.52	97.00	66.38
Bihar	11.63	297.90	..	279.31
Orissa . . . . .	..	124.65	..	18.50
West Bengal	30.86	97.72	21.64	78.89
A & N Islands . . . . .	..	..	..	..
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	42.49	520.27	21.64	376.70
Andhra Pradesh	31.92	134.63	19.71	39.33
Karnataka	74.21	..	16.48	47.47
Kerala	5.70	378.29	20.77	..
Tamil Nadu	25.36	428.73	12.46	26.12
Pondicherry . . . . .	..	..	1.15	..
Lakshadweep . . . . .	..	..	..	..
SUB-TOTAL	137.19	941.65	70.57	112.92
Assam . . . . .	..	143.75	1.56	..
Manipur . . . . .	..	..	..	..
Meghalaya . . . . .	..	..	..	..
Nagaland . . . . .	..	..	..	..
Tripura . . . . .	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL . . . . .	..	143.75	1.56	..
TOTAL (ALL INDIA)	524.36	4,256.36	285.59	587.40

TABLE NO. 32—Contd.

State/UTs	Iron & Steel (P)	Iron & Steel (S)	Jute	Light Engg.
Haryana . . . . .	..	37.28	..	36.35
Himachal Pradesh . . . . .	..	9.49	..	..
Jammu & Kashmir . . . . .	..	..	..	1.40
Punjab . . . . .	..	104.39	..	28.73
Rajasthan . . . . .	..	39.62	0.83	70.68
Uttar Pradesh . . . . .	..	89.98	15.73	24.00
Chandigarh . . . . .	..	..	..	2.61
Delhi . . . . .	..	3.08	..	..
SUB-TOTAL . . . . .	..	283.84	16.56	163.77
Gujarat . . . . .	..	106.37	..	21.55
Madhya Pradesh	687.62	69.67	..	12.47
Maharashtra . . . . .	..	285.18	..	160.97
Goa, Daman & Diu . . . . .	..	..	..	..
Dadra & Nagar Haveli . . . . .	..	..	..	..
SUB-TOTAL	687.62	461.22	..	194.99
Bihar	1,793.24	241.03	12.53	..
Orissa	1,011.34	1.57	..	..
West Bengal	561.20	215.63	639.08	38.59
Andaman & Nicobar Islands . . . . .	..	..	..	..
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	3,365.78	458.23	651.61	38.59
Andhra Pradesh . . . . .	..	32.02	32.02	6.91
Karnataka	392.17	58.77	..	108.39
Kerala . . . . .	..	24.21	..	1.94
Tamil Nadu . . . . .	..	2.93	..	26.72
Pondicherry . . . . .	..	0.24	..	..
Lakshadweep . . . . .	..	..	..	..
SUB-TOTAL	392.17	118.17	32.02	143.96
Assam . . . . .	..	..	..	..
Manipur . . . . .	..	..	..	..
Meghalaya . . . . .	..	..	..	..
Nagaland . . . . .	..	..	..	..
Tripura . . . . .	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL . . . . .	..	..	..	..
TOTAL (ALL INDIA)	4,445.57	1,321.46	700.19	541.31

TABLE No. 32—Contd.

State/UTs	Mineral Oil & Petroleum	Mining & Quarrying	Miscellaneous	Non-Ferrous
Haryana . . . . .	..	..	31.26	0.66
Himachal Pradesh . . . . .	..	..	0.94	..
Jammu & Kashmir . . . . .	..	..	..	..
Punjab . . . . .	..	..	15.04	..
Rajasthan . . . . .	..	1.56	..	310.65
Uttar Pradesh . . . . .	..	..	115.25	..
Chandigarh . . . . .	..	..	7.73	..
Delhi . . . . .	..	..	2.54	..
SUB—TOTAL . . . . .	..	1.56	172.76	311.31
Gujarat	146.83	0.05	9.09	..
Madhya Pradesh . . . . .	..	1.68	103.37	3.69
Maharashtra	188.50	..	235.57	106.57
Goa, Daman & Diu . . . . .	..	31.21	6.11	..
Dadra & Nagar Haveli . . . . .	..	..	..	..
SUB—TOTAL	335.33	32.94	354.14	110.26
Bihar	92.80	..	71.76	118.54
Orissa . . . . .	..	25.20	..	135.59
West Bengal	90.23	..	122.68	..
Andaman & Nicobar . . . . .	..	..	..	..
Sikkim . . . . .	..	..	..	..
SUB—TOTAL	183.03	25.20	194.44	254.13
Andhra Pradesh	18.39	..	12.41	322.14
Karnataka . . . . .	..	6.80	45.15	269.77
Kerala	38.60	..	7.56	..
Tamil Nadu	114.91	..	10.11	..
Pondicherry . . . . .	..	..	..	..
Lakshadweep . . . . .	..	..	..	..
SUB—TOTAL	171.90	6.80	75.23	591.91
Assam	69.11	..	1.42	..
Manipur . . . . .	..	..	..	..
Meghalaya . . . . .	..	..	..	..
Tripura . . . . .	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB—TOTAL	69.11	..	1.42	..
TOTAL (ALL INDIA)	759.37	66.50	797.99	1,267.61

TABLE No. 32—Contd.

State/UTs	Paper	Plastic	Rubber
Haryana	108.59	..	29.09
Himachal Pradesh . . . . .	..	..	..
Jammu & Kashmir . . . . .	..	..	..
Punjab . . . . .	..	..	..
Rajasthan	0.81	..	..
Uttar Pradesh	44.53	..	35.67
Chandigarh . . . . .	..	..	..
Delhi . . . . .	..	..	..
SUB—TOTAL	153.93	..	64.76
Gujarat	82.70	..	..
Madhya Pradesh	242.75	..	..
Maharashtra	170.29	115.93	53.53
Goa, Daman & Diu . . . . .	..	..	..
D & N Haveli . . . . .	..	..	..
SUB—TOTAL	495.74	115.93	53.53
Bihar	5.79	..	..
Orissa	194.59	..	..
West Bengal	248.03	0.56	16.20
A & N Islands . . . . .	..	..	..
Sikkim . . . . .	..	..	..
SUB—TOTAL	448.41	0.56	16.20
Andhra Pradesh	277.76	13.24	..
Karnataka	104.63	..	1.86
Kerala	22.30	..	24.62
Tamil Nadu	70.30	17.51	21.79
Pondicherry	7.53	..	..
Lakshadweep . . . . .	..	..	..
SUB—TOTAL	482.52	30.75	48.27
Assam	36.55	..	..
Manipur . . . . .	..	..	..
Meghalaya . . . . .	..	..	..
Tripura . . . . .	..	..	..
Arunachal Pradesh . . . . .	..	..	..
Mizoram . . . . .	..	..	..
SUB—TOTAL	36.55	..	..
TOTAL (ALL INDIA)	1,617.15	147.24	182.76

TABLE NO. 32—Contd.

State/UTs	Sugar	Textile	Total
Haryana	25.28	80.00	547.60
Himachal Pradesh . . . . .	..	..	10.97
Jammu & Kashmir . . . . .	..	..	1.40
Punjab	11.47	96.19	1,241.56
Rajasthan	2.47	218.63	1,350.53
Uttar Pradesh	212.42	316.92	3,280.92
Chandigarh . . . . .	..	..	18.85
Delhi . . . . .	..	47.90	200.13
SUB—TOTAL	251.64	759.64	6,651.96
Gujarat	46.20	1,510.59	4,564.28
Madhya Pradesh	7.67	350.33	3,151.91
Maharashtra	242.40	1,835.66	4,964.69
Goa, Daman & Diu . . . . .	..	2.99	103.23
D & N Haveli . . . . .	..	..	..
SUB—TOTAL	296.27	3,699.57	12,787.11
Bihar	19.35	5.24	3,793.84
Orissa	30.55	27.56	1,987.21
West Bengal	0.16	142.38	2,964.75
A & N Islands . . . . .	..	..	..
Sikkim . . . . .	..	..	..
SUB—TOTAL	50.06	174.88	8,745.80
Andhra Pradesh	54.35	160.86	1,695.88
Karnataka	66.32	209.75	2,569.55
Kerala	7.55	156.67	1,241.23
Tamil Nadu	88.44	540.03	2,474.12
Pondicherry	5.40	41.83	56.15
Lakshadweep . . . . .	..	..	..
SUB—TOTAL	222.06	1,109.14	8,036.93
Assam	1.35	..	284.51
Manipur . . . . .	..	..	..
Meghalaya . . . . .	..	..	10.53
Nagaland	2.60	..	2.60
Tripura . . . . .	..	..	..
Arunachal Pradesh . . . . .	..	..	..
Mizoram . . . . .	..	..	..
SUB—TOTAL	3.95	..	297.64
TOTAL (ALL INDIA)	823.98	5,743.23	36,519.44

TABLE NO. 33

Classification of captive Plants-Capacitywise during 1979-80

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	714	301.17	10.76	293.66	3.60
Over 1.00 upto 10.00	427	1,168.69	41.75	2,245.71	27.53
Over 10.00 upto 25.00	28	451.54	16.13	1,576.91	19.33
Above 25.00	12	877.67	31.36	4,040.76	49.54
TOTAL	1,181	2,799.07	100.00	8,157.04	100.00

TABLE NO. 34

*Installed Plant Capacity and Electricity Generation by The Railways—
Regionwise/Statewise during the year 1979-80.*

Region	Name of State/UTs	Installed Plant Capacity(KW)		
		Steam	Diesel	Total
<i>Northern Region</i>	Haryana . . . . .	..	1,096	1,096
	Himachal Pradesh . . . . .	..	..	..
	Jammu & Kashmir . . . . .	..	160	160
	Punjab . . . . .	..	1,512	1,512
	Rajasthan	2,000	4,344	6,344
	Uttar Pradesh	5,500	7,200	12,700
	Delhi . . . . .	..	829	829
	SUB—TOTAL	7,500	15,141	22,641
<i>Western Region</i>	Gujarat	2,500	1,800	4,300
	Madhya Pradesh . . . . .	..	625	625
	Maharashtra . . . . .	..	1,748	1,748
	SUB—TOTAL	2,500	4,173	6,673
<i>Eastern Region</i>	Bihar	2,800	2,604	5,404
	West Bengal	7,160	8,712	15,872
	SUB—TOTAL	9,960	11,316	21,276
<i>Southern Region</i>	Andhra Pradesh . . . . .	..	1,333	1,333
	Karnataka . . . . .	..	1,545	1,545
	Kerala . . . . .	..	115	115
	Tamil Nadu . . . . .	..	960	960
	SUB—TOTAL . . . . .	..	3,953	3,953
<i>North Eastern Region</i>	Assam . . . . .	..	5,743	5,743
	Nagaland . . . . .	..	150	150
	Tripura . . . . .	..	..	..
	SUB—TOTAL . . . . .	..	5,893	5,893
	TOTAL(ALL INDIA)	19,960	40,476	60,436

TABLE NO. 34—Contd.

Name of State/UTs.	Maximum demand (KVA)	Electricity Generation (Gwh)			Energy used in Auxiliaries (GWH)
		Steam	Diesel	Total	
Haryana	600	..	0.35	0.35	Neg.
Himachal Pradesh . . . . .	..	..	..	..	..
Jammu & Kashmir	120	..	0.03	0.03	Neg.
Punjab	1,240	..	0.27	0.27	Neg.
Rajasthan	3,007	1.29	1.06	2.35	0.01
Uttar Pradesh	6,664	4.60	1.36	5.96	0.27
Delhi	373	..	0.03	0.03	Neg.
SUB—TOTAL	12,004	5.89	3.10	8.99	0.28
Gujarat	14,89	6.05	0.04	6.09	0.48
Madhya Pradesh	410	..	0.06	0.06	Neg.
Maharashtra	1,085	..	0.16	0.16	Neg.
SUB—TOTAL	2,914	6.05	0.26	6.31	0.48
Bihar	4,959	7.91	0.94	8.85	1.03
West Bengal	4,843	5.78	4.20	9.98	0.80
SUB—TOTAL	9,802	13.69	5.14	18.83	1.83
Andhra Pradesh	679	..	0.10	0.10	..
Karnataka	922	..	0.11	0.11	..
Kerala	80	..	..	..	..
Tamil Nadu	542	..	0.19	0.19	Neg.
SUB—TOTAL	2,223	..	0.40	0.40	..
Assam	3,535	..	1.13	1.13	0.11
Nagaland	75	..	0.01	0.01	Neg.
Tripura . . . . .	..	..	..	..	..
SUB—TOTAL	3,610	..	1.14	1.14	0.11
TOTAL (ALL INDIA)	30,623	25.63	10.04	35.67	2.70

TABLE NO. 35

*Zonewise installed Plant Capacity and Electricity Generation by the Railways—
during the year 1979-80.*

Sl. No.	Name of Railways	Installed Capacity (KW)		
		Steam	Diesel	Total
1.	Central Railways (R)	..	3909	3,909
2.	Eastern Railways	2,800	3,500	6,300
3.	Northern Railways	2,500	9,803	12,303
4.	Northern Eastern Railways (R)	3,000	1,125	4,125
5.	North East Frontier Railways (R)	..	9,558	9,558
6.	Southern Railways	..	1,165	1,165
7.	South Central Railways	..	2,722	2,722
8.	South Eastern Railway	7,160	4,026	11,186
9.	Western Railways	4,500	4,668	9,168
	Total	19,960	40,476	60,436

Note : —

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

TABLE NO. 35—Contd.

Sl. No.	Maximum Demand (KVA)	Electricity Generation (GWH)			Energy used in Auxiliaries (GWH)
		Steam	Diesel	Total	
1.	2740	..	0.49	0.49	0.04
2.	4875	7.91	0.95	8.86	1.03
3.	6476	4.61	1.94	6.45	0.22
4.	2612	Neg.	0.07	0.07	Neg.
5.	5800	..	5.33	5.33	0.34
6.	652	..	0.19	0.19	Neg.
7.	1461	..	0.19	0.19	Neg.
8.	2125	5.78	..	5.78	0.57
9.	3882	7.33	0.88	8.21	0.50
TOTAL	30623	25.63	10.04	35.67	2.70

SECTION V
ELECTRIC POWER SUPPLY & SYSTEM LOSSES

ELECTRIC POWER SUPPLY & SYSTEM LOSSES

During the year 1979-80 gross electricity generation was 104627.26 Gwh, out of this 6495.15 Gwh was used in power station auxiliaries which represents 6.21% of the gross electricity generation. This net generation at the bus-bar was 98132.11 Gwh. Electricity purchased by Public Utilities from captive plants was 61.51 Gwh and electricity imported from Nepal was 6.00 Gwh. Thus the total electricity available for supply during the year was 98199.62 Gwh compared to 96702.05 Gwh during the year 1978-79.

Electricity sold to various classes of consumers during the year was 78082.97 Gwh and exported to outside the country i.e. Nepal and Bhutan was 40.06 Gwh. The electricity lost in transformation, transmission and distribution system and electricity unaccounted for worked out to 20076.59 Gwh representing 20.44% of the total electricity available. Percentage system losses during the year 1979-80 were slightly higher than the corresponding figure of 20.02% during 1978-79. Amongst all the regions percentage system losses were maximum in Northern Region (22.62%). This was followed by Southern Region (21.66%), North Eastern Region (21.56%); Western Region (18.23%) and Eastern Region (17.25%).

The various tables in this section represents the region wise, State wise and Board wise, T. & D. losses transfer of electricity between different systems, electricity 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 1979-80

Sl. No.	Item	Energy (GWH)	Percentage of item 6
1	Energy generated (Gross)(utilities)	104,627.26	106.54
2	Energy used in power station auxiliaries	6,495.15	6.61
3	Energy generated (Net) i.e. (1)–(2)	98,132.11	99.93
4	Energy purchased from non-utilities	61.51	0.06
5	Energy imported from other countries (Nepal)	6.00	0.01
6	Energy available for supply [(i.e. (3) – (4) + (5)]	98,199.62	100.00
7	Energy sold to ultimate consumers	78,082.97	79.52
8	Energy sold to other countries (Nepal & Bhutan)	40.06	0.04
9	Total energy sold i.e. [(7) + (8)]	78,123.03	79.56
10	Energy lost in transformation transmission & distribution and unaccounted for i.e. [(6)–(9)]	20,076.59	20.44

TABLE NO. 37

Energy loss in transmission and distribution system
Regionwise during 1979-80

Region	(GWH)				
	Northern	Western	Eastern	Southern	North Eastern
I. Energy generated net	27,563.13	29,754.39	13,949.89	25,992.48	872.22
<i>II. Energy purchased</i>					
(a) from non-utilities	..	14.73	3.92	0.83	42.03
(b) from other regions	..	633.67	327.39	26.01	..
(c) from other countries	..	..	6.00	..	..
SUB-TOTAL-II	..	648.40	337.31	26.84	42.03
II. Total energy available (I + II)	27,563.13	30,402.79	14,287.20	26,019.32	914.25
<i>IV. Sales :</i>					
(a) to ultimate consumers	20,743.81	24,834.48	11,781.53	20,007.24	715.91
(b) to other regions	573.87	24.91	12.85	375.44	..
(c) to other countries	11.50	..	27.37	..	1.19
SUB-TOTAL IV	21,329.18	24,859.39	11,821.75	20,382.68	717.10
V. Energy lost in transmission & distribution unaccounted for	6,233.95	5,543.40	2,465.45	5,636.64	197.15
VI. Percentage energy loss (V/III)	22.62	18.23	17.25	21.66	21.56

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 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), intersystem transfer of power, utilisation of energy and system losses
Regionwise/Statewise during 1979-80

(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 and Central Govt. Projects (except B.B.M.B. & D.V.C.)	Self generating industries	From other states including B.B.M.B. & D.V.C.
1	2	3	4	5	6
Northern Region	Haryana	441.43	404.43	..	2,558.73
	Himachal Pradesh	352.97	16.96	..	249.28
	Jammu & Kashmir	682.69	39.15	..	126.32
	Punjab	1,474.57	11.36	..	4,771.14
	Rajasthan	22.81	2,194.56	..	2,179.80
	Uttar Pradesh	9,319.09	75.53	..	331.19
	Chandigarh	0.04	7.32	..	199.61
	Delhi	657.90	1,697.80	..	104.65
	B.B.M.B.	9,883.42	..	..	..
Western Region	Gujarat	8,009.71	798.80	14.73	14.78
	Madhya Pradesh	3,529.99	1,998.52	..	97.19
	Maharashtra	14,648.03	1,050.44	..	93.34
	Goa, Daman & Diu . . . . .	..	..	..	358.72
	Dadra & Nagar Haveli . . . . .	..	..	..	6.36
Eastern Region	Bihar	2,284.59	..	0.31	2,851.84
	Orissa	2,391.81	321.67	..	60.35
	West Bengal	4,922.89	..	..	1,793.97
	D.V.C.	4,098.58	..	0.09	279.56
	Andaman & Nicobar Islands	6.22	..	3.52	..
	Sikkim	5.05	..	..	..
Southern Region	Andhra Pradesh	5,328.30	640.24	0.83	104.20
	Karnataka	5,395.36	102.70	..	1,096.81
	Kerala	5,084.91	..	..	49.70
	Tamil Nadu	7,263.97	2,095.00	..	973.50
	Pondicherry . . . . .	..	..	..	142.72
	Lakshadweep	1.08	..	..	..
North Eastern Region	Assam	494.00	..	42.03	255.33
	Manipur	15.56	..	..	0.42
	Meghalaya	310.48	..	..	..
	Nagaland	1.92	..	..	24.79
	Tripura	38.90	..	..	1.10
	Arunachal Pradesh	9.91	..	..	1.43
	Mizoram	1.45	..	..	1.63

TABLE NO. 38—Contd.

Name of State/U. Ts.	Energy available in the State (3+4+5+6)	Energy Sent Out To/Sold To		
		Other States	Ultimate consumers within the State	Total(8+9)
	7	8	9	10
Haryana	3,404.59	91.86	2,354.59	2,446.45
Himachal Pradesh	619.21	274.29	233.23	507.52
Jammu and Kashmir	848.16	37.01	420.85	457.86
Punjab	6,257.07	102.02	4,914.70	5,016.72
Rajasthan	4,397.17	336.62	2,974.41	3,311.03
Uttar Pradesh	9,725.81	263.27	7,610.70	7,873.97
Chandigarh	206.97	..	152.18	152.18
Delhi	2,460.35	..	2,083.15	2,083.15
B.B.M.B.	9,883.42	9,719.92	..	9,719.92
Gujarat	8,838.02	36.00	7,305.97	7,341.97
Madhya Pradesh	5,625.70	13.77	4,346.62	4,360.39
Maharashtra	15,791.81	192.96	12,919.83	13,112.79
Goa, Daman & Diu	358.72	..	257.43	257.43
Dadra and Nagar Haveli	6.36	..	4.63	4.63
Bihar	5,136.74	264.13	3,941.07	4,205.20
Orissa	2,773.83	84.78	2,180.58	2,265.36
West Bengal	6,716.87	1,06.52	5,648.16	5,754.68
D.V.C.	4,378.23	4,318.04	..	4,318.04
Andaman & Nicobar Islands	9.74	..	7.72	7.72
Sikkim	5.05	..	4.00	4.00
Andhra Pradesh	6,073.57	152.63	4,532.97	4,685.60
Karnataka	6,594.87	351.19	4,853.88	5,205.07
Kerala	5,134.61	1,933.80	2,356.14	4,289.94
Tamil Nadu	10,332.47	197.82	8,141.29	8,339.11
Pondicherry	142.72	..	122.04	122.04
Lakshadweep	1.08	..	0.92	0.92
Assam	791.36	29.36	609.80	639.16
Manipur	15.98	..	8.43	8.43
Meghalaya	310.48	251.84	45.23	297.07
Nagaland	26.71	0.20	17.85	18.05
Tripura	39.00	1.39	25.15	26.54
Arunachal Pradesh	11.34	2.10	7.24	9.34
Mizoram	3.08	..	2.21	2.21

TABLE NO. 38—Contd.

Name of State/UTs	Transformation, Transmission Distribution losses & energy unaccounted for	
	(GWH) (7-10)	% of Column 7
	11	12
Haryana	958.14	28.14
Himachal Pradesh	111.69	18.04
Jammu and Kashmir	390.30	46.02
Punjab	1,240.35	19.82
Rajasthan	1,086.14	24.70
Uttar Pradesh	1,851.84	19.04
Chandigarh	54.79	26.47
Delhi	377.20	15.33
B.B.M.B.	163.50	1.65
NORTHERN REGION	6233.95	22.62
Gujarat	1,496.05	16.93
Madhya Pradesh	1,265.31	22.49
Maharashtra	2,679.02	16.97
Goa, Daman & Diu	101.29	28.24
Dadra and Nagar Haveli	1.73	27.20
WESTERN REGION	5543.40	18.23
Bihar	931.54	18.13
Orissa	508.47	18.33
West Bengal	962.18	14.32
D.V.C.	60.19	1.37
Andaman & Nicobar Islands	2.02	20.74
Sikkim	1.05	20.81
EASTERN REGION	2,465.45	17.25
Andhra Pradesh	1,387.97	22.85
Karnataka	1,389.80	21.07
Kerala	844.67	16.45
Tamil Nadu	1,993.36	19.29
Pondicherry	20.68	14.49
Lakshadweep	0.16	14.81
SOUTHERN REGION	5,636.64	21.66
Assam	152.20	19.23
Manipur	7.55	47.21
Meghalaya	13.41	4.32
Nagaland	8.66	32.12
Tripura	12.46	31.95
Arunachal Pradesh	2.00	17.64
Mizoram	0.87	28.25
NORTH-EASTERN REGION	197.15	21.56
ALL INDIA	20,076.59	20.44

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 1979-80.

(GWH)

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	441.43	404.43	2,558.73
Himachal Pradesh	352.97	..	249.28
Jammu & Kashmir	682.69	21.30	126.32
Punjab	1,474.57	11.36	3,915.02
Rajasthan	22.81	2,179.11	2,179.80
Uttar Pradesh	9,319.09	75.53	331.19
B.B.M.B.	9,883.42	..	..
D.E.S.U.	657.90	1,694.90	104.65
<i>Western Region</i>			
Gujarat	6,670.42	803.77	14.78
Madhya Pradesh	3,529.99	1,998.52	97.19
Maharashtra	11,332.83	1,782.16	93.34
<i>Eastern Region</i>			
Bihar	2,284.59	..	1,498.71
Orissa	2,391.81	321.67	60.35
West Bengal	2,643.51	402.62	422.57
D.V.C.	4,098.58	..	279.56
<i>Southern Region</i>			
Andhra Pradesh	5,328.30	629.42	104.20
Karnataka	5,395.36	99.99	1,096.81
Kerala	5,084.91	..	49.70
Tamil Nadu	7,263.97	1,767.00	973.51
<i>North Eastern Region</i>			
Assam	494.00	..	255.33
Meghalaya	310.48	..	..

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	
			Licensees within the State	Other Boards/Undertakings/D.V.C.
1	5	6	7	8
Haryana . . . . .	..	3,404.59	..	91.86
Himachal Pradesh . . . . .	..	602.25	..	274.29
Jammu & Kashmir . . . . .	..	830.31	..	37.01
Punjab . . . . .	..	5,400.95	156.30	102.02
Rajasthan . . . . .	..	4,381.72	7.00	336.62
Uttar Pradesh . . . . .	..	9,725.81	40.27	263.27
B.B.M.B. . . . .	..	9,883.42	..	9,719.92
D.E.S.U. . . . .	..	2,457.45	398.00	..
Gujarat	14.73	7,503.70	1,094.44	36.00
Madhya Pradesh . . . . .	..	5,625.70	17.41	13.77
Maharashtra . . . . .	..	13,208.33	4,092.49	192.96
Bihar	0.31	3,783.61	12.14	264.13
Orissa . . . . .	..	2,773.83	6.26	84.78
West Bengal . . . . .	..	3,468.70	1,346.47	4.00
D.V.C.	0.09	4,378.23	..	4,318.04
Andhra Pradesh	0.83	6,062.75	66.60	152.63
Karnataka . . . . .	..	6,592.16	19.08	351.19
Kerala . . . . .	..	5,134.61	79.90	1,933.90
Tamil Nadu . . . . .	..	10,004.47	190.59	197.82
Assam	42.03	791.36	..	29.36
Meghalaya . . . . .	..	310.48	..	251.84

TABLE NO. 39—Contd.

Name of the Board/Undertaking	Energy sold to Ultimate Consumers	Total Sold (7-8-9)	Transformation, & Distribution unaccounted for	Transmission losses & energy
			(GWH)(6-10)	% of Col. 6
1	9	10	11	12
Haryana	2,354.59	2,446.45	958.14	28.14
Himachal Pradesh	216.27	490.56	111.69	18.55
Jammu & Kashmir	403.00	440.01	390.30	47.01
Punjab	3,927.21	4,185.53	1,215.42	22.50
Rajasthan	2,969.00	3,312.62	1,069.10	24.40
Uttar Pradesh	7,573.94	7,877.48	1,848.33	19.00
B.B.M.B. . . . .	..	9,719.92	163.50	1.65
D.E.S.U.	1,723.00	2,121.00	336.45	13.69
Gujarat	5,119.69	6,250.13	1,253.57	16.71
Madhya Pradesh	4,334.45	4,365.63	1,260.07	22.40
Maharashtra	6,796.28	11,081.73	2,126.60	16.10
Bihar	2,579.23	2,855.50	928.11	24.53
Orissa	2,175.48	2,266.52	507.31	18.29
West Bengal	1,692.02	3,042.49	426.21	12.29
D.V.C. . . . .	..	4,318.04	60.19	1.37
Andhra Pradesh	4,486.04	4,705.27	1,357.48	22.39
Karnataka	4,839.13	5,209.40	1,382.76	20.97
Kerala	2,304.41	4,318.11	816.50	15.90
Tamil Ndu	7,657.19	8,045.60	1,958.87	19.58
Assam	609.80	639.16	152.20	19.23
Meghalaya	45.23	297.07	13.41	4.32

NOTE : For details of inter-state transfer of energy please see Table No. 44.

TABLE NO. 40

Statement showing Pilferage/Misuse of energy as reported by State Electricity Boards during 1979-80

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)
<i>Northern Region</i>	Haryana	N.A.	N.A.	N.A.
	Himachal Pradesh	N.A.	N.A.	N.A.
	Jammu & Kashmir	N.A.	N.A.	N.A.
	Punjab	6,027	694	4.48
	Rajasthan	7,451	240	0.99
	Uttar Pradesh	29,147	3,629	6.40
<i>Western Region</i>	Gujarat	4,077	1,357	3.27
	Madhya Pradesh	479,883	1,174	N.A.
	Maharashtra	4,301	2,643	N.A.
<i>Eastern Region</i>	Bihar	2,053	1,687	N.A.
	Orissa	NIL	NIL	NIL
	West Bengal	N.A.	N.A.	N.A.
<i>Southern Region</i>	Andhra Pradesh	8,182	3,800	7.04
	Karnataka	N.A.	N.A.	N.A.
	Kerala	N.A.	N.A.	N.A.
	Tamil Nadu	1,9010	1,158	0.43
<i>North Eastern Region</i>	Assam	91	3	0.005
	Meghalaya	145	23	0.003

NOTE :--N.A.--Data not available.

TABLE NO. 41

*Maximum demand & net energy generation (UTILITIES ONLY)**Prime moverwise--Regionwise/Statewise during 1979-80*

Region	Name of State/UTs	TOTAL			
		Aggregate Maximum Demand (MW)	Net Generation (GWH)	Auxiliary consumption (GWH)	% to Gross Generation
<i>Northern Region</i>	Harayana . . .	960.59	3,843.61	124.84	3.15
	Himachal Pradesh . . .	95.67	352.97	1.94	0.55
	Jammu & Kashmir . . .	151.61	682.69	7.07	1.02
	Punjab . . .	1,589.91	6,071.51	163.22	2.62
	Rajasthan . . .	795.92	3,652.88	72.52	1.95
	Uttar Pradesh . . .	2,641.88	9,319.09	804.75	7.95
	Chandigarh . . .	1.00	0.04	0.02	33.33
	Delhi . . .	250.83	1,333.06	133.68	9.11
	Central Sector . . .	685.00	2,307.28	356.03	13.37
SUB-TOTAL . . .	7,172.41	27,563.13	1,664.17	5.69	
<i>Western Region</i>	Gujarat . . .	1,756.10	8,009.71	842.25	9.51
	Madhya Pradesh . . .	1,161.20	5,247.41	474.97	8.30
	Maharashtra . . .	2,487.50	14,648.03	855.51	5.52
	Goa, Daman & Diu . . .	..	..	..	..
	D. & N. Haveli . . .	..	..	..	..
	Central Sector . . .	334.25	1,849.24	149.79	7.49
	SUB-TOTAL . . .	5,739.05	29,754.39	2,322.52	7.24
<i>Eastern Region</i>	Bihar . . .	539.77	2,284.59	356.59	9.71
	Orissa . . .	637.00	2,632.56	93.27	3.42
	West Bengal . . .	1,166.27	4,922.89	471.08	8.73
	D.V.C. . . .	958.10	4,098.58	521.16	11.28
	A & N Islands . . .	2.70	6.22	0.47	7.02
	Sikkim . . .	1.45	5.05	0.45	8.18
	Central Sector . . .	..	..	..	..
	SUB-TOTAL . . .	3,305.29	13,949.89	1,443.02	9.37
<i>Southern Region</i>	Andhra Pradesh . . .	1,659.90	6,099.74	406.11	6.24
	Karnataka . . .	1,182.50	5,447.78	16.29	0.30
	Kerala . . .	983.90	5,084.91	33.79	0.66
	Tamil Nadu . . .	1,951.94	7,263.97	309.26	4.08
	Pondicherry . . .	..	..	..	..
	Lakshadweep . . .	0.64	1.08	0.02	1.82
	Central Sector . . .	484.00	2,095.00	274.00	11.57
	SUB-TOTAL . . .	6,262.88	25,992.48	1,039.47	3.85
<i>North Eastern Region</i>	Assam . . .	113.50	494.00	18.42	3.59
	Manipur . . .	7.60	15.56	1.46	8.58
	Meghalaya . . .	122.06	310.48	5.10	1.62
	Nagaland . . .	1.16	1.92	0.02	1.03
	Tripura . . .	13.00	38.90	0.40	1.02
	Arunachal Pradesh . . .	1.57	9.91	0.46	4.44
	Mizoram . . .	1.22	1.45	0.11	7.05
	SUB-TOTAL . . .	263.11	872.22	25.97	2.89
TOTAL (ALL INDIA)		22,742.74	98,132.11	6,495.15	6.21

TABLE No. 41—Contd.

Name of the State, U.Ts.	HYDRO			
	Aggregate Maximum Demand (MW)	Net Generation (GWH)	Auxiliary consumption	
			(GWH)	% to Gross Generation
Haryana	697.00	3,064.60	6.33	0.21
Himachal Pradesh	94.67	352.94	1.94	0.55
Jammu & Kashmir	135.61	674.00	3.00	0.44
Punjab	1,134.91	5,080.36	11.41	0.22
Rajasthan	659.49	3,011.63	5.36	0.18
Uttar Pradesh	987.35	3,255.65	10.15	0.31
Chandigarh . . . . .	..	..	..	..
Delhi . . . . .	..	..	..	..
Central Sector . . . . .	..	..	..	..
SUB-TOTAL	3,709.03	15,439.18	38.19	0.24
Gujarat	237.00	1,200.25	6.08	0.50
Madhya Pradesh	190.00	789.75	1.03	0.13
Maharashtra	1,148.60	5,919.69	28.62	0.58
Goa, Daman & Diu . . . . .	..	..	..	..
D. & N. Haveli . . . . .	..	..	..	..
Central Sector . . . . .	..	..	..	..
SUB-TOTAL	1,575.60	7,909.69	35.73	0.45
Bihar	78.90	77.15	0.62	0.80
Orissa	495.00	2,016.41	11.72	0.58
West Bengal	18.35	32.25	0.46	1.41
D.V.C.	101.10	187.99	2.57	1.35
A. & N. Islands . . . . .	..	..	..	..
Sikkim	1.20	4.25	0.45	9.57*
Central Sector . . . . .	..	..	..	..
SUB-TOTAL	694.55	2,318.05	15.82	0.68
Andhra Pradesh	832.00	3,221.34	16.91	0.52
Karnataka	1,182.50	5,447.78	16.29	0.30
Kerala	983.90	5,084.91	33.79	0.66
Tamil Nadu	1,312.10	5,520.57	12.24	0.22
Pondicherry . . . . .	..	..	..	..
Lakshadweep . . . . .	..	..	..	..
Central Sector . . . . .	..	..	..	..
SUB-TOTAL	4,310.50	19,274.60	79.23	0.41
Assam . . . . .	..	..	..	..
Manipur	0.60	2.93	0.94	1.35
Meghalaya	121.06	309.48	5.10	1.62
Nagaland	0.45	1.34	0.01	0.74
Tripura	10.00	38.62	0.39	1.00
Arunachal Pradesh	3.37	8.78	0.37	4.04
Mizoram . . . . .	..	..	..	..
SUB-TOTAL	135.48	361.15	5.91	1.61
TOTAL (ALL INDIA)	10,425.16	45,302.67	174.88	0.38

*Figure is high due to neg. generation in Lower Lagaip Power House.

TABLE No. 41—Contd.

Name of State; U.Ts.	STEAM			
	Aggregate Maximum Demand (MW)	Net Generation (GWH)	Auxiliary consumption	
			(GWH)	% to gross generation
Haryana	260.67	778.95	118.51	13.21
Himachal Pradesh . . . . .	..	..	..	..
Jammu & Kashmir	12.00	8.06	4.00	33.77
Punjab	452.00	989.41	151.11	13.24
Rajasthan	131.93	640.81	67.11	9.48
Uttar Pradesh	1,643.03	6,059.93	794.38	11.59
Chandigarh . . . . .	..	..	..	..
Delhi	240.83	1,331.73	133.65	9.12
Central Sector	485.00	1,289.98	242.35	15.82
SUB-TOTAL	3,225.46	11,098.87	1,511.11	11.98
Gujarat	1,503.10	6,736.16	833.62	11.01
Madhya Pradesh	971.20	4,457.66	473.94	9.61
Maharashtra	1,338.90	8,728.34	826.89	8.65
Goa, Daman & Diu . . . . .	..	..	..	..
D. & N. Haveli . . . . .	..	..	..	..
Central Sector	29.25	226.34	27.08	10.69
SUB-TOTAL	3,842.45	20,148.50	2,161.53	9.69
Bihar	457.60	2,205.67	355.88	13.89
Orissa	142.00	616.15	81.55	11.69
West Bengal	1,020.20	4,769.48	469.40	8.96
D.V.C.	857.00	3,910.59	518.59	11.71
A. & N. Islands	0.30	0.83	0.20	19.42
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	2,477.10	11,502.72	1,425.62	11.03
Andhra Pradesh	827.90	2,878.40	389.20	11.91
Karnataka . . . . .	..	..	..	..
Kerala . . . . .	..	..	..	..
Tamil Nadu	639.84	1,743.40	297.02	14.56
Pondicherry . . . . .	..	..	..	..
Lakshadweep . . . . .	..	..	..	..
Central Sector	484.00	2,095.00	274.00	11.57
SUB-TOTAL	1,951.74	6,716.80	960.22	12.51
Assam	60.00	183.52	10.94	5.63
Manipur . . . . .	..	..	..	..
Meghalaya . . . . .	..	..	..	..
Nagaland . . . . .	..	..	..	..
Tripura . . . . .	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL	60.00	183.52	10.94	5.63
TOTAL (ALL INDIA)	11,556.75	49,650.41	6,069.42	10.89

TABLE No. 41—Contd.

Name of State/U.Ts.	DIESEL			
	Aggregate Maximum Demand (MW)	Net Generation (GWH)	Auxiliary consumption (GWH)	% to gross generation
Haryana	2.02	0.06	Neg.	Neg.
Himachal Pradesh	1.00	0.03	Neg.	Neg.
Jammu & Kashmir	4.00	0.63	0.07	10.00
Punjab	3.00	1.74	0.80	31.50
Rajasthan	4.50	0.44	0.05	10.20
Uttar Pradesh . . . . .	..	..	..	..
Chandigarh	1.00	0.04	0.02	33.33
Delhi	20.00	1.33	0.03	2.21
Central Sector . . . . .	..	..	..	..
SUB-TOTAL	36.42	4.27	0.97	18.51
Gujarat	1.00	0.06	Neg.	Neg.
Madhya Pradesh . . . . .	..	..	..	..
Maharashtra . . . . .	..	..	..	..
Goa, Daman & Diu . . . . .	..	..	..	..
D. & N. Haveli . . . . .	..	..	..	..
Central Sector . . . . .	..	..	..	..
SUB-TOTAL	1.00	0.06	Neg.	Neg.
Bihar	3.27	1.77	0.09	4.84
Orissa . . . . .	..	..	..	..
West Bengal	14.72	19.31	0.58	2.92
D.V.C. . . . .	..	..	..	..
A. & N. Islands	2.40	5.39	0.27	4.77
Sikkim	0.25	0.80	Neg.	Neg.
SUB-TOTAL	20.64	27.27	0.94	3.33
Andhra Pradesh . . . . .	..	..	..	..
Karnataka . . . . .	..	..	..	..
Kerala . . . . .	..	..	..	..
Tamil Nadu . . . . .	..	..	..	..
Pondicherry . . . . .	..	..	..	..
Lakshadweep	0.64	1.08	0.02	1.82
Central Sector . . . . .	..	..	..	..
SUB-TOTAL	0.64	1.08	0.02	1.82
Assam . . . . .	..	..	..	..
Manipur	7.00	12.63	1.42	10.11
Meghalaya	1.00	1.00	Neg.	Neg.
Nagaland	0.71	0.58	0.01	1.69
Tripura	2.00	0.28	0.01	3.45
Arunachal Pradesh	1.20	1.13	0.09	7.38
Mizoram	1.22	1.45	0.11	7.05
SUB-TOTAL	13.13	17.07	1.64	8.76
TOTAL (ALL INDIA)	71.83	49.75	3.57	6.70

TABLE No. 41—Contd.

Name of State/U.Ts.	GAS			
	Aggregate Maximum Demand (MW)	Net Generation (GWH)	Auxiliary consumption	
			(GWH)	% to gross Gen.
Haryana . . . . .	..	..	..	..
Himachal Pradesh . . . . .	..	..	..	..
Jammu and Kashmir . . . . .	..	..	..	..
Punjab . . . . .	..	..	..	..
Rajasthan . . . . .	..	..	..	..
Uttar Pradesh	11.50	3.51	0.22	5.90
Chandigarh . . . . .	..	..	..	..
Delhi . . . . .	..	..	..	..
Central Sector . . . . .	..	..	..	..
SUB-TOTAL	11.50	3.51	0.22	5.90
Gujarat	15.00	73.24	2.55	3.36
Madhya Pradesh . . . . .	..	..	..	..
Maharashtra . . . . .	..	..	..	..
Goa, Daman & Diu . . . . .	..	..	..	..
Dadra & Nagar Haveli . . . . .	..	..	..	..
Central Sector . . . . .	..	..	..	..
SUB-TOTAL	15.00	73.24	2.55	3.36
Bihar . . . . .	..	..	..	..
Orissa . . . . .	..	..	..	..
West Bengal	113.00	101.85	0.64	0.62
D.V.C. . . . .	..	..	..	..
A. & N. Islands . . . . .	..	..	..	..
Sikkim . . . . .	..	..	..	..
Central Sector . . . . .	..	..	..	..
SUB-TOTAL	113.00	101.85	0.64	0.62
Andhra Pradesh . . . . .	..	..	..	..
Karnataka . . . . .	..	..	..	..
Kerala . . . . .	..	..	..	..
Tamil Nadu . . . . .	..	..	..	..
Pondicherry . . . . .	..	..	..	..
Lakshadweep . . . . .	..	..	..	..
Central Sector . . . . .	..	..	..	..
SUB-TOTAL . . . . .	..	..	..	..
Assam	53.50	310.48	7.48	2.35
Manipur . . . . .	..	..	..	..
Meghalaya . . . . .	..	..	..	..
Nagaland . . . . .	..	..	..	..
Tripura . . . . .	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL	53.50	310.48	7.48	2.35
TOTAL (ALL INDIA)	193.00	489.08	10.89	2.18

TABLE NO. 41—Contd.

Name of State/UTs	NUCLEAR			
	Aggregate Maximum Demand (MW)	Net Generation (GWH)	Auxiliary consumption	
			(GWH)	% to gross gen.
Haryana
Himachal Pradesh
Jammu & Kashmir
Punjab
Rajasthan
Uttar Pradesh
Chandigarh
Delhi
Central Sector	200.00	1,017.30	113.68	13.37
SUB-TOTAL	200.00	1,017.30	113.68	13.37
Gujarat
Madhya Pradesh
Maharashtra
Goa, Daman & Diu
Dadra & Nagar Haveli
Central Sector	305.00	1,622.90	122.71	7.03
SUB-TOTAL	305.00	1,622.90	122.71	7.07
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)	505.00	2,640.20	236.39	8.22

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 1979-80

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)	6,660.74	6,647.01	Haryana	2,555.63
(b) Dehar (Hydro)			Punjab	3,618.48
	1,778.20	1,774.30	Rajasthan	1,975.06
(c) Pong (Hydro)	1,464.61	1,462.11	R.F.F.	183.00
			Jammu & Kashmir	106.32
			Nangal Fertilizers	846.12
			I.B. Bhakra	10.00
			Chandigarh	192.90
			Himachal Pradesh	232.41
			(Old & New including BSL)	
			B.B.M.B.	163.50
			System losses	
Indraprastha Extn. (Steam) (Unit 2,3 & 4)	1,097.79	1,012.74	Delhi	702.78
			Haryana	309.96
<i>Chambal Projects :</i>				
(a) Gandhi Sagar (Hydro)	464.73	463.92		
(b) Jawahar Sagar (Hydro)	450.97	450.48	Madhya Pradesh	1,998.52
(c) Rana Pratap Sagar (Hydro)	665.86	665.10	Rajasthan	1,127.09
(d) Satpura (Steam)	1,706.54	1,546.11		
<i>Machkund (Hydro)</i>	805.00	802.50	Andhra Pradesh	480.83
			Orissa	321.67
Tungabhadra Dam & Hampi (Hydro)	265.81	262.11	Andhra Pradesh	159.41
			Karnataka	102.70

NOTE :—**—Including losses.

I.B. Bhakra means Irrigation Board Bhakra.

R.F.F. means Rajasthan Fertilizer Factory.

TABLE NO. 43

Installed capacity, energy generated, energy sent out by Central Govt. Projects & D. V. C. during 1979-80.

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	1,532.33	1,289.98£	Punjab	11.36
				Chandigarh	7.32
				Delhi	992.12
				Haryana	94.47
				Himachal Pradesh (Baira Siul)	16.96
				Jammu & Kashmir	21.30
				H.E. Project Salal (J & K)	17.85
				Rajasthan	50.17
				Uttar Pradesh	75.53
				Total	1,287.08
Baira Siul (Hydro)	120.00	..	..	..	..
Rajasthan Atomic Power Project (Nuclear)	220.00	1,130.98	1,017.30	Rajasthan	1,017.30
Tarapore Atomic Power Station (Nuclear)	420.00	1,745.61	1,622.90	Gujarat	798.80
				Maharashtra	824.10
				Total	1,622.90
Kalyan Steam Power Station (Chola-Central Railways)	96.00	253.42	226.34	Maharashtra	226.34
Lower Laygup Damodar Valley Corporation@	1,421.50	4,619.74	4,098.58	Bihar	2,567.47*
				West Bengal	1,750.57**
				Total :	4,318.04@@
Neyveli Lignite Corporation (steam)	600.00	2,369.00	2,095.00§	Tamil Nadu	1,767.00

NOTES :-

£ 2.90 GWH (difference between net generation and energy sent out) has been consumed by Badarpur power station 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 1353.13 GWH direct sales by D.V.C. to ultimate consumers in Bihar area.

** Includes 639.53 GWH direct sales by D.V.C. to ultimate consumers in West Bengal area.

§ 328.00 GWH (difference between net generation and energy sent out) has been consumed by Neyveli Lignite Corporation within works.

TABLE NO. 44

Statement showing interstate transfer of power
Regionwise/Statewise during 1979-80.

Name of Supplier	Name of Purchaser	Energy transferred (GWH)
<i>Northern Region :</i>		
Haryana S. E. B.	Punjab S. E. B.	91.86
Himachal Pradesh S. E. B.	Punjab S. E. B.	81.47
Himachal Pradesh S. E. B.	Uttar Pradesh S. E. B.	192.82
Jammu and Kashmir S. E. B.	Punjab S.E. B.	37.01
Punjab S. E. B.	Jammu and Kashmir S. E. B.	20.00
Punjab S. E. B.	Haryana S. E. B.	3.10
Punjab S. E. B.	Chandigarh	6.71
Punjab S. E. B.	Uttar Pradesh S. E. B.	17.25
Punjab S. E. B.	Rajasthan S. E. B.	21.05
Punjab S. E. B.	Delhi	25.28
Punjab S. E. B.	Himachal Pradesh S. E. B.	8.63
Rajasthan S. E. B.	Delhi	79.37
Rajasthan S. E. B.	Uttar Pradesh S. E. B.	121.12
Rajasthan S. E. B.	Punjab S. E. B.	86.20
Uttar Pradesh S. E. B.	Rajasthan S. E. B.	0.69
Uttar Pradesh S. E. B.	Himachal Pradesh S. E. B.	8.24
<i>Western Region :</i>		
Gujarat S. E. B.	Maharashtra	29.64
Gujarat S. E. B.	Dadra and Nagar Haveli	6.36
Madhya Pradesh S. E. B.	Maharashtra S. E. B.	13.77
Maharashtra S. E. B.	Madhya Pradesh S. E. B.	48.04
Maharashtra S. E. B.	Goa, Daman & Diu.	105.23
Maharashtra S. E. B.	Gujarat S. E. B.	14.78
<i>Eastern Region :</i>		
Bihar S.E. B.	Orissa S. E. B.	19.32
Bihar S. E. B.	D. V. C.	177.04
Bihar S. E. B.	West Bengal S. E. B.	43.40
Orissa S. E. B.	Bihar S. E. B.	71.93
West Bengal S. E. B.	Bihar S. E. B.	1.00
Damodar Valley Corpn.	Bihar S. E. B.	1,058.34+156.00=1,214.34
Damodar Valley Corpn.	West Bengal S. E. B.	379.17
Damodar Valley Corpn.	Durgapur Project Ltd.	65.12
Damodar Valley Corpn.	Dishergarh E. S Co.	89.43
Damodar Valley Corpn.	Seebpore E. S Co.	192.21
Damodar Valley Corpn.	Calcutta E. S. Co.	385.11
Durgapur Project Ltd.	Damodar Valley Corpn.	102.52
<i>Southern Region :</i>		
Andhra Pradesh S. E. B.	Tamil Nadu S. E. B.	91.60
Andhra Pradesh S. E. B.	Karnataka S. E. B.	20.00
Karnataka S. E. B.	Andhra Pradesh S. E. B.	48.00
Karnataka S. E. B.	Kerala S. E. B.	49.70
Kerala S. E. B.	Tamil Nadu S. E. B.	881.90
Kerala S. E. B.	Karnataka S. E. B.	1,051.90
Tamil Nadu S. E. B.	Andhra Pradesh S. E. B.	55.10
Tamil Nadu S. E. B.	Pondicherry	142.72

TABLE NO. 44—Contd.

Name of Supplier	Name of Purchaser	Energy transferred (GWH)
<i>North Eastern Region :</i>		
Assam S. E. B.	Mizoram	1.63
Assam S. E. B.	Nagaland	24.79
Assam S. E. B.	Arunachal Pradesh	1.43
Assam S. E. B.	Tripura	0.10
Assam S. E. B.	Manipur	0.22
Meghalaya S. E. B.	Assam S. E. B.	251.84
Nagaland	Manipur	0.20
Arunachal Pradesh	Assam	2.10
Tripura	Assam S. E. B.	1.39
<i>Inter-Regional Transfers of Power</i>		
<i>Northern Region :</i>		
<i>Western Region :</i>		
Uttar Pradesh S. E. B.	Madhya Pradesh S. E. B.	37.40
Rajasthan S. E. B.	Maharashtra S. E. B.	49.93
<i>Eastern Region :</i>		
Uttar Pradesh S. E. B.	Bihar S. E. B.	205.44
<i>Western Region :</i>		
Maharashtra S. E. B.	Karnataka S. E. B.	24.91
<i>Eastern Region :</i>		
Orissa S. E. B.	Madhya Pradesh S. E. B.	11.75
<i>Southern Region :</i>		
Orissa S. E. B.	Andhra Pradesh S. E. B.	1.10
<i>Southern Region :</i>		
<i>Western Region :</i>		
Karnataka S. E. B.	Goa, Daman & Diu	253.49
<i>Eastern Region :</i>		
Andhra Pradesh S. E. B.	Orissa S. E. B.	41.03
<i>Outside the Country</i>		
Uttar Pradesh S. E. B.	Nepal	11.50
Bihar S. E. B.	Nepal	24.37
West Bengal S. E. B.	Bhutan	3.00
Assam S. E. B.	Bhutan	1.19
Nepal	Bihar S. E. B.	6.00

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)

OPERATING DATA

The coal consumption by various steam stations in the country was 32.59 million tonnes during 1979-80 as compared to 30.07 million tonnes during the previous year indicating an increase of 8.38%. Consumption of other fossil fuels viz. LSHS/HHS decreased by 17.24% and those of furnace oil, wood, diesel & Kerosene oil and Lignite increased by 8.60%, 15.74%, 57.90% and 1.12% 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 6.47% during 1979-80.

18 Power Stations reported an overall thermal efficiency ranging between 20 to 25% and generated 10128.68 GWH i.e., 18.18% of total steam generation. 24 power stations had an overall thermal efficiency in the range of 25 to 30% and produced 23428.63 GWH which represented 42.05% of total steam generation.

14 Power Stations reported an overall thermal efficiency above 30% and generated 17738.72 GWH which covered 31.84% of total steam generation during 1979-80.

This section depicts the Statewise and Region-wise picture of fuel consumption by various types of plants. Two tables, one showing the manpower engaged in various State Electricity Boards and the other indicating the Simultaneous Peak Demand in various regions are also given in this Section.

TABLE NO. 45

Consumption of fossil fuels for electricity generation from thermal stations
(By Kind of Fuels)
Regionwise/Statewise during 1979-80.

Region	State/UTs.	Steam Stations		
		Coal (MT)	Lignite (MT)	Furnace Oil (KL)
Northern Region	Haryana	3,69,939	..	18,227
	Himachal Pradesh. . . . .	..	..	..
	Jammu & Kashmir	10,053	..	..
	Punjab	7,77,941	..	26,640
	Rajasthan	36,566	..	..
	Uttar Pradesh	50,93,063	..	80,295
	Chandigarh . . . . .	..	..	..
	Delhi	12,09,446	..	27,461
	Central Sector	9,11,733	..	41,434
	SUB-TOTAL	84,08,741	..	1,94,057
Western Region	Gujarat	25,07,910	22,197	8,59,012
	Madhya Pradesh	42,97,711	..	41,146
	Maharashtra	48,71,686	..	53,740
	Goa, Daman & Diu . . . . .	..	..	..
	D & N Haveli . . . . .	..	..	..
	Central Sector	2,76,194	..	3,865
		SUB-TOTAL	1,19,53,501	22,197	957,763
Eastern Region	Bihar	18,22,717	..	54,934
	Orissa	519,352	..	..
	West Bengal	34,16,790	..	11,276
	D. V. C.	27,25,707	..	42,494
	A & N Islands . . . . .	..	13,968(A)	..
	Sikkim . . . . .	..	..	..
		SUB-TOTAL	84,84,566	13,968(A)	1,08,704
Southern Region	Andhra Pradesh	24,44,208	..	67,893
	Karnataka . . . . .	..	..	..
	Kerala . . . . .	..	..	..
	Tamil Nadu	12,95,099	..	90,092
	Pondicherry . . . . .	..	..	..
	Lakshadweep . . . . .	..	..	..
	Central Sector . . . . .	..	24,27,110	1,98,907
		SUB-TOTAL	37,39,307	24,27,110	3,56,892
North Eastern Region	Assam . . . . .	..	..	..
	Manipur . . . . .	..	..	..
	Meghalaya . . . . .	..	..	..
	Nagaland . . . . .	..	..	..
	Tripura . . . . .	..	..	..
	Arunachal Pradesh . . . . .	..	..	..
	Mizoram . . . . .	..	..	..
	SUB-TOTAL	..	..	..
	TOTAL (ALL INDIA)	3,25,86,115	24,49,307 13,968(A)	16,17,416

(A)—Wood Fuel MT= Metric Tonne KL= Kilo Litre.

TABLE NO. 45—Contd.

State/Uts.	Steam Stations		
	Light Diesel oil (KL)	LSHS:HHS* (MT)	Natural Gas (Million Cu. Mts.)
Haryana	5,087	..	..
Himachal Pradesh . . . . .	..	..	..
Jammu & Kashmir	2,316	..	..
Punjab	5,568	..	..
Rajasthan . . . . .	..	..	..
Uttar Pradesh	58,531	..	..
Chandigarh . . . . .	..	..	..
Delhi	1,809	..	..
Central Sector . . . . .	..	..	..
SUB-TOTAL	1,00,311	..	..
Gujarat	14,524	51,716	126.82
Madhya Pradesh	373	..	..
Maharashtra	12,713	3,91,189	1,84,945M.T.(B)
Goa, Daman & Diu . . . . .	..	..	..
D & N Haveli . . . . .	..	..	..
Central Sector . . . . .	..	..	..
SUB-TOTAL	27,610	4,42,905	126.82 + 184945(B)
Bihar	13,960	..	..
Orissa	1,277	..	..
West Bengal	31,481	..	..
D. V. C.	30,156	..	..
A & N Islands . . . . .	..	..	..
Sikkim . . . . .	..	..	..
SUB-TOTAL	76,874	..	..
Andhra Pradesh	6,162	..	..
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu	40,756	..	..
Pondicherry . . . . .	..	..	..
Lakshadweep . . . . .	..	..	..
Central Sector . . . . .	..	..	..
SUB-TOTAL	46,918	..	..
Assam	159	37,026	28.80
Manipur . . . . .	..	..	..
Meghalaya . . . . .	..	..	..
Nagaland . . . . .	..	..	..
Tripura . . . . .	..	..	..
Arunachal Pradesh . . . . .	..	..	..
Mizoram . . . . .	..	..	..
SUB-TOTAL	159	37,026	28.80
TOTAL (ALL INDIA)	2,51,872	4,79,931	155.62 + 184945M.T.(B)

*LSHS = Low Sulphur Heavy Stock. HHS = Hot Heavy Stock. B = Refinery Gas.

TABLE No. 45—Contd.

State/UTs.	Steam Stations		
	Heat Input (K. Cal. × 109)	Gross Generation (GWH)	Average heat input (K. Cal/ KWH)
Haryana	2,286.52	531.53	4,302
Himachal Pradesh . . . . .	..	..	..
Jammu & Kashmir	63.37	12.06	5,255
Punjab	3,570.76	1,140.52	3,131
Rajasthan	209.38	25.30	8,276
Uttar Pradesh	25,870.75	6,854.31	3,774
Chandigarh . . . . .	..	..	..
Delhi	6,931.66	1,831.31	3,785
Central Sector	5,156.84	1,532.33	3,365
SUB-TOTAL	44,089.28	11,927.36	3,696
Gujarat	23,805.64	7,569.78	3,145
Madhya Pradesh	16,712.65	5,614.22	2,977
Maharashtra	27,576.98	9,555.23	2,886
Goa, Daman & Diu . . . . .	..	..	..
D & N Haveli . . . . .	..	..	..
Central Sector	1,516.43	253.42	5,984
SUB-TOTAL	69,611.70	22,992.65	3,028
Bihar	8,659.60	2,561.55	3,381
Orissa	2,412.38	697.70	3,458
West Bengal	18,961.57	5,238.88	3,619
D. V. C.	13,661.84	4,429.18	3,084
A & N Islands	36.75	1.03	35,680
Sikkim . . . . .	..	..	..
SUB-TOTAL	43,732.14	12,928.34	3,383
Andhra Pradesh	10,769.20	3,267.60	3,296
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu	7,003.08	2,040.42	3,432
Pondicherry . . . . .	..	..	..
Lakshadweep . . . . .	..	..	..
Central Sector	7,831.62	2,369.00	3,306
SUB-TOTAL	25,603.90	7,667.02	3,335
Assam	638.39	194.46	3,283
Manipur . . . . .	..	..	..
Meghalaya . . . . .	..	..	..
Nagaland . . . . .	..	..	..
Tripura . . . . .	..	..	..
Arunachal Pradesh . . . . .	..	..	..
Mizoram . . . . .	..	..	..
SUB-TOTAL	638.39	194.46	3,283
TOTAL (ALL INDIA)	1,83,675.41	55,719.83	3,296

TABLE NO. 45—contd.

State/UTs	Gas Stations	
	Natural Gas (million Cu. Mts.)	Generation (GWH)
Haryana . . . . .	..	..
Himachal Pradesh . . . . .	..	..
Jammu & Kashmir . . . . .	..	..
Punjab . . . . .	..	..
Rajasthan . . . . .	..	..
Uttar Pradesh	1117(E)	3.73
Chandigarh . . . . .	..	..
Delhi . . . . .	..	..
Central Sector . . . . .	..	..
SUB-TOTAL	1117(E)	3.73
Gujarat	30.86	75.79
Madhya Pradesh . . . . .	..	..
Maharashtra . . . . .	..	..
Goa, Daman & Diu . . . . .	..	..
Dadra & Nagar Haveli . . . . .	..	..
Central Sector . . . . .	..	..
SUB-TOTAL	30.86	75.79
Bihar . . . . .	..	..
Orissa . . . . .	..	..
West Bengal	44069(D./Oil)	102.49
D. V. C. . . . .	..	..
A & N Islands . . . . .	..	..
Sikkim . . . . .	..	..
SUB-TOTAL	44069(D. Oil)	102.49
Andhra Pradesh . . . . .	..	..
Karnataka . . . . .	..	..
Kerala . . . . .	..	..
Tamil Nadu . . . . .	..	..
Pondicherry . . . . .	..	..
Lakshadweep . . . . .	..	..
Central Sector . . . . .	..	..
SUB-TOTAL . . . . .	..	..
Assam	159.39	317.96
Manipur . . . . .	..	..
Meghalaya . . . . .	..	..
Nagaland . . . . .	..	..
Tripura . . . . .	..	..
Arunachal Pradesh . . . . .	..	..
Mizoram . . . . .	..	..
SUB-TOTAL	159.39	317.96
TOTAL (ALL INDIA)	190.25(N.Gas + 45,186(D.Oil))	499.97

NOTE : N—Estimated.

D. Oil—Diesel Oil in kilo Litres.

N. Gas—Natural Gas.

TABLE NO. 45—Contd.

State/UTs.	Diesel Station		
	Diesel Oil (K. Lits)	Generation (GWH)	Average Oil consumed Lts/kwh
Haryana	18	0.06	0.30
Himachal Pradesh	11	0.03	0.36
Jammu & Kashmir	180	0.70	0.28
Punjab	850	2.54	0.33
Rajasthan	227	0.49	0.46
Uttar Pradesh . . . . .	..	..	..
Chandigarh	20	0.06	0.33
Delhi	424	1.36	0.31
Central Sector . . . . .	..	..	..
SUB-TOTAL	1,730	5.24	0.33
Gujarat	20	0.06	0.33
Madhya Pradesh . . . . .	..	..	..
Maharashtra . . . . .	..	..	..
Goa, Daman & Diu . . . . .	..	..	..
Dadra & Nagar Haveli . . . . .	..	..	..
Central Sector . . . . .	..	..	..
SUB-TOTAL	20	0.06	0.33
Bihar	650	1.86	0.35
Orissa . . . . .	..	..	..
West Bengal	6,905	19.89	0.35
D. V. C. . . . .	..	..	..
A & N Islands	0,200	5.66	0.39
Sikkim	280	0.80	0.35
Central Sector . . . . .	..	..	..
SUB-TOTAL	10,035	28.21	0.36
Andhra Pradesh . . . . .	..	..	..
Karnataka . . . . .	..	..	..
Kerala . . . . .	..	..	..
Tamil Nadu . . . . .	..	..	..
Pondicherry . . . . .	..	..	..
Lakshadweep	550	1.10	0.50
Central Sector . . . . .	..	..	..
SUB-TOTAL	550	1.10	0.50
Assam . . . . .	..	..	..
Manipur	4,200	14.05	0.30
Meghalaya	470	1.00	0.47
Nagaland	327	0.59	0.55
Tripura	100	0.29	0.34
Arunachal Pradesh	575	1.22	0.47
Mizoram	550	1.56	0.35
SUB-TOTAL	6,222	18.71	0.33
TOTAL (ALL INDIA)	18,557	53.32	0.35

TABLE NO. 46
Classification of steam stations
 EFFICIENCYWISE
 during 1979-80

Overall Thermal Efficiency	No. of Generating stations	Aggregate installed capacity (MW)	Energy generated by the group (GWH)	% to total generation
Under 10%	18*	159.45	113.39	0.20
Above 10% & upto 15%	17	402.08	999.26	1.79
Above 15% & upto 20%	11	882.50	3311.15	5.94
Above 20% & upto 25%	18	7213.10	10128.68	18.18
Above 25% & upto 30%	24	7472.50	23428.63	42.05
Above 30%	14	4361.50	17738.72	31.84
TOTAL	102	15991.13	55719.83	100.00

*Includes 7 power stations having total aggregate capacity of 33.25 MW and having nil generation.

TABLE NO. 47

*Salient operating data for steam power stations
(Utilities only)
during 1979-80*

Items	1978-79	1979-80	%increase
(i) No. of stations	108	102	(—)5.56
(ii) Aggregate installed capacity (MW)	14,874.93	15,991.13	7.50
(iii) Total energy generated (gross) (GWH)	52,023.74	55,719.83	7.10
(iv) Installed capacity of plants (above 50 MW)	14,239.00	15,389.00	8.08
(v) Energy generated from plants (above 50 MW)	50,187.74	54,319.05	8.23
(vi) kwh/kw installed from plants (above 50 MW)	3,535	3,530	..
(vii) Fuel used : (ALL STATIONS) :			
(a) (i) Coal (Tonnes)	3,00,65,437	3,25,86,115	8.38
(ii) Average calorific value k. cal/kg.	4,705	4,585	..
(b) (i) Lignite (Tonnes)	24,22,127	24,49,307	1.12
(ii) Average calorific value k. cal/kg	2,443	2,454	..
(c) (i) Wood (Tonnes)	12,068	13,968	15.74
(ii) Average calorific value k. cal/kg	3,000	2,631	..
(d) (i) Furnace Oil (K. Ltrs.)	14,89,335	16,17,416	8.60
(ii) Average calorific value k. cal/litre	10,326	10,297	..
(e) (i) Diesel oil and kerosene oil (K. Ltrs.)	1,59,516	2,51,872	57.90
(ii) Average calorific value k. cal/Litre	10,042	9,112	..
(f) (i) LSHS & HHS (Tonnes)	5,79,910	4,79,931	(—)17.24
(ii) Average calorific value (K. cal/litre)	10,386	10,592	..
(g) Overall thermal efficiency for plants above 50 MW	26.48	26.29	..
(h) Total fuel consumption (coal equivalent at 5000 K. cal/kg. tonnes) (All stations)	34503354	36735082	6.47

TABLE NO. 48

*Actual Simultaneous Peak Demand@
Regionwise, During 1979-80.*

Region	Month in which Demand was maximum	Actual Peak Demand (MW)
Northern	May, 1979	4,922
Western	January, 1980	4,707
Eastern	August, 1979	2123
Southern	August, 1979	3,957
North-Eastern	October, 1979	181
All-India Aggregate Peak Demand		15890*

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 31-3-1980 as Reported by State Electricity Boards

Name of Electry. 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>				
1. Himachal Pradesh	3	1,657	**	479
2. Punjab	7	1,496	@@	36,572
3. Rajasthan	9	986	@@	23,149
4. D. E. S. U. . . . .	..	241@	1,115	17,003
<i>Western Region</i>				
5. Gujarat	3	367	11,685	14,305
6. Madhya Pradesh	15	2,133	3,340	28,758
7. Maharashtra	23	4,779	8,869	53,200
<i>Eastern Region</i>				
8. D. V. C.	7	1,133	629	3,940
9. Orissa	8	732	@@	19,780
<i>Southern Region</i>				
10. Andhra Pradesh	16	1,110	3,931	32,331
11. Karnataka	4	1,891	1,457	10,657
12. Kerala	8	753	932	13,520
13. Tamil Nadu	20	1,826	4,093	65,285

NOTE :—Data in respect of State Electricity Boards of Haryana, J&K, Uttar Pradesh, Bihar, West Bengal, Assam and Meghalaya are not available.

@ Includes Managerial & High Executives.

@@ Included in Technicians & Operating Staff.

** Included in Technical & Scientific Officers.

TABLE NO. 49—Contd.

Name of Electy. Board/Undertaking	REGULAR		NON-REGULAR	
	Non-Technical	Total Regular (1+5)	Technical Trainees and Apprentices	Work Charge Staff
	5	6	7	8
<i>Northern Region</i>				
1. Himachal Pradesh	3,287	5,426	Data not available	
2. Punjab	9,143	47,218	..	19,220
3. Rajasthan	13,916	38,060	..	10,450
4. D. E. S. U.	6,558	25,137	150	600
<i>Western Region</i>				
5. Gujarat	1,765	28,125	Data not available	
6. Madhya Pradesh	16,869	51,115	1,105	2,978
7. Maharashtra	16,409	83,280	Data not available	
<i>Eastern Region</i>				
8. D. V. C.	10,794	16,533	7	..
9. Orissa	@@	2,0520	1,000	6,410
<i>Southern Region</i>				
10. Andhra Pradesh	9,574	47,052	732	3,924
11. Karnataka	17,689	31,693	709	6,236
12. Kerala	11,724	26,937	337	..
13. Tamil Nadu	22,855	94,079	Data not available	

TABLE NO. 49—Contd.

Name of Electy. Board/Undertaking	Casual	Total non-Regular (7-9)	Total Regular and non-Regular (6+10)
	9	10	11
<i>Northern Region</i>			
Himachal Pradesh	Details not available		5,426*
Punjab . . . . .	..	19,220	66,438
Rajasthan	12,091	22,441	60,501
D. E. S. U. . . . .	..	750	25,887
<i>Western Region</i>			
Gujarat	Details not available		28,125*
Madhya Pradesh	37,418	41,501	92,615
Maharashtra	Details not available		83,280*
<i>Eastern Region</i>			
D. V. C.	1,503	1,507	18,910
Orissa	5,735	13,145	33,655
<i>Southern Region</i>			
Andhra Pradesh	1,089	5,745	38,693
Karnataka . . . . .	..	6,995	27,274
Kerala . . . . .	..	337	94,079*
Tamil Nadu	Details not available		

*Figures pertain to regular employees only.

SECTION VII
TRANSMISSION AND DISTRIBUTION

TRANSMISSION AND DISTRIBUTION

I. Transmission and Distribution Lines :—

An extensive network of Transmission and Distribution lines has been developed over the years for evacuating power produced in the various generating stations and distributing the same to 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 & 66 KV. 400 KV E.H.V. lines have been introduced so far by the SEB's of U.P. and Maharashtra only.

The standard voltages of operation on the Distribution side are 33 KV, 22 KV, 11 KV, 400/220V etc besides 6.6 KV, 3.3 KV & 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 31-3-1980 with comparative increase over previous year :—

Voltages	Length of Lines (ckt kms)		% Increase
	31-3-1980	31-3-1979	
400 KV	1,452	718	102.23
230/220 KV	30,032	27,196	10.43
132/110/90 KV	57,049	54,186	5.28
78/66 KV	26,498	26,594	(—)0.36
33/22 KV	1,56,645	1,51,579	3.34
15/11 KV	7,17,194	6,63,573	8.08
6.6/3.3/2.2 KV	8,138	8,228	(—)1.09
Distribution lines upto 500 Volts	13,54,601	12,13,845	11.60
TOTAL	23,51,609	21,45,919	9.59

The state of Tamil Nadu has the largest T & D Network of 323336 ckt kms. Apart from Tamil Nadu, State of Punjab, Rajasthan, Uttar Pradesh, Gujarat, Madhya Pradesh, Maharashtra, Bihar, Andhra Pradesh & Karnataka have more than 1 lakhs ckt kms. of T. & D. lines.

III. Transformers :

The total number of step up transformers installed at various Generating Stations and Sub-Station in the country as on 31st March, 1980 were 1193 having aggregate capacity of 33989.78 MVA. The number and capacity of Step Down and Distribution Transformers as on same date were 10349 & 500415 numbers with aggregate capacity of 90285.17 MVA & 39061.22 MVA respectively.

TABLE NO. 50

Length of Transmission and Distribution lines
Regionwise/Statewise as on 31st March, 1980.

		(ckt kms.)			
Region	State/UTS.	Total	400 KV (O.H.)	230 KV (O.H.)	220 KV (O.H.)
<i>Northern Region</i>	Haryana (R)	96,263	..	..	..
	Himachal Pradesh (R)	22,430	..	..	..
	Jammu & Kashmir (R)	18,495	..	..	124
	Punjab	1,17,343	..	..	3,302
	Rajasthan	1,35,999	..	..	1,518
	Uttar Pradesh (A)	2,57,486	762	..	3,210
	Chandigarh	1,079	..	..	..
	Delhi	16,093	..	..	280
	SUB-TOTAL	6,65,188	762	..	8,434
<i>Western Region</i>	Gujarat	1,39,957	..	..	2,964
	Madhya Pradesh	1,92,403	..	..	3,191
	Maharashtra	2,86,971	690	..	3,618
	Goa, Daman & Diu (R)	4,685	..	..	24
	D. & N. Haveli (R)	361	..	..	..
		SUB-TOTAL	6,24,377	690	..	9,797
<i>Eastern Region</i>	Bihar]	1,07,768	..	..	779
	Orissa	53,727	..	..	1,920
	West Bengal (RR)	68,997	..	..	724
	D. V. C. (R)	3,149	..	..	..
	A. & N. Islands	588	..	..	..
	Sikkim	471	..	..	..
		SUB-TOTAL	2,34,700	..	..	3,423
<i>Southern Region</i>	Andhra Pradesh	1,92,728	..	..	2,477
	Karnataka	2,17,642	..	..	2,916
	Kerala	61,246	..	..	854
	Tamil Nadu (A)	3,23,336	..	1,874	..
	Pondicherry	2,840	..	..	..
	Lakshadweep (R)	96	..	..	..
		SUB-TOTAL	7,97,888	..	1,874	6,247
<i>North Eastern Region</i>	Assam	17,548	..	..	257
	Manipur (R)	970	..	..	..
	Meghalaya	3,763	..	..	..
	Nagaland	3,276	..	..	..
	Tripura	2,487	..	..	..
	Arunachal Pradesh	1,143	..	..	..
	Mizoram (R)	269	..	..	..
		SUB-TOTAL	29,456	..	..	257
	TOTAL (ALL INDIA)	23,51,609	1,452	1,874	28,158

(R)=Length of lines repeated due to non-receipt of information.

(RR)=Data of West Bengal State Electricity Board not received hence last year data repeated.

TABLE No. 50—Contd.

Name of State/UTs	(ckt. kms.)				
	132 KV (O.H.)	110/90 KV (O.H.)	78/66 KV (O.H.)	33 KV (O.H.)	(U. G.)
Haryana	1,161	..	846	2,900	..
Himachal Pradesh	22	..	87	1,087	..
Jammu & Kashmir	519	..	274	744	..
Punjab	1,970	..	1,825	2,875	..
Rajasthan	4,074	..	415	12,921	..
Uttar Pradesh	7,476	..	1,936	18,981	158
Chandigarh . . . . .	..	..	..	30	..
Delhi . . . . .	..	..	40	300	337
SUB-TOTAL	15,222	..	5,423	39,838	495
Gujarat	3,301	..	5,409	3,310	..
Madhya Pradesh	6,418	..	362	18,852	..
Maharashtra	4,152	2,899	3,007	9,728	..
Goa, Daman & Diu . . . . .	..	77	..	569	..
D. & N. Haveli . . . . .	..	..	..	..	..
SUB-TOTAL	13,871	2,976	8,678	32,459	..
Bihar	3,111	..	..	8,954	..
Orissa	2,010	..	334	6,767	11
West Bengal	1,888	..	706	3,879	518
D. V. C.	2,505	..	..	629	..
A. & N. Islands . . . . .	..	..	..	65	..
Sikkim . . . . .	..	..	7	..	..
SUB-TOTAL	9,514	..	1,047	20,294	529
Andhra Pradesh	3,599	..	2,305	10,188	..
Karnataka . . . . .	..	4,147	3,120	3,103	..
Kerala . . . . .	..	1,545	2,005	..	..
Tamil Nadu . . . . .	..	4,766	2,814	3,295	135
Pondicherry . . . . .	..	24(R)	..	..	..
Lakshadweep . . . . .	..	..	..	..	..
SUB-TOTAL	3,599	10,482	10,244	16,586	135
Assam	846	..	681	3,716	..
Manipur . . . . .	..	..	128	..	..
Meghalaya	319	..	..	685	..
Nagaland	72	..	..	717	..
Tripura	148	..	98	293	..
Arunachal Pradesh . . . . .	..	..	..	369	..
Mizoram . . . . .	..	..	99	..	..
SUB-TOTAL	1,385	..	1,006	5,780	..
TOTAL (ALL INDIA)	43,591	13,458	26,498	1,14,957	1,159

(A) = In certain class of voltage figures have gone down as compared to previous year due to revision of data by State Electricity Board.

TABLE NO. 50—Contd.

State/UTs.	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 . . . . .	..	..	4,536	..	550	..
Punjab . . . . .	..	..	36,923	59	..	..
Rajasthan . . . . .	..	..	48,258	..	61	..
Uttar Pradesh . . . . .	..	..	1,16,599	745	325	535
Chandigarh . . . . .	..	..	376	..	..	..
Delhi . . . . .	..	..	1,771	2,372	..	..
SUB-TOTAL	1,852	..	2,47,134	3,476	936	535
Gujarat	8,709	..	47,258	953	5	1
Madhya Pradesh . . . . .	..	..	56,833	..	13	..
Maharashtra	10,195	613	68,765	1,032	221	992
Goa, Daman & Diu . . . . .	..	..	1,403	3	..	..
D. & N. Haveli . . . . .	..	..	156	..	..	..
SUB-TOTAL	18,904	613	1,74,415	1,988	239	993
Bihar . . . . .	..	..	40,938	384	..	..
Orissa . . . . .	..	..	22,811	93	..	..
West Bengal (P) . . . . .	..	60	31,600	493	499	2,058
D. V. C. . . . .	..	..	15	..	..	..
A. & N. Islands . . . . .	..	..	173	..	..	..
Sikkim . . . . .	..	..	176	..	..	..
SUB-TOTAL . . . . .	..	60	95,713	970	499	2,058
Andhra Pradesh . . . . .	..	..	63,671	..	..	..
Karnataka . . . . .	..	..	61,011	372	..	..
Kerala . . . . .	..	..	13,251	..	..	..
Tamil Nadu	18,675	Neg.	43,381	1,129	..	..
Pondicherry	425	..	128	..	..	..
Lakshadweep . . . . .	..	..	..	..	..	..
SUB-TOTAL	19,100	Neg.	1,81,442	1,501	..	..
Assam . . . . .	..	..	6,562	..	..	..
Manipur . . . . .	..	..	221	..	..	..
Meghalaya . . . . .	..	..	1,689	..	..	..
Nagaland . . . . .	..	..	1,008	..	..	..
Tripura . . . . .	..	..	1,109	..	..	..
Arunachal Pradesh . . . . .	..	..	224	..	..	..
Mizoram . . . . .	..	..	42	..	..	..
SUB-TOTAL . . . . .	..	..	10,855	..	..	..
TOTAL (ALL INDIA)	39,856	673	7,09,559	7,635	1,674	3,586

TABLE NO. 50—Contd.

(Circuit Kilometers)

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 & Kashmir . . . . .	..	..	11,748
Punjab . . . . .	..	..	70,389
Rajasthan	46	..	68,706
Uttar Prarssh	108	210	1,06,441
Chaudigarh . . . . .	..	..	673
Delhi . . . . .	..	..	10,
SUB-TOTAL	301	210	3,40,870
Gujarat	88	103	67,856@
Madhya Prdeshh	34	..	1,06,700
Maharashtra	214	97	1,80,748
Goa, Daman & Diu . . . . .	..	..	2,609
Dadra and Nagar Haveli . . . . .	..	..	205
SUB-TOTAL	336	200	3,58,118
Bihar . . . . .	..	..	53,602
Orissa . . . . .	..	..	19,781
West Bengal	42	60	26,470
D. V. C. . . . .	..	..	..
A. & N. Islands . . . . .	..	..	350
Sikkim	18	..	270
SUB-TOTAL	60	60	1,00,473
Andhra Pradesh . . . . .	..	..	1,10,488
Karnataka	1,646	53	1,41,274
Kerala . . . . .	..	..	43,591
Tamil Nadu . . . . .	..	..	2,47,267
Pondicherry	7	..	2,256
Lakshadwesp	5	..	91
SUB-TOTAL	1,658	53	5,44,967
Assam . . . . .	..	..	5,486
Manipur** . . . . .	..	..	621
Meghalaya . . . . .	..	..	1,070
Nagaland . . . . .	..	..	1,479
Tripura . . . . .	..	..	839
Arunachal Pradesh . . . . .	..	..	550
Mizoram . . . . .	..	..	128
SUB-TOTAL . . . . .	..	..	10,173
TOTAL (ALL-INDIA)	2,355	523	13,54,601

@—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, 1980**(Circuit Kilometers)*

Region	State/U	Total	400 kV	230 kV	220 kV
			O.H.	O.H.	O.H.
<i>Northern Region</i>	Haryana (R)	96,263	..	..	..
	Himachal Pradesh (R)	22,430	..	..	..
	Jammu & Kashmir (R)	18,495	..	..	124
	Punjab	1,12,485	..	..	548
	Rajasthan	1,35,152	..	..	1,389
	Uttar Pradesh (A)	2,55,130	762	..	3,210
	SUB-TOTAL	6,39,955	762	..	5,271
<i>Western Region</i>	Gujarat	1,32,484	..	..	2,964
	Madhya Pradesh	1,91,187	..	..	3,191
	Maharashtra	2,72,602	690	..	3,618
	SUB-TOTAL	5,96,273	690	..	9,773
<i>Eastern Region</i>	Bihar	1,06,532	..	..	779
	Orissa	53,283	..	..	1,920
	West Bengal (R)	60,028	..	..	724
	SUB-TOTAL	2,19,843	..	..	3,423
<i>Southern Region</i>	Andhra Pradesh	1,88,272	..	..	2,477
	Karnataka	2,15,981	..	..	2,916
	Kerala	60,775	..	..	854
	Tamil Nadu (A)	3,22,183	..	1,874	..
	SUB-TOTAL	7,87,211	..	1,874	6,247
<i>North Eastern Region</i>	Assam	17,548	..	..	257
	Meghalaya	3,763	..	..	..
	SUB-TOTAL	21,311	..	..	257
	TOTAL (ALL-INDIA)	22,64,593	1,452	1,874	24,971

TABLE NO. 51—Contd.

(Circuit Kilometres)

State/U.T.	132 KV	110.90 KV	78.66 KV	33 KV	(U.G.)
	(O.H.)	(O.H.)	(O.H.)	(O.H.)	
Haryana	1,161	..	846	2,900	..
Himachal Pradesh	22	..	87	1,087	..
Jammu & Kashmir	519	..	274	744	..
Punjab	1,954	..	1,710	2,875	..
Rajasthan	4,074	..	415	12,921	..
Uttar Pradesh	7,476	..	1,936	18,981	158
SUB-TOTAL	15,206	..	5,268	39,508	158
Gujarat	3,239	..	5,288	3,310	..
Madhya Pradesh	6,418	..	362	18,852	..
Maharashtra	4,152	1,444	3,007	9,728	..
SUB-TOTAL	13,809	1,444	8,657	31,890	..
Bihar	3,111	..	..	8,954	..
Orissa	2,010	..	334	6,767	11
West Bengal	1,832	..	706	3,829	11
SUB-TOTAL	6,953	..	1,040	19,550	22
Andhra Pradesh	3,407	..	2,092	10,188	..
Karnataka . . . . .	..	4,147	3,120	3,103	..
Kerala . . . . .	..	1,545	2,005	..	..
Tamil Nadu . . . . .	..	4,766	2,814	3,295	135
SUB-TOTAL	3,407	10,458	10,031	16,586	135
Assam	846	..	681	3,716	..
Meghalaya	319	..	..	685	..
SUB-TOTAL	1,165	..	681	4,401	..
TOTAL (ALL INDIA)	40,540	11,902	25,677	1,11,935	315

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

(A)=In certain class of voltage, figures have gone down as compared to previous year due to revision of data by Electricity Board.

TABLE NO. 51—(Contd.)

(Circuit Kilometres)

State/U.T.	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 . . . . .	..	..	4,536	..	550	..
Punjab . . . . .	..	..	36,852	..	..	..
Rajasthan . . . . .	..	..	48,079	..	61	..
Uttar Pradesh . . . . .	..	..	1,15,308	745	325	535
SUB-TOTAL	1,852	..	2,43,446	745	936	535
Gujarat	8,709	..	46,238	..	..	..
Madhya Pradesh . . . . .	..	..	56,497	..	13	..
Maharashtra	9,735	14	67,699	209	162	..
SUB-TOTAL	18,444	14	1,70,434	209	175	..
Bihar . . . . .	..	..	40,938	..	..	..
Orissa . . . . .	..	..	22,602	93	..	..
West Bengal . . . . .	..	..	31,211	313	430	238
SUB-TOTAL	..	..	94,751	406	430	238
Andhra Pradesh . . . . .	..	..	62,427	..	..	..
Karnataka . . . . .	..	..	60,472	372	..	..
Kerala . . . . .	..	..	13,092	..	..	..
Tamil Nadu	18,666	Neg.	43,256	1,117	..	..
SUB-TOTAL	18,666	..	1,79,247	1,489	..	..
Assam . . . . .	..	..	6,562	..	..	..
Meghalaya . . . . .	..	..	1,689	..	..	..
SUB-TOTAL	..	..	8,251	..	..	..
TOTAL (ALL INDIA)	38,962	14	6,96,129	2,849	1,541	773

TABLE NO. 51—Concl'd.

Name of the State/UTs.	3·3/2·2 KV		Distribution lines upto 500 Volts
	(O.H.)	(U.G.)	
	(Circuit Kilometres)		
Haryana . . . . .	..	..	57,833
Himachal Pradesh	147	..	14,087
Jammu & Kashmir . . . . .	..	..	11,748
Punjab . . . . .	..	..	68,546
Rajasthan	46	..	68,167
Uttar Pradesh	108	210	1,05,376
SUB-TOTAL	301	210	3,25,757
Gujarat . . . . .	..	..	62,736@
Madhya Pradesh	34	..	1,05,820
Maharashtra	12	25	1,72,107
SUB-TOTAL	46	25	3,40,663
Bihar . . . . .	..	..	52,750
Orissa . . . . .	..	..	19,546
West Bengal	17	38	20,679
SUB-TOTAL	17	38	92,975
Andhra Pradesh . . . . .	..	..	1,07,681
Karnataka	1,646	53	1,40,152
Kerala . . . . .	..	..	43,279
Tamil Nadu . . . . .	..	..	2,46,260
SUB-TOTAL	1,646	53	5,37,372
Assam . . . . .	..	..	5,486
Meghalaya . . . . .	..	..	1,070
SUB-TOTAL	..	..	6,556
TOTAL (ALL INDIA)	2,010	326	13,03,323

NOTE :

@=Includes line length of 3·3 & 6·6 KV also since break-up of which is not available.

**In certain cases, 1979-80 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)

Region-wise/State-wise as on 31st March, 1980.

Region	State/UTs.	Step-up		Step-down	
		Number	Aggregate Capacity (KVA)	Number	Aggregate Capacity (KVA)
Northern Region	Haryana (R)	9	2,96,000	344	19,87,370
	Himachal Pradesh	36	1,59,182	94(R)	1,89,397(R)
	Jammu & Kashmir (R)	57	3,01,000	73	3,25,000
	Punjab	44(A)	31,87,510	427	69,26,000
	Rajasthan	35	8,57,900	1,089	41,43,670
	Uttar Pradesh	143	38,31,885	1,959	1,69,33,050
	Chandigarh	2	1,500	7	42,000
	Delhi	19(R)	11,85,000(R)	95(A)	14,75,000
	SUB-TOTAL	345	98,19,977	4,088	3,20,21,487
Western Region	Gujarat	46(A)	26,89,220	441(A)	66,76,250
	Madhya Pradesh	44	18,72,610	1,016	57,71,530
	Maharashtra	103	46,27,400	705	1,45,98,215
	Goa, Daman & Diu	..	..	18	1,32,950
	D. & N. Haveli	..	..	..	..
	SUB-TOTAL	193	91,89,230	2,180	2,71,78,945
Eastern Region	Bihar	46	12,09,300	622	31,97,690
	Orissa	43(A)	14,38,400	309	16,20,640
	West Bengal (E)	119	13,22,803	505(A)	44,10,775
	D. V. C.	25	17,73,250	51(R)	13,55,200(R)
	A. & N. Islands	12	6,815	..	..
	Sikkim	10	72,075	4	5,375
	SUB-TOTAL	255	58,22,643	1,491	1,05,89,680
Southern Region	Andhra Pradesh	71(A)	23,43,300	885	56,02,845(A)
	Karnataka	56(A)	17,20,000	415	39,94,630
	Kerala	54	11,97,975	208	25,85,500
	Tamil Nadu	127(A)	34,64,632(A)	837	75,99,867
	Pondicherry	..	..	..	..
	Lakshadweep(R)	1	100	..	..
	SUB-TOTAL	309	87,26,007	2,345	1,97,82,842
North Eastern Region	Assam	33	2,36,707	176	5,87,463
	Manipur (R)	12	9,000	..	..
	Meghalaya	14	1,50,550(A)	25	62,950(A)
	Nagaland	5	3,000	30(A)	23,000
	Tripura	9	24,760	11	36,000(A)
	Arunachal Pradesh	17	7,505	1(A)	300(A)
	Mizoram	1	400	2	2,500
	SUB-TOTAL	91	4,31,922	245	7,12,213
	TOTAL (ALL INDIA)	1,193	3,39,89,779	10,349	9,02,85,167

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

(A) - Figure has gone down as compared to previous year due to revision/delition of transformers by Board/Electricity Departments.

(R) - Data repeated.

TABLE NO. 52—Contd.

State/U.Ts.	Distribution	
	Number	Aggregate Capacity (KVA)
Haryana	27,495	20,85,270
Himachal Pradesh (R)	2,754	1,69,244
Jammu & Kashmir (R)	2,700	3,50,000
Punjab	32,936	26,09,806
Rajasthan	30,772	22,06,005
Uttar Pradesh	99,939	48,30,950
Chandigarh	382	1,02,000
Delhi	2,611(A)	10,40,019
SUB-TOTAL	1,99,589	1,33,93,294
Gujarat	41,508	33,74,773
Madhya Pradesh	30,070	22,97,035
Maharashtra	48,469	54,78,383
Goa, Daman & Diu	947	72,203
D. & N. Haveli	68	4,166
SUB-TOTAL	1,21,062	1,12,26,560
Bihar	21,718	17,44,599
Orissa	10,660	7,84,774
West Bengal (E)	16,228	11,53,658
D. V. C. . . . .	..	..
A. & N. Islands	58	6,175
Sikkim	80(A)	9,000
SUB-TOTAL	48,744	36,98,206
Andhra Pradesh	35,499	25,21,607
Karnataka	33,553	22,52,328
Kerala	10,496	9,03,552
Tamil Nadu	46,070	44,17,807
Pondicherry	509	68,650
Lakshadweep	2	75
SUB-TOTAL	1,26,129	1,01,64,019
Assam	3,364	4,55,917
Manipur (R)	121	8,400
Meghalaya	350(A)	34,843
Nagaland	382	30,442
Tripura	560	39,768
Arunachal Pradesh	75	3,939
Mizoram	39	5,828
SUB-TOTAL	4,891	5,79,137
TOTAL (ALL INDIA)	500,415	3,90,61,216

(R) = Data of 1978-79 repeated due to non-availability of information.

NOTE—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, 1980.*

Region	State/U.Ts.	Step-up Transformers		Step-down Transformers	
		Number	Aggregate capacity (KVA)	Number	Aggregate capacity (KVA)
<i>Northern Region</i>	Haryana (R)	9	2,96,000	344	19,87,370
	Himachal Pradesh	36	1,59,182	94(R)	1,89,397(R)
	Jammu & Kashmir (R)	57	3,01,000	73	3,25,000
	Punjab	18(A)	6,37,010	364	41,18,000
	Rajasthan	33	3,57,900	1,083	39,19,670
	Uttar Pradesh (E)	143	38,31,885	1,959	1,69,33,050
	SUB-TOTAL	296	55,82,977	3,917	2,74,72,487
<i>Western Region</i>	Gujarat	32(A)	21,93,920	402(A)	61,34,250
	Madhya Pradesh	44	18,72,610	1,016	57,71,530
	Maharashtra	67	32,87,000	475(E)	1,10,92,220
	SUB-TOTAL	143	73,53,530	1,893	2,29,98,000
<i>Eastern Region</i>	Bihar	46	12,09,300	622	31,97,690
	Orissa	43(A)	14,38,400	309	16,20,640
	West Bengal (E)	99	9,35,353	362	24,52,050
	SUB-TOTAL	188	35,83,053	1,293	72,70,380
<i>Southern Region</i>	Andhra Pradesh	71(C)	23,43,300(C)	885	56,02,845
	Karnataka	56(A)	17,20,000	415	39,94,630
	Kerala	54	11,97,975	208	25,85,500
	Tamil Nadu	116(A)	24,79,632(A)	818	72,59,867
	SUB-TOTAL	297	77,40,907	2,326	1,94,42,842
<i>North Eastern Region</i>	Assam	33	2,36,707	176	5,87,463
	Meghalaya	14	1,50,550(A)	25	62,950
	SUB-TOTAL	47	3,87,257	201	6,50,413
	TOTAL (ALL INDIA)	971	2,46,47,724	9,630	7,78,34,122

(A) = Figure has gone down as compared to previous year due to revision/deletion of transformers by Board/Electricity Deptt.

(E) = Estimated due to non-availability of information.

(R) = Data for 1978-79 repeated due to non-availability of information.

(C) = Includes number of transformers & their aggregate capacity of Machkund & T.B. Dam & Hampi Power House.

TABBE NO. 53—Concl'd.

State/U.Ts.	Distribution Transformers	
	Number	Aggregate Capacity (KVA)
Haryana	27,495	20,85,270
Himachal Pradesh	2,754(R)	1,69,244(R)
Jammu & Kashmir	2,700	3,50,000
Punjab	32,770	25,40,906
Rajasthan	30,755	21,85,605
Uttar Pradesh	99,000	48,00,000
SUB-TOTAL	1,95,494	1,21,31,025
Gujarat	39,554	29,42,720
Madhya Pradesh	29,869	22,83,298
Maharashtra	45,250(E)	43,28,549
SUB-TOTAL	1,14,673	95,54,567
Bihar	21,490	17,18,970
Orissa	10,660	7,84,774
West Bengal (R)	14,817	7,24,438
SUB-TOTAL	46,967	32,28,182
Andhra Pradesh	34,700	24,65,463
Karnataka	33,155	22,31,238
Kerala	10,330(R)	8,84,377(R)
Tamil Nadu	45,794	43,72,372
SUB-TOTAL	1,23,979	99,53,450
Assam	3,364	4,55,917
Meghalaya	350(A)	34,843
SUB-TOTAL	3,714	4,90,760
TOTAL (ALL-INDIA)	4,84,827	3,53,57,984

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 and 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 78082.97 Gwh registering an increase of 1.02% over the previous year.

As in the preceding year, the major portion of electricity viz. 68321.59 Gwh representing 87.5% of the total energy consumption was distributed by the Public Sector and remaining 12.5% was distributed by the private sector. Out of the 87.5% of energy distributed by the public sector, 77.0% was sold by the 18 State Electricity Boards and balance 10.5% was supplied by the Municipalities and Electricity Departments of States and Union Territories. Out of 12.5% 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 3.91%, 3.50% and 2.06% 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	% to total consumption	% Increase over 1978-79
1	State Electricity Boards	60083.04	77.0	2.6
2	Electricity Departments	4305.20	5.5	(-)-7.6
3	Municipalities (Including DESU)	3933.35	5.0	6.5
4	Private Licensees (Including Co-operatives)	9761.38	12.5	(-)-6.1
	Total	78082.97	100.00	1.02

As regards the energy consumed by various classes of consumers, the industrial category of consumers, as usual, consumed highest energy and was 58.86% of the total energy sold by public utilities as compared to 61.75% during 1978-79. The energy sales to industrial consumers registered decrease of 3.71% over the previous year.

Agricultural consumers remained the second largest category amongst the consumers of electricity, consuming 17.23% of total energy sales as compared to 15.56% during the previous year. Percentage increase in consumption of energy by agricultural consumers being 11.84% as compared to previous year.

There was 7.53% increase in energy consumption by commercial consumers as compared to previous year.

II. Per capita Consumption :

The per capita consumption of electricity in the country was 130.49 kwh during 1979-80 as compared to 130.94 Kwh during 1978-79. Western region had the maximum per capita consumption of 184.17 Kwh followed by Southern, Northern, Eastern and North-Eastern Regions with figure of 133.22, 126.35, 97.45 and 30.89 Kwh respectively.

Among the States, Punjab with per capita of 314.37 kwh was at the top followed by Gujarat, Maharashtra and Harayana having per capita of 241.59, 228.22 and 204.90 Kwh respectively. However, Union Territory of Delhi had the highest per capita consumption of electricity of 377.27 kwh in the country during the year followed by Chandigarh 327.04 Kwh.

III. Electrical Accidents :

While utilising the electricity several accidents occurred at various electrical installations. During the year 1979-80, total number of electrical accidents reported were 5704 which comprised of 1943 fatal, 2337 non-fatal accidents of human and 1413 fatal and 11 non-fatal accidents of animals. Corresponding figures for the year 1978-79 were 1969 fatal, 2237 non-fatal accidents to human and 830 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 1979-80.

Category	Energy sold during 1979-80 (GWH)	Percentages to total sales	Energy sold during 1978-79 (GWH)	Percentage increase over 1978-79
Domestic	8401.58	10.76	7575.66	10.91
Commercial	4656.58	5.96	4330.58	7.53
Industrial Power	45955.48	58.86	47727.70	(-)-3.71
Public Lighting	711.62	0.91	649.40	9.58
Railway, Tramways	2301.15	2.95	2185.58	5.29
Agriculture	13452.00	17.23	12027.85	11.84
Public Water Works & Sewage Pumping	1407.76	1.80	1427.73	(-)-1.40
Miscellaneous	1196.80	1.53	1368.32	(-)-12.54
TOTAL	78082.97	100.00	77292.82	1.02

TABLE NO. 55

Energy Sales to ultimate consumers (UTILITIES ONLY)
Ownershipwise-Regionwise/Statewise during the year 1979-80.

Region	State/U.Ts.	Total Energy sold (GWH)	Public Sector	
			State Electricity Boards (GWH)	% to total
<i>Northern Region</i>	Haryana	2,354.59	2,354.59	100.00
	Himachal Pradesh	233.23	216.27	92.73
	Jammu & Kashmir	420.85	403.00	95.76
	Punjab	4,914.70	3,927.21	79.91
	Rajasthan	2,974.41	2,969.00	99.82
	Uttar Pradesh	7,510.70	7,573.94	99.52
	Chandigarh	152.18	..	..
	Delhi	2,033.15	..	..
	SUB-TOTAL	20,743.81	17,444.01	84.09
<i>Western Region</i>	Gujarat	7,305.97	5,119.69	70.08
	Madhya Pradesh	4,346.62	4,334.45	99.72
	Maharashtra	12,919.83	6,796.28	52.60
	Goa, Daman and Diu	257.43	..	..
	Dadra & Nagar Haveli	4.63	..	..
	SUB-TOTAL	24,834.48	16,250.42	65.43
<i>Eastern Region</i>	Bihar	3,941.07	2,579.23	65.45
	Orissa	2,180.58	2,175.48	99.77
	West Bengal	5,648.16	1,692.02	29.96
	Andaman & Nicobar Islands	7.72	..	..
	Sikkim	4.00	..	..
	SUB-TOTAL	11,781.53	6,446.73	54.72
<i>Southern Region</i>	Andhra Pradesh	4,532.97	4,486.04	98.96
	Karnataka	4,853.88	4,839.13	99.70
	Kerala	2,356.14	2,304.49	97.81
	Tamil Nadu	8,141.29	7,657.19	94.05
	Pondicherry	122.04	..	..
	Lakshadweep	0.92	..	..
	SUB-TOTAL	20,007.24	19,286.85	96.40
<i>North Eastern Region</i>	Assam	609.80	609.80	100.00
	Manipur	8.43	..	..
	Meghalaya	45.23	45.23	100.00
	Nagaland	17.85	..	..
	Tripura	25.15	..	..
	Arunachal Pradesh	7.24	..	..
	Mizoram	2.21	..	..
	SUB-TOTAL	715.91	655.03	91.50
	TOTAL (ALL INDIA)	78,082.97	60,083.04	76.95

TABLE NO. 55

State/U.Ts.	Public Sector			
	Municipalities		Govt. Depts./Govt. undertakings/Corporation	
	(GWH)	% to total	(GWH)	% to total
Haryana . . . . .	..	..	..	..
Himachal Pradesh . . . . .	..	..	16.96	7.27
Jammu and Kashmir . . . . .	..	..	17.85	4.24
Punjab	131.37	2.67	856.12	17.42
Rajasthan . . . . .	..	..	..	..
Uttar Pradesh . . . . .	..	..	..	..
Chandigarh . . . . .	..	..	152.18	100.00
Delhi	2,080.25	99.86	2.90	0.14
SUB-TOTAL	2,211.62	10.66	1,046.01	5.04
Gujarat	187.46	2.56	..	..
Madhya Pradesh . . . . .	..	..	..	..
Maharashtra	1,355.77	10.50	226.34	1.75
Goa, Daman and Diu . . . . .	..	..	257.43	100.00
Dadra & Nagar Haveli . . . . .	..	..	4.63	100.00
SUB-TOTAL	1,543.23	6.21	488.40	1.97
Bihar . . . . .	..	..	1,353.13	34.33
Orissa . . . . .	..	..	..	..
West Bengal . . . . .	..	..	894.10	15.83
A. & N. Islands . . . . .	..	..	7.72	100.00
Sikkim . . . . .	..	..	4.00	100.00
SUB-TOTAL . . . . .	..	..	2,258.95	19.18
Andhra Pradesh . . . . .	..	..	..	..
Karnataka . . . . .	..	..	..	..
Kerala	22.40	0.95	..	..
Tamil Nadu	156.10	1.92	328.00	4.03
Pondicherry . . . . .	..	..	122.04	100.00
Lakshadweep . . . . .	..	..	0.92	100.00
SUB-TOTAL	178.50	0.89	450.96	2.27
Assam . . . . .	..	..	..	..
Manipur . . . . .	..	..	8.43	100.00
Meghalaya . . . . .	..	..	..	..
Nagaland . . . . .	..	..	17.85	100.00
Tripura . . . . .	..	..	25.15	100.00
Arunachal Pradesh . . . . .	..	..	7.24	100.00
Mizoram . . . . .	..	..	2.21	100.00
SUB-TOTAL . . . . .	..	..	60.88	8.50
TOTAL (ALL INDIA)	3,933.35	5.04	4,305.20	5.51

TABLE NO. 55

State/U.Ts.	Private Sector Companies	
	(GWH)	% to total
Haryana . . . . .	..	..
Himachal Pradesh . . . . .	..	..
Jammu & Kashmir . . . . .	..	..
Punjab . . . . .	..	..
Rajasthan	5.41	0.18
Uttar Pradesh	36.76	0.48
Chandigarh . . . . .	..	..
Delhi . . . . .	..	..
SUB-TOTAL	42.17	0.21
Gujarat	1,998.82	27.36
Madhya Pradesh	12.17	0.28
Maharashtra	4,541.44	35.15
Goa, Daman & Diu . . . . .	..	..
Dadra & Nagar Haveli . . . . .	..	..
SUB-TOTAL	6,552.43	26.39
Bihar	8.71	0.22
Orissa	5.10	0.23
West Bengal	3,062.04	54.21
A. & N. Islands . . . . .	..	..
Sikkim . . . . .	..	..
SUB-TOTAL	3,075.85	26.10
Andhra Pradesh	46.93	1.04
Karnataka	14.75	0.30
Kerala	29.25	1.24
Tamil Nadu . . . . .	..	..
Pondicherry . . . . .	..	..
Lakshadweep . . . . .	..	..
SUB-TOTAL	90.93	0.44
Assam . . . . .	..	..
Manipur . . . . .	..	..
Meghalaya . . . . .	..	..
Nagaland . . . . .	..	..
Tripura . . . . .	..	..
Aranachal Pradesh . . . . .	..	..
Mizoram . . . . .	..	..
SUB-TOTAL . . . . .	..	..
TOTAL (ALL INDIA)	9,761.38	12.50

TABLE No. 56

Energy sales to ultimate consumers
(UTILITIES ONLY)

Categorywise/Regionalwise/Statewise during the year 1979-80

		(GWH)		
Region	State/ U.Ts.	Total energy sold	Domestic	Commercial
<i>Northern Region</i>	Haryana	2,354.59	185.59	67.45
	Himachal Pradesh	233.23	54.93	28.00
	Jammu & Kashmir (E)	420.85	85.00	35.50
	Punjab	4,914.70	420.70	136.80
	Rajasthan	2,974.41	205.07	140.09
	Uttar Pradesh	7,610.70	805.93	51.24
	Chandigarh	152.18	48.80	26.95
	Delhi	2,083.15	659.90	665.00
	SUB-TOTAL	20,743.81	2,465.92	1,151.03
<i>Western Region</i>	Gujarat	7,305.97	626.90	281.41
	Madhya Pradesh	4,346.62	302.06	208.15
	Maharashtra	12,919.83	1,619.50	898.89
	Goa, Daman & Diu	257.43	26.59	11.07
	D. & N. Haveli (R)	4.63	0.68	0.29
	SUB-TOTAL	24,834.48	2,575.73	1,399.81
<i>Eastern Region</i>	Bihar (S)	3,941.07	151.20	102.57
	Orissa	2,180.58	113.80	86.72
	West Bengal (S)	5,648.16	736.51	520.62
	A. & N. Islands	7.72	2.38	2.90
	Sikkim	4.00	2.85	(D)
	SUB-TOTAL	11,781.53	1,006.74	712.81
<i>Southern Region</i>	Andhra Pradesh	4,532.97	501.93	404.02
	Karnataka	4,853.88	598.90	121.83
	Kerala	2,356.14	363.93	166.27
	Tamil Nadu	8,141.29	776.68	649.63
	Pondicherry	122.04	15.14	6.66
	Lakshadweep (E)	0.92	0.66	0.22
	SUB-TOTAL	20,007.24	2,257.24	1,348.63
<i>North Eastern Region</i>	Assam	609.80	57.70	28.60
	Manipur (E)	8.43	5.30	0.63
	Meghalaya	45.23	9.95	7.71
	Nagaland	17.85	5.30	3.38
	Tripura	25.15	13.03	3.20
	Arunachal Pradesh	7.24	3.19	0.40
	Mizoram	2.21	1.48	0.38
	SUB-TOTAL	715.91	95.95	44.30
TOTAL (ALL INDIA)		78,082.97	8,401.58	4,656.58

NOTE :

S—Includes DVC's sales to ultimate consumers in Bihar and West Bengal.

(E)—Estimated.

(R)—Repeated due to non-availability of data.

(D)—Included in Domestic.

TABLE NO. 56—Contd.

State/U.Ts.	Industrial Power (Low & Medium Voltage)	Industrial Power (High Voltage)	Public Lightin ^g	Traction
Haryana	299.69	787.43	7.22	..
Himachal Pradesh	93.34	(A)	1.85	..
Jammu & Kashmir	126.00	(A)	6.25	..
Punjab	565.74	1,760.49(B)	13.53	..
Rajasthan	290.63	1,181.63	20.39	..
Uttar Pradesh	799.42	2,848.38	33.28	334.78
Chandigarh	23.25	41.04	3.15	..
Delhi	263.00	383.00	48.25	..
SUB-TOTAL	2,461.07	7,001.97	133.92	334.78
Gujarat	763.81	3,963.51	67.98	136.23
Madhya Pradesh	300.22	2,906.84	34.42	102.88
Maharashtra	1,182.52	6,459.37	157.50	811.76
Goa, Daman & Diu	12.68	173.11	2.59	..
D. & N. Haveli	0.42	2.67	0.13	..
SUB-TOTAL	2,259.65	13,505.50	262.62	1,050.87
Bihar	237.08	2,577.28	4.50	360.31
Orissa	85.13	1,666.22	9.08	98.22
West Bengal	379.51	3,226.91	47.07	403.84
A. & N. Islands	1.94	..	0.26	..
Sikkim	1.00	..	0.15	..
SUB-TOTAL	704.66	7,470.41	61.06	862.37
Andhra Pradesh	378.96	2,124.81	43.71	..
Karnataka	463.46	3,212.21	69.73	..
Kerala	224.00	1,444.23	37.73	..
Tamil Nadu	702.23	3,484.78	90.12	53.13
Pondicherry	9.94	52.28	2.21	..
Lakshadweep (E)	0.02	..	0.02	..
SUB-TOTAL	1,778.61	10,318.31	243.52	53.13
Assam	155.60	276.90	7.30	..
Manipur (E)	2.50	..	Neg.	..
Meghalaya	3.79	10.68	0.70	..
Nagaland	0.76	..	1.01	..
Tripura	3.84	0.50	0.31	..
Arunachal Pradesh	0.73	..	0.89	..
Mizoram	Neg.	..	0.29	..
SUB-TOTAL	167.22	288.08	10.50	..
TOTAL (ALL INDIA)	7,371.21	38,584.27	711.62	2,301.15

NOTE :

- (A)—Included in Industrial (Low & Medium) voltage.
 (B)—Includes 846.12 GWH sales to Nangal fertilizers by BBMB.
 (E)—Estimated.

TABLE NO. 56—Contd.

(GWH)

State/U.Ts.	Agriculture	Public Water works and sewage pumping	Miscellaneous
Haryana	936.02	20.07	51.12
Himachal Pradesh	5.42	(A)	49.69
Jammu & Kashmir	23.25	41.00	103.85
Punjab	1,896.34	7.07(C)	114.03
Rajasthan	919.19	133.50	83.91
Uttar Pradesh	2,548.04	136.46	53.17
Chandigarh	1.49	2.35	5.15
Delhi	14.00	(A)	50.00
SUB-TOTAL	6,343.75	340.45	510.92
Gujarat	1,246.71	183.70	35.72
Madhya Pradesh	336.72	155.21	0.12
Maharashtra	1,343.61	262.45	184.23
Goa, Daman & Diu	2.06	20.66	8.67
D. & N. Haveli	0.35	0.09	..
SUB-TOTAL	2,929.45	622.11	228.74
Bihar	444.07	48.52	15.54
Orissa	45.95	33.57	41.89
West Bengal	75.52	160.60	97.58
A. & N. Islands . . . . .	..	0.21	0.03
Sikkim . . . . .	..	..	..
SUB-TOTAL	565.54	242.90	155.04
Andhra Pradesh	951.03	65.76	62.75
Karnataka	368.45	0.32	18.98
Kerala	80.58	32.38	7.02
Tamil Nadu	2,178.06	81.77	124.89
Pondicherry	30.49	5.32	..
Lakshadweep (E) . . . . .	..	..	..
SUB-TOTAL	3,608.61	185.55	213.64
Assam	2.90	14.40	66.40
Manipur . . . . .	..	Neg.	..
Meghalaya	Neg.	0.34	12.06
Nagaland . . . . .	..	0.19	7.21
Tripura	1.75	1.68	0.84
Arunachal Pradesh . . . . .	..	0.10	1.93
Mizoram . . . . .	..	0.04	0.02
SUB-TOTAL	4.65	16.75	88.46
TOTAL (ALL INDIA)	13,452.00	1,407.76	1,196.80

NOTE :

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

Miscellaneous—Includes supply to non-traction, non-industrial, M.E.S., Irrigation Board Project under construction & free colony consumption etc.

TABLE NO. 57

Energy sales by State Electricity Boards
Categorywise-Regionwise during 1979-80.

(GWH)				
Region	State/U.Ts.	Total sold to ultimate consumers	Domestic	Commercial
<i>Northern Region</i>	Haryana	2,354.59	185.59	67.45
	Himachal Pradesh	216.27	54.93	28.00
	Jammu & Kashmir	403.00	85.00	35.50
	Punjab	3,927.21	386.86	110.36
	Rajasthan	2,969.00	204.33	140.09
	Uttar Pradesh	7,573.94	804.32	51.24
	SUB-TOTAL		17,444.01	1,721.03	432.64
<i>Western Region</i>	Gujarat	5,119.69	368.79	63.85
	Madhya Pradesh	4,334.45	299.62	206.45
	Maharashtra	6,796.28	660.73	285.31
	SUB-TOTAL		16,250.42	1,329.14	555.61
<i>Eastern Region</i>	Bihar (A)	2,579.23	150.28	102.54
	Orissa	2,175.48	112.00	85.40
	West Bengal (A)	1,692.02	137.24	122.92
	SUB-TOTAL		6,446.73	399.52	310.86
<i>Southern Region</i>	Andhra Pradesh	4,486.04	498.19	402.81
	Karnataka	4,839.13	596.82	121.43
	Kerala	2,304.49	354.03	157.97
	Tamil Nadu	7,657.19	724.79	695.06
	SUB-TOTAL		19,286.85	2,173.83	1,287.27
<i>North Eastern Region</i>	Assam	609.80	57.70	28.60
	Meghalaya	45.23	9.95	7.71
	SUB-TOTAL		655.03	67.65	36.31
TOTAL (ALL INDIA)		60,083.04	5,691.17	2,622.69

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

TABLE NO 57—Contd.

(GWH)			
Name of the State Electricity Board	Industrial (Low & Medium Voltage)	Industrial (High Voltage)	Public lighting
Haryana	299.69	787.43	7.22
Himachal Pradesh	93.34	(B)	1.85
Jammu & Kashmir	126.00	(B)	6.25
Punjab	509.70	911.21	10.23
Rajasthan	289.32	1,181.63	20.33
Uttar Pradesh	793.84	2,837.66	33.24
SUB-TOTAL	2,111.89	5,717.93	79.12
Gujarat	475.33	2,738.11	44.96
Madhya Pradesh	298.94	2,906.84	34.23
Maharashtra	655.27	3,260.29	98.80
SUB-TOTAL	1,429.54	8,905.24	177.99
Bihar	235.32	1,384.70	4.50
Orissa	84.18	1,666.22	9.00
West Bengal	141.90	843.38	9.74
SUB-TOTAL	461.40	3,894.30	23.24
Andhra Pradesh	372.83	2,124.81	43.06
Karnataka	460.12	3,211.39	69.48
Kerala	205.20	1,432.33	35.54
Tamil Nadu	663.96	3,145.59	84.02
SUB-TOTAL	1,702.11	9,914.12	232.10
Assam	155.60(C)	276.90	7.30
Meghalaya	3.79	10.68	0.70
SUB TOTAL	159.39	287.58	8.00
TOTAL (ALL INDIA)	5,864.33	28,719.17	520.45

NOTE :

(B)—Included in Industrial (Low & Medium) voltage.

(C)—Includes 95.40 GWH sales to tea gardens.

TABLE NO. 57—Concl'd.

Name of the State Electricity Board	Traction	Agriculture	Public Water Works	Miscellaneous
Haryana . . . . .	..	936.02	20.07	51.12
Himachal Pradesh . . . . .	..	5.42	(B)	32.73
Jammu & Kashmir . . . . .	..	23.25	41.00	86.00
Punjab . . . . .	..	1,896.21	(D)	102.64(£)
Rajasthan . . . . .	..	916.04	133.35	83.91
Uttar Pradesh	334.78	2,529.23	136.46	53.17
SUB-TOTAL	334.78	6,306.17	330.88	409.57
Gujarat	136.23	1,213.20	79.22	..
Madhya Pradesh	102.88	330.37	155.12	..
Maharashtra	157.10	1,270.52	224.79	183.47
SUB-TOTAL	396.21	2,814.09	459.13	183.47
Bihar	213.30	440.07	48.52	..
Orissa	98.22	45.00	33.57	41.89
West Bengal	293.83	75.50	21.00	46.51
SUB-TOTAL	605.35	560.57	103.09	88.40
Andhra Pradesh . . . . .	..	915.89	65.76	62.69
Karnataka . . . . .	..	360.91	(B)	18.98
Kerala . . . . .	..	80.38	32.04	7.00
Tamil Nadu	53.13	2,177.03	79.76	123.85
SUB-TOTAL	53.13	3,534.21	177.56	212.52
Assam . . . . .	..	2.90	14.40	66.40
Meghalaya . . . . .	..	Neg.	0.34	12.06
SUB-TOTAL . . . . .	..	2.90	14.74	78.46
TOTAL (ALL INDIA)	1,389.47	13,217.94	1,085.40	972.42

NOTE :

(D)—Included in Agriculture category.

Miscellaneous—Includes supply to non-traction, non-industrial, M.E.S., Irrigation Board, Projects under construction, free colony consumption etc.

(£)—Includes 10.00 GWH sales to Irrigation Board, 38.14 GWH to B.S.L. by B.B.M.B. and 94.31 GWH sales to M.E.S. by P.S.E.B.

TABLE NO. 58

Energy sales by private licensees
Categorywise-Regionwise/Statewise during 1979-80.

(GWH)				
Region	State/U.T.s	Total sold to ultimate consumers	Domestic	Commercial
<i>Northern Region</i>	Rajasthan	5.41	0.74	(A)
	Uttar Pradesh	36.76	1.61	..
	SUB-TOTAL	42.17	2.35	..
<i>Western Region</i>	Gujarat	1,998.82	199.63	214.49
	Madhya Pradesh	12.17	2.44	1.70
	Maharashtra	4,541.44	469.08	156.37
	SUB-TOTAL	6,552.43	671.15	372.56
<i>Eastern Region</i>	Bihar	8.71	0.92	..
	Orissa	5.10	1.80	1.32
	West Bengal	3,062.04	592.69	396.61
	SUB-TOTAL	3,075.85	595.41	397.93
<i>Southern Region</i>	Andhra Pradesh	46.93	3.74	1.21
	Karnataka	14.75	2.08	0.40
	Kerala	29.25	4.90	2.30
	SUB-TOTAL	90.93	10.72	3.91
TOTAL (ALL-INDIA)		9,761.38	1,279.63	774.40

(A)—Included in Domestic category.

TABLE NO. 58—Contd.

State/U.Ts.	Industrial power (low & medium voltage)	Industrial power (high voltage)	Public lighting	Traction
Rajasthan	1.31	..	0.06	..
Uttar Pradesh	5.58	10.72	0.04	..
SUB-TOTAL	6.89	10.72	0.10	..
Gujarat	262.54	1,150.77	19.57	..
Madhya Pradesh	1.28	..	0.19	..
Maharashtra	332.46	3,038.85	32.15	428.32
SUB-TOTAL	596.28	4,189.62	51.91	428.32
Bihar	1.76	2.03	Neg.	..
Orissa	0.95	..	0.08	..
West Bengal	235.34	1,591.24	36.83	29.00
SUB-TOTAL	238.05	1,593.27	36.91	29.00
Andhra Pradesh	6.13	..	0.65	..
Karnataka	3.34	0.82	0.25	..
Kerala	14.30	6.90	0.49	..
SUB-TOTAL	23.77	7.72	1.39	..
TOTAL (ALL-INDIA)	864.99	5,801.33	90.31	457.32

TABLE NO. 58—Contd.

State/U.Ts.	Agricultural	Public Water Works & Sewage pumping	Miscellaneous
Rajasthan	3.15	0.15	..
Uttar Pradesh	18.81	..	..
SUB-TOTAL	21.96	0.15	..
Gujarat	26.24	93.30	32.28
Madhya Pradesh	6.35	0.09	0.12
Maharashtra	72.16	11.34	0.71
SUB-TOTAL	104.75	104.73	33.11
Bihar	4.00	..	..
Orissa	0.95	..	..
West Bengal	0.02	129.29	51.02
SUB-TOTAL	4.97	129.29	51.02
Andhra Pradesh	35.14	..	0.06
Karnataka	7.54	0.32	Neg.
Kerala . . . . .	..	0.34	0.02
SUB-TOTAL	42.68	0.66	0.08
TOTAL (ALL-INDIA)	174.36	234.83	84.21

TABLE NO. 59

Energy sales to ultimate consumers By electricity departments, central sector, corporations, Government undertakings & Municipalities
Categorywise/Regionwise/Statewise during 1979-80

Region	State/U.Ts.	Total Energy Sold	Domestic	Commercial
<i>I. Municipalities</i>				
<i>Northern Region</i>	Punjab	131.37	33.84	26.44
	D.E.S.U.	1,723.00	592.00	418.00
	N.D.M.C.	357.25	65.00	247.00
<i>Western Region</i>	Gujarat	187.46	58.48	3.07
	Maharashtra	1,355.77	489.69	457.21
<i>Southern Region</i>	Kerala	22.40	5.00	6.00
	Tamil Nadu	156.10	51.89	44.57
<i>II. Govt. Depts./Central Sector Undertakings/Corporation</i>				
<i>Northern Region</i>	Punjab (BBMB)	856.12	..	..
	H.P. (Bairasiul)	16.96	..	..
	J & K (Salal)	17.85	..	..
	Chandigarh	152.18	48.80	26.95
	Central Sector (Badarpur TPS)	2.90	2.90	..
	<i>Western Region</i>	Maharashtra (Chola)	226.34	..
	D & N Haveli (R)	4.63	0.68	0.29
	Goa, Daman & Diu	257.43	26.59	11.07
<i>Eastern Region</i>	D.V.C. (in Bihar)	1,353.13	..	0.03
	D.V.C. (in W.B.)	639.53	..	0.04
	Sikkim	4.00	2.85	(A)
	West Bengal (D.P.L.)	254.57	6.58	1.05
	A & N Islands	7.72	2.38	2.90
<i>Southern Region</i>	Lakshadweep(E)	0.92	0.56	0.22
	Pondicherry	122.04	15.14	6.66
	Central Sector (Neyveli)	328.00	..	..
<i>North Eastern Region</i>	Manipur (E)	8.43	5.30	0.63
	Nagaland	17.85	5.30	3.38
	Tripura	25.15	13.03	3.20
	Arunachal Pradesh	7.24	3.19	0.40
	Mizoram	2.21	1.48	0.38
TOTAL (I+II)		8,238.55	1,430.78	1,259.49

TABLE No. 59—Contd.

Ownership	State/U.Ts.	Industrial Power (Low & Medium Voltage)	Industrial Power (High Voltage)	Public Lighting	Traction
I. Municipalities :					
	Punjab	56.04	3.16	3.30	..
	D.E.S.U. . . .	225.00	383.00	41.00	..
	N.D.M.C. . . .	38.00	..	7.25	..
	Gujarat	25.94	74.63	3.45	..
	Maharashtra	194.79	160.23	26.55	..
	Kerala	4.50	5.00	1.70	..
	Tamil Nadu	38.27	11.19	6.10	..
II. Govt. Deptts./ Undertakings					
	Punjab (BBMB) . . . .	..	846.12	..	..
	H.P. (Baira siul) . . . .	..	..	..	..
	J & K (Salal) . . . .	..	..	..	..
	Chandigarh	23.25	41.04	3.15	..
	Central Sector (Badarpur T.P.S.) . . . .	..	..	..	..
	Maharashtra (Chola) . . . .	..	..	..	226.34
	D & N Haveli	0.42	2.67	0.13	..
	Goa, Daman & Diu	12.68	173.11	2.59	..
	D.V.C. (in Bihar) . . . .	..	1,190.55	..	147.01
	D.V.C. (in W.B.) . . . .	..	558.48	..	81.01
	Sikkim	1.00	..	0.15	..
	D.P.L. (W.B.)	2.27	233.81	0.50	..
	A & N Islands	1.94	..	0.26	..
	Lakshadweep	0.02	..	0.02	..
	Pondicherry	9.94	52.28	2.21	..
	Central Sector (Neyveli) . . . .	..	328.00	..	..
	Manipur	2.50	..	..	..
	Nagaland	0.76	..	1.01	..
	Tripura	3.84	0.50	0.31	..
	Arunachal Pradesh	0.73	..	0.89	..
	Mizoram	Neg.	..	0.29	..
	TOTAL (I+II)	641.89	4,063.77	100.86	45.436

TABLE NO. 59—*Contd.*

(GWH)			
State/U.Ts.	Agricultural	Public Water Works & Sewage pumping	Miscellaneous
I. Municipalities :			
Punjab	0.13	7.07	1.39
D.E.S.U.	14.00	(C)	50.00
N.D.M.C. . . . .	..	(C)	..
Gujarat	7.27	11.18	3.44
Maharashtra	0.93	26.32	0.05
Kerala	0.20	..	..
Tamil Nadu	1.03	2.01	1.04
II. Govt. Deptts./Undertakings			
B.B.M.B. in Punjab . . . . .	..	..	10.00 (B)
H.P. (Baira-Siul) . . . . .	..	..	16.96
J & K (Salal H.E.P.) . . . . .	..	..	17.85
Chandigarh	1.49	2.35	5.15
Central Sector (BTPS) . . . . .	..	..	..
Maharashtra (Chola) . . . . .	..	..	..
D & N Haveli	0.35	0.09	..
Goa, Daman & Diu	2.06	20.65	8.67
D.V.C. (in Bihar) . . . . .	..	..	15.54
D.V.C. (in West Bengal) . . . . .	..	..	..
Sikkim . . . . .	..	..	..
West Bengal (D.P.L.) . . . . .	..	10.31	0.05
A & N Islands . . . . .	..	0.21	0.03
Lakshadweep . . . . .	..	..	..
Pondicherry	30.49	5.32	..
Central Sector (Neyveli) . . . . .	..	..	..
Manipur . . . . .	..	..	..
Nagaland . . . . .	..	0.19	7.21
Tripura	1.75	1.68	0.84
Arunachal Pradesh . . . . .	..	0.10	1.93
Mizoram . . . . .	..	0.04	0.02
TOTAL (I- II)	59.70	87.53	140.71

(A)—Included in Domestic category. ¶

(B)—Sales to Irrigation Board.

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

(E)—Estimated.

(R)—Repeated due to non-availability of data.

TABLE NO. 60
PATTERN OF ENERGY SALES (CATEGORYWISE)
REGIONWISE/STATEWISE DURING 1979-80

Region	State/U.Ts.	Total Sales (GWH)	Percentage to total sales	
			Domestic	Commercial
<i>Northern Region</i>	Haryana	2,354.59	7.88	2.87
	Himachal Pradesh	233.23	23.55	12.01
	Jammu & Kashmir	420.85	20.20	8.44
	Punjab	4,914.70	8.56	2.78
	Rajasthan	2,974.41	6.89	4.71
	Uttar Pradesh	7,610.70	10.59	0.67
	Chandigarh	152.18	32.07	17.71
	Delhi	2,083.15	31.68	31.92
	Sub-TOTAL	20,743.81	11.89	5.55
<i>Western Region</i>	Gujarat	7,305.97	8.58	3.85
	Madhya Pradesh	4,346.62	6.95	4.79
	Maharashtra	12,919.83	12.53	6.96
	Goa, Daman & Diu	257.43	10.33	4.30
	D & N Haveli	4.63	14.69	6.26
		Sub-TOTAL	24,834.48	10.37	5.64
<i>Eastern Region</i>	Bihar	3,941.07	3.84	2.60
	Orissa	2,180.58	5.22	3.98
	West Bengal	5,648.16	13.04	9.22
	A & N Islands	7.72	30.83	37.56
	Sikkim	4.00	71.25	..
		Sub-TOTAL	11,781.53	8.55	6.05
<i>Southern Region</i>	Andhra Pradesh	4,532.97	11.07	8.91
	Karnataka	4,853.88	12.34	2.51
	Kerala	2,356.14	15.45	7.06
	Tamil Nadu	8,141.29	9.54	7.98
	Pondicherry	122.04	12.41	5.46
	Lakshadweep	0.92	71.74	23.92
		Sub-TOTAL	2,0007.24	11.28	6.74
<i>North Eastern Region</i>	Assam	609.80	9.46	4.69
	Manipur	8.43	62.87	7.47
	Meghalaya	45.23	22.00	17.05
	Nagaland	17.85	29.69	18.94
	Tripura	25.15	51.81	12.72
	Arunachal Pradesh	7.24	44.06	5.53
	Mizoram	2.21	66.97	17.19
		Sub-TOTAL	715.91	13.40	6.19
	TOTAL (ALL INDIA)	78,082.97	10.76	5.96

TABLE NO. 60—Contd.

State/U.Ts.	Percentage to total sales		
	Industrial Power	Public Lighting	Traction
Haryana	46.17	0.31	..
Himachal Pradesh	40.02	0.79	..
Jammu & Kashmir	29.93	1.49	..
Punjab	47.33	0.28	..
Rajasthan	49.50	0.69	..
Uttar Pradesh	47.93	0.44	4.40
Chandigarh	42.25	2.07	..
Delhi	31.01	2.32	..
SUB-TOTAL	45.62	0.65	1.61
Gujarat	64.71	0.93	1.87
Madhya Pradesh	73.78	0.79	2.37
Maharashtra	59.15	1.22	6.28
Goa, Daman & Diu	72.17	1.01	..
D & N Haveli	66.74	2.81	..
SUB-TOTAL	63.48	1.06	4.23
Bihar	71.41	0.12	9.14
Orissa	80.31	0.42	4.50
West Bengal	63.85	0.83	7.15
A & N Islands	25.13	3.37	..
Sikkim	25.00	3.75	..
SUB-TOTAL	69.38	0.52	7.32
Andhra Pradesh	55.24	0.96	..
Karnataka	75.72	1.44	..
Kerala	70.80	1.60	..
Tamil Nadu	51.43	1.11	0.65
Pondicherry	50.98	1.81	..
Lakshadweep	2.17	2.17	..
SUB-TOTAL	60.46	1.22	0.26
Assam	70.92	1.20	..
Manipur	29.66	..	..
Meghalaya	31.99	1.55	..
Nagaland	4.26	5.66	..
Tripura	17.26	1.23	..
Arunachal Pradesh	10.08	12.29	..
Mizoram . . . . .	..	13.12	..
SUB-TOTAL	63.60	1.46	..
TOTAL (ALL INDIA)	58.86	0.91	2.95

TABLE NO. 60—Contd.

State/U.Ts.	Percentage to total sales		
	Agriculture	Public Water Works	Miscellaneous
Haryana	39.75	0.85	2.17
Himachal Pradesh	2.32	..	21.31
Jammu & Kashmir	5.52	9.74	24.68
Punjab	38.59	0.14	2.32
Rajasthan	30.90	4.49	2.82
Uttar Pradesh	33.48	1.79	0.70
Chandigarh	0.98	1.54	3.38
Delhi	0.67	..	2.40
SUB-TOTAL	30.58	1.64	2.46
Gujarat	17.06	2.51	0.49
Madhya Pradesh	7.75	3.57	Neg.
Maharashtra	10.40	2.03	1.43
Goa, Daman & Diu	0.80	8.02	3.37
D & N Haveli	7.56	1.94	..
SUB-TOTAL	11.80	2.50	0.92
Bihar	11.27	1.23	0.39
Orissa	2.11	1.54	1.92
West Bengal	1.34	2.84	1.73
A & N Islands . . . . .	..	2.72	0.39
Sikkim . . . . .	..	..	..
SUB-TOTAL	4.80	2.06	1.32
Andhra Pradesh	20.98	1.45	1.39
Karnataka	7.59	0.01	0.39
Kerala	3.42	1.37	0.30
Tamil Nadu	26.75	1.01	1.53
Pondicherry	24.98	4.36	..
Lakshadweep . . . . .	..	..	..
SUB-TOTAL	18.04	0.93	1.07
Assam	0.48	2.36	10.89
Manipur . . . . .	..	..	..
Meghalaya . . . . .	..	0.75	26.66
Nagaland . . . . .	..	1.06	40.39
Tripura	6.96	6.68	3.34
Arunachal Pradesh . . . . .	..	1.38	26.66
Mizoram . . . . .	..	1.81	0.91
SUB-TOTAL	0.65	2.34	12.36
TOTAL (ALL INDIA)	17.23	1.80	1.53

TABLE NO. 61
ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY
UTILITIES AND NON-UTILITIES
CATEGORYWISE REGIONWISE/STATEWISE DURING 1979-1980

(in KWH)

Region	State/U.Ts.	UTILITIES		
		Population* (Million)	Domestic	Commercial
<i>Northern Region</i>	Haryana	12.11	15.33	5.57
	Himachal Pradesh	4.12	13.33	6.80
	Jammu & Kashmir	5.77	14.73	6.15
	Punjab	15.68	26.83	8.72
	Rajasthan	32.31	6.35	4.34
	Uttar Pradesh	103.13	7.81	0.50
	Chandighr	0.466	104.72	57.83
	Delhi	5.84	113.00	113.87
	SUB-TOTAL	179.43	13.74	6.41
<i>Western Region</i>	Gujarat	32.11	19.52	8.76
	Madhya Pradesh	51.50	5.87	4.04
	Maharashtra	59.38	27.27	15.14
	Goa, Daman & Diu	1.12	23.74	9.88
	D&N Haveli	0.086	7.91	3.37
	SUB-TOTAL	144.20	17.86	9.71
<i>Eastern Region</i>	Bihar	66.53	2.27	1.54
	Orissa	26.33	4.32	3.29
	West Bengal	54.31	13.56	9.59
	A & N Islands	0.183	13.01	15.85
	Sikkim	0.253	11.27	(A)
		SUB -TOTAL	147.60	6.83	4.83
<i>Southern Region</i>	Andhra Pradesh	50.27	9.98	8.04
	Karnataka	34.69	17.26	3.51
	Kerala	25.34	14.36	6.56
	Tamil Nadu	46.47	16.71	13.98
	Pondicherry	0.573	26.42	11.62
	Lakshadweep	0.035	18.86	6.29
		SUB-TOTAL	157.38	14.34	8.57
<i>North Eastern Region</i>	Assam	19.18	3.01	1.49
	Manipur	1.40	3.79	0.45
	Meghalaya	1.28	7.77	6.02
	Nagaland	0.683	7.76	4.95
	Tripura	2.013	6.47	1.59
	Arunachal Pradesh	0.613	5.20	0.65
	Mizoram	0.38	3.89	1.00
		SUB-TOTAL	25.55	3.76	1.73
	TOTAL (ALL INDIA)	654.16 @	12.84	7.12

*Figures of population as on 30th Sept., 1979 (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, Public Water Works, Traction & Miscellaneous	Public Lighting	Agriculture
Haryana	95.64	0.60	77.24
Himachal Pradesh	34.71	0.45	1.32
Jammu & Kashmir	46.95	1.08	4.03
Punjab	156.09	0.86	120.94
Rajasthan	52.29	0.63	28.45
Uttar Pradesh	40.46	0.32	24.71
Chandigarh	154.26	6.76	3.00
Delhi	119.17	8.26	2.40
SUB-TOTAL	59.35	0.75	35.36
Gujarat	158.30	2.12	38.83
Madhya Pradesh	67.28	0.67	6.54
Maharashtra	149.89	2.65	22.63
Goa, Daman & Diu	192.08	2.31	1.84
D & N Haveli	36.98	1.51	4.07
SUB-TOTAL	122.51	1.82	20.32
Bihar	48.69	0.07	6.67
Orissa	73.12	0.34	1.75
West Bengal	78.59	0.87	1.39
A & N Islands	11.91	1.42	..
Sikkim	3.95	0.59	..
SUB-TOTAL	63.93	0.41	3.83
Andhra Pradesh	52.36	0.87	18.92
Karnataka	106.52	2.01	10.62
Kerala	67.39	1.49	3.18
Tamil Nadu	88.34	1.94	46.87
Pondicherry	117.87	3.86	53.21
Lakshadweep	0.57	0.57	..
SUB-TOTAL	79.74	1.55	22.93
Assam	26.76	0.38	0.15
Manipur	1.78	..	..
Meghalaya	21.00	0.55	..
Nagaland	11.94	1.48	..
Tripura	3.41	0.15	0.87
Arunachal Pradesh	4.51	1.45	..
Mizoram	0.17	0.76	..
SUB-TOTAL	21.94	0.41	0.18
TOTAL (ALL INDIA)	77.75	1.09	20.56

(A)=Included in Domestic.

TABLE NO. 61—Contd.

(in KWH)

State/U.Ts.	Total Utilities	KWH from self generation of non-utilities	Total utilities + non-utilities
Haryana	194.43	10.47	204.90
Himachal Pradesh	56.61	0.02	56.63
Jammu & Kashmir	72.94	0.01	72.95
Punjab	313.44	0.93	314.37
Rajasthan	92.06	10.45	102.51
Uttar Pradesh	73.80	12.87	86.67
Chandigarh	326.57	0.47	327.04
Delhi	356.70	20.57	377.27
SUB-TOTAL	115.61	10.74	126.35
Gujarat	227.53	14.06	241.59
Madhya Pradesh	84.40	11.55	95.95
Maharashtra	217.58	10.64	228.22
Goa, Daman & Diu	229.85	39.95	269.80
D & N Haveli	53.84	..	53.84
SUB-TOTAL	172.22	11.95	184.17
Bihar	59.24	20.70	79.94
Orissa	82.82	24.43	107.25
West Bengal	104.00	10.67	114.67
A & N Islands	42.19	..	42.19
Sikkim	15.81	..	15.81
SUB-TOTAL	79.83	17.62	97.45
Andhra Pradesh	90.17	6.23	96.40
Karnataka	139.92	5.86	145.78
Kerala	92.98	3.15	96.13
Tamil Nadu	175.19	7.63	182.82
Pondicherry	212.93	10.23	223.16
Lakshadweep	26.29	..	26.29
SUB-TOTAL	127.13	6.09	133.22
Assam	31.79	3.70	35.49
Manipur	6.02	..	6.02
Meghalaya	35.34	..	35.34
Nagaland	26.13	3.54	29.67
Tripura	12.49	..	12.49
Arunachal Pradesh	11.81	..	11.81
Mizoram	5.82	..	5.82
SUB-TOTAL	28.02	2.87	30.89
TOTAL (ALL INDIA)	119.36	11.13	130.49

TABLE No. 62

**ENERGY CONSUMPTION PER SQUARE KILOMETRE AND PER THOUSAND
POPULATION (UTILITIES ONLY)**
Regionwise/Statewise during 1979-80

Region	State/U.Ts.	Population (Million)	Area in 1000 Sq. Kilometre	Total Energy Con- sumption (GWH)
<i>Northern Region</i>	Haryana	12.11	44.22	2,354.59
	Himachal Pradesh	4.13	55.67	233.23
	Jammu & Kashmir	5.77	222.24	420.85
	Punjab	15.68	50.36	4,914.70
	Rajasthan	32.31	342.21	2,974.41
	Uttar Pradesh	103.13	294.41	7,610.70
	Chandigarh	0.466	0.11	152.18
	Delhi	5.84	1.48	2,083.15
	SUB-TOTAL	179.43	1,010.70	20,743.81
<i>Western Region</i>	Gujarat	32.11	195.98	7,305.97
	Madhya Pradesh	51.50	442.84	4,346.62
	Maharashtra	59.38	307.76	12,919.83
	Goa, Daman & Diu	1.12	3.81	257.43
	Dadra & Nagar Haveli	0.086	0.49	4.63
		SUB-TOTAL	144.20	950.88	24,834.48
<i>Eastern Region</i>	Bihar	66.53	173.83	3,941.07
	Orissa	26.33	155.78	2,180.58
	West Bengal	54.31	87.86	5,648.16
	A & N Islands	0.183	8.20	7.72
	Sikkim	0.253	7.30	4.00
		SUB-TOTAL	147.60	433.11	11,781.53
<i>Southern Region</i>	Andhra Pradesh	50.27	276.81	4,532.97
	Karnataka	34.69	191.77	4,853.88
	Kerala	25.34	33.86	2,356.14
	Tamil Nadu	46.47	130.07	8,141.29
	Pondicherry	0.573	0.48	122.04
	Lakshadweep	0.035	0.03	0.92
		SUB-TOTAL	157.38	638.02	20,007.24
<i>North Eastern Region</i>	Assam	19.18	78.52	609.80
	Manipur	1.40	22.36	8.43
	Meghalaya	1.28	22.49	45.23
	Nagaland	0.683	16.53	17.85
	Tripura	2.013	10.48	25.15
	Arunachal Pradesh	0.613	83.58	7.24
	Mizoram	0.38	21.09	2.21
		SUB-TOTAL	25.55	255.05	715.91
	TOTAL (ALL INDIA)	654.16 @	3,287.78 @	78,082.97

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—Contd.

State/U.Ts.	Energy consumed per thousand of population (kwh)	Energy consumed per square kilometre (kwh)
Haryana	1,94,434	53,247
Himachal Pradesh	56,609	4,190
Jammu and Kashmir	72,938	1,894
Punjab	3,13,438	97,591
Rajasthan	92,058	8,692
Uttar Pradesh	73,797	25,851
Chandigarh	3,26,567	13,83,455
Delhi	3,56,704	14,07,533
SUB-TOTAL	1,15,609	20,524
Gujarat	2,27,529	37,279
Madhya Pradesh	84,400	9,815
Maharashtra	2,17,579	41,980
Goa, Daman & Diu	2,29,848	67,567
Dadra and Nagar Haveli	53,837	9,449
SUB-TOTAL	1,72,222	26,117
Bihar	59,237	22,665
Orissa	82,817	13,998
West Bengal	1,03,999	64,286
A & N Islands	42,186	931
Sikkim	15,810	548
SUB-TOTAL	79,825	27,204
Andhra Pradesh	90,172	16,376
Karnataka	1,39,922	25,311
Kerala	92,981	60,631
Tamil Nadu	1,75,195	62,592
Pondicherry	2,12,984	2,54,250
Lakshadweep	26,286	30,667
SUB-TOTAL	1,27,127	31,358
Assam	31,794	7,766
Manipur	6,021	377
Meghalaya	35,336	2,011
Nagaland	26,135	1,080
Tripura	12,494	2,400
Arunachal Pradesh	11,811	87
Mizoram	5,816	105
SUB-TOTAL	28,020	2,807
TOTAL (ALL INDIA)	1,19,365	23,750

TABLE No. 63

ELECTRICAL ACCIDENTS DURING 1979-80

State/UTs/Central Undertakings	Total		Power Houses & Sub-Stations			
	Fatal	Non-Fatal	Electric Supply Under- taking		Industrial Undertaking	
			Fatal	Non-Fatal	Fatal	Non-Fatal
Andhra Pradesh . . .	133+27*	97	1	4	..	..
Assam	21+21*	36	1*	8	..	..
Bihar	27+2*	30	6	18	4	12
Gujarat	149+197*	226	..	15	4+1*	2
Haryana (B)	59+314*	138	9	7	3	..
Himachal Pradesh . .	15+14*	46	Details not available.			
Jammu & Kashmir . .	Data not available					
Karnataka	151+119*	213	..	..	..	..
Kerala	119+34*	145+1*	1	4	..	..
Madhya Pradesh . . .	126+84*	111	2	11	1	1
Maharashtra	319+108*	357	12+1*	23	15	43
Manipur	2+1*	..	1	..	..	..
Meghalaya	3+7*	2	..	..	..	..
Nagaland	1	..	1	..	..	..
Orissa	46+32*	39+2*	2	1	..	..
Punjab	50+208*	72	3+1*	11	..	..
Rajasthan	63+22*	134	13	16	..	..
Sikkim	1	2	..	..	..	..
Tamil Nadu	185+66*	116	5	16	..	1
Tripura	5	6	..	..	..	..
Uttar Pradesh	247+126*	250+8*	18+4*	43	1	1
West Bengal	89+25*	143	4	15	..	..
Mines (A)	5	17	..	..	..	2
Central Govt. Installations	1	2	1	2	..	..
Railways	64	69	..	1	..	3
<i>Union Territories</i>						
A. & N. Islands . . .	1	4	1	1	..	..
Arunachal Pradesh . .	..	1	..	..	..	..
Chandigarh	1	2	..	..	..	..
D. & N. Haveli . . . .	..	1	Details not available.			
Delhi	33+5*	51	1	3	5	2
Goa, Daman & Diu . . .	22	17	Details not available.			
Lakshadweep	Not available					
Mizoram	5+1*	..	..	..	..	..
Pondicherry	Data not available					
TOTAL (ALL-INDIA) . .	1,943+1,413*	2,337+11*	82+7*	199	33+1*	67

*Accidents involving Animals.

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

(B) 314 Accidents involving animals in Fatal details of which is not available.

TABLE No. 63—Contd.

State/UTs/Central Undertakings	Transmission Lines			
	Electric supply Undertaking		Industrial Undertaking	
	Fatal	Non-Fatal	Fatal	Non-Fatal
Andhra Pradesh	3	2	..	..
Assam	14+10*	14	..	..
Bihar . . . . .	..	..	..	..
Gujarat	1+28*	52	..	..
Haryana	4	..	..	..
Himachal Pradesh		Details not available.		
Jammu & Kashmir		Data not available.		
Karnataka	1+119*	14	..	..
Kerala	18	17	..	2
Madhya Pradesh	23+6*	22	1	..
Maharashtra	47+16*	63	7+2*	16
Manipur . . . . .	..	..	..	..
Meghalaya	1+7*	1	..	..
Nagaland . . . . .	..	..	..	..
Orissa	7	2*	..	..
Punjab	1	..	..	..
Rajasthan	16+3*	23	..	..
Sikkim	1	2	..	..
Tamil Nadu	6	5	1	..
Tripura . . . . .	..	..	..	..
Uttar Pradesh	106+28*	86+6*	4	1
West Bengal	33+3*	27	..	..
Mines (A) . . . . .	..	..	..	1
Central Govt. Installation Railways . . . . .	..	Details not available. ..	1	4
<i>Union Territories</i>				
A. & N. Islands . . . . .	..	..	..	..
Arunachal Pradesh . . . . .	..	..	..	..
Chandigarh . . . . .	..	..	..	..
D. & N. Haveli . . . . .	..	Details not available.	..	..
Delhi . . . . .	..	..	..	..
Goa, Daman & Diu . . . . .	..	Details not available.	..	..
Lakshadweep . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
Pondicherry . . . . .	..	Data not available.	..	..
TOTAL (ALL-INDIA)	302+220*	328+8*	14+2*	24

* 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.	126+26*	89	3+1*	2
Assam	7+10*	13	..	1
Bihar	17+2*	..	..	..
Gujarat	117+168*	143	7	24
Haryana	43	131	..	..
Himachal Pradesh . . . . .	..	Details not available.		
Jammu and Kashmir . . . . .	..	..	..	..
Karnataka	150	199	..	..
Kerala	96+34*	116	4	6+1*
Madhya Pradesh	88+78*	64	11	13
Maharashtra	197+81*	195	41+8*	17
Manipur	1+1*	..	..	..
Meghalaya	2	1	..	..
Nagaland . . . . .	..	..	..	..
Orissa	37+32*	26	..	12
Punjab	44+207*	61	2	..
Rajasthan	31+19*	94	3	1
Sikkim . . . . .	..	..	..	..
Tamil Nadu	168+66*	91	5	3
Tripura	5	6	..	..
Uttar Pradesh	96+91*	108+2*	22+3*	11
West Bengal	39+22*	64	13	37
Mines (A) . . . . .	..	..	5	14
Central Govt. Installations.	..	..	..	..
Railways	13	29	50	32
<i>Union Territories</i>				
A. & N. Islands . . . . .	..	3	..	..
Arunachal Pradesh . . . . .	..	1	..	..
Chandigarh	1	2	..	..
D. & N. Haveli . . . . .	..	..	..	..
Delhi	10+5*	46	17	..
Goa, Daman & Diu . . . . .	..	..	..	..
Lakshadweep . . . . .	..	..	..	..
Mizoram	4+1*	..	..	..
Pondicherry . . . . .	..	Data not available.		
TOTAL (ALL-INDIA)	1,292+843*	1,482+2*	183+12*	173+1*

*Accidents involving Animals.

SECTION IX
CONSUMERS AND CONNECTED LOAD

CONSUMERS AND CONNECTED LOAD

During the year under review, 2432 thousands additional electricity connections were given to different categories of consumers bringing the total number of consumers to 29.83 million as on 31st March, 1980 recording an increase of 8.88% over the previous year. The corresponding connected load of all types of consumers rose to 56123.40 MW as compared to 52010.64 MW as on 31-3-79 registering an increase of 7.91% 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 22621 MW followed by agricultural and domestic sectors having connected load of 15247 MW and 11716 MW 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 31-3-1980

Region	State/U.T.s.	Total		Domestic	
		Connected Load (KW)	Consumers	Connected Load (KW)	Consumers
Northern Region	Haryana (E)	21,45,486	10,92,900	2,33,508	7,07,600
	Himachal Pradesh	3,73,275	4,00,536	1,65,129	3,45,929
	Jammu & Kashmir (R)	1,91,574	2,91,304	59,172	2,42,809
	Punjab	33,04,484	20,09,213	7,51,062	14,41,287
	Rajasthan	25,10,598	12,26,401	4,41,889	7,61,168
	Uttar Pradesh	49,11,517	20,94,793	8,18,019	16,38,258
	Chandigarh	2,00,945	7,30,99	1,07,781	62,410
	Delhi	12,07,229	10,12,618	4,92,912	7,93,644
	SUB-TOTAL	1,48,45,108	82,00,864	30,69,472	59,93,10
Western Region	Gujarat	48,34,326	29,39,747	11,60,218	22,95,790*
	Madhya Pradesh	30,25,663	16,10,725	4,86,227	9,16,170
	Maharashtra	96,76,832	45,98,738	22,67,555	31,92,957
	Goa, Daman & Diu (E)	2,23,670	1,14,278	78,333	93,254
	D & N Haveli (R)	3,465	3,056	1,205	2,625
	SUB-TOTAL	1,77,63,956	92,66,544	39,93,538	65,00,796
Eastern Region	Bihar	20,92,407	8,74,856	2,34,498	4,60,799
	Orissa	11,12,946	4,53,503	1,94,771	3,26,491
	West Bengal (E)	31,77,059	12,53,537	8,24,999	8,49,391
	D. V. C.	5,20,030	37	..	..
	A & N Islands	6,846	13,225	3,715	9,288
	Sikkim	7,687	4,435	6,800	3,500
	SUB-TOTAL	69,16,975	25,99,593	12,64,783	16,49,46
Southern Region	Andhra Pradesh	41,94,314	22,33,928	6,86,054	14,25,296
	Karnataka	32,85,447	21,48,860	8,11,457	15,57,813
	Kerala	18,61,557	13,56,823	6,10,475	9,67,683
	Tamil Nadu (P)	66,63,996	37,15,516	11,39,031	20,53,106
	Pondicherry	1,06,820	56,446	24,060	37,490
	Lakshadweep	2,601	3,998	1,955	3,584
	SUB-TOTAL	1,61,14,735	95,15,571	32,73,032	60,44,972
North Eastern Region	Assam	3,74,138	1,26,930	61,600	87,735
	Manipur (R)	7,972	18,575	4,202	18,000
	Meghalaya	29,256	26,345	12,935	21,961
	Nagaland	33,169	30,533	23,033	24,421
	Tripura	27,647	24,841	7,574	18,936
	Arunachal Pradesh	4,488	13,243	3,430	10,913
	Mizoram	5,958	5,200	2,466	4,742
		SUB-TOTAL	4,82,628	2,45,667	1,15,240	1,86,708
	TOTAL (ALL INDIA)	5,61,23,402	2,98,28,239	1,17,16,065	2,03,75,050

TABLE No. 64—Contd.

State/U.Ts.	Commercial		Industrial (LV & MV)	
	Connected Load (KW)	Consumers	Connected Load (KW)	Consumers
Haryana	80,370	1,41,000	4,29,020	38,000
Himachal Pradesh	51,187	47,172	84,402	5,511
Jammu & Kashmir	18,240	38,591	70,620	6,702
Punjab	2,29,712	2,54,000	4,18,583	53,246
Rajasthan	1,75,318	2,29,926	4,42,941	43,592
Uttar Pradesh	84,617*	43,075*	10,12,821	1,06,973
Chandigarh	47,632	8,934	15,963	1,050
Delhi	3,34,328	1,80,270	2,39,686	37,189
SUB-TOTAL	10,21,404	9,42,968	27,14,066	2,92,263
Gujarat	2,91,913	3,03,930*	9,67,817	1,21,264
Madhya Pradesh	27,88,88	3,18,137	4,85,602	52,085
Maharashtra	7,16,837	6,37,689	14,00,155	1,40,436
Goa, Daman & Diu	16,297	16,297	24,000	2,545
Dadra & Nagar Haveli	40	73	980	73
SUB-TOTAL	13,03,975	12,76,122	28,78,554	3,16,403
Bihar	1,29,474	1,93,616	4,89,105	57,500
Orissa	86,727	1,00,111	1,95,813	13,064
West Bengal	4,71,962	3,05,880	4,28,662	71,508
D. V. C.	30	3	..	..
A. & N. Islands	1,846	3,693	885	177
Sikkim	(A)	(A)	850	35
SUB-TOTAL	6,90,039	6,03,303	11,15,315	1,42,284
Andhra Pradesh	3,78,366	3,07,803	5,27,116	48,733
Karnataka	1,57,874	2,17,719	4,32,825	66,973
Kerala	1,77,926	2,73,745	3,84,878	33,275
Tamil Nadu	4,00,471	5,96,730	7,84,948	1,44,228
Pondicherry	4,833	10,033	25,390	1,713
Lakshadweep	418	342	176	28
SUB-TOTAL	11,19,888	14,06,372	21,55,333	2,94,950
Assam	41,100	33,105	1,35,900	3,463
Manipur	341	35	3,122	475
Meghalaya	4,610	4,122	4,500	154
Nagaland	5,506	5,254	3,681	434
Tripura	3,888	4,924	8,700	725
Arunachal Pradesh	308	610	540	18
Mizoram	3,307	453	185	5
SUB-TOTAL	59,060	48,503	1,56,628	5,274
TOTAL (ALL INDIA)	41,94,366	42,77,272	90,19,896	10,51,174

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

(A) Included in domestic category.

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

(P)—Data regarding consumers of Tamil Nadu State Electy. Board are provisional.

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

TABLE No. 64—Contd.

State/U.Ts.	Industrial H. V.		Public Lighting	
	Connected Load (KW)	Consumers	Connected Load (KW)	Consumers
Haryana	4,03,022	660	3,925	585
Himachal Pradesh	(C)	(C)	1,032	174
Jammu & Kashmir (R)	(C)	(C)	320	39(D)
Punjab	9,36,308	5,702	4,511	561
Rajasthan	4,46,143	312	8,282	3,029
Uttar Pradesh	11,07,875	1,941*	13,001	3,834
Chandigarh	22,416	58	1,386	152
Delhi	83,634	201	16,083	1,066
SUB-TOTAL	29,99,398	8,874	48,540	9,440
Gujarat	9,34,607	1,437	25,222	7,431
Madhya Pradesh	7,81,690	686	33,113	9,437
Maharashtra	28,07,115	3,357	43,679	18,846
Goa, Daman & Diu	84,843	133	1,061	280
D & N Haveli	600	7	250	45
SUB-TOTAL	46,08,855	5,620	1,03,325	36,039
Bihar	5,72,260	1,121	7,013	5,768
Orissa	4,84,460	245	11,073	2,807
West Bengal	10,93,298	2,022	13,523	437
D. V. C.	4,25,000	23	..	..
A & N Islands . . . . .	..	..	(A)	58
Sikkim . . . . .	..	..	37	900**
SUB-TOTAL	25,75,018	3,411	31,646	9,970
Andhra Pradesh	9,21,527	1,173	32,495	20,146
Karnataka	8,10,289	1,163	25,248	8,426
Kerala	4,13,136	574	14,102	3,027
Tamil Nadu	11,80,926	1,297	43,529	39,754
Pondicherry	22,910	39	710	27
Lakshadweep . . . . .	..	..	52	44
SUB-TOTAL	33,48,788	4,246	1,16,136	71,424
Assam	61,081	20	4,350	540
Manipur . . . . .	..	..	87	60
Meghalaya	6,231	4	50	74
Nagaland . . . . .	..	..	619	409
Tripura	1,500	1	625	105
Arunachal Pradesh . . . . .	..	..	102	1,271
Mizoram . . . . .	..	..	(A)	(A)
SUB-TOTAL	68,812	25	5,833	2,459
TOTAL (ALL INDIA)	1,36,00,871	22,176	3,05,480	1,29,322

NOTE :—

(E) Data regarding connected load estimated in respect of Haryana State Electy. Board, Goa, Daman & Diu & West Bengal State Electy. Board due to non-availability of information.

** No. of consumers reported last year have been revised.

(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 . . . . .	..	..	9,50,640	2,04,000
Himachal Pradesh . . . . .	..	..	17,955	1,713
Jammu & Kashmir . . . . .	..	..	15,647	885
Punjab . . . . .	..	..	9,61,308	2,54,330
Rajasthan . . . . .	..	..	8,89,310	1,82,106
Uttar Pradesh	1,03,275	4	17,02,797	2,97,777
Chandigarh . . . . .	..	..	1,538	344
Delhi . . . . .	..	..	2,911	208
SUB-TOTAL	1,03,275	4	45,42,106	9,41,363
Gujarat	50,000	5	13,05,492	2,04,297
Madhya Pradesh	43,500	6	8,68,028	3,12,037
Maharashtra	1,54,600	8	20,56,956	5,96,714
Goa, Daman & Diu . . . . .	..	..	10,098	1,700
D & N Haveli . . . . .	..	..	350	202
SUB-TOTAL	2,48,100	19	42,40,924	11,14,950
Bihar	1,63,000	8	4,75,057	1,55,377
Orissa	22,900	4	70,896	9,976
West Bengal	1,21,267	13	1,32,765	22,202
D. V. C.	90,000	7	..	..
A & N Islands . . . . .	..	..	..	1
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	3,97,167	32	6,78,718	1,87,556
Andhra Pradesh . . . . .	..	..	15,72,054	4,05,457
Karnataka . . . . .	..	..	9,79,478	2,94,591
Kerala . . . . .	..	..	2,49,337	78,045
Tamil Nadu	34,828	5	29,19,719	8,49,644
Pondicherry . . . . .	..	..	28,917	7,144
Lakshadweep . . . . .	..	..	..	..
SUB-TOTAL	34,828	5	57,49,505	16,34,881
Assam . . . . .	..	..	34,000	1,678
Manipur . . . . .	..	..	..	..
Meghalaya . . . . .	..	..	380	14
Nagaland . . . . .	..	..	..	..
Tripura . . . . .	..	..	1,720	86
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL . . . . .	..	..	36,100	1,778
TOTAL (ALL INDIA)	7,83,370	60	1,52,47,353	38,80,528

TABLE NO. 64—Concl'd.

State/UTs.	Public Water Works		Miscellaneous	
	Connected Load (KW)	Consumers	Connected Load (KW)	Consumers
Haryana	15,352	950	29,649	105
Himachal Pradesh	(C)	(C)	53,570	37
Jammu & Kashmir (R)	9,216	315	18,329	1,963
Punjab	3,000(F)	86(F)	N.A.	1
Rajasthan	55,593	3,873	51,122	2,395
Uttar Pradesh	45,881	1,030	2,231	1,901
Chandigarh	4,229	151	..	..
Delhi	37,675	39	N.A.	1
SUB-TOTAL	1,70,946	6,444	1,75,901	6,403
Gujarat	88,054	5,524	11,003	69
Madhya Pradesh	48,580	2,145	35	22
Maharashtra	1,01,603	4,430	1,28,332	4,301
Goa, Daman & Diu	4,038	32	5,000	37
D & N Haveli	40	31	..	..
SUB-TOTAL	2,42,315	12,162	144,370	4,429
Bihar	22,000	667	..	..
Orissa	15,438	674	30,868	131
West Bengal	42,150	445	48,433	1,639
D.V. C. . . . .	..	..	5,000	4
A & N Islands	400	8	..	..
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	79,988	1,794	8,430	1,774
Andhra Pradesh	20,918	1,158	55,784	24,162
Karnataka	67,776	1,274	500	1
Kerala	11,703	474	..	..
Tamil Nadu	51,103	11,129	1,09,441	19,623
Pondicherry	(C)	(C)	..	..
Lakshadweep . . . . .	..	..	..	..
SUB-TOTAL	1,51,500	14,935	1,65,725	43,786
Assam	3,907	33	32,200	356
Manipur	220	5	..	..
Meghalaya	550	16	..	..
Nagaland	330	15	..	..
Tripura	1,040	50	2,600	12
Arunachal Pradesh	30	4	78	427
Mizoram	(C)	(C)	..	..
SUB-TOTAL	6,077	125	34,878	795
TOTAL (ALL INDIA)	6,50,826	35,460	6,05,175	57,187

N.A.—Not available.

(C) Included in Industrial (LV & MV) Category.

(F) Consumers & connected load of Punjab S.E.B. are included in Agricultural category.

NOTE:—In certain cases, figures for the year 1979-80 may not be consistent with the previous years figures because of improper reporting or revision of last year data by Electricity Boards/Licensees.

TABLE NO. 65

Average electricity Consumption per consumer
Regionwise/Statewise-Categorywise during 1979-80.

(In thousand KWH)

Region	State/U.Ts.	Total Average All Categories	Domestic	Commercial
<i>Northern Region</i>	Haryana	2.15	0.26	0.48
	Himachal Pradesh	0.58	0.16	0.59
	Jammu & Kashmir	1.44	0.35	0.92
	Punjab	2.45	0.29	0.54
	Rajasthan	2.43	0.27	0.61
	Uttar Pradesh	3.63	0.49	0.12
	Chandigarh	2.08	0.78	3.02
	Delhi	2.05	0.83	3.69
	SUB-TOTAL	2.53	0.41	1.22
<i>Western Region</i>	Gujarat	2.49	0.27	0.93
	Madhya Pradesh	2.70	0.33	0.65
	Maharashtra	2.81	0.51	1.41
	Goa, Daman & Diu	2.25	0.29	0.68
	D & N Haveli	1.52	0.26	3.97
		SUB-TOTAL	2.68	0.40	1.10
<i>Eastern Region</i>	Bihar (I)	4.50	0.33	0.53
	Orissa	4.81	0.35	0.87
	West Bengal (I)	4.51	0.87	1.70
	A & N Islands	0.58	0.26	0.79
	Sikkim	1.05	1.00	(A)
		SUB-TOTAL	4.53	0.61	1.18
<i>Southern Region</i>	Andhra Pradesh	2.03	0.35	1.31
	Karnataka	2.26	0.38	0.56
	Kerala	1.74	0.38	0.61
	Tamil Nadu	2.19	0.38	1.09
	Pondicherry	2.16	0.40	0.66
	Lakshadweep	0.23	0.18	0.64
		SUB-TOTAL	2.10	0.37	0.96
<i>North Eastern Region</i>	Assam	4.30	0.66	0.86
	Manipur	0.45	0.29	18.00
	Meghalaya	1.72	0.45	1.87
	Nagaland	0.58	0.22	0.64
	Tripura	1.01	0.69	6.48
	Arunachal Pradesh	0.55	0.29	0.66
	Mizoram	0.43	0.31	0.84
		SUB-TOTAL	2.91	0.51	0.91
	TOTAL (ALL-INDIA)	2.62	0.41	1.09

(I)—Including D.V.C.

(A)—Included in Domestic Category.

TABLE No. 65—Contd.

(In thousand KWH)

State/UTs.	Industrial L.V. & M.V.	Industries H.V.	Public Lighting
Haryana	7.89	1,193.03	12.34
Himachal Pradesh	16.94	(C)	10.63
Jammu & Kashmir	18.80	(C)	160.26
Punjab	10.63	338.75	24.12
Rajasthan	6.67	3,737.28	6.73
Uttar Pradesh	7.47	1,467.48	8.68
Chandigarh	2.21	707.59	20.72
Delhi	7.07	1,905.47	45.26
SUB-TOTAL	8.42	789.04	14.19
Gujarat	6.30	2,758.18	9.15
Madhya Pradesh	5.76	4,237.38	3.65
Maharashtra	8.42	1,924.15	8.36
Goa, Daman & Diu	4.98	1,301.58	9.25
D & N Haveli	5.75	381.43	2.89
SUB-TOTAL	7.14	2,403.11	7.29
Bihar (I)	4.12	2,299.09	0.78
Orissa	6.52	6,808.98	3.23
West Bengal (I)	5.31	1,595.90	107.71
A & N Islands	10.96	..	4.48
Sikkim	285.71	..	0.17
SUB-TOTAL	4.95	2,190.09	6.12
Andhra Pradesh	7.78	1,811.43	2.17
Karnataka	6.92	2,762.00	8.28
Kerala	6.73	2,516.08	12.46
Tamil Nadu	4.87	2,636.80	2.27
Pondicherry	5.80	1,340.51	81.85
Lakshadweep	0.71	..	0.45
SUB-TOTAL	6.03	2,430.12	3.41
Assam	44.93	13,845.00	13.52
Manipur	5.26	..	Neg.
Meghalaya	24.61	2,670.03	9.46
Nagaland	1.75	..	2.47
Tripura	5.30	500.03	2.95
Arunachal Pradesh	40.56	..	0.70
Mizoram	Neg.	..	(A)
SUB-TOTAL	31.71	11,523.20	4.27
TOTAL (ALL-INDIA)	7.01	1,739.91	5.50

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

TABLE NO. 65—Contd.

(In thousand KWH)			
State/UTs.	Traction	Agricultural	Public Water Works
Haryana	..	4.59	21.13
Himachal Pradesh	..	3.16	(C)
Jammu & Kashmir	..	26.27	130.16
Punjab	..	7.46	82.21
Rajasthan	..	5.05	34.47
Uttar Pradesh	83,695.00	8.56	132.49
Chandigarh	..	4.33	15.57
Delhi	..	67.31	(C)
SUB-TOTAL	83,695.00	6.74	52.83
Gujarat	27,246.00	6.10	33.25
Madhya Pradesh	17,146.67	1.07	72.36
Maharashtra	1,01,470.00	2.25	59.24
Goa, Daman & Diu	..	1.21	645.63
D & N Haveli	..	1.73	2.90
SUB-TOTAL	55,308.95	2.63	51.15
Bihar (I)	45,038.75	2.86	72.74
Orissa	24,555.00	4.61	49.81
West Bengal (I)	31,054.62	3.40	360.90
A & N Islands	..	..	26.25
Sikkim	..	..	..
SUB-TOTAL	26,949.06	3.02	135.40
Andhra Pradesh	..	2.35	56.79
Karnataka	..	1.25	0.15
Kerala	..	1.03	68.31
Tamil Nadu	10,626.00	2.56	7.35
Pondicherry	..	4.27	(C)
Lakshadweep	..	..	..
SUB-TOTAL	10,626.00	2.21	12.42
Assam	..	1.73	436.36
Manipur	..	..	..
Meghalaya	..	..	..
Nagaland	..	..	21.25
Tripura	..	2.03	12.67
Arunachal Pradesh	..	..	32.31
Mizoram	..	..	25.00
SUB-TOTAL	..	2.62	134.00
TOTAL (ALL-INDIA)	38,352.50	3.47	39.70

(C)—Included in Industrial Low & Medium Voltage.

TABLE NO. 66

Average connected load per consumer
Regionwise/Statewise-Categorywise as on 31st March 1980

		(in KW)		
Region	State/U.Ts.	Total Average (All Categories)	Domestic	Commercial
<i>Northern Region</i>	Haryana	1.96	0.33	0.57
	Himachal Pradesh	0.93	0.47	1.09
	Jammu & Kashmir	0.66	0.24	0.47
	Punjab	1.64	0.52	0.90
	Rajasthan	2.05	0.58	0.76
	Uttar Pradesh	2.34	0.50	1.96
	Chandigarh	2.75	1.73	5.33
	Delhi	1.19	0.62	1.85
	SUB-TOTAL	1.81	0.51	1.08
<i>Western Region</i>	Gujarat	1.64	0.51	0.96
	Madhya Pradesh	1.88	0.53	0.88
	Maharashtra	2.10	0.71	1.12
	Goa, Daman & Diu	1.96	0.84	1.00
	D & N Haveli	1.13	0.46	0.55
	SUB-TOTAL	1.92	0.61	1.02
<i>Eastern Region</i>	Bihar	2.39	0.51	0.67
	Orissa	2.45	0.60	0.87
	West Bengal	2.53	0.97	1.54
	D. V. C.	14,054.86	..	10.00
	A & N Islands	0.52	0.40	0.50
	Sikkim	1.73	1.94	(A)
	SUB-TOTAL	2.66	0.77[#]	1.14
<i>Southern Region</i>	Andhra Pradesh	1.88	0.48	1.23
	Karnataka	1.53	0.52	0.73
	Kerala	1.37	0.63	0.65
	Tamil Nadu	1.79	0.55	0.67
	Pondicherry	1.89	0.64	0.48
	Lakshadweep	0.65	0.55	1.22
		SUB-TOTAL	1.69	0.54	0.80
<i>North Eastern Region</i>	Assam	2.95	0.70	1.24
	Manipur	0.43	0.23	9.74
	Meghalaya	1.11	0.59	1.12
	Nagaland	1.09	0.94	1.05
	Tripura	1.11	0.40	0.79
	Arunachal Pradesh	0.34	0.31	0.50
	Mizoram	1.15	0.52	7.30
		SUB-TOTAL	1.96	0.62	1.22
	TOTAL (ALL-INDIA)	1.88	0.58	0.98

TABLE NO. 66—Contd.

State/U.Ts.	Industrial LV & MV	Industrial HV	Public Lighting
Haryana	11.29	610.64	6.71
Himachal Pradesh	15.32	(C)	5.93
Jammu & Kashmir	10.54	(C)	8.21
Punjab	7.86	164.21	8.04
Rajasthan	10.16	1,429.95	2.73
Uttar Pr.,desh	9.47	570.78	3.39
Chandigarh	15.20	386.48	9.11
Delhi	6.45	416.09	15.09
Sub-TOTAL	9.28	338.00	5.14
Gujarat	7.98	650.39	3.39
Madhya Pradesh	9.32	1,139.49	3.51
Maharashtra	9.97	836.20	2.32
Goa, Daman & Diu	9.43	637.92	3.79
D & N Haveli	13.42	85.71	5.56
Sub-TOTAL	9.10	820.08	2.87
Bihar	8.51	510.49	1.22
Orissa	14.99	1,977.39	3.94
West Bengal	5.99	540.70	30.95
D.V.C. . . . .	..	18,478.26	..
A & N Islands	5.00	..	..
Sikkim	24.49	..	0.04
Sub-TOTAL	7.84	754.92	3.17
Andhra Pradesh	10.82	785.62	1.61
Karnataka	6.46	696.72	2.99
Kerala	11.57	719.75	4.66
Tamil Nadu	5.44	910.02	1.09
Pondicherry	14.82	587.44	26.30
Lakshadweep	6.29	..	1.18
Sub-TOTAL	7.31	788.69	1.63
Assam	39.24	3,054.05	8.06
Manipur	6.57	..	1.45
Meghalaya	29.22	1,557.75	0.68
Nagaland	8.48	..	1.51
Tripura	12.00	1,500.00	5.95
Arunachal Pradesh	30.00	..	0.08
Mizoram	37.00	..	(A)
Sub-TOTAL	29.70	2,752.48	2.37
TOTAL (ALL-INDIA)	8.58	613.31	2.36

(A)—Included in Domestic.

(C)—Included in Industrial Low & Medium voltage.

TABLE No. 66—Contd.

(In KW)

State/U.Ts.	Traction	Agricultural	Public Water Works
Haryana . . . . .	..	4.66	14.24
Himachal Pradesh . . . . .	..	10.48	(C)
Jammu & Kashmir . . . . .	..	17.68	29.26
Punjab . . . . .	..	3.78	34.88
Rajasthan . . . . .	..	4.88	14.35
Uttar Pradesh	25,818.75	5.72	44.54
Chandigarh . . . . .	..	4.47	28.01
Delhi . . . . .	..	14.00	966.03
SUB-TOTAL	25,818.75	4.83	26.53
Gujrat	10,000	6.39	15.94
Madhya Pradesh	7,250	2.78	22.65
Maharashtra	19,325	3.45	22.94
Goa, Daman & Diu . . . . .	..	5.94	126.19
D & N Haveli . . . . .	..	1.73	1.29
SUB-TOTAL	13,057.89	3.80	19.92
Bihar	20,375.00	3.06	32.98
Orissa	5,725.00	7.11	22.91
West Bengal	9,328.23	5.98	94.72
D.V.C.	12,857.14	..	..
A & N Islands . . . . .	..	..	50.00
Sikkim . . . . .	..	..	..
SUB-TOTAL	12,411.47	3.62	41.59
Andhra Pradesh . . . . .	..	3.88	18.06
Karnataka . . . . .	..	3.32	31.18
Kerala . . . . .	..	3.19	24.69
Tamil Nadu	6,965.60	3.44	4.59
Pondicherry . . . . .	..	4.05	(C)
Lakshadweep . . . . .	..	..	..
SUB-TOTAL	6,965.60	3.52	10.14
Assam . . . . .	..	20.26	118.39
Manipur . . . . .	..	..	44.00
Meghalaya . . . . .	..	27.14	34.38
Nagaland . . . . .	..	..	22.00
Tripura . . . . .	..	20.00	20.00
Arunachal Pradesh . . . . .	..	..	7.50
Mizoram . . . . .	..	..	(C)
SUB-TOTAL . . . . .	..	20.30	48.62
TOTAL (ALL-INDIA)	13,056.17	3.93	18.35

SECTION X
URBAN AND RURAL ELECTRIFICATION

URBAN AND RURAL ELECTRIFICATION

For the economic upliftment of rural sector, availability of electricity is one of the important prerequisites and it is the policy of State and Central Governments to extend electricity rapidly to the rural areas. During the year 1979-80, 17029 villages have been benefited by electricity bringing the total number of villages electrified to 249799 as on 31-3-1980, which represents 43.37% of the total registered villages in the country. The States of Punjab, Haryana & Kerala and U.Ts. 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 (98.8%) and Union Territories of Goa, Daman & Diu. (86.8%) and Lakshadweep (90.0%).

As regards the regionwise progress in rural electrification, southern region tops with 69.84% of the total villages covered by electricity. The rural population enjoying the benefits of village electrification was 65.1% as on 31-3-1980 compared to 62.1% during the last year i.e. as on 31-3-1979. Out of 3126 towns in the country 3125 towns stand electrified as on 31-3-1980. The only town left to be electrified is in West Bengal.

Tempo of pumpset energisation was maintained during 1979-80. This has helped agricultural consumers to improve the productivity of their agricultural operations. The total number of energised pumpsets in the country were 3965820 as on 31-3-1980. Tamil Nadu continued to have maximum number of energised pumpsets (887227 Nos.) followed by Maharashtra (597474) and Andhra Pradesh (405127).

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, 1980.

Region	State/U.Ts.	Total Number	POPULATION GROUPS		
			Below 5000	5000 to 9999	10000 to 19999
<i>Northern Region</i>	Haryana	65	5	20	15
	Himachal Pradesh	36	23	6	5
	Jammu & 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	5	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	35	241	246
<i>Eastern Region</i>	Bihar	202	12	47	72
	Orissa	81	2	30	23
	West Bengal	223	9	59	59
	Andaman & 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	296	820	987

TABLE No. 67—Contd.

State	POPULATION GROUPS				Electrified during 1979-80
	20000 to 49999	50000 to 99999	Over one lakh	Total number electrified	
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 . . . . .	..	..	..	2	..
Delhi . . . . .	..	1	2	3	..
Sub-Total	142	47	40	741	..
Gujarat	42	18	7	216	1
Madhya Pradesh	43	14	11	250	..
Maharashtra	65	25	17	289	..
Goa, Daman & Diu	3	1	..	13	..
Dadra & Nagar Haveli . . . . .	..	..	..	..	..
Sub-Total	153	58	35	768	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	3,125	1

TABLE NO. 68

Villages electrified in various population Groups (1971 Census) & rural Population benefitted by Electricity

Regionwise/Statewise as on 31st March, 1980.

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	7,988	681	210
	Jammu and Kashmir (+)	6,503	2,509	1,265	611
	Punjab	12,188	5,136	3,577	2,392
	Rajasthan	33,305	6,684	3,753	2,347
	Uttar Pradesh (+)	112,561	18,177	10,866	6,628
	Chandigarh	26	8	10	7
	Delhi	243	43	53	79
	Sub-total	188,473	42,568	22,144	13,947
<i>Western Region</i>	Gujarat	18,275	2,156	3,262	3,409
	Madhya Pradesh	70,883	9,645	6,690	4,420
	Maharashtra	35,778	7,370	7,970	6,552
	Goa, Daman and Diu	409	96	76	81
	Dadra & Nagar Haveli	72	13	12	22
	Sub-total	125,417	19,280	18,010	14,484
<i>Eastern Region</i>	Bihar	67,566	6,987	5,084	4,266
	Orissa	46,992	8,540	5,287	2,674
	West Bengal	38,074	3,396	3,538	34,45
	Andaman & Nicobar Islands	390	51	19	18
	Sikkim (+)	215	10	28	14
	Sub-total	152,237	18,984	13,956	10,417
<i>Southern Region</i>	Andhra Pradesh	27,221	2,230	3,537	5,384
	Karnataka	26,826	5,928	4,796	3,554
	Kerala	1,268	4	2	16
	Tamil Nadu	15,735	2,817	3,407	4,542
	Pondicherry	333	162	85	57
	Lakshadweep	10	..	..	1
		Sub-TOTAL	71,393	11,141	11,827	13,504
<i>North Eastern Region</i>	Assam (+)	21,995	2,170	1,145	669
	Manipur (+)	1,949	119	81	69
	Meghalaya	4,583	384	177	39
	Nagaland	960	155	84	65
	Tripura	4,727	236	273	181
	Arunachal Pradesh (+)	2,973	215	41	5
	Mizoram	229	6	2	1
		Sub-TOTAL	37,416	3,285	1,743	1,029
	TOTAL (ALL-INDIA)	575,936	95,253	67,650	53,381

TABLE No. 68—Contd.

State/U.T.s	VILLAGES ELECTRIFIED IN VARIOUS POPULATION GROUPS			
	2000—4999	5000—9999	10,000 & above	Total electrified as on 31-3-1980.
Haryana	975	148	8	6,731
Himachal Pradesh	40	2	..	8,921
Jammu & Kashmir (+)	160	7	..	4,552* (a)
Punjab	940	79	2	12,126
Rajasthan (+)	952	85	10	13,831
Uttar Pradesh (+)	2,598	289	19	38,577
Chandigarh . . . . .	..	1	..	26
Delhi	60	6	2	243
SUB-TOTAL	5,725	617	41	85,007
Gujarat	1,777	247	16	10,867
Madhya Pradesh	1,202	87	6	22,050
Maharashtra	3,000	490	75	25,457
Goa, Daman & Diu	77	23	2	355
Dadra Nagar & Haveli	5	..	..	52
SUB-TOTAL	6,061	847	99	58,781
Bihar (+)	2,584	449	75	19,445
Orissa	709	19	2	17,231
West Bengal	2,129	315	40	12,863
Andaman & Nicobar	1	..	..	89
Islands				
Sikkim (+)	1	..	..	53
SUB-TOTAL	5,424	783	177	49,681
Andhra Pradesh	4,546	708	80	16,435
Karnataka (+)	1,747	232	9	16,266
Kerala	122	316	808	1,268
Tamil Nadu	3,892	752	140	15,550
Pondicherry	26	3	..	333
Lakshadweep	6	2	..	9
SUB-TOTAL	10,339	2,013	1,037	49,861
Assam (+)	231	11	..	4,226
Manipur (+)	51	2	..	322
Meghalaya	6	..	..	546
Nagaland	15	1	..	320
Tripura	68	8	..	766
Arunachal Pradesh (+)	2	..	..	263
Mizoram	16	1	..	26
SUB-TOTAL	389	23	..	6,469
TOTAL (ALL INDIA)	27,938	4,283	1,294	249,799

NOTE : * Figure provisional.

(+) Population wise break up estimated.

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

(a) As on 31-12-1979.

TABLE No. 68—Contd.

State/U.Ts.	%age electrified	Villages electrified during 1979-80	Total Population @ (Lakhs)	Rural Population benefited (Lakhs)	%age benefited
Haryana	100.00	(**)	82.64	82.64	100.00
Himachal Pradesh	52.74	592	32.19	21.50	66.8
Jammu & Kashmir	70.00	124	37.59	25.89+(b)	68.7
Punjab	100.00	(**)	103.35	103.35	100.00
Rajasthan	41.58	1,520	212.22	122.98	57.9
Uttar Pradesh(+)	34.27	2,279	759.53	336.24	44.3
Chandigarh	100.00	(**)	0.24	0.24	100.00
Delhi	100.00	(**)	4.19	4.19	100.00
SUB-TOTAL	45.10	4,515	1231.95	697.03	56.58
Gujarat	59.46	1,403	192.01	147.16	76.6
Madhya Pradesh	31.11	2,700	348.69	174.24	50.0
Maharashtra	71.15	2,073	347.01	298.81	86.1
Goa, Daman & Diu	86.80	4	6.31	6.25	99.0
Dadra & Nagar Haveli	72.22	..	0.74	0.61	82.4
SUB-TOTAL	46.87	6,180	894.76	627.07	70.08
Bihar	28.78	742	507.19	224.90	44.3
Orissa	36.67	1,663	200.99	118.39	58.9
West Bengal	33.78	700	333.45	172.26	51.7
Andaman & Nicobar Islands	22.82	18	0.89	0.52	58.4
Sikkim(+)	24.65	5	1.90	0.32	16.8
SUB-TOTAL	32.42	3,128	1044.42	516.39	49.44
Andhra Pradesh	60.38	982	351.00	323.15	92.1
Karnataka	60.64	546	221.77	168.86	76.1
Kerala	100.00	20	178.81	178.81	100.00
Tamil Nadu	98.82	25	287.34	286.52	99.7
Pondicherry	100.00	(**)	2.73	2.73	100.00
Lakshadweep	90.00	..	03.18	0.317	99.7
SUB-TOTAL	69.84	1,573	1,041.97	960.39	92.17
Assam(+)	19.21	1,225	133.36	39.24	29.4
Manipur(+)	16.52	48	9.31	5.06(a)	54.4
Meghalaya	11.91	72	8.65	2.37	27.4
Nagaland	33.33	50	4.65	2.36	50.8
Tripura	16.20	200	13.94	6.88	41.4
Arunachal Pradesh	8.85	33	4.50	1.10	24.4
Mizoram	11.35	5	2.95	0.64	21.7
SUB-TOTAL	17.29	1,633	177.36	57.65	32.50
TOTAL (ALL INDIA)	43.37	17,029	4390.46	2858.53	65.1

NOTE : + Population wise break-up estimated.

(**) 100 % villages electrification already achieved.

(b) Figure pertains to rural population only.

£ — Figure Provisional (b) as on 31-12-1979.

(a) As on 31-3-1979.

TABLE NO. 69

Irrigation pumpsets energised
Regionwise/Statewise as on 31st March, 1980.

Region	States/UTs	No. of Pumpsets energised	Agricultural consumption	
			Quantum (GWH)	% to total consumption in the State
<i>Northern Region</i>	Haryana	203,367	936.02	39.75
	Himachal Pradesh	1,633	5.42	2.32
	Jammu & Kashmir	985	23.25	5.52
	Punjab	262,267	1896.34	38.59
	Rajasthan	183,238	919.19	30.90
	Uttar Pradesh	351,750	2548.04	33.48
	Chandigarh	495	1.49	0.98
	Delhi	11,117	14.00	0.67
	SUB-TOTAL	1,024,852	6343.75	30.58
<i>Western Region</i>	Gujarat	202,853	1246.71	17.06
	Madhya Pradesh	279,431	336.72	7.75
	Maharashtra	597,474	1343.61	10.40
	Goa, Daman & Diu	1,757	2.06	0.80
	Dadra & Nagar Haveli	221	0.35	7.56
		SUB-TOTAL	1,081,736	2929.45	11.80
<i>Eastern Region</i>	Bihar	151,985	444.07	11.27
	Orissa	12,958	45.95	2.11
	West Bengal	24,068	75.52	1.34
	A & N. Islands	1	..	..
	Sikkim	Nil	..	..
		SUB-TOTAL	189,012	565.54	4.80
<i>Southern Region</i>	Andhra Pradesh	405,127	951.03	20.98
	Karnataka	290,308	368.45	7.59
	Kerala	77,863	80.58	3.42
	Tamil Nadu	887,227	2173.06	26.75
	Pondicherry	7,720	30.49	24.98
	Lakshadweep	Nil	..	..
		SUB-TOTAL	1,668,245	3608.61	18.04
<i>North-Eastern Region</i>	Assam	1,678	2.90	0.48
	Manipur	10	..	..
	Meghalaya	47	Neg.	..
	Nagaland	Nil	..	..
	Tripura	248	1.75	6.96
	Arunachal Pradesh	Nil	..	..
	Mizoram	Nil	..	..
		SUB-TOTAL	1,983	4.65
	TOTAL (ALL-INDIA)	3965,828	13452.00	17.23

TABLE No. 69—Contd.

State/U.T.	Agricultural connected load (KW)	Average capacity per pump-set (KW)	Average consumption per pumpset (KWH)	Consumption per unit of connected load (KWH/KW)
Haryana	950,640	4.67	4,603	985
Himachal Pradesh	17,955	10.99	3,319	302
Jammu & Kashmir	15,647	15.89	23,604	1,486
Punjab	961,308	3.67	7,230	1,973
Rajasthan	889,310	4.85	5,016	1,034
Uttar Pradesh	1,702,797	4.71	7,044	1,496
Chandigarh	1,538	3.11	3,010	969
Delhi	2,911	0.26*	1,259	4,809*
SUB-TOTAL	4,542,106	4.43	6,190	1,397
Gujarat	1,305,492	6.44	6,146	955
Madhya Pradesh	868,028	3.11	1,205	388
Maharashtra	2,056,956	3.44	2,249	653
Goa, Daman & Diu	10,098	5.75	1,172	204
Dadra & Nagar Haveli	350	1.58	1,584	1,000
SUB-TOTAL	4,240,924	3.92	2,708	691
Bihar	475,057	3.13	2,922	935
Orissa	70,896	5.47	3,546	648
West Bengal	132,765	5.52	3,137	569
A & N Islands . . . . .	..	..	..	..
Sikkim . . . . .	..	..	..	..
SUB-TOTAL	678,718	3.59	2,992	833
Andhra Pradesh	1,572,054	3.88	2,347	605
Karnataka	979,478	3.37	1,269	376
Kerala	249,337	3.20	1,034	323
Tamil Nadu	2,919,719	3.29	2,455	746
Pondicherry	28,917	3.74	3,949	1,054
Lakshadweep . . . . .	..	..	..	..
SUB-TOTAL	5,749,505	3.45	2,163	628
Assam	34,000	20.26	1,728	85
Manipur . . . . .	..	..	..	..
Meghalaya	380	8.08	..	..
Nagaland . . . . .	..	..	..	..
Tripura	1,720	6.94	7,056	1,017
Arunachal Pradesh . . . . .	..	..	..	..
Mizoram . . . . .	..	..	..	..
SUB-TOTAL	36,100	18.20	2,345	129
TOTAL (ALL -INDIA)	15,247,353	3.84	3,392	882

*—Connected load of State Agricultural Pumpsets not available, hence not included.